

# **FATT Runoff Analyses**

## **PART III**

### **FATT Project Analyses**

# Part III – FATT Project Analyses

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**Sycamore Creek Watershed**

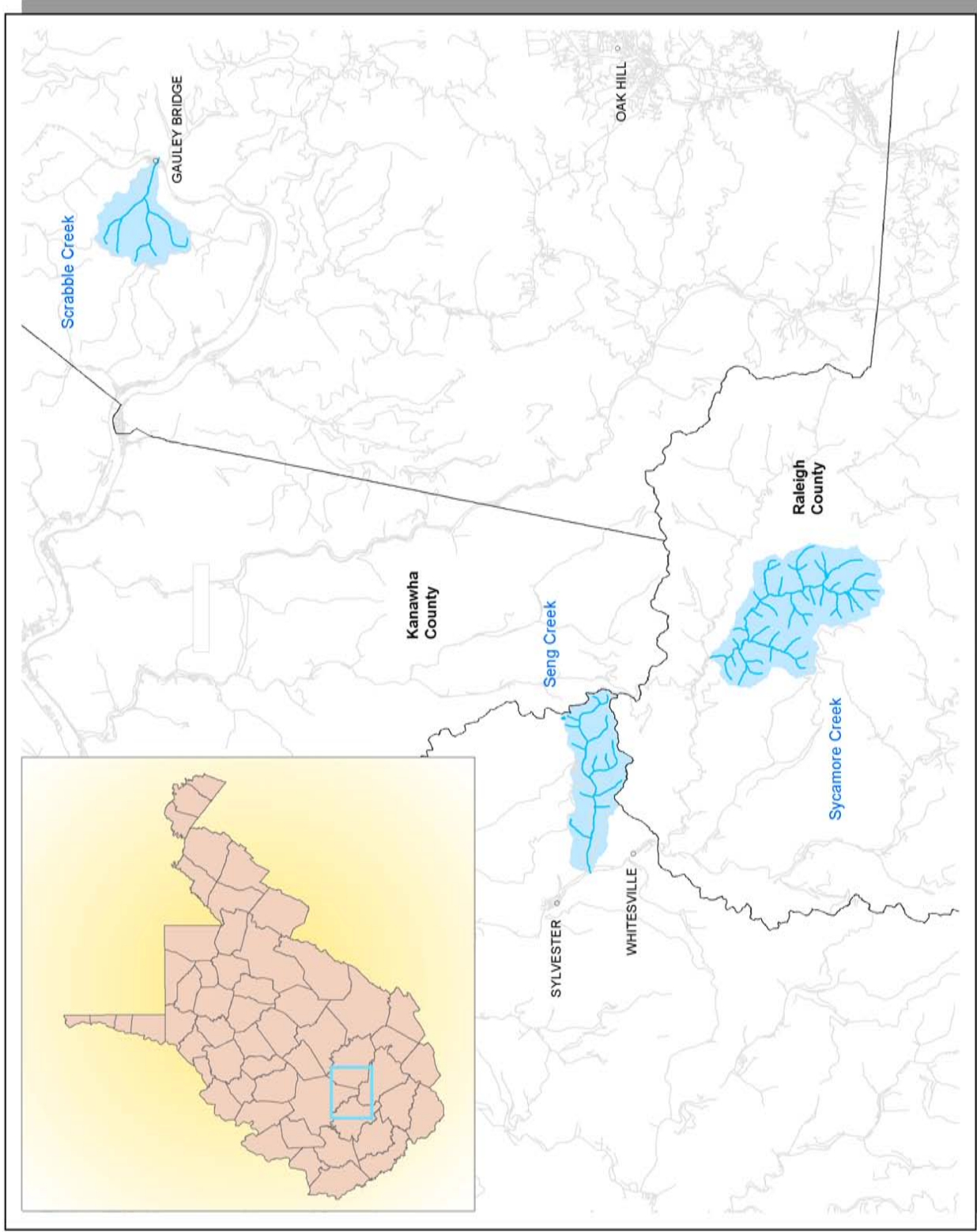
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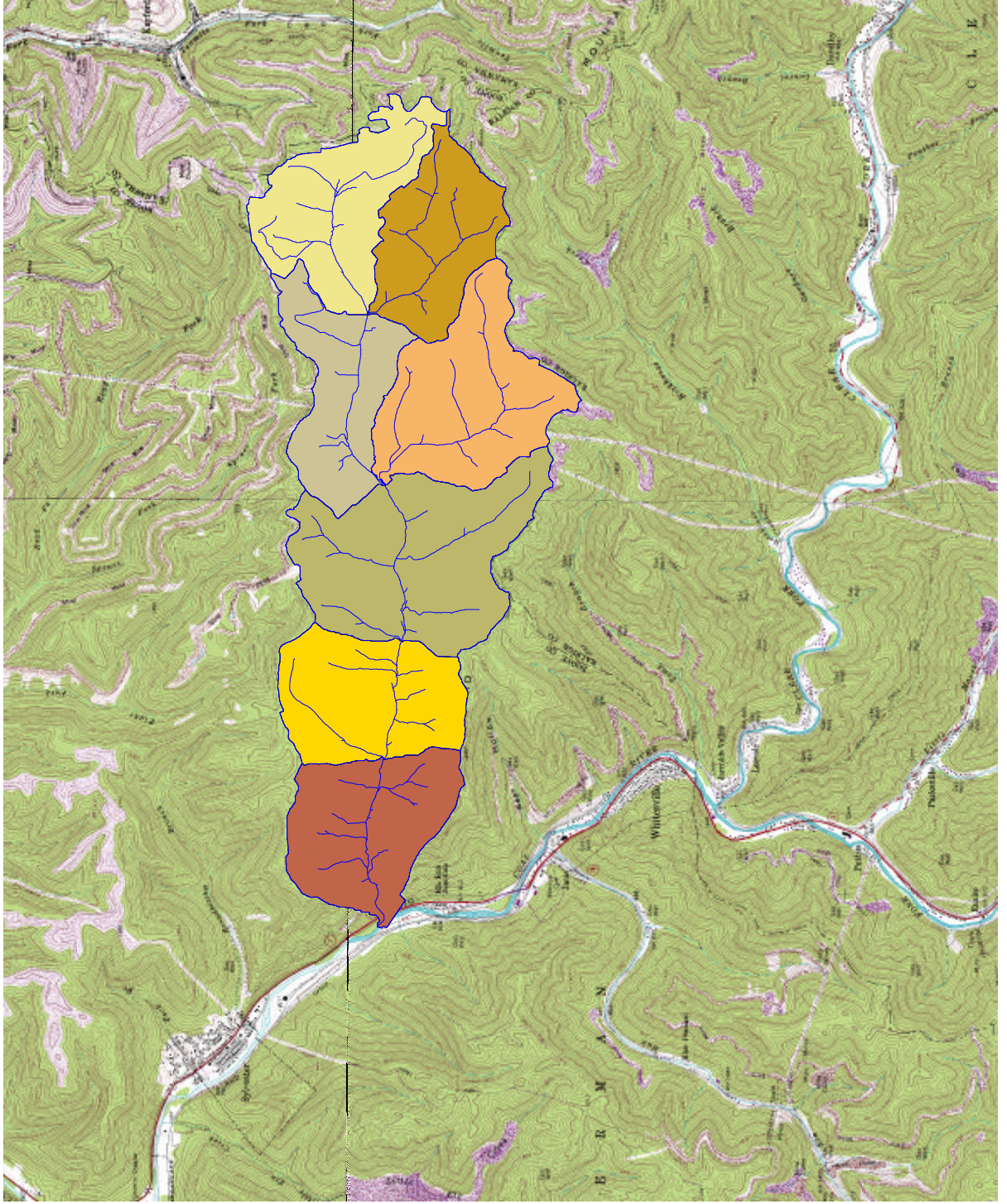
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# Watershed Study Areas



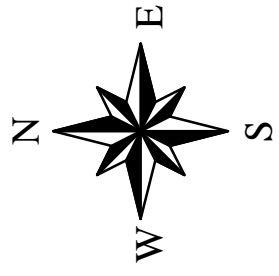
# Seng Creek Watershed



Streams

Drainage Areas

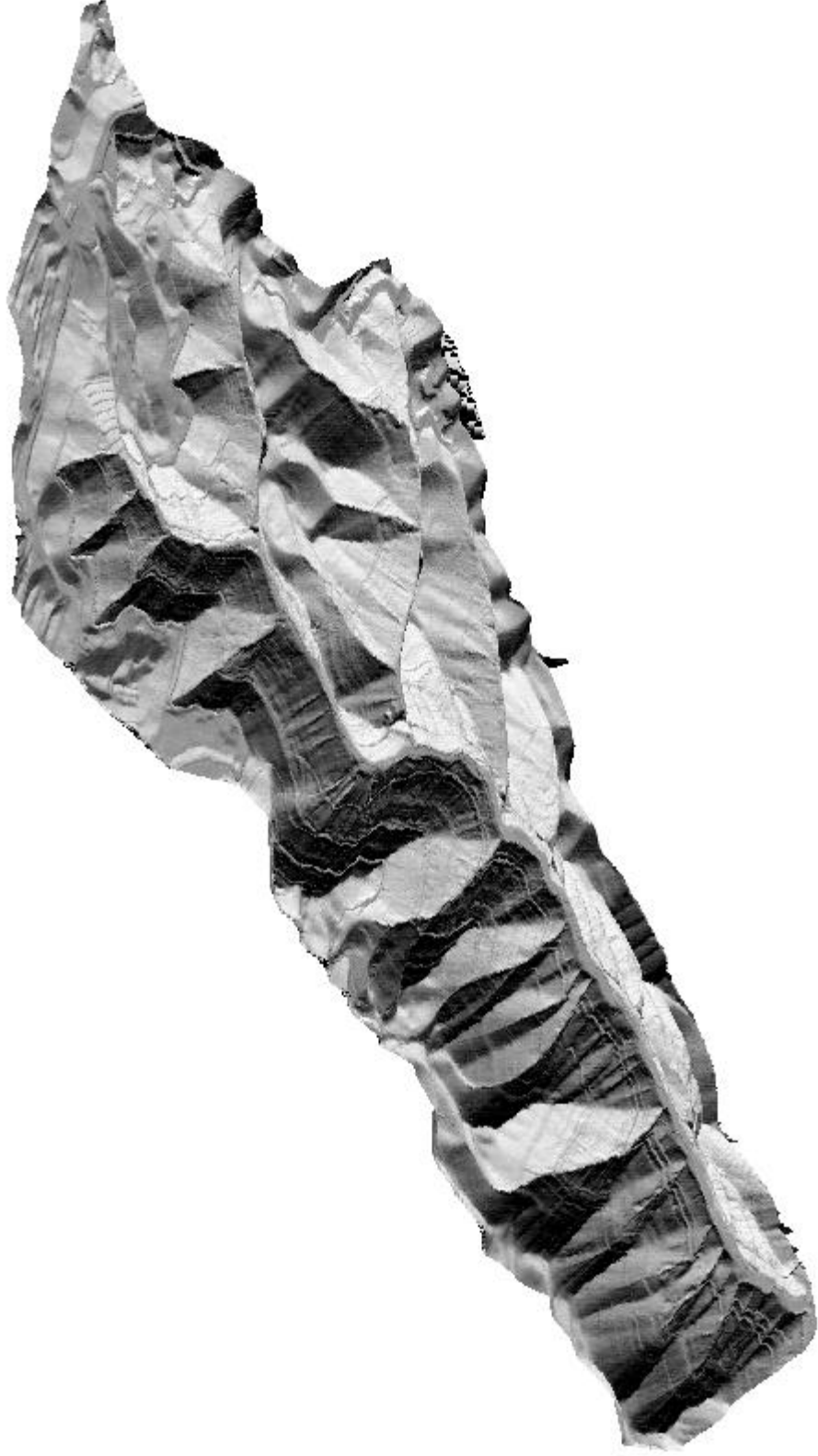
- 1B
- 2B
- 3B
- 4aB
- 4bB
- 5aB
- 5bB



Printed March 27, 2002



**Seng Creek LIDAR  
3D View  
Watershed Delineation**



**Seng Creek LIDAR  
Plan View  
Watershed Delineation**



# Seng Creek Study Area



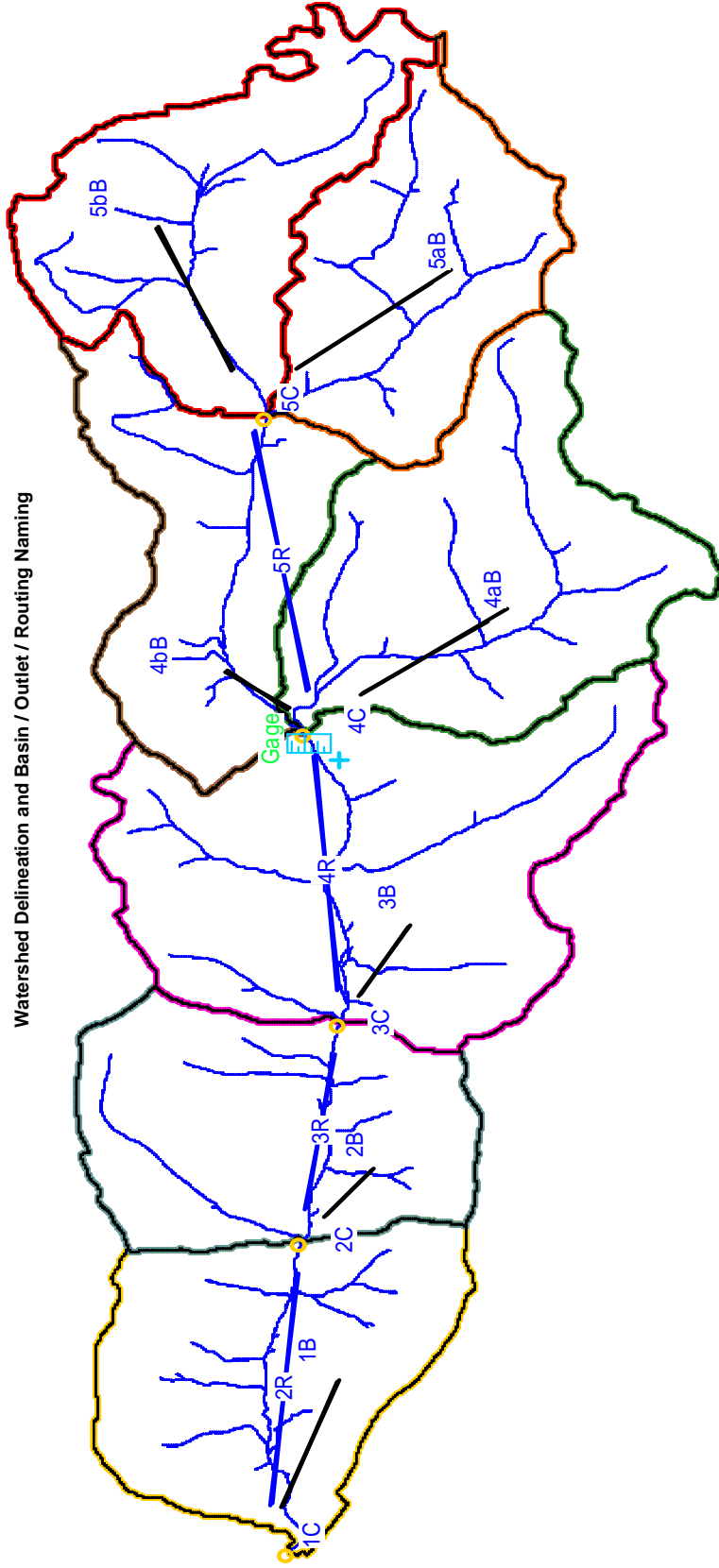
## Legend

-  Seng Creek Watershed Boundaries



Seng Creek Outlet Node	Scenario 1			Scenario 2			Scenario 3			Scenario 4			Scenario 5		
	Event	25 yr	100 yr	Event	25 yr	100 yr	Event	25 yr	100 yr	Event	25 yr	100 yr	Event	25 yr	100 yr
1C	2595	3467	4622	2451	3224	4350	2379	3118	4230	2457	3265	4431	2609	3545	4751
2C	2297	3209	4255	2171	2986	4008	2097	2861	3867	2190	3005	4065	2322	3243	4339
3C	1995	2816	3722	1883	2622	3507	1810	2490	3359	1828	2534	3418	1942	2733	3641
4C	1440	2155	2872	1364	1991	2689	1293	1864	2545	1374	1941	2654	1452	2112	2847
5C	713	1145	1511	686	1092	1452	618	961	1306	705	1078	1465	732	1131	1524

14 fps



Seng Creek Hydrology Analysis

Seng Creek Watershed Hydrology Analysis		Scenario 1				Scenario 2				Scenario 3				Scenario 4				Scenario 5			
		With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)		Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)		With Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)		Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)		Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)		Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)		Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)		Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)		Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)			
Bottom of Seng Creek at Node 1C	Storm Event	2595	3467	25 Yr Storm	4622	2451	3224	25 Yr Storm	4350	2379	3118	25 Yr Storm	4230	2457	3265	25 Yr Storm	4431	2609	3545	100 Yr Storm	4751
	Max Flow			100 Yr Storm				100 Yr Storm				100 Yr Storm								100 Yr Storm	
	Difference	216	349	392	72	106	120							138	202	197	152	280	320		
	% Difference	9.1%	11.2%	9.3%	3.0%	3.4%	2.8%							5.6%	6.2%	4.3%	6.2%	8.6%	7.2%		
		Logging Influence				Mining Influence				Total Influence				Logging Influence Cross Check							
		Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 1				Comparison with Scenario 4							
	Difference	144	243	272	-6	-41	-81							-78	-147	-207	-201				
	% Difference	5.9%	7.5%	6.3%	-0.2%	-1.3%	-1.9%							-3.3%	-4.7%	-4.8%	-4.8%				
		Logging Influence				Mining Influence				Topography Influence				Total Influence							
		Comparison with Scenario 2				Comparison with Scenario 4				Comparison with Scenario 3				Comparison with Scenario 1							
	Difference	2297	3209	4255	2171	2986	4008							2190	3005	4065	2322	3248	4339		
	Max Flow																				
		Logging Influence				Mining Influence				Total Influence				Logging Influence Cross Check							
		Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 1				Comparison with Scenario 4							
	Difference	200	348	388	74	125	141							107	204	190	132	243	274		
	% Difference	9.5%	12.2%	10.0%	3.5%	4.4%	3.6%							4.9%	6.8%	4.7%	6.0%	8.1%	6.7%		
		Logging Influence				Mining Influence				Topography Influence				Total Influence							
		Comparison with Scenario 2				Comparison with Scenario 4				Comparison with Scenario 3				Comparison with Scenario 1							
	Difference	126	223	247	-19	-19	-57							-93	-144	-198	-198				
	% Difference	5.8%	7.5%	6.2%	-0.9%	-0.6%	-1.4%							-4.4%	-5.0%	-5.1%	-5.1%				
		Logging Influence				Mining Influence				Total Influence				Logging Influence Cross Check							
		Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 1				Comparison with Scenario 4							
	Difference	1995	2816	3722	1883	2622	3507							1828	2534	3478	1942	2733	3647		
	Max Flow																				
		Logging Influence				Mining Influence				Total Influence				Logging Influence Cross Check							
		Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 1				Comparison with Scenario 4							
	Difference	185	326	363	73	132	148							167	282	304	114	199	223		
	% Difference	10.2%	13.1%	10.8%	4.0%	5.3%	4.4%							9.1%	11.1%	8.9%	6.2%	7.9%	6.5%		
		Logging Influence				Mining Influence				Topography Influence				Total Influence							
		Comparison with Scenario 2				Comparison with Scenario 4				Comparison with Scenario 3				Comparison with Scenario 1							
	Difference	112	194	215	55	88	89							-18	-44	-59	-59				
	% Difference	5.9%	7.4%	6.1%	3.0%	3.5%	2.6%							-1.0%	-1.8%	-1.8%	-1.8%				
		Logging Influence				Mining Influence				Topography Influence				Total Influence							

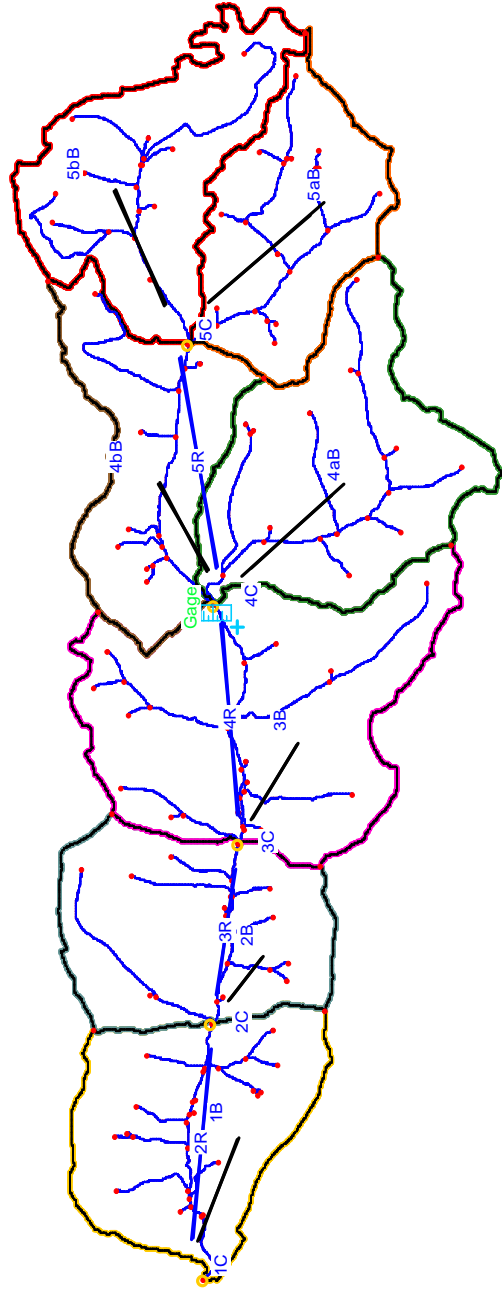
Seng Creek Hydrology Analysis

Seng Creek Watershed Hydrology Analysis	Scenario 1			Scenario 2			Scenario 3			Scenario 4			Scenario 5		
	With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (USGS DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (USGS DEM Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (USGS DEM Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (USGS DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (USGS DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (USGS DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (USGS DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (USGS DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (USGS DEM Data)
at Node 4C	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	
Max Flow	1440	2155	2872	1364	1991	2689	1293	1884	2545	1374	1941	2654	1452	2112	2847
	Logging Influence			Mining Influence			Total Influence			Logging Influence Cross Check					
Difference	147	291	327	71	127	144				66	214	218	78	171	193
% Difference	11.4%	15.6%	12.8%	5.5%	6.4%	5.7%				4.8%	11.0%	8.2%	5.7%	8.8%	7.3%
	Logging Influence			Mining Influence			Total Influence			Logging Influence Cross Check					
Difference	76	164	183	-10	50	35				-81	-77	-109			
% Difference	5.6%	8.2%	6.8%	-0.7%	2.6%	1.3%				-6.3%	-4.1%	-4.3%			
Downstream of Valley Fill at Node 5C	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event	Storm Event
Max Flow	713	1145	1511	686	1092	1452	618	961	1306	705	1078	1465	732	1131	1524
	Logging Influence			Mining Influence			Total Influence			Logging Influence Cross Check					
Difference	95	184	205	68	131	146				8	67	46	27	53	59
% Difference	15.4%	19.1%	15.7%	11.0%	13.6%	11.2%				1.1%	6.2%	3.1%	3.8%	4.9%	4.0%
	Logging Influence			Mining Influence			Total Influence			Logging Influence Cross Check					
Difference	27	53	59	-19	14	-13				-87	-117	-159			
% Difference	3.9%	4.9%	4.1%	-2.8%	1.3%	-0.9%				-14.1%	-12.2%	-12.2%			

Seng Creek Hydrology Analysis

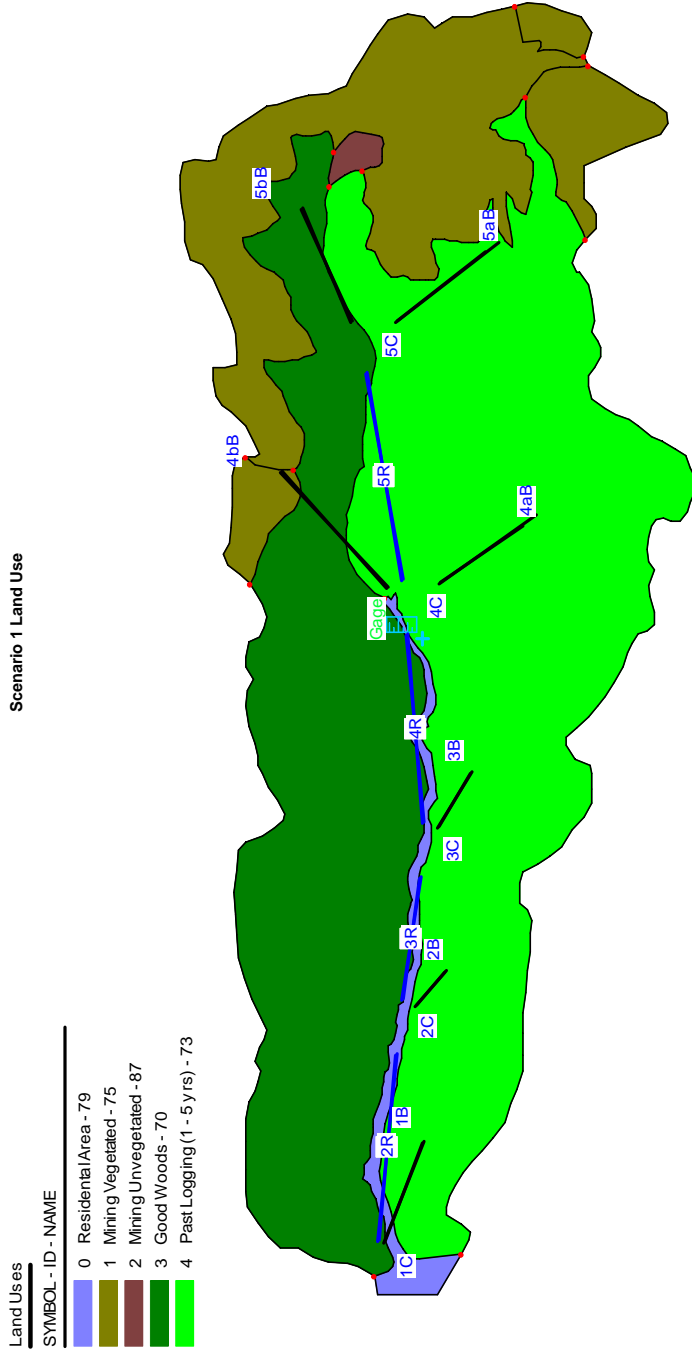
Seng Creek Watershed Hydrology Analysis	Scenario 1 With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 2 Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 3 Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Scenario 4 Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)	Scenario 5 With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (USGS DEM Data)
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Watershed Delineation and Basin / Outlet / Routing Naming



Seng Creek Hydrology Analysis

Seng Creek Watershed Hydrology Analysis	Scenario 1 With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 2 Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 3 Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Scenario 4 Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)	Scenario 5 With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (USGS DEM Data)
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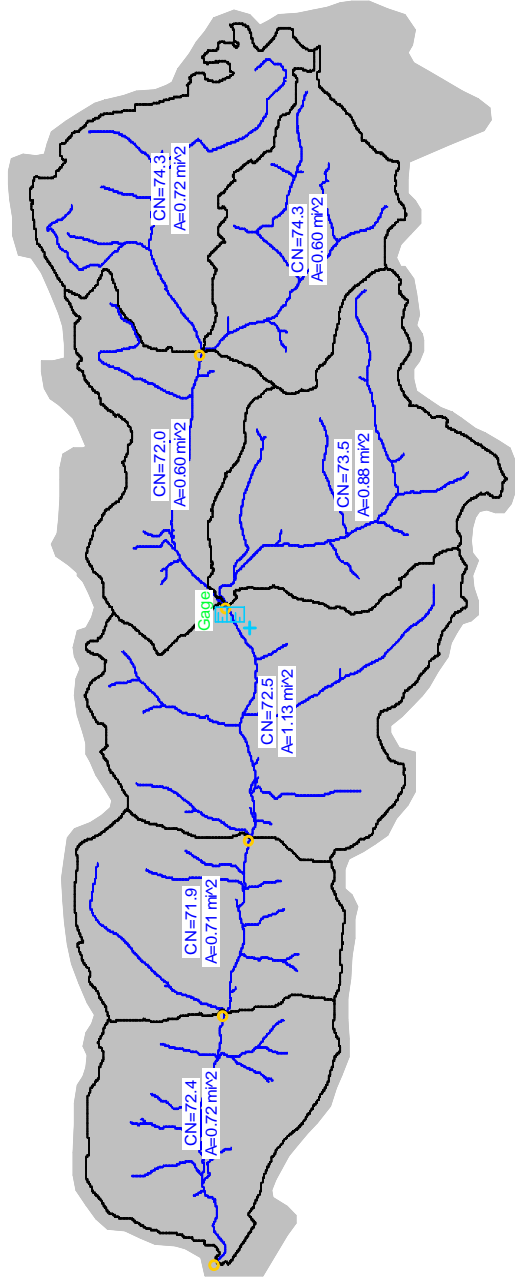




Seng Creek Hydrology Analysis

Seng Creek Watershed Hydrology Analysis	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
	With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)	With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (USGS DEM Data)

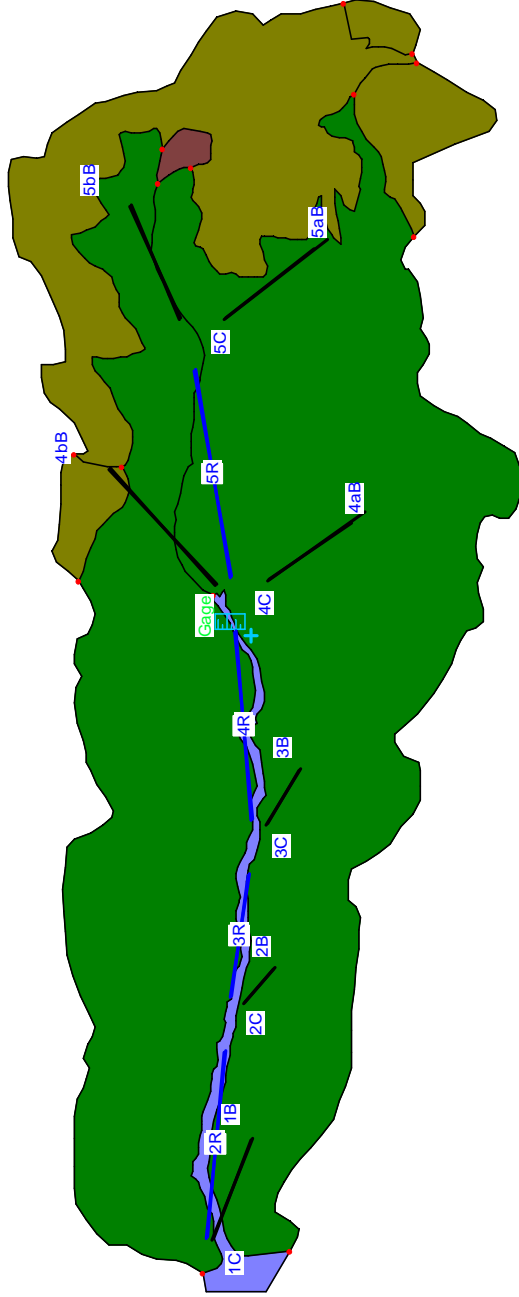
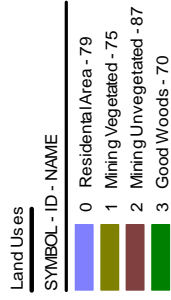
Scenario 1 Watershed Boundaries and Composite CN and Computed Areas



Seng Creek Hydrology Analysis

Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
<b>Seng Creek Watershed Hydrology Analysis</b> With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)	With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (USGS DEM Data)

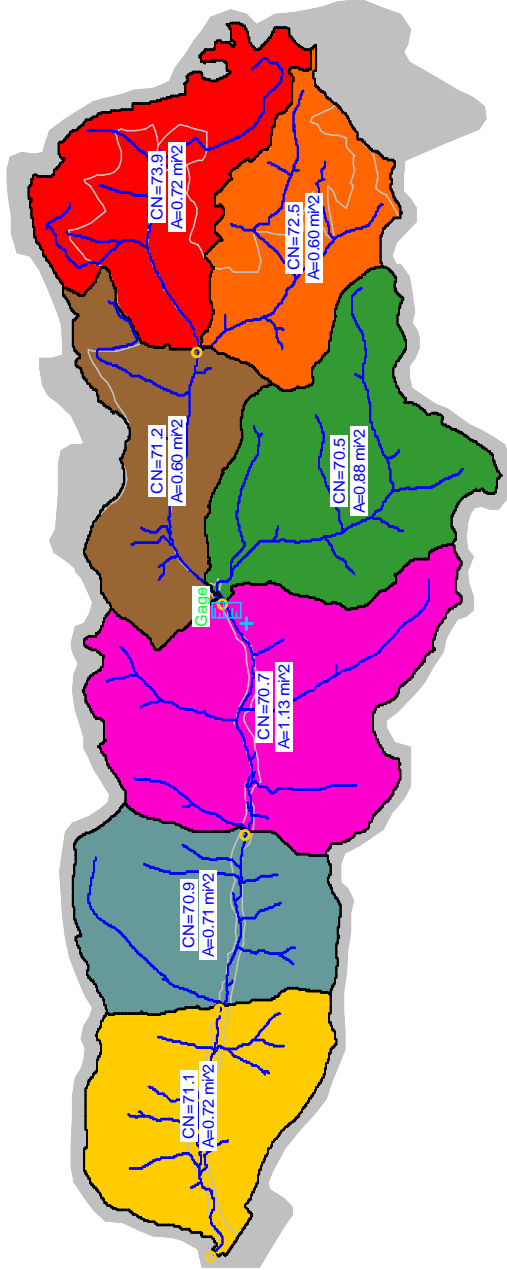
Scenario 2 Land Use



Seng Creek Hydrology Analysis

<p><b>Seng Creek Watershed Hydrology Analysis</b></p>	<p><b>Scenario 1</b> With Logging (CN 70 &amp; 73) With Mining (CN 75 &amp; 87) Topography w Mining (LIDAR Data)</p>	<p><b>Scenario 2</b> Without Logging (CN 70) With Mining (CN 75 &amp; 87) Topography w Mining (LIDAR Data)</p>	<p><b>Scenario 3</b> Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)</p>	<p><b>Scenario 4</b> Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)</p>	<p><b>Scenario 5</b> With Logging (CN 70 &amp; 73) Without Mining (CN 70) Pristine Topography (USGS DEM Data)</p>
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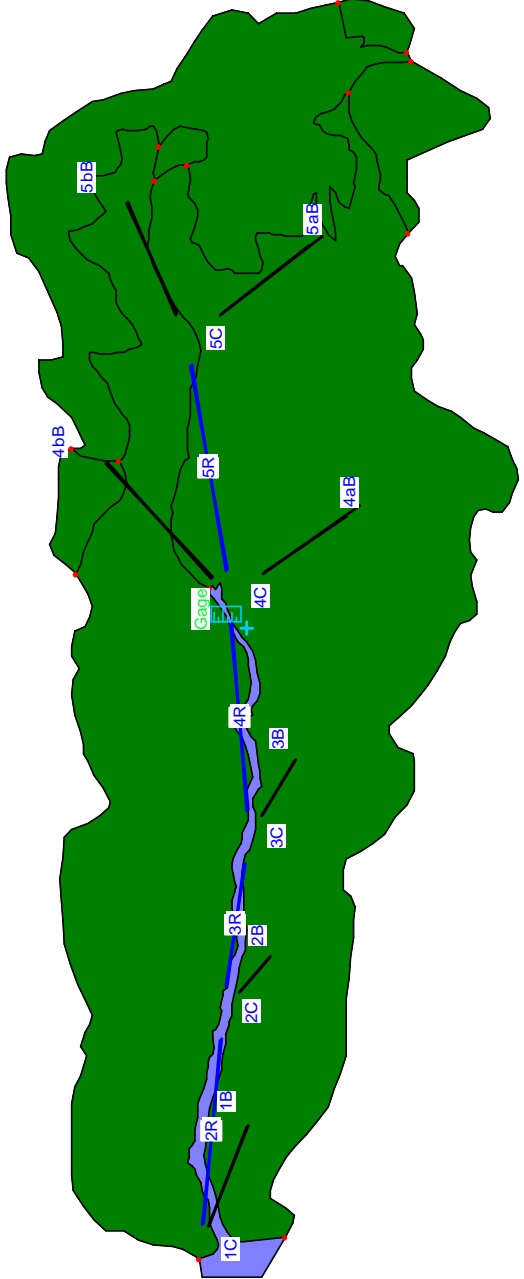
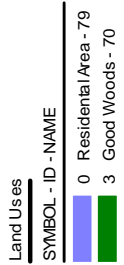
Scenario 2 Watershed Boundaries and Composite CN and Computed Areas



Seng Creek Hydrology Analysis

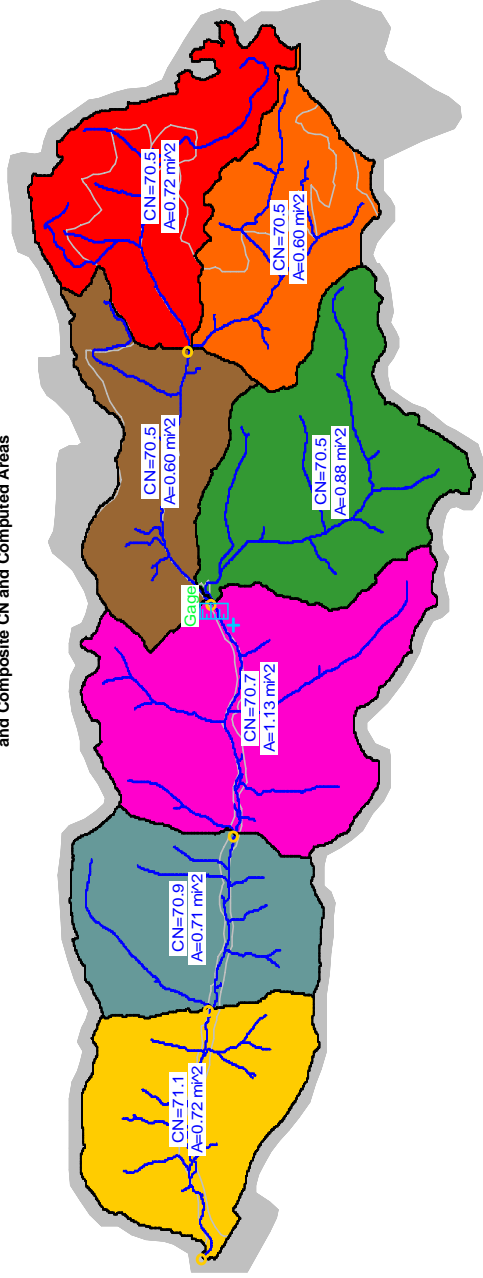
Scenario 1 Seng Creek Watershed Hydrology Analysis	Scenario 2	Scenario 3	Scenario 4	Scenario 5
With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)	With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (USGS DEM Data)

Scenario 3 Land Use



<p><b>Seng Creek Watershed Hydrology Analysis</b></p>	<p><b>Scenario 1</b> With Logging (CN 70 &amp; 73) With Mining (CN 75 &amp; 87) Topography w Mining (LIDAR Data)</p>	<p><b>Scenario 2</b> Without Logging (CN 70) With Mining (CN 75 &amp; 87) Topography w Mining (LIDAR Data)</p>	<p><b>Scenario 3</b> Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)</p>	<p><b>Scenario 4</b> Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)</p>	<p><b>Scenario 5</b> With Logging (CN 70 &amp; 73) Without Mining (CN 70) Pristine Topography (USGS DEM Data)</p>
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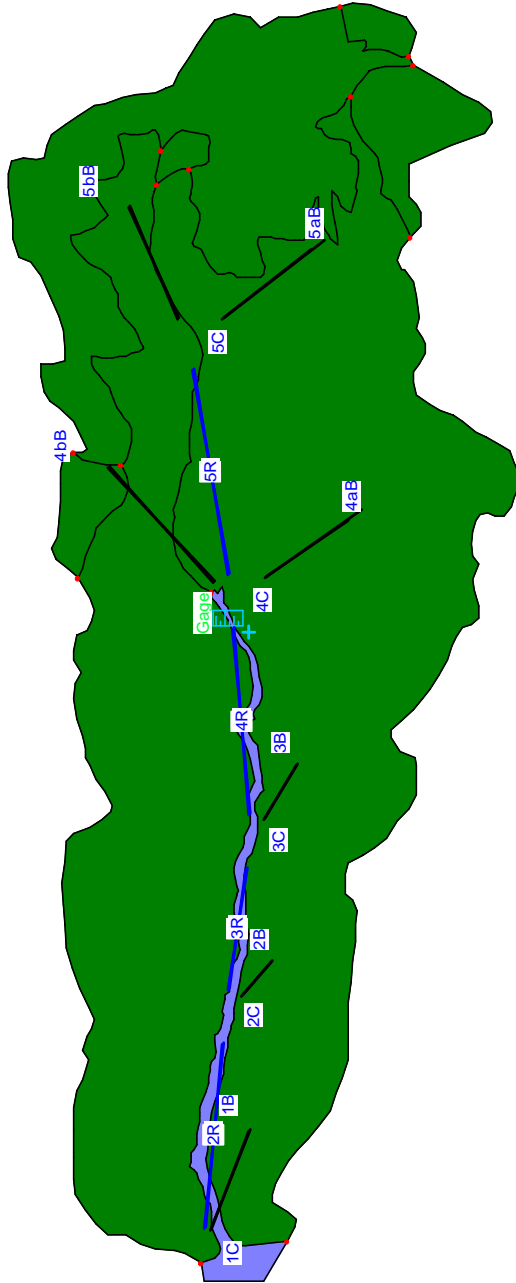
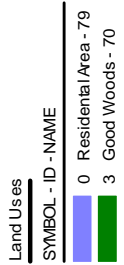
Scenario 3 Watershed Boundaries and Composite CN and Computed Areas



Seng Creek Hydrology Analysis

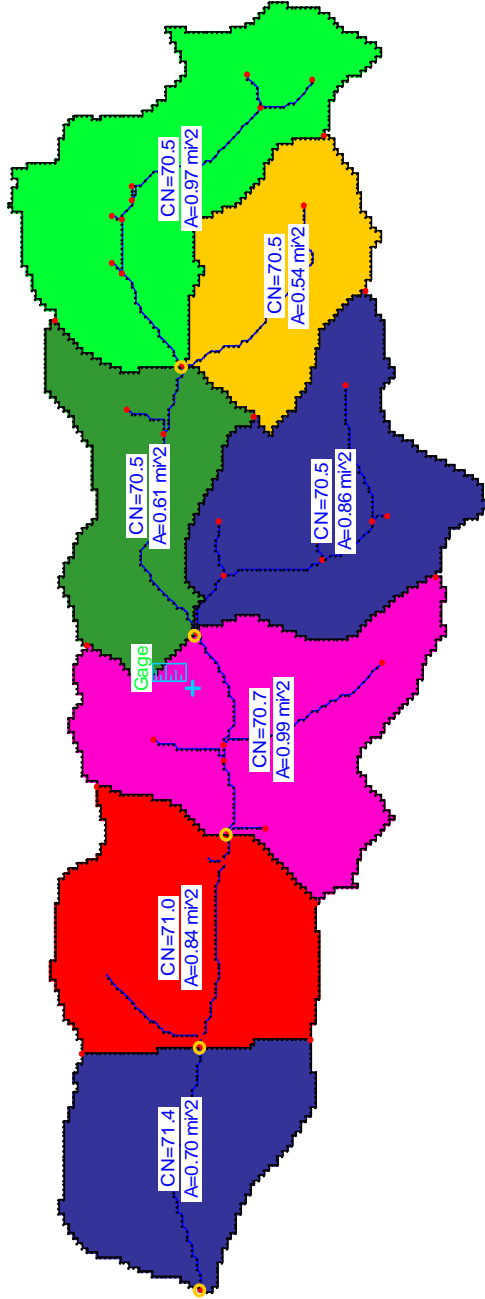
Seng Creek Watershed Hydrology Analysis	Scenario 1 With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 2 Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 3 Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Scenario 4 Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)	Scenario 5 With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (USGS DEM Data)
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Scenario 4 Land Use



Seng Creek Watershed Hydrology Analysis	Scenario 1 With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 2 Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 3 Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Scenario 4 Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)	Scenario 5 With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (USGS DEM Data)
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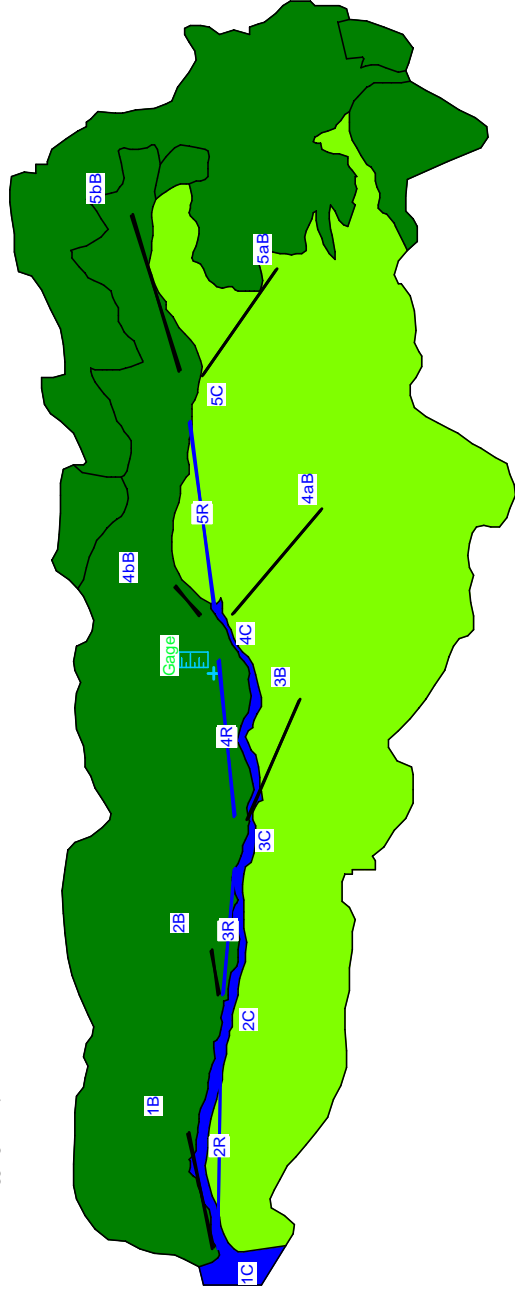
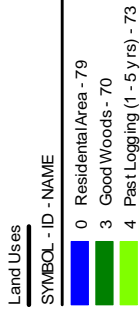
Scenario 4 Watershed Boundaries and Composite CN and Computed Areas



Seng Creek Hydrology Analysis

Seng Creek Watershed Hydrology Analysis	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
	With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)	With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (USGS DEM Data)

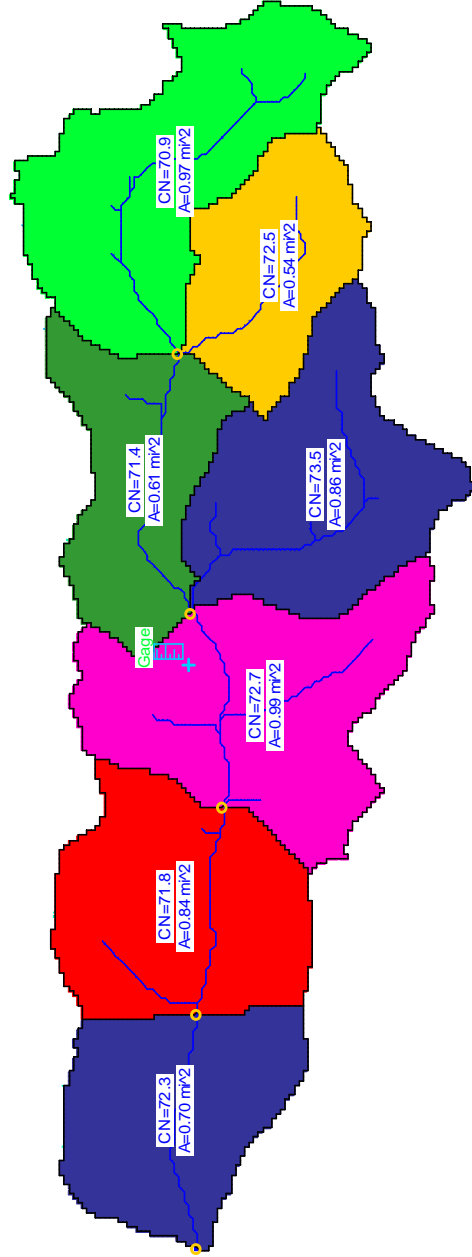
Scenario 5 Land Use



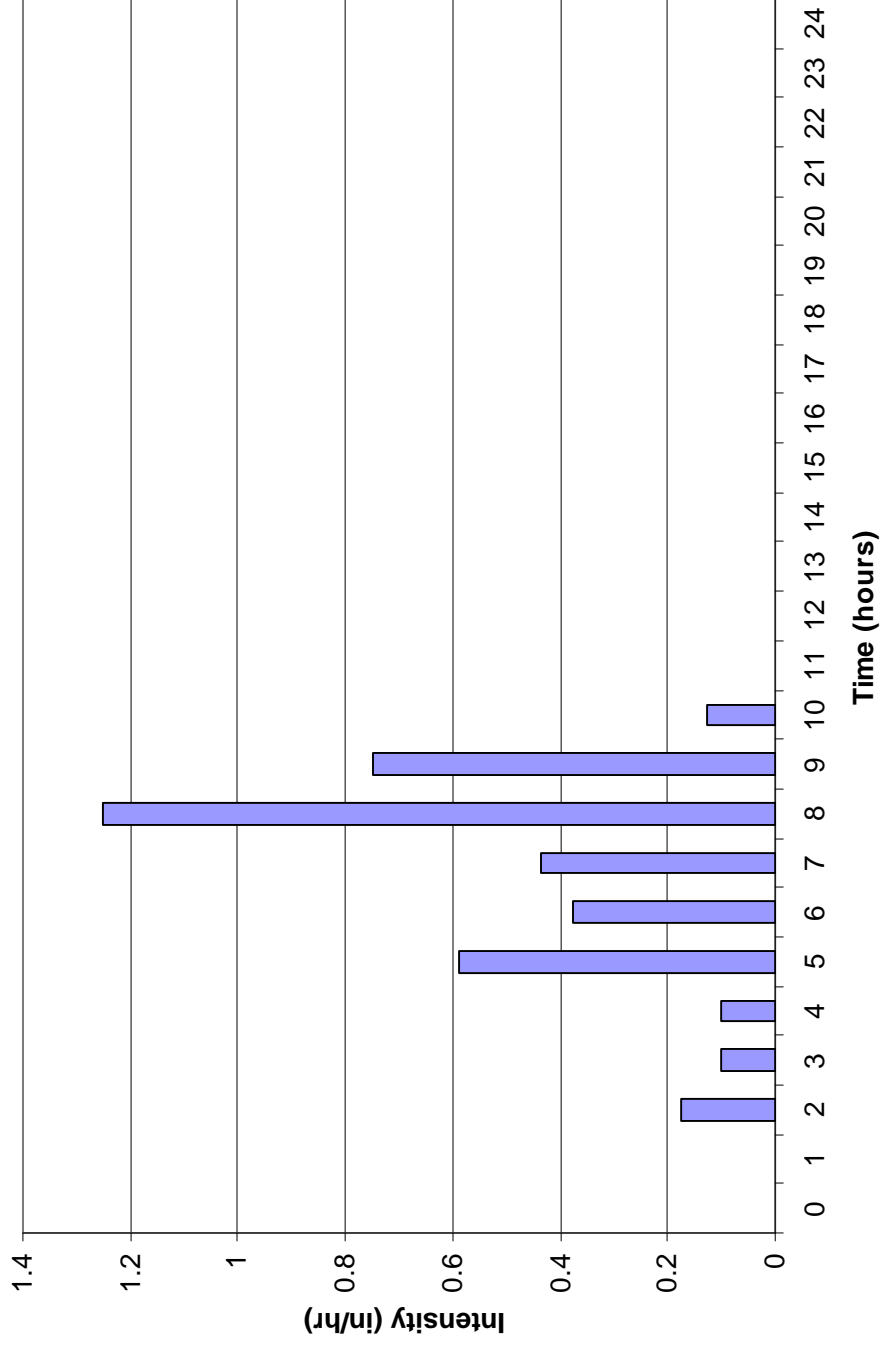


Seng Creek Watershed Hydrology Analysis	Scenario 1 With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 2 Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 3 Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Scenario 4 Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (USGS DEM Data)	Scenario 5 With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (USGS DEM Data)
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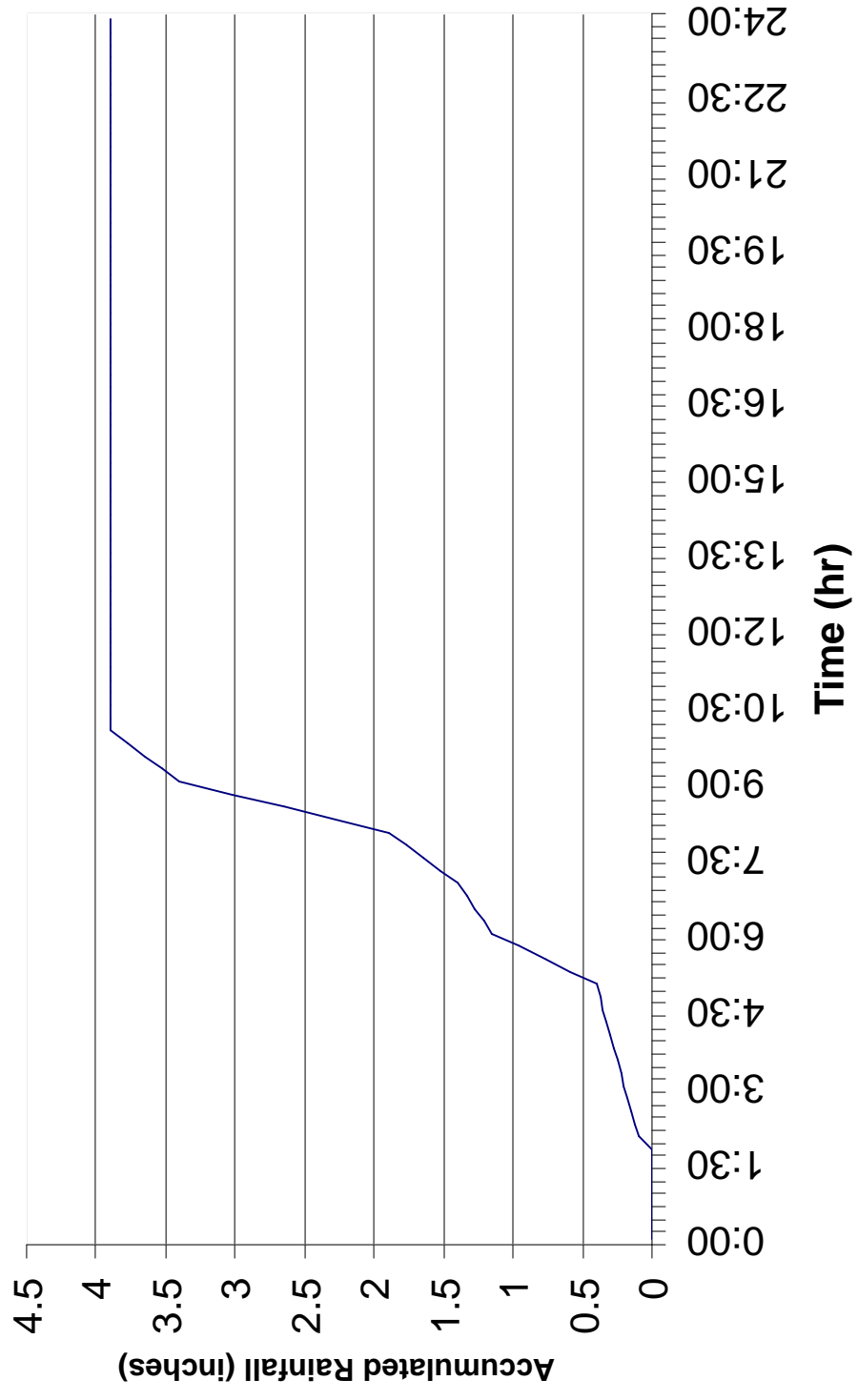
Scenario 5 Watershed Boundaries and Composite CN and Computed Areas



### July 8, 2001 Storm Event in Seng Creek



# July 8, 2001 Storm Event for Seng Creek



```

ID Seng Creek
ID w Mining & w Logging (Scenario 1), LIDAR Data
ID Storm Event
*DIAGRAM
IT 15 1JAN94 0 100
IO 0
* Gage XY Position 456107.00000 4205261.00000 1
PG Gage 3.9
IN 15 1JAN94 0
* Seng Rainfall Distribution
PC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.125
PC 0.15 0.175 0.2 0.225 0.25 0.275 0.3 0.325 0.35 0.375
PC 0.4 0.5875 0.775 0.9625 1.15 1.2125 1.275 1.3375 1.4 1.525
PC 1.65 1.775 1.9 2.275 2.65 3.025 3.4 3.525 3.65 3.775
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
KK 5bB
KO 0 0 0.0 1 22
BA0.7209
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 74.34 0.0
UD0.4104
KK 5aB
KO 0 0 0.0 1 22
BA0.6039
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 74.3 0.0
UD 0.344
KK 5C CNAME 5R
KO 0 0 0.0 0 22
HC 2
KK 5R CNAME 5C
KO 0 0 0.0 0 22
RM 1 0.124 0.2
KK 4aB
KO 0 0 0.0 1 22
BA0.8767
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 73.51 0.0
UD 0.358
KK 4bB
KO 0 0 0.0 1 22
BA0.6014
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 71.99 0.0
UD 0.383
KK 4C CNAME 4R
KO 0 0 0.0 0 22
HC 3
KK 4R CNAME 4C
KO 0 0 0.0 0 22
RM 1 0.112 0.2
KK 3B
KO 0 0 0.0 1 22
BA1.1321
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 72.46 0.0
UD0.3323
KK 3C CNAME 3R
KO 0 0 0.0 0 22
HC 2
KK 3R CNAME 3C
KO 0 0 0.0 0 22
RM 1 0.081 0.2
KK 2B
KO 0 0 0.0 1 22

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BA0.7082
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 71.86 0.0
UD0.2379
KK 2C CNAME 2R
KO 0 0 0.0 0 22
HC 2
KK 2R CNAME 2C
KO 0 0 0.0 0 22
RM 1 0.119 0.2
KK 1B
KO 0 0 0.0 1 22
BA0.7193
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 72.39 0.0
UD0.2797
KK 1C CNAME 1C
KO 0 0 0.0 0 22
HC 2
KK 1C CNAME 1C
KO 0 0 0.0 0 22
RN 1C
ZZ
    
```

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ID Seng Creek
ID w Mining & w Logging (Scenario 1), LIDAR Data
ID 25 yr Storm
*DIAGRAM
IT 15 1JAN94 0 100
IO 0
KK 5bB
KO 0 0 0.0 1 22
BA0.7209
PB 4.65
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 74.34 0.0
UD0.4104
KK 5aB
KO 0 0 0.0 1 22
BA0.6039
PB 4.65
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 74.3 0.0
UD 0.344
KK 5C CNAME 5R

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KO      0      0      0.0      0      22
HC      2
KK      5R      CNAME      5C
KO      0      0      0.0      0      22
RM      1      0.124      0.2
KK      4aB
KO      0      0      0.0      1      22
BA0.8767
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC 0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC 0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC 0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC 0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC 0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC 0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC 0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC 0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC 0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC 0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC 0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC 0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC 0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC 0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC 0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC 0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      73.51      0.0
UD      0.358
KK      4bB
KO      0      0      0.0      1      22
BA0.6014
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC 0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC 0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC 0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC 0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC 0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC 0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC 0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC 0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC 0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC 0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC 0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC 0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC 0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC 0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC 0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC 0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      71.99      0.0
UD      0.383
KK      4C      CNAME      4R
KO      0      0      0.0      0      22

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HC      3
KK      4R  CNAME      4C
KO      0      0      0.0      0      22
RM      1      0.112    0.2
KK      3B
KO      0      0      0.0      1      22
BA1.1321
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      72.46      0.0
UD0.3323
KK      3C  CNAME      3R
KO      0      0      0.0      0      22
HC      2
KK      3R  CNAME      3C
KO      0      0      0.0      0      22
RM      1      0.081    0.2
KK      2B
KO      0      0      0.0      1      22
BA0.7082
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989

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PC	1.0									
LS	0.0	71.86	0.0							
UD0.	2379									
KK	2C	CNAME	2R							
KO	0	0	0.0	0	22					
HC	2									
KK	2R	CNAME	2C							
KO	0	0	0.0	0	22					
RM	1	0.119	0.2							
KK	1B									
KO	0	0	0.0	1	22					
BA0.	7193									
PB	4.65									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC	1.0									
LS	0.0	72.39	0.0							
UD0.	2797									
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
HC	2									
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
RN	1C									
ZZ										

ID Seng Creek  
ID w Mining & w Logging (Scenario 1), LIDAR Data  
ID 100 yr Storm

\*DIAGRAM

IT 15 1JAN94 0 100  
IO 0  
KK 5bB  
KO 0 0 0.0 1 22  
BA0.7209  
PB 5.45  
IN 6 1JAN94 0

\* typeII-24hour

PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989  
PC 1.0  
LS 0.0 74.34 0.0

UD0.4104

KK 5aB  
KO 0 0 0.0 1 22  
BA0.6039  
PB 5.45  
IN 6 1JAN94 0

\* typeII-24hour

PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989  
PC 1.0  
LS 0.0 74.3 0.0  
UD 0.344

KK 5C CNAME 5R

```

KO      0      0      0.0      0      22
HC      2
KK      5R      CNAME      5C
KO      0      0      0.0      0      22
RM      1      0.124      0.2
KK      4aB
KO      0      0      0.0      1      22
BA0.8767
PB      5.45
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      73.51      0.0
UD      0.358
KK      4bB
KO      0      0      0.0      1      22
BA0.6014
PB      5.45
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      71.99      0.0
UD      0.383
KK      4C      CNAME      4R
KO      0      0      0.0      0      22

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HC      3
KK      4R  CNAME      4C
KO      0      0      0.0      0      22
RM      1      0.112    0.2
KK      3B
KO      0      0      0.0      1      22
BA1.1321
PB      5.45
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      72.46      0.0
UD0.3323
KK      3C  CNAME      3R
KO      0      0      0.0      0      22
HC      2
KK      3R  CNAME      3C
KO      0      0      0.0      0      22
RM      1      0.081    0.2
KK      2B
KO      0      0      0.0      1      22
BA0.7082
PB      5.45
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989

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PC 1.0
LS 0.0 71.86 0.0
UDO.2379
KK 2C CNAME 2R
KO 0 0 0.0 0 22
HC 2
KK 2R CNAME 2C
KO 0 0 0.0 0 22
RM 1 0.119 0.2
KK 1B
KO 0 0 0.0 1 22
BA0.7193
PB 5.45
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 72.39 0.0
UDO.2797
KK 1C CNAME 1C
KO 0 0 0.0 0 22
HC 2
KK 1C CNAME 1C
KO 0 0 0.0 0 22
RN 1C
ZZ

```

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ID Seng Creek
ID w Mining & wo Logging (Scenario 2), LIDAR Data
ID Storm Event
*DIAGRAM
IT 15 1JAN94 0 100
IO 0
* Gage XY Position 456107.00000 4205261.00000 1
PG Gage 3.9
IN 15 1JAN94 0
* Seng Rainfall Distribution
PC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.125
PC 0.15 0.175 0.2 0.225 0.25 0.275 0.3 0.325 0.35 0.375
PC 0.4 0.5875 0.775 0.9625 1.15 1.2125 1.275 1.3375 1.4 1.525
PC 1.65 1.775 1.9 2.275 2.65 3.025 3.4 3.525 3.65 3.775
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
KK 5bB
KO 0 0 0.0 1 22
BA0.7209
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 73.87 0.0
UD0.4104
KK 5aB
KO 0 0 0.0 1 22
BA0.6039
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 72.51 0.0
UD 0.344
KK 5C CNAME 5R
KO 0 0 0.0 0 22
HC 2
KK 5R CNAME 5C
KO 0 0 0.0 0 22
RM 1 0.124 0.2
KK 4aB
KO 0 0 0.0 1 22
BA0.8767
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 70.52 0.0
UD 0.358
KK 4bB
KO 0 0 0.0 1 22
BA0.6014
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 71.15 0.0
UD 0.383
KK 4C CNAME 4R
KO 0 0 0.0 0 22
HC 3
KK 4R CNAME 4C
KO 0 0 0.0 0 22
RM 1 0.112 0.2
KK 3B
KO 0 0 0.0 1 22
BA1.1321
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 70.75 0.0
UD0.3323
KK 3C CNAME 3R
KO 0 0 0.0 0 22
HC 2
KK 3R CNAME 3C
KO 0 0 0.0 0 22
RM 1 0.081 0.2
KK 2B
KO 0 0 0.0 1 22

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BA0.7082					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.723				
LS	0.0	70.88	0.0		
UD0.2379					
KK	2C	CNAME	2R		
KO	0	0	0.0	0	22
HC	2				
KK	2R	CNAME	2C		
KO	0	0	0.0	0	22
RM	1	0.119	0.2		
KK	1B				
KO	0	0	0.0	1	22
BA0.7193					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.723				
LS	0.0	71.15	0.0		
UD0.2797					
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
HC	2				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
RN	1C				
ZZ					

ID Seng Creek  
ID w Mining & wo Logging (Scenario 2), LIDAR Data  
ID 25 yr Storm

\*DIAGRAM

IT 15 1JAN94 0 100  
IO 0  
KK 5bB  
KO 0 0 0.0 1 22  
BA0.7209  
PB 4.65  
IN 6 1JAN94 0

\* typeII-24hour

PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989  
PC 1.0  
LS 0.0 73.87 0.0

UD0.4104

KK 5aB  
KO 0 0 0.0 1 22  
BA0.6039  
PB 4.65  
IN 6 1JAN94 0

\* typeII-24hour

PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989  
PC 1.0  
LS 0.0 72.51 0.0

UD 0.344

KK 5C CNAME 5R



```

KO      0      0      0.0      0      22
HC      2
KK      5R      CNAME      5C
KO      0      0      0.0      0      22
RM      1      0.124      0.2
KK      4aB
KO      0      0      0.0      1      22
BA0.8767
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      70.52      0.0
UD      0.358
KK      4bB
KO      0      0      0.0      1      22
BA0.6014
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      71.15      0.0
UD      0.383
KK      4C      CNAME      4R
KO      0      0      0.0      0      22

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HC      3
KK      4R  CNAME      4C
KO      0      0      0.0      0      22
RM      1      0.112    0.2
KK      3B
KO      0      0      0.0      1      22
BA1.1321
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      70.75      0.0
UD0.3323
KK      3C  CNAME      3R
KO      0      0      0.0      0      22
HC      2
KK      3R  CNAME      3C
KO      0      0      0.0      0      22
RM      1      0.081    0.2
KK      2B
KO      0      0      0.0      1      22
BA0.7082
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989

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PC	1.0									
LS	0.0	70.88	0.0							
UD0.	2379									
KK	2C	CNAME	2R							
KO	0	0	0.0	0	22					
HC	2									
KK	2R	CNAME	2C							
KO	0	0	0.0	0	22					
RM	1	0.119	0.2							
KK	1B									
KO	0	0	0.0	1	22					
BA0.	7193									
PB	4.65									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC	1.0									
LS	0.0	71.15	0.0							
UD0.	2797									
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
HC	2									
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
RN	1C									
ZZ										

```

ID Seng Creek
ID w Mining & wo Logging (Scenario 2), LIDAR Data
ID 100 yr Storm
*DIAGRAM
IT 15 1JAN94 0 100
IO 0
KK 5bB
KO 0 0 0.0 1 22
BA0.7209
PB 5.45
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 73.87 0.0
UDO.4104
KK 5aB
KO 0 0 0.0 1 22
BA0.6039
PB 5.45
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 72.51 0.0
UD 0.344
KK 5C CNAME 5R

```

KO	0	0	0.0	0	22					
HC	2									
KK	5R	CNAME	5C							
KO	0	0	0.0	0	22					
RM	1	0.124	0.2							
KK	4aB									
KO	0	0	0.0	1	22					
BA0.8767										
PB	5.45									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.52	0.0							
UD	0.358									
KK	4bB									
KO	0	0	0.0	1	22					
BA0.6014										
PB	5.45									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	71.15	0.0							
UD	0.383									
KK	4C	CNAME	4R							
KO	0	0	0.0	0	22					

```

HC      3
KK      4R  CNAME      4C
KO      0      0      0.0      0      22
RM      1      0.112    0.2
KK      3B
KO      0      0      0.0      1      22
BA1.1321
PB      5.45
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      70.75      0.0
UD0.3323
KK      3C  CNAME      3R
KO      0      0      0.0      0      22
HC      2
KK      3R  CNAME      3C
KO      0      0      0.0      0      22
RM      1      0.081    0.2
KK      2B
KO      0      0      0.0      1      22
BA0.7082
PB      5.45
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989

```

100yr.hcl

```

PC 1.0
LS 0.0 70.88 0.0
UD0.2379
KK 2C CNAME 2R
KO 0 0 0.0 0 22
HC 2
KK 2R CNAME 2C
KO 0 0 0.0 0 22
RM 1 0.119 0.2
KK 1B
KO 0 0 0.0 1 22
BA0.7193
PB 5.45
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 71.15 0.0
UD0.2797
KK 1C CNAME 1C
KO 0 0 0.0 0 22
HC 2
KK 1C CNAME 1C
KO 0 0 0.0 0 22
RN 1C
ZZ

```

```

ID Seng Creek
ID w Reclaimed Mining & wo Logging (Scenario 3), LIDAR Data
ID Storm Event
*DIAGRAM
IT 15 1JAN94 0 100
IO 0
* Gage XY Position 456107.00000 4205261.00000 1
PG Gage 3.9
IN 15 1JAN94 0
* Seng Rainfall Distribution
PC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.125
PC 0.15 0.175 0.2 0.225 0.25 0.275 0.3 0.325 0.35 0.375
PC 0.4 0.5875 0.775 0.9625 1.15 1.2125 1.275 1.3375 1.4 1.525
PC 1.65 1.775 1.9 2.275 2.65 3.025 3.4 3.525 3.65 3.775
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
KK 5bB
KO 0 0 0.0 1 22
BA0.7209
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 70.5 0.0
UD0.4104
KK 5aB
KO 0 0 0.0 1 22
BA0.6039
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 70.5 0.0
UD 0.344
KK 5C CNAME 5R
KO 0 0 0.0 0 22
HC 2
KK 5R CNAME 5C
KO 0 0 0.0 0 22
RM 1 0.124 0.2
KK 4aB
KO 0 0 0.0 1 22
BA0.8767
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 70.52 0.0
UD 0.358
KK 4bB
KO 0 0 0.0 1 22
BA0.6014
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 70.5 0.0
UD 0.383
KK 4C CNAME 4R
KO 0 0 0.0 0 22
HC 3
KK 4R CNAME 4C
KO 0 0 0.0 0 22
RM 1 0.112 0.2
KK 3B
KO 0 0 0.0 1 22
BA1.1321
PR Gage
PW 1.0
PT Gage
PW 0.723
LS 0.0 70.75 0.0
UD0.3323
KK 3C CNAME 3R
KO 0 0 0.0 0 22
HC 2
KK 3R CNAME 3C
KO 0 0 0.0 0 22
RM 1 0.081 0.2
KK 2B
KO 0 0 0.0 1 22

```



BA0.7082					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.723				
LS	0.0	70.88	0.0		
UD0.2379					
KK	2C	CNAME	2R		
KO	0	0	0.0	0	22
HC	2				
KK	2R	CNAME	2C		
KO	0	0	0.0	0	22
RM	1	0.119	0.2		
KK	1B				
KO	0	0	0.0	1	22
BA0.7193					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.723				
LS	0.0	71.15	0.0		
UD0.2797					
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
HC	2				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
RN	1C				
ZZ					

```

ID Seng Creek
ID w Reclaimed Mining & wo Logging (Scenario 3), LIDAR Data
ID 25 yr Storm
*DIAGRAM
IT 15 1JAN94 0 100
IO 0
KK 5bB
KO 0 0 0.0 1 22
BA0.7209
PB 4.65
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD0.4104
KK 5aB
KO 0 0 0.0 1 22
BA0.6039
PB 4.65
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD 0.344
KK 5C CNAME 5R

```

```

KO      0      0      0.0      0      22
HC      2
KK      5R      CNAME      5C
KO      0      0      0.0      0      22
RM      1      0.124      0.2
KK      4aB
KO      0      0      0.0      1      22
BA0.8767
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC 0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC 0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC 0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC 0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC 0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC 0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC 0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC 0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC 0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC 0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC 0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC 0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC 0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC 0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC 0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC 0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      70.52      0.0
UD      0.358
KK      4bB
KO      0      0      0.0      1      22
BA0.6014
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC 0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC 0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC 0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC 0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC 0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC 0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC 0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC 0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC 0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC 0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC 0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC 0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC 0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC 0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC 0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC 0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      70.5      0.0
UD      0.383
KK      4C      CNAME      4R
KO      0      0      0.0      0      22

```

```

HC      3
KK      4R  CNAME      4C
KO      0      0      0.0      0      22
RM      1      0.112    0.2
KK      3B
KO      0      0      0.0      1      22
BA1.1321
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      70.75      0.0
UD0.3323
KK      3C  CNAME      3R
KO      0      0      0.0      0      22
HC      2
KK      3R  CNAME      3C
KO      0      0      0.0      0      22
RM      1      0.081    0.2
KK      2B
KO      0      0      0.0      1      22
BA0.7082
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989

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PC	1.0									
LS	0.0	70.88	0.0							
UD0.	2379									
KK	2C	CNAME	2R							
KO	0	0	0.0	0	22					
HC	2									
KK	2R	CNAME	2C							
KO	0	0	0.0	0	22					
RM	1	0.119	0.2							
KK	1B									
KO	0	0	0.0	1	22					
BA0.	7193									
PB	4.65									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC	1.0									
LS	0.0	71.15	0.0							
UD0.	2797									
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
HC	2									
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
RN	1C									
ZZ										

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ID Seng Creek
ID w Reclaimed Mining & wo Logging (Scenario 3), LIDAR Data
ID 100 yr Storm
*DIAGRAM
IT 15 1JAN94 0 100
IO 0
KK 5bB
KO 0 0 0.0 1 22
BA0.7209
PB 5.45
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD0.4104
KK 5aB
KO 0 0 0.0 1 22
BA0.6039
PB 5.45
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD 0.344
KK 5C CNAME 5R

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KO      0      0      0.0      0      22
HC      2
KK      5R      CNAME      5C
KO      0      0      0.0      0      22
RM      1      0.124      0.2
KK      4aB
KO      0      0      0.0      1      22
BA0.8767
PB      5.45
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC 0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC 0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC 0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC 0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC 0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC 0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC 0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC 0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC 0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC 0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC 0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC 0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC 0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC 0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC 0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC 0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      70.52      0.0
UD      0.358
KK      4bB
KO      0      0      0.0      1      22
BA0.6014
PB      5.45
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC 0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC 0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC 0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC 0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC 0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC 0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC 0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC 0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC 0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC 0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC 0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC 0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC 0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC 0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC 0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC 0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      70.5      0.0
UD      0.383
KK      4C      CNAME      4R
KO      0      0      0.0      0      22

```

HC	3									
KK	4R	CNAME	4C							
KO	0	0	0.0	0	22					
RM	1	0.112	0.2							
KK	3B									
KO	0	0	0.0	1	22					
BA1	1321									
PB	5.45									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.75	0.0							
UD0	3323									
KK	3C	CNAME	3R							
KO	0	0	0.0	0	22					
HC	2									
KK	3R	CNAME	3C							
KO	0	0	0.0	0	22					
RM	1	0.081	0.2							
KK	2B									
KO	0	0	0.0	1	22					
BA0	7082									
PB	5.45									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	



100yr.hcl

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PC 1.0
LS 0.0 70.88 0.0
UD0.2379
KK 2C CNAME 2R
KO 0 0 0.0 0 22
HC 2
KK 2R CNAME 2C
KO 0 0 0.0 0 22
RM 1 0.119 0.2
KK 1B
KO 0 0 0.0 1 22
BA0.7193
PB 5.45
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 71.15 0.0
UD0.2797
KK 1C CNAME 1C
KO 0 0 0.0 0 22
HC 2
KK 1C CNAME 1C
KO 0 0 0.0 0 22
RN 1C
ZZ

```

```

ID Seng Creek
ID wo Mining & wo Logging (Scenario 4), USGS DEM Data
ID Storm Event
*DIAGRAM
IT 15 1JAN94 0 100
IO 1
* Gage XY Position 455909.00000 4205486.00000 1
PG Gage 3.9
IN 15 1JAN94 0
* Seng Rainfall Distribution
PC 0.0 0.0 0.0 0.0 0.0 0.025 0.05 0.075 0.1 0.125
PC 0.15 0.175 0.2 0.225 0.25 0.275 0.3 0.325 0.35 0.375
PC 0.4 0.5875 0.775 0.9625 1.15 1.2125 1.275 1.3375 1.4 1.525
PC 1.65 1.775 1.9 2.275 2.65 3.025 3.4 3.525 3.65 3.775
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
KK 5bB
KO 0 0 0.0 1 22
BA0.9747
PR Gage
PW 1.0
PT Gage
PW 0.877
LS 0.0 70.5 0.0
UD0.4358
KK 5aB
KO 0 0 0.0 1 22
BA0.5424
PR Gage
PW 1.0
PT Gage
PW 0.877
LS 0.0 70.5 0.0
UD0.2908
KK 5C CNAME 5R
KO 0 0 0.0 0 22
HC 2
KK 5R CNAME 5C
KO 0 0 0.0 0 22
RM 1 0.126 0.2
KK 4aB
KO 0 0 0.0 1 22
BA0.8649
PR Gage
PW 1.0
PT Gage
PW 0.877
LS 0.0 70.5 0.0
UD0.4078
KK 4bB
KO 0 0 0.0 1 22
BA0.6091
PR Gage
PW 1.0
PT Gage
PW 0.877
LS 0.0 70.5 0.0
UD0.3512
KK 4C CNAME 4R
KO 0 0 0.0 0 22
HC 3
KK 4R CNAME 4C
KO 0 0 0.0 0 22
RM 1 0.091 0.2
KK 3B
KO 0 0 0.0 1 22
BA 0.99
PR Gage
PW 1.0
PT Gage
PW 0.877
LS 0.0 70.71 0.0
UD0.3368
KK 3C CNAME 3R
KO 0 0 0.0 0 22
HC 2
KK 3R CNAME 3C
KO 0 0 0.0 0 22
RM 1 0.092 0.2
KK 2B
KO 0 0 0.0 1 22

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BA0.8395
PR Gage
PW 1.0
PT Gage
PW 0.877
LS 0.0 71.04 0.0
UD0.3008
KK 2C CNAME 2R
KO 0 0 0.0 0 22
HC 2
KK 2R CNAME 2C
KO 0 0 0.0 0 22
RM 1 0.107 0.2
KK 1B
KO 0 0 0.0 1 22
BA0.6967
PR Gage
PW 1.0
PT Gage
PW 0.877
LS 0.0 71.35 0.0
UD0.2942
KK 1C CNAME 1C
KO 0 0 0.0 0 22
HC 2
KK 1C CNAME 1C
KO 0 0 0.0 0 22
RN 1C
ZZ
    
```

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ID Seng Creek
ID wo Mining & wo Logging (Scenario 4), USGS DEM Data
ID 25 yr Storm
*DIAGRAM
IT 15 1JAN94 0 100
IO 1
KK 5bB
KO 0 0 0.0 1 22
BA0.9747
PB 4.65
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD0.4358
KK 5aB
KO 0 0 0.0 1 22
BA0.5424
PB 4.65
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD0.2908
KK 5C CNAME 5R
KO 0 0 0.0 0 22
HC 2
KK 5R CNAME 5C
KO 0 0 0.0 0 22
RM 1 0.126 0.2
KK 4aB
KO 0 0 0.0 1 22
BA0.8649
PB 4.65
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094

```

25yr.hcl

PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
 PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
 PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
 PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
 PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
 PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
 PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
 PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
 PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
 PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
 PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
 PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
 PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
 PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
 PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
 PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
 PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
 PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
 PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
 PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
 PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989

PC 1.0  
 LS 0.0 70.5 0.0  
 UD0.4078  
 KK 4bB  
 KO 0 0 0.0 1 22  
 BA0.6091  
 PB 4.65  
 IN 6 1JAN94 0

\* typeII-24hour  
 PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
 PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
 PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
 PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
 PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
 PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
 PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
 PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
 PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
 PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
 PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
 PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
 PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
 PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
 PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
 PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
 PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
 PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
 PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
 PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
 PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
 PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989

PC 1.0  
 LS 0.0 70.5 0.0  
 UD0.3512  
 KK 4C CNAME 4R  
 KO 0 0 0.0 0 22  
 HC 3  
 KK 4R CNAME 4C  
 KO 0 0 0.0 0 22  
 RM 1 0.091 0.2  
 KK 3B  
 KO 0 0 0.0 1 22  
 BA 0.99  
 PB 4.65  
 IN 6 1JAN94 0

\* typeII-24hour  
 PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
 PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
 PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
 PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
 PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
 PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
 PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
 PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
 PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
 PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
 PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
 PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162

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PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.71	0.0							
UD0.3368										
KK	3C	CNAME	3R							
KO	0	0	0.0	0	22					
HC	2									
KK	3R	CNAME	3C							
KO	0	0	0.0	0	22					
RM	1	0.092	0.2							
KK	2B									
KO	0	0	0.0	1	22					
BA0.8395										
PB	4.65									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	71.04	0.0							
UD0.3008										
KK	2C	CNAME	2R							
KO	0	0	0.0	0	22					
HC	2									
KK	2R	CNAME	2C							
KO	0	0	0.0	0	22					
RM	1	0.107	0.2							
KK	1B									
KO	0	0	0.0	1	22					
BA0.6967										
PB	4.65									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635

							25yr.hcl		
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC	1.0								
LS	0.0	71.35	0.0						
UD0.2942									
KK	1C	CNAME	1C						
KO	0	0	0.0	0	22				
HC	2								
KK	1C	CNAME	1C						
KO	0	0	0.0	0	22				
RN	1C								
ZZ									

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ID Seng Creek
ID wo Mining & wo Logging (Scenario 4), USGS DEM Data
ID 100 yr Storm
*DIAGRAM
IT 15 1JAN94 0 100
IO 1
KK 5bB
KO 0 0 0.0 1 22
BA0.9747
PB 5.45
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD0.4358
KK 5aB
KO 0 0 0.0 1 22
BA0.5424
PB 5.45
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD0.2908
KK 5C CNAME 5R
KO 0 0 0.0 0 22
HC 2
KK 5R CNAME 5C
KO 0 0 0.0 0 22
RM 1 0.126 0.2
KK 4aB
KO 0 0 0.0 1 22
BA0.8649
PB 5.45
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094

```



100yr.hcl1

PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
 PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
 PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
 PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
 PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
 PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
 PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
 PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
 PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
 PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
 PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
 PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
 PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
 PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
 PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
 PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
 PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
 PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
 PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
 PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
 PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989

PC 1.0  
 LS 0.0 70.5 0.0  
 UD0.4078  
 KK 4bB  
 KO 0 0 0.0 1 22  
 BA0.6091  
 PB 5.45  
 IN 6 1JAN94 0

\* typeII-24hour

PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
 PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
 PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
 PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
 PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
 PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
 PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
 PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
 PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
 PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
 PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
 PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
 PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
 PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
 PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
 PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
 PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
 PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
 PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
 PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
 PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
 PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989

PC 1.0  
 LS 0.0 70.5 0.0  
 UD0.3512  
 KK 4C CNAME 4R  
 KO 0 0 0.0 0 22  
 HC 3  
 KK 4R CNAME 4C  
 KO 0 0 0.0 0 22  
 RM 1 0.091 0.2  
 KK 3B  
 KO 0 0 0.0 1 22  
 BA 0.99  
 PB 5.45  
 IN 6 1JAN94 0

\* typeII-24hour

PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
 PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
 PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
 PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
 PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
 PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
 PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
 PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
 PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
 PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
 PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
 PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162

100yr.hcl1

PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.71	0.0							
UD0.3368										
KK	3C	CNAME	3R							
KO	0	0	0.0	0	22					
HC	2									
KK	3R	CNAME	3C							
KO	0	0	0.0	0	22					
RM	1	0.092	0.2							
KK	2B									
KO	0	0	0.0	1	22					
BA0.8395										
PB	5.45									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	71.04	0.0							
UD0.3008										
KK	2C	CNAME	2R							
KO	0	0	0.0	0	22					
HC	2									
KK	2R	CNAME	2C							
KO	0	0	0.0	0	22					
RM	1	0.107	0.2							
KK	1B									
KO	0	0	0.0	1	22					
BA0.6967										
PB	5.45									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635

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                                100yr.hcl
PC0.9648    0.966  0.9672  0.9685  0.9697  0.9709  0.9722  0.9734  0.9746  0.9758
PC 0.977    0.9782  0.9794  0.9806  0.9818  0.9829  0.9841  0.9853  0.9864  0.9876
PC0.9888    0.9899  0.991  0.9922  0.9933  0.9944  0.9956  0.9967  0.9978  0.9989
PC 1.0
LS 0.0      71.35   0.0
UD0.2942
KK 1C      CNAME    1C
KO 0       0        0.0      0        22
HC 2
KK 1C      CNAME    1C
KO 0       0        0.0      0        22
RN 1C
ZZ

```

ID Seng Creek  
ID wo Mining & w Logging (Scenario 5), USGS DEM Data  
ID Storm Event

\*DIAGRAM

IT 15 1JAN94 0 100  
IO 1

\* Gage XY Position 455909.00000 4205486.00000 1

PG Gage 3.9  
IN 15 1JAN94 0

\* Seng Rainfall Distribution

PC	0.0	0.0	0.0	0.0	0.025	0.05	0.075	0.1	0.125
PC	0.15	0.175	0.2	0.225	0.25	0.275	0.3	0.325	0.35
PC	0.4	0.5875	0.775	0.9625	1.15	1.2125	1.275	1.3375	1.4
PC	1.65	1.775	1.9	2.275	2.65	3.025	3.4	3.525	3.65
PC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
PC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
PC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
PC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
PC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
PC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
PC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
PC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
PC	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9

KK 5bB  
KO 0 0 0.0 1 22

BA0.9747

PR Gage

PW 1.0

PT Gage

PW 0.877

LS 0.0 70.86 0.0

UD0.4358

KK 5aB

KO 0 0 0.0 1 22

BA0.5424

PR Gage

PW 1.0

PT Gage

PW 0.877

LS 0.0 72.53 0.0

UD0.2908

KK 5C CNAME 5R

KO 0 0 0.0 0 22

HC 2

KK 5R CNAME 5C

KO 0 0 0.0 0 22

RM 0 0.122 0.2

KK 4aB

KO 0 0 0.0 1 22

BA0.8649

PR Gage

PW 1.0

PT Gage

PW 0.877

LS 0.0 73.51 0.0

UD0.4078

KK 4bB

KO 0 0 0.0 1 22

BA0.6091

PR Gage

PW 1.0

PT Gage

PW 0.877

LS 0.0 71.37 0.0

UD0.3512

KK 4C CNAME 4R

KO 0 0 0.0 0 22

HC 3

KK 4R CNAME 4C

KO 0 0 0.0 0 22

RM 0 0.088 0.2

KK 3B

KO 0 0 0.0 1 22

BA 0.99

PR Gage

PW 1.0

PT Gage

Event.hcl

PW	0.877				
LS	0.0	72.67	0.0		
UD0.	3368				
KK	3C	CNAME	3R		
KO	0	0	0.0	0	22
HC	2				
KK	3R	CNAME	3C		
KO	0	0	0.0	0	22
RM	0	0.089	0.2		
KK	2B				
KO	0	0	0.0	1	22
BA0.	8395				
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.877				
LS	0.0	71.81	0.0		
UD0.	3008				
KK	2C	CNAME	2R		
KO	0	0	0.0	0	22
HC	2				
KK	2R	CNAME	2C		
KO	0	0	0.0	0	22
RM	0	0.103	0.2		
KK	1B				
KO	0	0	0.0	1	22
BA0.	6967				
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.877				
LS	0.0	72.29	0.0		
UD0.	2942				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
HC	2				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
RN	1C				
ZZ					

```

ID Seng Creek
ID wo Mining & w Logging (Scenario 5), USGS DEM Data
ID 25 yr Storm
*DIAGRAM
IT 15 1JAN94 0 100
IO 1
KK 5bB
KO 0 0 0.0 1 22
BAO.9747
PB 4.65
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.86 0.0
UD0.4358
KK 5aB
KO 0 0 0.0 1 22
BAO.5424
PB 4.65
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 72.53 0.0
UD0.2908
KK 5C CNAME 5R
KO 0 0 0.0 0 22

```

```

HC      2
KK      5R  CNAME      5C
KO      0      0      0.0      0      22
RM      0      0.122    0.2
KK      4aB
KO      0      0      0.0      1      22
BA0.8649
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      73.51      0.0
UDO.4078
KK      4bB
KO      0      0      0.0      1      22
BA0.6091
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      71.37      0.0
UDO.3512
KK      4C  CNAME      4R
KO      0      0      0.0      0      22
HC      3
KK      4R  CNAME      4C

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```

KO      0      0      0.0      0      22
RM      0      0.088      0.2
KK      3B
KO      0      0      0.0      1      22
BA      0.99
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      72.67      0.0
UD0.3368
KK      3C      CNAME      3R
KO      0      0      0.0      0      22
HC      2
KK      3R      CNAME      3C
KO      0      0      0.0      0      22
RM      0      0.089      0.2
KK      2B
KO      0      0      0.0      1      22
BA0.8395
PB      4.65
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      71.81      0.0
UD0.3008

```



KK	2C	CNAME	2R							
KO	0	0	0.0	0	22					
HC	2									
KK	2R	CNAME	2C							
KO	0	0	0.0	0	22					
RM	0	0.103	0.2							
KK	1B									
KO	0	0	0.0	1	22					
BA0.6967										
PB	4.65									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	72.29	0.0							
UD0.2942										
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
HC	2									
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
RN	1C									
ZZ										

```

ID Seng Creek
ID wo Mining & w Logging (Scenario 5), USGS DEM Data
ID 100 yr Storm
*DIAGRAM
IT 15 1JAN94 0 100
IO 1
KK 5bB
KO 0 0 0.0 1 22
BAO.9747
PB 5.45
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.86 0.0
UDO.4358
KK 5aB
KO 0 0 0.0 1 22
BAO.5424
PB 5.45
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 72.53 0.0
UDO.2908
KK 5C CNAME 5R
KO 0 0 0.0 0 22

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HC      2
KK      5R  CNAME      5C
KO      0      0      0.0      0      22
RM      0      0.122    0.2
KK      4aB
KO      0      0      0.0      1      22
BA0.8649
PB      5.45
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      73.51      0.0
UD0.4078
KK      4bB
KO      0      0      0.0      1      22
BA0.6091
PB      5.45
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      71.37      0.0
UD0.3512
KK      4C  CNAME      4R
KO      0      0      0.0      0      22
HC      3
KK      4R  CNAME      4C
```

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KO      0      0      0.0      0      22
RM      0      0.088      0.2
KK      3B
KO      0      0      0.0      1      22
BA      0.99
PB      5.45
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC 0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC 0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC 0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC 0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC 0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC 0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC 0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC 0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC 0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC 0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC 0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC 0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC 0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC 0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC 0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC 0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      72.67      0.0
UD0.3368
KK      3C      CNAME      3R
KO      0      0      0.0      0      22
HC      2
KK      3R      CNAME      3C
KO      0      0      0.0      0      22
RM      0      0.089      0.2
KK      2B
KO      0      0      0.0      1      22
BA0.8395
PB      5.45
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC 0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC 0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC 0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC 0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC 0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC 0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC 0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC 0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC 0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC 0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC 0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC 0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC 0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC 0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC 0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC 0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      71.81      0.0
UD0.3008

```

KK	2C	CNAME	2R							
KO	0	0	0.0	0	22					
HC	2									
KK	2R	CNAME	2C							
KO	0	0	0.0	0	22					
RM	0	0.103	0.2							
KK	1B									
KO	0	0	0.0	1	22					
BA0.6967										
PB	5.45									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	72.29	0.0							
UD0.2942										
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
HC	2									
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
RN	1C									
ZZ										

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
*****

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*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
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X X XXXXXXX XXXXX X
X X X X X XX
X X X X X
XXXXXXXX XXXX X XXXXX X
X X X X X
X X X X X
X X XXXXXXX XXXXX XXX

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID Seng Creek
2 ID w Mining & w Logging (Scenario 1), LIDAR Data
3 ID Storm Event
*DIAGRAM
4 IT 15 1JAN94 0 100
5 IO 0
* Gage XY Position 456107.00000 4205261.00000 1
6 PG Gage 3.9
7 IN 15 1JAN94 0
*Seng Rainfall Distribution
8 PC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.125
9 PC 0.15 0.175 0.2 0.225 0.25 0.275 0.3 0.325 0.35 0.375
10 PC 0.4 0.5875 0.775 0.9625 1.15 1.2125 1.275 1.3375 1.4 1.525
11 PC 1.65 1.775 1.9 2.275 2.65 3.025 3.4 3.525 3.65 3.775
12 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
13 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
14 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
15 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
16 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
17 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
18 KK 5bB
19 KO 0 0 0 1 22
20 BA 0.7209
21 PR Gage
22 PW 1.0
23 PT Gage
24 PW 0.723
25 LS 0.0 74.34 0.0
26 UD 0.4104
27 KK 5aB
28 KO 0 0 0 1 22
29 BA 0.6039
30 PR Gage
31 PW 1.0
32 PT Gage
33 PW 0.723
34 LS 0.0 74.3 0.0
35 UD 0.344
36 KK 5C CNAME 5R
37 KO 0 0 0 0 22
38 HC 2
39 KK 5R CNAME 5C
40 KO 0 0 0 0 22
41 RM 1 0.124 0.2
42 KK 4aB
43 KO 0 0 0 1 22
44 BA 0.8767
45 PR Gage
46 PW 1.0
47 PT Gage

```

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
48 PW 0.723

```

LINE	TYPE	VALUE	NAME	VALUE	NAME	VALUE	NAME	VALUE
49	LS	0.0	73.51	0.0				
50	UD	0.358						
51	KK	4bB						
52	KO	0	0	0.0	1	22		
53	BA	0.6014						
54	PR	Gage						
55	PW	1.0						
56	PT	Gage						
57	PW	0.723						
58	LS	0.0	71.99	0.0				
59	UD	0.383						
60	KK	4C	CNAME	4R				
61	KO	0	0	0.0	0	22		
62	HC	3						
63	KK	4R	CNAME	4C				
64	KO	0	0	0.0	0	22		
65	RM	1	0.112	0.2				
66	KK	3B						
67	KO	0	0	0.0	1	22		
68	BA	1.1321						
69	PR	Gage						
70	PW	1.0						
71	PT	Gage						
72	PW	0.723						
73	LS	0.0	72.46	0.0				
74	UD	0.3323						
75	KK	3C	CNAME	3R				
76	KO	0	0	0.0	0	22		
77	HC	2						
78	KK	3R	CNAME	3C				
79	KO	0	0	0.0	0	22		
80	RM	1	0.081	0.2				
81	KK	2B						
82	KO	0	0	0.0	1	22		
83	BA	0.7082						
84	PR	Gage						
85	PW	1.0						
86	PT	Gage						
87	PW	0.723						
88	LS	0.0	71.86	0.0				
89	UD	0.2379						

HEC-1 INPUT

PAGE 3

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

90	KK	2C	CNAME	2R				
91	KO	0	0	0.0	0	22		
92	HC	2						
93	KK	2R	CNAME	2C				
94	KO	0	0	0.0	0	22		
95	RM	1	0.119	0.2				
96	KK	1B						
97	KO	0	0	0.0	1	22		
98	BA	0.7193						
99	PR	Gage						
100	PW	1.0						
101	PT	Gage						
102	PW	0.723						
103	LS	0.0	72.39	0.0				
104	UD	0.2797						
105	KK	1C	CNAME	1C				
106	KO	0	0	0.0	0	22		
107	HC	2						
108	KK	1C	CNAME	1C				
109	KO	0	0	0.0	0	22		
110	RN	1C						
111	ZZ							

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW  
 NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

18 5bB  
 .  
 27 . 5aB  
 .  
 .  
 36 5C.....  
 V  
 V  
 39 5R  
 .  
 .

```

42      .          4aB
      .
      .
51      .          .          4bB
      .
      .
60      4C.....
      V
      V
63      4R
      .
      .
66      .          3B
      .
      .
75      3C.....
      V
      V
78      3R
      .
      .
81      .          2B
      .
      .
90      2C.....
      V
      V
93      2R
      .
      .
96      .          1B
      .
      .
105     1C.....
      V
      V
108     1C

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE TIME *
*
*****

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```

*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
*
*****

```

Seng Creek  
w Mining & w Logging (Scenario 1), LIDAR Data  
Storm Event

```

5 IO      OUTPUT CONTROL VARIABLES
          IPRNT      0 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE

7 IN      TIME DATA FOR INPUT TIME SERIES
          JXMIN      15 TIME INTERVAL IN MINUTES
          JXDATE     1JAN94 STARTING DATE
          JXTIME     0 STARTING TIME

IT        HYDROGRAPH TIME DATA
          NMIN       15 MINUTES IN COMPUTATION INTERVAL
          IDATE      1JAN94 STARTING DATE
          ITIME      0000 STARTING TIME
          NQ         100 NUMBER OF HYDROGRAPH ORDINATES
          NDDATE     2JAN94 ENDING DATE
          NDTIME     0045 ENDING TIME
          ICENT      19 CENTURY MARK

          COMPUTATION INTERVAL 0.25 HOURS
          TOTAL TIME BASE 24.75 HOURS

```

```

ENGLISH UNITS
DRAINAGE AREA      SQUARE MILES
PRECIPITATION DEPTH INCHES
LENGTH, ELEVATION FEET
FLOW               CUBIC FEET PER SECOND
STORAGE VOLUME    ACRE-FEET
SURFACE AREA      ACRES
TEMPERATURE        DEGREES FAHRENHEIT

```

\*\*\* \*\*

```

*****
*
18 KK    *          5bB *
*
*****

```



19 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

20 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

23 PT TOTAL STORM STATIONS Gage  
 24 PW WEIGHTS 0.72

21 PR RECORDING STATIONS Gage  
 22 PW WEIGHTS 1.00

25 LS SCS LOSS RATE  
 STRTL 0.69 INITIAL ABSTRACTION  
 CRVNBR 74.34 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

26 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.41 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	3.90	0.00	0.72

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00	0.00	0.00	0.00	0.00	0.10	0.02	0.03
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.03
0.02	0.03	0.02	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03
0.19	0.19	0.19	0.19	0.06	0.06	0.06	0.06	0.06	0.12	0.12
0.12	0.12	0.38	0.38	0.38	0.38	0.38	0.12	0.12	0.12	0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES

273. 649. 509. 228. 109. 50. 24. 11. 6. 2.

\*\*\*\*\*

HYDROGRAPH AT STATION 5bb

\*\*\*\*\*

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.00	0.00	0.00	0.	*
1	JAN	0015	2	0.00	0.00	0.00	0.	*		1	JAN	1245	52	0.00	0.00	0.00	0.	*
1	JAN	0030	3	0.00	0.00	0.00	0.	*		1	JAN	1300	53	0.00	0.00	0.00	0.	*
1	JAN	0045	4	0.00	0.00	0.00	0.	*		1	JAN	1315	54	0.00	0.00	0.00	0.	*
1	JAN	0100	5	0.00	0.00	0.00	0.	*		1	JAN	1330	55	0.00	0.00	0.00	0.	*
1	JAN	0115	6	0.00	0.00	0.00	0.	*		1	JAN	1345	56	0.00	0.00	0.00	0.	*
1	JAN	0130	7	0.00	0.00	0.00	0.	*		1	JAN	1400	57	0.00	0.00	0.00	0.	*
1	JAN	0145	8	0.00	0.00	0.00	0.	*		1	JAN	1415	58	0.00	0.00	0.00	0.	*
1	JAN	0200	9	0.10	0.10	0.00	0.	*		1	JAN	1430	59	0.00	0.00	0.00	0.	*
1	JAN	0215	10	0.02	0.02	0.00	0.	*		1	JAN	1445	60	0.00	0.00	0.00	0.	*
1	JAN	0230	11	0.03	0.03	0.00	0.	*		1	JAN	1500	61	0.00	0.00	0.00	0.	*
1	JAN	0245	12	0.02	0.02	0.00	0.	*		1	JAN	1515	62	0.00	0.00	0.00	0.	*
1	JAN	0300	13	0.03	0.03	0.00	0.	*		1	JAN	1530	63	0.00	0.00	0.00	0.	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.00	0.00	0.00	0.	*
1	JAN	0330	15	0.03	0.03	0.00	0.	*		1	JAN	1600	65	0.00	0.00	0.00	0.	*
1	JAN	0345	16	0.03	0.03	0.00	0.	*		1	JAN	1615	66	0.00	0.00	0.00	0.	*
1	JAN	0400	17	0.03	0.03	0.00	0.	*		1	JAN	1630	67	0.00	0.00	0.00	0.	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.00	0.00	0.00	0.	*
1	JAN	0430	19	0.03	0.03	0.00	0.	*		1	JAN	1700	69	0.00	0.00	0.00	0.	*
1	JAN	0445	20	0.03	0.03	0.00	0.	*		1	JAN	1715	70	0.00	0.00	0.00	0.	*
1	JAN	0500	21	0.03	0.03	0.00	0.	*		1	JAN	1730	71	0.00	0.00	0.00	0.	*
1	JAN	0515	22	0.19	0.19	0.00	0.	*		1	JAN	1745	72	0.00	0.00	0.00	0.	*
1	JAN	0530	23	0.19	0.19	0.00	1.	*		1	JAN	1800	73	0.00	0.00	0.00	0.	*
1	JAN	0545	24	0.19	0.17	0.02	6.	*		1	JAN	1815	74	0.00	0.00	0.00	0.	*
1	JAN	0600	25	0.19	0.15	0.03	22.	*		1	JAN	1830	75	0.00	0.00	0.00	0.	*
1	JAN	0615	26	0.06	0.05	0.01	36.	*		1	JAN	1845	76	0.00	0.00	0.00	0.	*
1	JAN	0630	27	0.06	0.05	0.02	36.	*		1	JAN	1900	77	0.00	0.00	0.00	0.	*
1	JAN	0645	28	0.06	0.05	0.02	32.	*		1	JAN	1915	78	0.00	0.00	0.00	0.	*
1	JAN	0700	29	0.06	0.04	0.02	33.	*		1	JAN	1930	79	0.00	0.00	0.00	0.	*
1	JAN	0715	30	0.12	0.08	0.04	40.	*		1	JAN	1945	80	0.00	0.00	0.00	0.	*
1	JAN	0730	31	0.12	0.08	0.05	57.	*		1	JAN	2000	81	0.00	0.00	0.00	0.	*
1	JAN	0745	32	0.12	0.07	0.05	73.	*		1	JAN	2015	82	0.00	0.00	0.00	0.	*
1	JAN	0800	33	0.12	0.07	0.05	84.	*		1	JAN	2030	83	0.00	0.00	0.00	0.	*
1	JAN	0815	34	0.38	0.19	0.18	128.	*		1	JAN	2045	84	0.00	0.00	0.00	0.	*
1	JAN	0830	35	0.38	0.16	0.21	225.	*		1	JAN	2100	85	0.00	0.00	0.00	0.	*
1	JAN	0845	36	0.38	0.14	0.23	316.	*		1	JAN	2115	86	0.00	0.00	0.00	0.	*
1	JAN	0900	37	0.38	0.13	0.25	379.	*		1	JAN	2130	87	0.00	0.00	0.00	0.	*
1	JAN	0915	38	0.12	0.04	0.09	377.	*		1	JAN	2145	88	0.00	0.00	0.00	0.	*

Date	Time	Rainfall (in)	Loss (in)	Excess (in)	Flow (cfs)	Event.out	Date	Time	Rainfall (in)	Loss (in)	Excess (in)	Flow (cfs)	
1 JAN	0930	39	0.12	0.04	0.09	295.	*	1 JAN	2200	89	0.00	0.00	0.00
1 JAN	0945	40	0.12	0.04	0.09	224.	*	1 JAN	2215	90	0.00	0.00	0.00
1 JAN	1000	41	0.12	0.03	0.09	194.	*	1 JAN	2230	91	0.00	0.00	0.00
1 JAN	1015	42	0.00	0.00	0.00	156.	*	1 JAN	2245	92	0.00	0.00	0.00
1 JAN	1030	43	0.00	0.00	0.00	91.	*	1 JAN	2300	93	0.00	0.00	0.00
1 JAN	1045	44	0.00	0.00	0.00	41.	*	1 JAN	2315	94	0.00	0.00	0.00
1 JAN	1100	45	0.00	0.00	0.00	19.	*	1 JAN	2330	95	0.00	0.00	0.00
1 JAN	1115	46	0.00	0.00	0.00	9.	*	1 JAN	2345	96	0.00	0.00	0.00
1 JAN	1130	47	0.00	0.00	0.00	4.	*	2 JAN	0000	97	0.00	0.00	0.00
1 JAN	1145	48	0.00	0.00	0.00	2.	*	2 JAN	0015	98	0.00	0.00	0.00
1 JAN	1200	49	0.00	0.00	0.00	1.	*	2 JAN	0030	99	0.00	0.00	0.00
1 JAN	1215	50	0.00	0.00	0.00	0.	*	2 JAN	0045	100	0.00	0.00	0.00

\*\*\*\*\*

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.35, TOTAL EXCESS = 1.55

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
379.	9.00	120.	30.	29.	29.
		(INCHES)	1.544	1.547	1.547
		(AC-FT)	59.	59.	59.

CUMULATIVE AREA = 0.72 SQ MI

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 \* \*  
 27 KK \* 5aB \*  
 \* \*  
 \*\*\*\*\*

28 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

29 BA SUBBASIN CHARACTERISTICS

TAREA,	0.60	SUBBASIN AREA
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PRECIPITATION DATA

32 PT TOTAL STORM STATIONS Gage

33 PW WEIGHTS 0.72

30 PR RECORDING STATIONS Gage

31 PW WEIGHTS 1.00

34 LS SCS LOSS RATE

STRTL	0.69	INITIAL ABSTRACTION
CRVNBR	74.30	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

35 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.34	LAG
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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	3.90	0.00	0.72

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.03
0.02	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03
0.19	0.19	0.19	0.19	0.06	0.06	0.06	0.06	0.06	0.12	0.12
0.12	0.12	0.38	0.38	0.38	0.38	0.12	0.12	0.12	0.12	0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH

9 END-OF-PERIOD ORDINATES

334.	624.	352.	145.	61.	25.	11.	5.	1.
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HYDROGRAPH AT STATION 5aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
----	-----	------	-----	------	------	--------	--------	---	----	-----	------	-----	------	------	--------	--------

Event.out

1 JAN 0000	1	0.00	0.00	0.00	0.	*	1 JAN 1230	51	0.00	0.00	0.00	0.
1 JAN 0015	2	0.00	0.00	0.00	0.	*	1 JAN 1245	52	0.00	0.00	0.00	0.
1 JAN 0030	3	0.00	0.00	0.00	0.	*	1 JAN 1300	53	0.00	0.00	0.00	0.
1 JAN 0045	4	0.00	0.00	0.00	0.	*	1 JAN 1315	54	0.00	0.00	0.00	0.
1 JAN 0100	5	0.00	0.00	0.00	0.	*	1 JAN 1330	55	0.00	0.00	0.00	0.
1 JAN 0115	6	0.00	0.00	0.00	0.	*	1 JAN 1345	56	0.00	0.00	0.00	0.
1 JAN 0130	7	0.00	0.00	0.00	0.	*	1 JAN 1400	57	0.00	0.00	0.00	0.
1 JAN 0145	8	0.00	0.00	0.00	0.	*	1 JAN 1415	58	0.00	0.00	0.00	0.
1 JAN 0200	9	0.10	0.10	0.00	0.	*	1 JAN 1430	59	0.00	0.00	0.00	0.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.00	0.00	0.00	0.
1 JAN 0230	11	0.03	0.03	0.00	0.	*	1 JAN 1500	61	0.00	0.00	0.00	0.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.00	0.00	0.00	0.
1 JAN 0300	13	0.03	0.03	0.00	0.	*	1 JAN 1530	63	0.00	0.00	0.00	0.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.00	0.00	0.00	0.
1 JAN 0330	15	0.03	0.03	0.00	0.	*	1 JAN 1600	65	0.00	0.00	0.00	0.
1 JAN 0345	16	0.03	0.03	0.00	0.	*	1 JAN 1615	66	0.00	0.00	0.00	0.
1 JAN 0400	17	0.03	0.03	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.
1 JAN 0430	19	0.03	0.03	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.
1 JAN 0445	20	0.03	0.03	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.
1 JAN 0500	21	0.03	0.03	0.00	0.	*	1 JAN 1730	71	0.00	0.00	0.00	0.
1 JAN 0515	22	0.19	0.19	0.00	0.	*	1 JAN 1745	72	0.00	0.00	0.00	0.
1 JAN 0530	23	0.19	0.19	0.00	1.	*	1 JAN 1800	73	0.00	0.00	0.00	0.
1 JAN 0545	24	0.19	0.17	0.02	7.	*	1 JAN 1815	74	0.00	0.00	0.00	0.
1 JAN 0600	25	0.19	0.15	0.03	23.	*	1 JAN 1830	75	0.00	0.00	0.00	0.
1 JAN 0615	26	0.06	0.05	0.01	33.	*	1 JAN 1845	76	0.00	0.00	0.00	0.
1 JAN 0630	27	0.06	0.05	0.02	29.	*	1 JAN 1900	77	0.00	0.00	0.00	0.
1 JAN 0645	28	0.06	0.05	0.02	27.	*	1 JAN 1915	78	0.00	0.00	0.00	0.
1 JAN 0700	29	0.06	0.04	0.02	27.	*	1 JAN 1930	79	0.00	0.00	0.00	0.
1 JAN 0715	30	0.12	0.08	0.04	36.	*	1 JAN 1945	80	0.00	0.00	0.00	0.
1 JAN 0730	31	0.12	0.08	0.05	52.	*	1 JAN 2000	81	0.00	0.00	0.00	0.
1 JAN 0745	32	0.12	0.07	0.05	65.	*	1 JAN 2015	82	0.00	0.00	0.00	0.
1 JAN 0800	33	0.12	0.07	0.05	74.	*	1 JAN 2030	83	0.00	0.00	0.00	0.
1 JAN 0815	34	0.38	0.19	0.18	123.	*	1 JAN 2045	84	0.00	0.00	0.00	0.
1 JAN 0830	35	0.38	0.16	0.21	216.	*	1 JAN 2100	85	0.00	0.00	0.00	0.
1 JAN 0845	36	0.38	0.14	0.23	287.	*	1 JAN 2115	86	0.00	0.00	0.00	0.
1 JAN 0900	37	0.38	0.13	0.25	334.	*	1 JAN 2130	87	0.00	0.00	0.00	0.
1 JAN 0915	38	0.12	0.04	0.09	310.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.12	0.04	0.09	223.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.12	0.04	0.09	173.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.12	0.03	0.09	154.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	116.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	57.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	23.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	9.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	4.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	2.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	1.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.36, TOTAL EXCESS = 1.54

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW		24.75-HR
(CFS)	(HR)	(CFS)		24-HR	72-HR	
+	334.	9.00	100.	25.	24.	24.
+			(INCHES)	1.543	1.544	1.544
			(AC-FT)	50.	50.	50.

CUMULATIVE AREA = 0.60 SQ MI

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*****
*
*
36 KK      5C *      CNAME      5R
*
*
*****

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37 KO      OUTPUT CONTROL VARIABLES
          IPRNT      0      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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38 HC      HYDROGRAPH COMBINATION
          ICOMP      2      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 5C  
SUM OF 2 HYDROGRAPHS

Event.out

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	68.	1	JAN	1230	51	0.	1	JAN	1845	76	0.
1	JAN	0015	2	0.	1	JAN	0630	27	65.	1	JAN	1245	52	0.	1	JAN	1900	77	0.
1	JAN	0030	3	0.	1	JAN	0645	28	59.	1	JAN	1300	53	0.	1	JAN	1915	78	0.
1	JAN	0045	4	0.	1	JAN	0700	29	60.	1	JAN	1315	54	0.	1	JAN	1930	79	0.
1	JAN	0100	5	0.	1	JAN	0715	30	76.	1	JAN	1330	55	0.	1	JAN	1945	80	0.
1	JAN	0115	6	0.	1	JAN	0730	31	109.	1	JAN	1345	56	0.	1	JAN	2000	81	0.
1	JAN	0130	7	0.	1	JAN	0745	32	138.	1	JAN	1400	57	0.	1	JAN	2015	82	0.
1	JAN	0145	8	0.	1	JAN	0800	33	158.	1	JAN	1415	58	0.	1	JAN	2030	83	0.
1	JAN	0200	9	0.	1	JAN	0815	34	252.	1	JAN	1430	59	0.	1	JAN	2045	84	0.
1	JAN	0215	10	0.	1	JAN	0830	35	441.	1	JAN	1445	60	0.	1	JAN	2100	85	0.
1	JAN	0230	11	0.	1	JAN	0845	36	603.	1	JAN	1500	61	0.	1	JAN	2115	86	0.
1	JAN	0245	12	0.	1	JAN	0900	37	713.	1	JAN	1515	62	0.	1	JAN	2130	87	0.
1	JAN	0300	13	0.	1	JAN	0915	38	687.	1	JAN	1530	63	0.	1	JAN	2145	88	0.
1	JAN	0315	14	0.	1	JAN	0930	39	518.	1	JAN	1545	64	0.	1	JAN	2200	89	0.
1	JAN	0330	15	0.	1	JAN	0945	40	397.	1	JAN	1600	65	0.	1	JAN	2215	90	0.
1	JAN	0345	16	0.	1	JAN	1000	41	348.	1	JAN	1615	66	0.	1	JAN	2230	91	0.
1	JAN	0400	17	0.	1	JAN	1015	42	272.	1	JAN	1630	67	0.	1	JAN	2245	92	0.
1	JAN	0415	18	0.	1	JAN	1030	43	147.	1	JAN	1645	68	0.	1	JAN	2300	93	0.
1	JAN	0430	19	0.	1	JAN	1045	44	65.	1	JAN	1700	69	0.	1	JAN	2315	94	0.
1	JAN	0445	20	0.	1	JAN	1100	45	29.	1	JAN	1715	70	0.	1	JAN	2330	95	0.
1	JAN	0500	21	0.	1	JAN	1115	46	12.	1	JAN	1730	71	0.	1	JAN	2345	96	0.
1	JAN	0515	22	0.	1	JAN	1130	47	5.	1	JAN	1745	72	0.	2	JAN	0000	97	0.
1	JAN	0530	23	1.	1	JAN	1145	48	2.	1	JAN	1800	73	0.	2	JAN	0015	98	0.
1	JAN	0545	24	13.	1	JAN	1200	49	1.	1	JAN	1815	74	0.	2	JAN	0030	99	0.
1	JAN	0600	25	45.	1	JAN	1215	50	0.	1	JAN	1830	75	0.	2	JAN	0045	100	0.

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
713.	9.00	220.	55.	53.	53.
	(INCHES)	1.543	1.545	1.545	1.545
	(AC-FT)	109.	109.	109.	109.
CUMULATIVE AREA =		1.32 SQ MI			

\*\*\* \*\* \*\* \*\* \*\*

39 KK \*\*\*\*\*  
 \* \*  
 \* 5R \* CNAME 5C  
 \* \*  
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40 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPILOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

41 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.12 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 5R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	57.	1	JAN	1230	51	0.	1	JAN	1845	76	0.
1	JAN	0015	2	0.	1	JAN	0630	27	68.	1	JAN	1245	52	0.	1	JAN	1900	77	0.
1	JAN	0030	3	0.	1	JAN	0645	28	62.	1	JAN	1300	53	0.	1	JAN	1915	78	0.
1	JAN	0045	4	0.	1	JAN	0700	29	59.	1	JAN	1315	54	0.	1	JAN	1930	79	0.
1	JAN	0100	5	0.	1	JAN	0715	30	67.	1	JAN	1330	55	0.	1	JAN	1945	80	0.
1	JAN	0115	6	0.	1	JAN	0730	31	92.	1	JAN	1345	56	0.	1	JAN	2000	81	0.
1	JAN	0130	7	0.	1	JAN	0745	32	124.	1	JAN	1400	57	0.	1	JAN	2015	82	0.
1	JAN	0145	8	0.	1	JAN	0800	33	148.	1	JAN	1415	58	0.	1	JAN	2030	83	0.
1	JAN	0200	9	0.	1	JAN	0815	34	201.	1	JAN	1430	59	0.	1	JAN	2045	84	0.
1	JAN	0215	10	0.	1	JAN	0830	35	342.	1	JAN	1445	60	0.	1	JAN	2100	85	0.
1	JAN	0230	11	0.	1	JAN	0845	36	524.	1	JAN	1500	61	0.	1	JAN	2115	86	0.
1	JAN	0245	12	0.	1	JAN	0900	37	661.	1	JAN	1515	62	0.	1	JAN	2130	87	0.
1	JAN	0300	13	0.	1	JAN	0915	38	708.	1	JAN	1530	63	0.	1	JAN	2145	88	0.
1	JAN	0315	14	0.	1	JAN	0930	39	609.	1	JAN	1545	64	0.	1	JAN	2200	89	0.
1	JAN	0330	15	0.	1	JAN	0945	40	454.	1	JAN	1600	65	0.	1	JAN	2215	90	0.

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Event.out
1 JAN 0345 16 0. * 1 JAN 1000 41 369. * 1 JAN 1615 66 0. * 1 JAN 2230 91*****
1 JAN 0400 17 0. * 1 JAN 1015 42 311. * 1 JAN 1630 67 0. * 1 JAN 2245 92*****
1 JAN 0415 18 0. * 1 JAN 1030 43 212. * 1 JAN 1645 68 0. * 1 JAN 2300 93*****
1 JAN 0430 19 0. * 1 JAN 1045 44 103. * 1 JAN 1700 69 0. * 1 JAN 2315 94*****
1 JAN 0445 20 0. * 1 JAN 1100 45 44. * 1 JAN 1715 70 0. * 1 JAN 2330 95*****
1 JAN 0500 21 0. * 1 JAN 1115 46 20. * 1 JAN 1730 71 0. * 1 JAN 2345 96*****
1 JAN 0515 22 0. * 1 JAN 1130 47 8. * 1 JAN 1745 72 0. * 2 JAN 0000 97*****
1 JAN 0530 23 1. * 1 JAN 1145 48 4. * 1 JAN 1800 73 0. * 2 JAN 0015 98 0.
1 JAN 0545 24 7. * 1 JAN 1200 49 1. * 1 JAN 1815 74 0. * 2 JAN 0030 99 0.
1 JAN 0600 25 28. * 1 JAN 1215 50 0. * 1 JAN 1830 75 0. * 2 JAN 0045 100 0.

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*****
PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)          6-HR      24-HR      72-HR      24.75-HR
+ 708.         9.25          (CFS)    220.      55.       53.       53.
              (INCHES)  1.543    1.545    1.545    1.545
              (AC-FT)  109.     109.     109.     109.
              CUMULATIVE AREA = 1.32 SQ MI

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42 KK          *      4aB  *
              *      *
              *      *
              *      *
*****

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43 KO          OUTPUT CONTROL VARIABLES
              IPRNT      0 PRINT CONTROL
              IPLOT      0 PLOT CONTROL
              QSCAL      0. HYDROGRAPH PLOT SCALE
              IPNCH      1 PUNCH COMPUTED HYDROGRAPH
              IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
              ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
              ISAV2     100 LAST ORDINATE PUNCHED OR SAVED
              TIMINT     0.250 TIME INTERVAL IN HOURS

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SUBBASIN RUNOFF DATA
44 BA          SUBBASIN CHARACTERISTICS
              TAREA,    0.88 SUBBASIN AREA

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PRECIPITATION DATA
47 PT          TOTAL STORM STATIONS      Gage
48 PW          WEIGHTS                    0.72
45 PR          RECORDING STATIONS        Gage
46 PW          WEIGHTS                    1.00

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49 LS          SCS LOSS RATE
              STRTL     0.72 INITIAL ABSTRACTION
              CRVNBR    73.51 CURVE NUMBER
              RTIMP     0.00 PERCENT IMPERVIOUS AREA

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50 UD          SCS DIMENSIONLESS UNITGRAPH
              TLAG     0.36 LAG

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PRECIPITATION STATION DATA
              STATION  TOTAL  AVG. ANNUAL  WEIGHT
              Gage    3.90   0.00          0.72

```

```

TEMPORAL DISTRIBUTIONS
STATION      Gage, WEIGHT = 1.00
0.00         0.00  0.00  0.00  0.00  0.00  0.00  0.10  0.02  0.03
0.02         0.03  0.02  0.03  0.03  0.03  0.02  0.03  0.03  0.03
0.19         0.19  0.19  0.19  0.06  0.06  0.06  0.06  0.12  0.12
0.12         0.12  0.38  0.38  0.38  0.38  0.12  0.12  0.12  0.12

```

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

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UNIT HYDROGRAPH
9 END-OF-PERIOD ORDINATES
445. 881. 545. 225. 97. 42. 18. 8. 3.

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HYDROGRAPH AT STATION 4aB

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DA MON HRMN ORD RAIN LOSS EXCESS COMP Q      *
              *      *      *      *      *      *      *
1 JAN 0000 1 0.00 0.00 0.00 0.  *      1 JAN 1230 51 0.00 0.00 0.00 0.
1 JAN 0015 2 0.00 0.00 0.00 0.  *      1 JAN 1245 52 0.00 0.00 0.00 0.
1 JAN 0030 3 0.00 0.00 0.00 0.  *      1 JAN 1300 53 0.00 0.00 0.00 0.

```

Event.out												
1 JAN 0045	4	0.00	0.00	0.00	0.	*	1 JAN 1315	54	0.00	0.00	0.00	0.
1 JAN 0100	5	0.00	0.00	0.00	0.	*	1 JAN 1330	55	0.00	0.00	0.00	0.
1 JAN 0115	6	0.00	0.00	0.00	0.	*	1 JAN 1345	56	0.00	0.00	0.00	0.
1 JAN 0130	7	0.00	0.00	0.00	0.	*	1 JAN 1400	57	0.00	0.00	0.00	0.
1 JAN 0145	8	0.00	0.00	0.00	0.	*	1 JAN 1415	58	0.00	0.00	0.00	0.
1 JAN 0200	9	0.10	0.10	0.00	0.	*	1 JAN 1430	59	0.00	0.00	0.00	0.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.00	0.00	0.00	0.
1 JAN 0230	11	0.03	0.03	0.00	0.	*	1 JAN 1500	61	0.00	0.00	0.00	0.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.00	0.00	0.00	0.
1 JAN 0300	13	0.03	0.03	0.00	0.	*	1 JAN 1530	63	0.00	0.00	0.00	0.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.00	0.00	0.00	0.
1 JAN 0330	15	0.03	0.03	0.00	0.	*	1 JAN 1600	65	0.00	0.00	0.00	0.
1 JAN 0345	16	0.03	0.03	0.00	0.	*	1 JAN 1615	66	0.00	0.00	0.00	0.
1 JAN 0400	17	0.03	0.03	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.
1 JAN 0430	19	0.03	0.03	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.
1 JAN 0445	20	0.03	0.03	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.
1 JAN 0500	21	0.03	0.03	0.00	0.	*	1 JAN 1730	71	0.00	0.00	0.00	0.
1 JAN 0515	22	0.19	0.19	0.00	0.	*	1 JAN 1745	72	0.00	0.00	0.00	0.
1 JAN 0530	23	0.19	0.19	0.00	0.	*	1 JAN 1800	73	0.00	0.00	0.00	0.
1 JAN 0545	24	0.19	0.17	0.01	7.	*	1 JAN 1815	74	0.00	0.00	0.00	0.
1 JAN 0600	25	0.19	0.16	0.03	27.	*	1 JAN 1830	75	0.00	0.00	0.00	0.
1 JAN 0615	26	0.06	0.05	0.01	41.	*	1 JAN 1845	76	0.00	0.00	0.00	0.
1 JAN 0630	27	0.06	0.05	0.01	38.	*	1 JAN 1900	77	0.00	0.00	0.00	0.
1 JAN 0645	28	0.06	0.05	0.02	36.	*	1 JAN 1915	78	0.00	0.00	0.00	0.
1 JAN 0700	29	0.06	0.04	0.02	37.	*	1 JAN 1930	79	0.00	0.00	0.00	0.
1 JAN 0715	30	0.12	0.09	0.04	48.	*	1 JAN 1945	80	0.00	0.00	0.00	0.
1 JAN 0730	31	0.12	0.08	0.04	70.	*	1 JAN 2000	81	0.00	0.00	0.00	0.
1 JAN 0745	32	0.12	0.08	0.05	88.	*	1 JAN 2015	82	0.00	0.00	0.00	0.
1 JAN 0800	33	0.12	0.07	0.05	101.	*	1 JAN 2030	83	0.00	0.00	0.00	0.
1 JAN 0815	34	0.38	0.20	0.18	166.	*	1 JAN 2045	84	0.00	0.00	0.00	0.
1 JAN 0830	35	0.38	0.17	0.20	293.	*	1 JAN 2100	85	0.00	0.00	0.00	0.
1 JAN 0845	36	0.38	0.15	0.23	396.	*	1 JAN 2115	86	0.00	0.00	0.00	0.
1 JAN 0900	37	0.38	0.13	0.24	467.	*	1 JAN 2130	87	0.00	0.00	0.00	0.
1 JAN 0915	38	0.12	0.04	0.08	442.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.12	0.04	0.09	325.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.12	0.04	0.09	250.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.12	0.04	0.09	221.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	170.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	87.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	36.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	15.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	6.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	3.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	1.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.41, TOTAL EXCESS = 1.49

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
+	467.	140.	35.	34.	34.
+	9.00	1.489	1.490	1.490	1.490
		(INCHES)			
		(AC-FT)	70.	70.	70.

CUMULATIVE AREA = 0.88 SQ MI

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 \* \*  
 51 KK 4bB \*  
 \* \*  
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52 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

53 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

56 PT TOTAL STORM STATIONS Gage  
 57 PW WEIGHTS 0.72

54 PR RECORDING STATIONS Gage  
 55 PW WEIGHTS 1.00

58 LS SCS LOSS RATE

STRTL 0.78 INITIAL ABSTRACTION  
 CRVNBR 71.99 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

Event.out

59 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.38 LAG

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PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
 Gage 3.90 0.00 0.72

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.10 0.02 0.03  
 0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03  
 0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12 0.12  
 0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES

263. 575. 405. 170. 78. 35. 16. 7. 3. 0.

HYDROGRAPH AT STATION 4bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.10	0.10	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.01	2.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.16	0.02	11.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	20.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	21.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	20.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.02	21.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.03	28.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.09	0.04	41.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.08	0.04	53.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.05	62.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.21	0.16	99.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.18	0.19	177.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.16	0.21	247.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.14	0.23	297.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.04	0.08	290.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.04	0.08	221.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.08	169.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.09	148.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	117.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	64.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	28.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	12.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	5.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	2.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	1.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.51, TOTAL EXCESS = 1.39

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
297.	9.00	90.	22.	22.	22.	
		(INCHES)	1.389	1.390	1.390	1.390
		(AC-FT)	45.	45.	45.	45.

CUMULATIVE AREA = 0.60 SQ MI Event.out

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60 KK \*\*\*\*\*
\* \*
\* 4C \* CNAME 4R
\* \*
\*\*\*\*\*

61 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

62 HC HYDROGRAPH COMBINATION
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

\*\*\*

HYDROGRAPH AT STATION 4C
SUM OF 3 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 12 empty columns. Rows contain hydrograph data for various dates in January and February.

PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR
+ 1440. 9.25 (CFS) 450. 113. 109. 109.
(INCHES) 1.493 1.495 1.495 1.495
(AC-FT) 223. 223. 223. 223.
CUMULATIVE AREA = 2.80 SQ MI

\*\*\* \*\*

63 KK \*\*\*\*\*
\* \*
\* 4R \* CNAME 4C
\* \*
\*\*\*\*\*

64 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS



HYDROGRAPH ROUTING DATA

65 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.11 MUSKINGUM K
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 4R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 4 times). Contains hydrograph data for station 4R from 1 JAN 0000 to 2 JAN 0045.

Summary statistics table with columns: PEAK FLOW, TIME, 6-HR, MAXIMUM AVERAGE FLOW (24-HR, 72-HR, 24.75-HR). Includes values for CFS and INCHES/AC-FT, and CUMULATIVE AREA = 2.80 SQ MI.

\*\*\* \*\* \*\* \*\* \*\*

66 KK 3B

67 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

68 BA SUBBASIN CHARACTERISTICS
TAREA, 1.13 SUBBASIN AREA

PRECIPITATION DATA

71 PT TOTAL STORM STATIONS Gage
72 PW WEIGHTS 0.72

69 PR RECORDING STATIONS Gage
70 PW WEIGHTS 1.00

73 LS SCS LOSS RATE
STRTL 0.76 INITIAL ABSTRACTION
CRVNBR 72.46 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

\*\*\*

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
Gage 3.90 0.00 0.72

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.10 0.02 0.03  
0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03  
0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12 0.12  
0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
9 END-OF-PERIOD ORDINATES

673. 1194. 626. 255. 105. 43. 17. 8. 1.

HYDROGRAPH AT STATION 3B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.10	0.10	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.01	7.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.16	0.03	30.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	45.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	42.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	41.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.02	43.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.04	59.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.08	0.04	87.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.08	0.05	108.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.05	124.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.21	0.17	216.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.18	0.20	382.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.16	0.22	506.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.14	0.24	593.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.04	0.08	545.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.04	0.08	387.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.09	304.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.09	273.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	203.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	95.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	38.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	15.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	6.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	2.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	1.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.48, TOTAL EXCESS = 1.42

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(CFS)	(CFS)	(CFS)
593.	9.00	173.	43.	42.	42.
		(INCHES)	1.420	1.420	1.420
		(AC-FT)	86.	86.	86.

CUMULATIVE AREA = 1.13 SQ MI

\*\*\* \*\*

75 KK \*\*\*\*\*
\* \*
\* 3C \* CNAME 3R
\* \*
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76 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

77 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

\*\*\*

HYDROGRAPH AT STATION 3C
SUM OF 2 HYDROGRAPHS

\*\*\*\*\*

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 4 times). Rows list hydrograph data for various dates in January, including flow values and station identifiers.

\*\*\*\*\*

Summary table with columns: PEAK FLOW, TIME, 6-HR, MAXIMUM AVERAGE FLOW (24-HR, 72-HR, 24.75-HR). Includes values for 1995 and cumulative area of 3.93 SQ MI.

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78 KK \*\*\*\*\*
\* \*
\* 3R \* CNAME 3C
\* \*
\*\*\*\*\*

79 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

80 RM MUSKINGUM ROUTING

Event.out  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.08 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 3R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	118.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	164.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	167.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	161.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	176.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	233.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	317.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	394.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	530.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	869.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1356.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1793.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1996.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1820.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1425.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1123.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	929.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	676.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	375.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	166.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	69.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	30.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	12.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	9.	*	1	JAN	1200	49	5.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	49.	*	1	JAN	1215	50	2.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
(CFS)	(HR)					
1996.	9.25	623.	156.	151.	151.	151.
		(INCHES)	1.472	1.473	1.473	1.473
		(AC-FT)	309.	309.	309.	309.
CUMULATIVE AREA =		3.93 SQ MI				

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81 KK 2B

82 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

83 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.71 SUBBASIN AREA

PRECIPITATION DATA

86 PT TOTAL STORM STATIONS Gage  
 87 PW WEIGHTS 0.72  
 84 PR RECORDING STATIONS Gage  
 85 PW WEIGHTS 1.00

88 LS SCS LOSS RATE  
 STRTL 0.78 INITIAL ABSTRACTION  
 CRVNR 71.86 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

89 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.24 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT
Gage 3.90 0.00 0.72

TEMPORAL DISTRIBUTIONS

Table with 10 columns: STATION, Gage, WEIGHT, and 7 END-OF-PERIOD ORDINATES. Values range from 0.00 to 0.38.

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH
7 END-OF-PERIOD ORDINATES

742. 737. 236. 77. 25. 9. 2.

HYDROGRAPH AT STATION 2B

Large data table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q. Contains multiple rows of hydrograph data for various dates in January.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.52, TOTAL EXCESS = 1.38

Summary table with columns: PEAK FLOW, TIME, MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR). Includes values in CFS and INCHES.

CUMULATIVE AREA = 0.71 SQ MI

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90 KK 2C \* CNAME 2R
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91 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

92 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

\*\*\*

HYDROGRAPH AT STATION 2C
SUM OF 2 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 columns of data. It lists hydrograph data for various dates in January, including flow rates and ordinates.

Summary table with columns: PEAK FLOW (CFS), TIME (HR), MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR). Values include 2297 CFS at 9.25 HR and flow rates of 728, 182, 177, and 177 CFS.

CUMULATIVE AREA = 4.64 SQ MI

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93 KK 2R \* CNAME 2C
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94 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

95 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.12 MUSKINGUM K
X 0.20 MUSKINGUM X

Event.out

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 2R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	110.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	169.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	192.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	189.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	200.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	254.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	341.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	433.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	583.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	922.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1432.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1957.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2265.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2173.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1802.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1422.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1144.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	861.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	537.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	265.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	111.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	46.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	20.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	7.	*	1	JAN	1200	49	8.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	42.	*	1	JAN	1215	50	3.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

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PEAK FLOW	TIME		MAXIMUM	AVERAGE FLOW	
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR
2265.	9.25		728.	182.	177.
		(INCHES)	1.457	1.459	1.459
		(AC-FT)	361.	361.	361.
CUMULATIVE AREA =			4.64 SQ MI		

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96 KK \* 1B \*  
\* \*  
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97 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

98 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

101 PT TOTAL STORM STATIONS Gage  
102 PW WEIGHTS 0.72

99 PR RECORDING STATIONS Gage  
100 PW WEIGHTS 1.00

103 LS SCS LOSS RATE  
STRTL 0.76 INITIAL ABSTRACTION  
CRVNBR 72.39 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

104 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.28 LAG

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PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT

Gage 3.90 0.00 0.72 Event.out

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00						
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.03
0.02	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03
0.19	0.19	0.19	0.19	0.06	0.06	0.06	0.06	0.12	0.12
0.12	0.12	0.38	0.38	0.38	0.38	0.12	0.12	0.12	0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
8 END-OF-PERIOD ORDINATES

592. 779. 308. 114. 42. 15. 6. 0.

HYDROGRAPH AT STATION 1B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.10	0.10	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.01	6.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.16	0.03	23.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	30.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	26.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	26.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.02	27.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.04	41.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.08	0.04	59.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.08	0.04	72.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.05	81.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.21	0.17	158.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.18	0.20	269.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.16	0.22	341.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.14	0.24	391.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.04	0.08	330.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.04	0.08	222.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.09	181.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.09	167.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	112.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	43.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	15.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	5.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	2.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	1.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.48, TOTAL EXCESS = 1.42

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(CFS)	(CFS)	(CFS)
391.	9.00	110.	27.	27.	27.
		(INCHES)	1.416	1.416	1.416
		(AC-FT)	54.	54.	54.

CUMULATIVE AREA = 0.72 SQ MI

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105 KK \* 1C \* CNAME 1C \*



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106 KO            OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

107 HC            HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION        1C  
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	140.	*	1	JAN	1230	51	1.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	195.	*	1	JAN	1245	52	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	217.	*	1	JAN	1300	53	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	217.	*	1	JAN	1315	54	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	241.	*	1	JAN	1330	55	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	313.	*	1	JAN	1345	56	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	413.	*	1	JAN	1400	57	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	515.	*	1	JAN	1415	58	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	741.	*	1	JAN	1430	59	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	1191.	*	1	JAN	1445	60	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1773.	*	1	JAN	1500	61	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	2349.	*	1	JAN	1515	62	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2595.	*	1	JAN	1530	63	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2395.	*	1	JAN	1545	64	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1983.	*	1	JAN	1600	65	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1589.	*	1	JAN	1615	66	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1256.	*	1	JAN	1630	67	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	904.	*	1	JAN	1645	68	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	553.	*	1	JAN	1700	69	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	270.	*	1	JAN	1715	70	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	112.	*	1	JAN	1730	71	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	47.	*	1	JAN	1745	72	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	20.	*	1	JAN	1800	73	0.	*
1	JAN	0545	24	13.	*	1	JAN	1200	49	8.	*	1	JAN	1815	74	0.	*
1	JAN	0600	25	65.	*	1	JAN	1215	50	3.	*	1	JAN	1830	75	0.	*

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
+ (CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
+ 2595.	9.25	(CFS)	837.	210.	203.	203.
		(INCHES)	1.451	1.453	1.453	1.453
		(AC-FT)	415.	416.	416.	416.

CUMULATIVE AREA = 5.36 SQ MI

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108 KK            \*            1C            \*            CNAME            1C            \*

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109 KO            OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

110 RN            NO ROUTING

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HYDROGRAPH AT STATION        1C

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				Event.out																			
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	140.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.	
1	JAN	0015	2	0.	*	1	JAN	0630	27	195.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	
1	JAN	0030	3	0.	*	1	JAN	0645	28	217.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	
1	JAN	0045	4	0.	*	1	JAN	0700	29	217.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	
1	JAN	0100	5	0.	*	1	JAN	0715	30	241.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	
1	JAN	0115	6	0.	*	1	JAN	0730	31	313.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	
1	JAN	0130	7	0.	*	1	JAN	0745	32	413.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	
1	JAN	0145	8	0.	*	1	JAN	0800	33	515.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	
1	JAN	0200	9	0.	*	1	JAN	0815	34	741.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	
1	JAN	0215	10	0.	*	1	JAN	0830	35	1191.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	
1	JAN	0230	11	0.	*	1	JAN	0845	36	1773.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	
1	JAN	0245	12	0.	*	1	JAN	0900	37	2349.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	
1	JAN	0300	13	0.	*	1	JAN	0915	38	2595.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	
1	JAN	0315	14	0.	*	1	JAN	0930	39	2395.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	
1	JAN	0330	15	0.	*	1	JAN	0945	40	1983.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	
1	JAN	0345	16	0.	*	1	JAN	1000	41	1589.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	
1	JAN	0400	17	0.	*	1	JAN	1015	42	1256.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	
1	JAN	0415	18	0.	*	1	JAN	1030	43	904.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	
1	JAN	0430	19	0.	*	1	JAN	1045	44	553.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	
1	JAN	0445	20	0.	*	1	JAN	1100	45	270.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	
1	JAN	0500	21	0.	*	1	JAN	1115	46	112.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	
1	JAN	0515	22	0.	*	1	JAN	1130	47	47.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	
1	JAN	0530	23	0.	*	1	JAN	1145	48	20.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	
1	JAN	0545	24	13.	*	1	JAN	1200	49	8.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	
1	JAN	0600	25	65.	*	1	JAN	1215	50	3.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
2595.	9.25	837.	210.	203.	203.
		(INCHES)	1.451	1.453	1.453
		(AC-FT)	415.	416.	416.
CUMULATIVE AREA =		5.36 SQ MI			

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT	5bB	379.	9.00	120.	30.	29.	0.72	
+	HYDROGRAPH AT	5aB	334.	9.00	100.	25.	24.	0.60	
+	2 COMBINED AT	5C	713.	9.00	220.	55.	53.	1.32	
+	ROUTED TO	5R	708.	9.25	220.	55.	53.	1.32	
+	HYDROGRAPH AT	4aB	467.	9.00	140.	35.	34.	0.88	
+	HYDROGRAPH AT	4bB	297.	9.00	90.	22.	22.	0.60	
+	3 COMBINED AT	4C	1440.	9.25	450.	113.	109.	2.80	
+	ROUTED TO	4R	1450.	9.25	450.	113.	109.	2.80	
+	HYDROGRAPH AT	3B	593.	9.00	173.	43.	42.	1.13	
+	2 COMBINED AT	3C	1995.	9.25	623.	156.	151.	3.93	
+	ROUTED TO	3R	1996.	9.25	623.	156.	151.	3.93	
+	HYDROGRAPH AT	2B	389.	9.00	105.	26.	26.	0.71	
+	2 COMBINED AT	2C	2297.	9.25	728.	182.	177.	4.64	
+	ROUTED TO	2R	2265.	9.25	728.	182.	177.	4.64	
+	HYDROGRAPH AT	1B	391.	9.00	110.	27.	27.	0.72	
+	2 COMBINED AT	1C	2595.	9.25	837.	210.	203.	5.36	
+	ROUTED TO								

+	1C	2595.	9.25	837.	Event.out 210.	203.	5.36
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\*\*\* NORMAL END OF HEC-1 \*\*\*

1\*\*\*\*\*
\*
\* FLOOD HYDROGRAPH PACKAGE (HEC-1)
\* MAY 1991
\* VERSION 4.0.1E
\*
\* RUN DATE TIME
\*
\*\*\*\*\*

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\*
\* U.S. ARMY CORPS OF ENGINEERS
\* HYDROLOGIC ENGINEERING CENTER
\* 609 SECOND STREET
\* DAVIS, CALIFORNIA 95616
\* (916) 551-1748
\*
\*\*\*\*\*

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1G5, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

Table with columns: LINE, ID, and numerical data. Includes entries for Seng Creek, 25 yr Storm, and two scenarios (5bB and 5aB) with various parameters and a large data matrix.

HEC-1 INPUT

Table with columns: LINE, ID, and numerical data (partial view of the second page).

Table with columns for ID, PC, LS, UD, KK, KO, RM, BA, PB, IN, and numerical values. Includes a section header '25yr.out' and a sub-header '\* typeII-24hour'. Rows are numbered from 51 to 101.

HEC-1 INPUT

PAGE 3

Table with columns for LINE, ID, PC, LS, UD, KK, KO, RM, BA, PB, IN, and numerical values. Includes a section header '\* typeII-24hour'. Rows are numbered from 102 to 137.

```

138      LS      0.0  71.99  0.0
139      UD      0.383

140      KK      4C  CNAME  4R
141      KO      0      0      0.0  0      22
142      HC      3

143      KK      4R  CNAME  4C
144      KO      0      0      0.0  0      22
145      RM      1  0.112  0.2

146      KK      3B
147      KO      0      0      0.0  1      22
148      BA      1.1321
149      PB      4.65
150      IN      6  1JAN94  0
* typeII-24hour

```

25yr.out

HEC-1 INPUT

PAGE 4

LINE	ID	1	2	3	4	5	6	7	8	9	10
151	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
152	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
153	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
154	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
155	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
156	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
157	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
158	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
159	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
160	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
161	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
162	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
163	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
164	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
165	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
166	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
167	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
168	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
169	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
170	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
171	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
172	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
173	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
174	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
175	PC	1.0									
176	LS	0.0	72.46	0.0							
177	UD	0.3323									
178	KK	3C	CNAME	3R							
179	KO	0	0	0.0	0	22					
180	HC	2									
181	KK	3R	CNAME	3C							
182	KO	0	0	0.0	0	22					
183	RM	1	0.081	0.2							
184	KK	2B									
185	KO	0	0	0.0	1	22					
186	BA	0.7082									
187	PB	4.65									
188	IN	6	1JAN94	0							
189	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
190	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
191	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
192	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
193	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
194	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
195	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
196	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
197	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
198	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
199	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
200	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
201	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656

HEC-1 INPUT

PAGE 5

LINE	ID	1	2	3	4	5	6	7	8	9	10
202	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
203	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
204	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
205	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
206	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
207	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
208	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
209	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
210	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
211	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
212	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
213	PC	1.0									
214	LS	0.0	71.86	0.0							
215	UD	0.2379									
216	KK	2C	CNAME	2R							

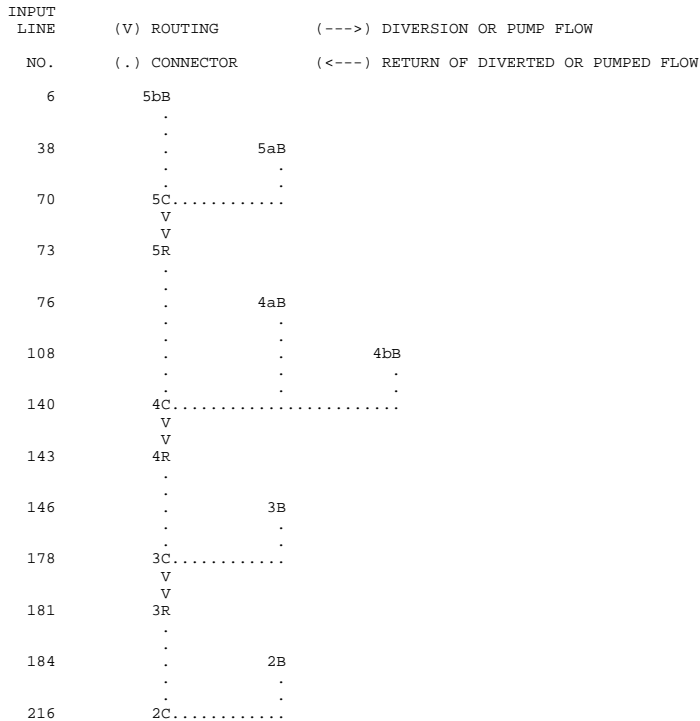
LINE	CODE	VALUE	UNIT	DATE	TIME	25yr.out
217	KO	0		0	0	
218	HC	2				
219	KK	2R	CNAME	2C		
220	KO	0		0	0	22
221	RM	1	0.119	0.2		
222	KK	1B				
223	KO	0		0	0	1
224	BA	0.7193				22
225	PB	4.65				
226	IN	6	1JAN94	0		
* typeII-24hour						
227	PC	0.0	0.001	0.002	0.0031	0.0041
228	PC	0.0105	0.0116	0.0127	0.0138	0.015
229	PC	0.022	0.0232	0.0244	0.0256	0.0269
230	PC	0.0345	0.0358	0.0371	0.0384	0.0398
231	PC	0.048	0.0494	0.0508	0.0523	0.0538
232	PC	0.063	0.0646	0.0662	0.0679	0.0696
233	PC	0.08	0.0818	0.0836	0.0855	0.0874
234	PC	0.099	0.101	0.103	0.1051	0.1072
235	PC	0.12	0.1223	0.1246	0.1271	0.1296
236	PC	0.147	0.1502	0.1534	0.1566	0.1598
237	PC	0.181	0.1851	0.1895	0.1941	0.1989
238	PC	0.235	0.2427	0.2513	0.2609	0.2715
239	PC	0.663	0.682	0.6986	0.713	0.7252
240	PC	0.772	0.778	0.7836	0.789	0.7942
241	PC	0.82	0.8237	0.8273	0.8308	0.8342
242	PC	0.8535	0.8565	0.8594	0.8622	0.8649
243	PC	0.88	0.8823	0.8845	0.8868	0.889
244	PC	0.9018	0.9038	0.9058	0.9078	0.9097
245	PC	0.921	0.9228	0.9245	0.9263	0.928
246	PC	0.9377	0.9393	0.9408	0.9423	0.9437
247	PC	0.952	0.9533	0.9546	0.9559	0.9572
248	PC	0.9648	0.966	0.9672	0.9685	0.9697
249	PC	0.977	0.9782	0.9794	0.9806	0.9818
250	PC	0.9888	0.9899	0.991	0.9922	0.9933
251	PC	1.0				
252	LS	0.0	72.39	0.0		

HEC-1 INPUT

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LINE	ID	1	2	3	4	5	6	7	8	9	10
253	UD	0.2797									
254	KK	1C	CNAME	1C							
255	KO	0	0	0.0	0	0	22				
256	HC	2									
257	KK	1C	CNAME	1C							
258	KO	0	0	0.0	0	0	22				
259	RN	1C									
260	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK



219 V  
V  
2R  
. .  
222 . 1B  
. .  
254 1C.....  
V  
V  
257 1C

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1\*\*\*\*\*  
\*  
\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*  
\* MAY 1991 \*  
\* VERSION 4.0.1E \*  
\* RUN DATE TIME \*  
\* \*  
\*\*\*\*\*

\*\*\*\*\*  
\*  
\* U.S. ARMY CORPS OF ENGINEERS \*  
\* HYDROLOGIC ENGINEERING CENTER \*  
\* 609 SECOND STREET \*  
\* DAVIS, CALIFORNIA 95616 \*  
\* (916) 551-1748 \*  
\* \*  
\*\*\*\*\*

Seng Creek  
w Mining & w Logging (Scenario 1), LIDAR Data  
25 yr Storm

5 IO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
  
IT HYDROGRAPH TIME DATA  
NMIN 15 MINUTES IN COMPUTATION INTERVAL  
IDATE 1JAN94 STARTING DATE  
ITIME 0000 STARTING TIME  
NQ, 100 NUMBER OF HYDROGRAPH ORDINATES  
NDDATE 2JAN94 ENDING DATE  
NDTIME 0045 ENDING TIME  
ICENT 19 CENTURY MARK  
  
COMPUTATION INTERVAL 0.25 HOURS  
TOTAL TIME BASE 24.75 HOURS

ENGLISH UNITS  
DRAINAGE AREA SQUARE MILES  
PRECIPITATION DEPTH INCHES  
LENGTH, ELEVATION FEET  
FLOW CUBIC FEET PER SECOND  
STORAGE VOLUME ACRE-FEET  
SURFACE AREA ACRES  
TEMPERATURE DEGREES FAHRENHEIT

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
6 KK \* 5bB \*  
\* \*  
\*\*\*\*\*

7 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

10 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

8 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

9 PB STORM 4.65 BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01



0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

36 LS SCS LOSS RATE  
 STRTL 0.69 INITIAL ABSTRACTION  
 CRVNBR 74.34 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

37 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.41 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES  
 273. 649. 509. 228. 109. 50. 24. 11. 6. 2.

HYDROGRAPH AT STATION 5bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.04	0.09	514.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.03	0.06	327.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.02	0.06	221.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.05	157.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	120.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.01	0.04	98.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	83.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	71.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	63.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	58.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	55.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.03	51.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	49.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	46.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	43.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	41.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	39.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	37.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	36.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	35.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	34.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	33.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	32.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.00	0.02	31.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	30.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.01	29.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.01	28.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.01	27.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	26.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	25.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	24.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	23.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	22.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.01	0.00	0.01	22.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.01	0.00	0.01	21.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	21.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	21.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	21.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	21.
1	JAN	0945	40	0.04	0.04	0.00	1.	*	1	JAN	2215	90	0.01	0.00	0.01	20.
1	JAN	1000	41	0.04	0.04	0.00	3.	*	1	JAN	2230	91	0.01	0.00	0.01	20.
1	JAN	1015	42	0.05	0.05	0.00	5.	*	1	JAN	2245	92	0.01	0.00	0.01	20.
1	JAN	1030	43	0.06	0.05	0.01	7.	*	1	JAN	2300	93	0.01	0.00	0.01	20.
1	JAN	1045	44	0.07	0.06	0.01	11.	*	1	JAN	2315	94	0.01	0.00	0.01	20.
1	JAN	1100	45	0.08	0.06	0.01	15.	*	1	JAN	2330	95	0.01	0.00	0.01	19.
1	JAN	1115	46	0.10	0.08	0.02	22.	*	1	JAN	2345	96	0.01	0.00	0.01	19.
1	JAN	1130	47	0.13	0.09	0.03	33.	*	2	JAN	0000	97	0.01	0.00	0.01	19.
1	JAN	1145	48	0.51	0.32	0.18	87.	*	2	JAN	0015	98	0.00	0.00	0.00	16.
1	JAN	1200	49	1.26	0.56	0.70	334.	*	2	JAN	0030	99	0.00	0.00	0.00	10.
1	JAN	1215	50	0.20	0.07	0.13	594.	*	2	JAN	0045	100	0.00	0.00	0.00	4.

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.53, TOTAL EXCESS = 2.12

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR	
+	(CFS)	(CFS)				
+	594.	12.25	133.	41.	40.	40.
		(INCHES)	1.715	2.112	2.112	2.112
		(AC-FT)	66.	81.	81.	81.

CUMULATIVE AREA = 0.72 SQ MI

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 \* \*  
 38 KK \* 5aB \*  
 \* \*  
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39 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

42 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

40 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

41 PB STORM 4.65 BASIN TOTAL PRECIPITATION

43 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

68 LS SCS LOSS RATE  
 STRTL 0.69 INITIAL ABSTRACTION  
 CRVNR 74.30 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

69 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.34 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 334. 624. 352. 145. 61. 25. 11. 5. 1.

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HYDROGRAPH AT STATION 5aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.04	0.09	388.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.03	0.06	239.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.02	0.06	158.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.05	114.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	90.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.01	0.04	75.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	63.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	56.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	51.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	47.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	45.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.03	42.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	40.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	38.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	35.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	33.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	32.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	31.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	30.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	29.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	28.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	27.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	26.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.00	0.02	25.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	25.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.01	24.

										25yr.out			
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.01	23.	
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.01	22.	
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	21.	
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	21.	
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	20.	
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	19.	
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	18.	
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	18.	
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	18.	
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	18.	
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	17.	
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	17.	
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	17.	
1 JAN 0945	40	0.04	0.04	0.00	1.	*	1 JAN 2215	90	0.01	0.00	0.01	17.	
1 JAN 1000	41	0.04	0.04	0.00	3.	*	1 JAN 2230	91	0.01	0.00	0.01	17.	
1 JAN 1015	42	0.05	0.05	0.00	4.	*	1 JAN 2245	92	0.01	0.00	0.01	17.	
1 JAN 1030	43	0.06	0.05	0.01	7.	*	1 JAN 2300	93	0.01	0.00	0.01	17.	
1 JAN 1045	44	0.07	0.06	0.01	10.	*	1 JAN 2315	94	0.01	0.00	0.01	16.	
1 JAN 1100	45	0.08	0.06	0.01	14.	*	1 JAN 2330	95	0.01	0.00	0.01	16.	
1 JAN 1115	46	0.10	0.08	0.02	21.	*	1 JAN 2345	96	0.01	0.00	0.01	16.	
1 JAN 1130	47	0.13	0.09	0.03	31.	*	2 JAN 0000	97	0.01	0.00	0.01	16.	
1 JAN 1145	48	0.51	0.33	0.18	92.	*	2 JAN 0015	98	0.00	0.00	0.00	12.	
1 JAN 1200	49	1.26	0.56	0.70	364.	*	2 JAN 0030	99	0.00	0.00	0.00	6.	
1 JAN 1215	50	0.20	0.07	0.13	551.	*	2 JAN 0045	100	0.00	0.00	0.00	3.	

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.54, TOTAL EXCESS = 2.11

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
551.	12.25	111.	34.	33.	33.
		(INCHES)	1.713	2.110	2.110
		(AC-FT)	55.	68.	68.

CUMULATIVE AREA = 0.60 SQ MI

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70 KK      5C *      CNAME      5R
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71 KO      OUTPUT CONTROL VARIABLES
          IPRNT      0      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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72 HC      HYDROGRAPH COMBINATION
          ICOMP      2      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 5C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	902.	*	1 JAN 1845	76	53.									
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	566.	*	1 JAN 1900	77	51.									
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	379.	*	1 JAN 1915	78	49.									
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	271.	*	1 JAN 1930	79	47.									
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	210.	*	1 JAN 1945	80	46.									
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	172.	*	1 JAN 2000	81	44.									
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	146.	*	1 JAN 2015	82	42.									
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	127.	*	1 JAN 2030	83	41.									
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	114.	*	1 JAN 2045	84	40.									
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	105.	*	1 JAN 2100	85	39.									
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	99.	*	1 JAN 2115	86	39.									
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	94.	*	1 JAN 2130	87	38.									
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	89.	*	1 JAN 2145	88	38.									
1 JAN 0315	14	0.	*	1 JAN 0930	39	1.	*	1 JAN 1545	64	84.	*	1 JAN 2200	89	38.									
1 JAN 0330	15	0.	*	1 JAN 0945	40	3.	*	1 JAN 1600	65	79.	*	1 JAN 2215	90	37.									
1 JAN 0345	16	0.	*	1 JAN 1000	41	5.	*	1 JAN 1615	66	74.	*	1 JAN 2230	91	37.									
1 JAN 0400	17	0.	*	1 JAN 1015	42	9.	*	1 JAN 1630	67	70.	*	1 JAN 2245	92	37.									
1 JAN 0415	18	0.	*	1 JAN 1030	43	14.	*	1 JAN 1645	68	68.	*	1 JAN 2300	93	37.									
1 JAN 0430	19	0.	*	1 JAN 1045	44	20.	*	1 JAN 1700	69	66.	*	1 JAN 2315	94	36.									
1 JAN 0445	20	0.	*	1 JAN 1100	45	30.	*	1 JAN 1715	70	64.	*	1 JAN 2330	95	36.									
1 JAN 0500	21	0.	*	1 JAN 1115	46	43.	*	1 JAN 1730	71	62.	*	1 JAN 2345	96	35.									
1 JAN 0515	22	0.	*	1 JAN 1130	47	64.	*	1 JAN 1745	72	60.	*	2 JAN 0000	97	35.									

25yr.out  
 1 JAN 0530 23 0. \* 1 JAN 1145 48 180. \* 1 JAN 1800 73 58. \* 2 JAN 0015 98 29.  
 1 JAN 0545 24 0. \* 1 JAN 1200 49 698. \* 1 JAN 1815 74 56. \* 2 JAN 0030 99 16.  
 1 JAN 0600 25 0. \* 1 JAN 1215 50 1145. \* 1 JAN 1830 75 54. \* 2 JAN 0045 100 7.  
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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
1145.	12.25	244.	75.	73.	73.
		(INCHES) 1.714	2.111	2.111	2.111
		(AC-FT) 121.	149.	149.	149.

CUMULATIVE AREA = 1.32 SQ MI

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 73 KK 5R \* CNAME 5C  
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74 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

75 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.12 MUSKINGUM K  
 X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 5R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	1061.	*	1	JAN	1845	76	54.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	734.	*	1	JAN	1900	77	52.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	463.	*	1	JAN	1915	78	50.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	321.	*	1	JAN	1930	79	48.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	238.	*	1	JAN	1945	80	47.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	190.	*	1	JAN	2000	81	45.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	158.	*	1	JAN	2015	82	43.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	136.	*	1	JAN	2030	83	41.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	120.	*	1	JAN	2045	84	40.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	109.	*	1	JAN	2100	85	40.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	102.	*	1	JAN	2115	86	39.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	96.	*	1	JAN	2130	87	39.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	91.	*	1	JAN	2145	88	38.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1.	*	1	JAN	1545	64	86.	*	1	JAN	2200	89	38.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	2.	*	1	JAN	1600	65	81.	*	1	JAN	2215	90	38.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	4.	*	1	JAN	1615	66	76.	*	1	JAN	2230	91	37.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	7.	*	1	JAN	1630	67	72.	*	1	JAN	2245	92	37.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	11.	*	1	JAN	1645	68	69.	*	1	JAN	2300	93	37.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	17.	*	1	JAN	1700	69	67.	*	1	JAN	2315	94	36.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	25.	*	1	JAN	1715	70	65.	*	1	JAN	2330	95	36.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	36.	*	1	JAN	1730	71	63.	*	1	JAN	2345	96	35.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	53.	*	1	JAN	1745	72	61.	*	2	JAN	0000	97	35.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	117.	*	1	JAN	1800	73	59.	*	2	JAN	0015	98	32.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	419.	*	1	JAN	1815	74	57.	*	2	JAN	0030	99	22.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	930.	*	1	JAN	1830	75	55.	*	2	JAN	0045	100	11.	*

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
1061.	12.50	244.	75.	73.	73.
		(INCHES) 1.713	2.110	2.110	2.110
		(AC-FT) 121.	149.	149.	149.

CUMULATIVE AREA = 1.32 SQ MI

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\* 76 KK 4aB \*
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77 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

80 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 6 TIME INTERVAL IN MINUTES
JXDATE 1JAN94 STARTING DATE
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

78 BA SUBBASIN CHARACTERISTICS
TAREA, 0.88 SUBBASIN AREA

PRECIPITATION DATA

79 PB STORM 4.65 BASIN TOTAL PRECIPITATION

81 PI INCREMENTAL PRECIPITATION PATTERN
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03 0.03
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

106 LS SCS LOSS RATE
STRTL 0.72 INITIAL ABSTRACTION
CRVNBR 73.51 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

107 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.36 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH
9 END-OF-PERIOD ORDINATES
445. 881. 545. 225. 97. 42. 18. 8. 3.

HYDROGRAPH AT STATION 4aB

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Table with 16 columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and 8 empty columns. It contains 48 rows of hydrograph data for station 4aB, showing time intervals, ordinates, and various loss and excess values.

										25yr.out		
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.01	32.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	31.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	30.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	28.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	27.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	26.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	26.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	26.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	25.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	25.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	25.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	25.
1 JAN 0945	40	0.04	0.04	0.00	1.	*	1 JAN 2215	90	0.01	0.00	0.01	24.
1 JAN 1000	41	0.04	0.04	0.00	2.	*	1 JAN 2230	91	0.01	0.00	0.01	24.
1 JAN 1015	42	0.05	0.05	0.00	5.	*	1 JAN 2245	92	0.01	0.00	0.01	24.
1 JAN 1030	43	0.06	0.05	0.01	8.	*	1 JAN 2300	93	0.01	0.00	0.01	24.
1 JAN 1045	44	0.07	0.06	0.01	12.	*	1 JAN 2315	94	0.01	0.00	0.01	24.
1 JAN 1100	45	0.08	0.07	0.01	18.	*	1 JAN 2330	95	0.01	0.00	0.01	23.
1 JAN 1115	46	0.10	0.08	0.02	26.	*	1 JAN 2345	96	0.01	0.00	0.01	23.
1 JAN 1130	47	0.13	0.09	0.03	40.	*	2 JAN 0000	97	0.01	0.00	0.01	23.
1 JAN 1145	48	0.51	0.33	0.17	119.	*	2 JAN 0015	98	0.00	0.00	0.00	18.
1 JAN 1200	49	1.26	0.58	0.68	477.	*	2 JAN 0030	99	0.00	0.00	0.00	9.
1 JAN 1215	50	0.20	0.07	0.13	757.	*	2 JAN 0045	100	0.00	0.00	0.00	4.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.60, TOTAL EXCESS = 2.05

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
+	757.	12.25				
		(CFS)	157.	48.	47.	47.
		(INCHES)	1.663	2.047	2.047	2.047
		(AC-FT)	78.	96.	96.	96.
		CUMULATIVE AREA =	0.88 SQ MI			

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 \* \*  
 108 KK \* 4bB \*  
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109 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

112 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

110 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

111 PB STORM 4.65 BASIN TOTAL PRECIPITATION

113 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

138 LS SCS LOSS RATE  
 STRTL 0.78 INITIAL ABSTRACTION  
 CRVNBR 71.99 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

139 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.38 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
10 END-OF-PERIOD ORDINATES

263. 575. 405. 170. 78. 35. 16. 7. 3. 0.

HYDROGRAPH AT STATION 4bb

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.09	380.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.03	0.06	237.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	160.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	115.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	89.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	73.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	63.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	54.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	49.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	45.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	43.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	40.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	38.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	36.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	34.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	32.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	30.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	29.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	28.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	27.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	27.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	26.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	25.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	24.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	24.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	23.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.01	22.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.01	21.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	21.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	20.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	19.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	18.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	18.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.01	0.00	0.01	17.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.01	0.00	0.01	17.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	17.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	17.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	16.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	16.
1	JAN	0945	40	0.04	0.04	0.00	0.	*	1	JAN	2215	90	0.01	0.00	0.01	16.
1	JAN	1000	41	0.04	0.04	0.00	0.	*	1	JAN	2230	91	0.01	0.00	0.01	16.
1	JAN	1015	42	0.05	0.05	0.00	1.	*	1	JAN	2245	92	0.01	0.00	0.01	16.
1	JAN	1030	43	0.06	0.05	0.00	3.	*	1	JAN	2300	93	0.01	0.00	0.01	16.
1	JAN	1045	44	0.07	0.06	0.01	5.	*	1	JAN	2315	94	0.01	0.00	0.01	16.
1	JAN	1100	45	0.08	0.07	0.01	8.	*	1	JAN	2330	95	0.01	0.00	0.01	15.
1	JAN	1115	46	0.10	0.08	0.02	13.	*	1	JAN	2345	96	0.01	0.00	0.01	15.
1	JAN	1130	47	0.13	0.10	0.03	22.	*	2	JAN	0000	97	0.01	0.00	0.01	15.
1	JAN	1145	48	0.51	0.35	0.16	65.	*	2	JAN	0015	98	0.00	0.00	0.00	13.
1	JAN	1200	49	1.26	0.62	0.64	272.	*	2	JAN	0030	99	0.00	0.00	0.00	7.
1	JAN	1215	50	0.20	0.08	0.12	467.	*	2	JAN	0045	100	0.00	0.00	0.00	3.

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.72, TOTAL EXCESS = 1.93

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)			
467.	12.25	101.	31.	30.	30.
		(INCHES)	1.566	1.929	1.929
		(AC-FT)	50.	62.	62.

CUMULATIVE AREA = 0.60 SQ MI

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*      *
140 KK 4C * CNAME 4R
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141 KO OUTPUT CONTROL VARIABLES
      IPRNT 0 PRINT CONTROL
      IPLOT 0 PLOT CONTROL
      QSCAL 0. HYDROGRAPH PLOT SCALE
      IPNCH 0 PUNCH COMPUTED HYDROGRAPH
      IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
      ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
      ISAV2 100 LAST ORDINATE PUNCHED OR SAVED

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25yr.out  
TIMINT 0.250 TIME INTERVAL IN HOURS

142 HC HYDROGRAPH COMBINATION  
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4C  
SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	2007.	1	JAN	1845	76	111.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	1319.	1	JAN	1900	77	107.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	854.	1	JAN	1915	78	103.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	603.	1	JAN	1930	79	100.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	458.	1	JAN	1945	80	96.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	371.	1	JAN	2000	81	92.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	313.	1	JAN	2015	82	88.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	270.	1	JAN	2030	83	85.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	241.	1	JAN	2045	84	83.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	222.	1	JAN	2100	85	82.
1	JAN	0230	11	0.	1	JAN	0845	36	0.	1	JAN	1500	61	208.	1	JAN	2115	86	82.
1	JAN	0245	12	0.	1	JAN	0900	37	0.	1	JAN	1515	62	197.	1	JAN	2130	87	80.
1	JAN	0300	13	0.	1	JAN	0915	38	0.	1	JAN	1530	63	186.	1	JAN	2145	88	79.
1	JAN	0315	14	0.	1	JAN	0930	39	1.	1	JAN	1545	64	176.	1	JAN	2200	89	79.
1	JAN	0330	15	0.	1	JAN	0945	40	3.	1	JAN	1600	65	166.	1	JAN	2215	90	78.
1	JAN	0345	16	0.	1	JAN	1000	41	7.	1	JAN	1615	66	156.	1	JAN	2230	91	77.
1	JAN	0400	17	0.	1	JAN	1015	42	13.	1	JAN	1630	67	148.	1	JAN	2245	92	77.
1	JAN	0415	18	0.	1	JAN	1030	43	22.	1	JAN	1645	68	142.	1	JAN	2300	93	76.
1	JAN	0430	19	0.	1	JAN	1045	44	34.	1	JAN	1700	69	137.	1	JAN	2315	94	76.
1	JAN	0445	20	0.	1	JAN	1100	45	51.	1	JAN	1715	70	133.	1	JAN	2330	95	74.
1	JAN	0500	21	0.	1	JAN	1115	46	76.	1	JAN	1730	71	129.	1	JAN	2345	96	74.
1	JAN	0515	22	0.	1	JAN	1130	47	115.	1	JAN	1745	72	125.	2	JAN	0000	97	73.
1	JAN	0530	23	0.	1	JAN	1145	48	301.	1	JAN	1800	73	122.	2	JAN	0015	98	63.
1	JAN	0545	24	0.	1	JAN	1200	49	1168.	1	JAN	1815	74	118.	2	JAN	0030	99	39.
1	JAN	0600	25	0.	1	JAN	1215	50	2155.	1	JAN	1830	75	114.	2	JAN	0045	100	18.

PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
+ 2155. 12.25 (CFS) 502. 155. 150. 150.  
(INCHES) 1.666 2.052 2.052 2.052  
(AC-FT) 249. 307. 307. 307.  
CUMULATIVE AREA = 2.80 SQ MI

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143 KK \* 4R \* CNAME 4C  
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144 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

145 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.11 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 4R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	2157.	1	JAN	1845	76	112.



25yr.out

1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	1653.	*	1 JAN 1900	77	109.
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	1042.	*	1 JAN 1915	78	105.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	703.	*	1 JAN 1930	79	101.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	517.	*	1 JAN 1945	80	98.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	407.	*	1 JAN 2000	81	94.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	338.	*	1 JAN 2015	82	90.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	288.	*	1 JAN 2030	83	86.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	253.	*	1 JAN 2045	84	84.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	230.	*	1 JAN 2100	85	83.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	214.	*	1 JAN 2115	86	82.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	202.	*	1 JAN 2130	87	81.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	191.	*	1 JAN 2145	88	80.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	181.	*	1 JAN 2200	89	79.
1 JAN 0330	15	0.	*	1 JAN 0945	40	2.	*	1 JAN 1600	65	170.	*	1 JAN 2215	90	79.
1 JAN 0345	16	0.	*	1 JAN 1000	41	5.	*	1 JAN 1615	66	161.	*	1 JAN 2230	91	78.
1 JAN 0400	17	0.	*	1 JAN 1015	42	10.	*	1 JAN 1630	67	151.	*	1 JAN 2245	92	77.
1 JAN 0415	18	0.	*	1 JAN 1030	43	17.	*	1 JAN 1645	68	144.	*	1 JAN 2300	93	76.
1 JAN 0430	19	0.	*	1 JAN 1045	44	28.	*	1 JAN 1700	69	139.	*	1 JAN 2315	94	76.
1 JAN 0445	20	0.	*	1 JAN 1100	45	43.	*	1 JAN 1715	70	135.	*	1 JAN 2330	95	75.
1 JAN 0500	21	0.	*	1 JAN 1115	46	64.	*	1 JAN 1730	71	131.	*	1 JAN 2345	96	74.
1 JAN 0515	22	0.	*	1 JAN 1130	47	96.	*	1 JAN 1745	72	127.	*	2 JAN 0000	97	73.
1 JAN 0530	23	0.	*	1 JAN 1145	48	207.	*	1 JAN 1800	73	123.	*	2 JAN 0015	98	68.
1 JAN 0545	24	0.	*	1 JAN 1200	49	731.	*	1 JAN 1815	74	120.	*	2 JAN 0030	99	50.
1 JAN 0600	25	0.	*	1 JAN 1215	50	1712.	*	1 JAN 1830	75	116.	*	2 JAN 0045	100	27.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
2157.	12.50	502.	155.	150.	150.
		(INCHES)	1.664	2.050	2.050
		(AC-FT)	249.	306.	306.
CUMULATIVE AREA =		2.80 SQ MI			

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 146 KK 3B \*  
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147 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

150 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

148 BA SUBBASIN CHARACTERISTICS  
 TAREA, 1.13 SUBBASIN AREA

PRECIPITATION DATA

149 PB STORM 4.65 BASIN TOTAL PRECIPITATION

151 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

176 LS SCS LOSS RATE  
 STRTL 0.76 INITIAL ABSTRACTION  
 CRVNR 72.46 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

177 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.33 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

25yr.out  
UNIT HYDROGRAPH  
9 END-OF-PERIOD ORDINATES

673. 1194. 626. 255. 105. 43. 17. 8. 1.

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HYDROGRAPH AT STATION 3B  
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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.14	0.05	0.09	659.	*	
1	JAN	0015	2	0.01	0.01	0.00	0.	*	*	1	JAN	1245	52	0.09	0.03	0.06	408.	*	
1	JAN	0030	3	0.01	0.01	0.00	0.	*	*	1	JAN	1300	53	0.08	0.03	0.05	271.	*	
1	JAN	0045	4	0.01	0.01	0.00	0.	*	*	1	JAN	1315	54	0.07	0.02	0.04	198.	*	
1	JAN	0100	5	0.01	0.01	0.00	0.	*	*	1	JAN	1330	55	0.06	0.02	0.04	156.	*	
1	JAN	0115	6	0.01	0.01	0.00	0.	*	*	1	JAN	1345	56	0.05	0.02	0.04	131.	*	
1	JAN	0130	7	0.01	0.01	0.00	0.	*	*	1	JAN	1400	57	0.05	0.01	0.03	112.	*	
1	JAN	0145	8	0.01	0.01	0.00	0.	*	*	1	JAN	1415	58	0.04	0.01	0.03	99.	*	
1	JAN	0200	9	0.01	0.01	0.00	0.	*	*	1	JAN	1430	59	0.04	0.01	0.03	90.	*	
1	JAN	0215	10	0.01	0.01	0.00	0.	*	*	1	JAN	1445	60	0.04	0.01	0.03	84.	*	
1	JAN	0230	11	0.01	0.01	0.00	0.	*	*	1	JAN	1500	61	0.04	0.01	0.03	80.	*	
1	JAN	0245	12	0.01	0.01	0.00	0.	*	*	1	JAN	1515	62	0.03	0.01	0.02	76.	*	
1	JAN	0300	13	0.01	0.01	0.00	0.	*	*	1	JAN	1530	63	0.03	0.01	0.02	71.	*	
1	JAN	0315	14	0.02	0.02	0.00	0.	*	*	1	JAN	1545	64	0.03	0.01	0.02	67.	*	
1	JAN	0330	15	0.02	0.02	0.00	0.	*	*	1	JAN	1600	65	0.03	0.01	0.02	64.	*	
1	JAN	0345	16	0.02	0.02	0.00	0.	*	*	1	JAN	1615	66	0.03	0.01	0.02	60.	*	
1	JAN	0400	17	0.02	0.02	0.00	0.	*	*	1	JAN	1630	67	0.03	0.01	0.02	57.	*	
1	JAN	0415	18	0.02	0.02	0.00	0.	*	*	1	JAN	1645	68	0.02	0.01	0.02	55.	*	
1	JAN	0430	19	0.02	0.02	0.00	0.	*	*	1	JAN	1700	69	0.02	0.01	0.02	53.	*	
1	JAN	0445	20	0.02	0.02	0.00	0.	*	*	1	JAN	1715	70	0.02	0.01	0.02	52.	*	
1	JAN	0500	21	0.02	0.02	0.00	0.	*	*	1	JAN	1730	71	0.02	0.01	0.02	50.	*	
1	JAN	0515	22	0.02	0.02	0.00	0.	*	*	1	JAN	1745	72	0.02	0.01	0.02	49.	*	
1	JAN	0530	23	0.02	0.02	0.00	0.	*	*	1	JAN	1800	73	0.02	0.01	0.02	47.	*	
1	JAN	0545	24	0.02	0.02	0.00	0.	*	*	1	JAN	1815	74	0.02	0.01	0.01	46.	*	
1	JAN	0600	25	0.02	0.02	0.00	0.	*	*	1	JAN	1830	75	0.02	0.01	0.01	44.	*	
1	JAN	0615	26	0.02	0.02	0.00	0.	*	*	1	JAN	1845	76	0.02	0.01	0.01	43.	*	
1	JAN	0630	27	0.02	0.02	0.00	0.	*	*	1	JAN	1900	77	0.02	0.00	0.01	41.	*	
1	JAN	0645	28	0.02	0.02	0.00	0.	*	*	1	JAN	1915	78	0.02	0.00	0.01	40.	*	
1	JAN	0700	29	0.02	0.02	0.00	0.	*	*	1	JAN	1930	79	0.02	0.00	0.01	39.	*	
1	JAN	0715	30	0.02	0.02	0.00	0.	*	*	1	JAN	1945	80	0.02	0.00	0.01	37.	*	
1	JAN	0730	31	0.02	0.02	0.00	0.	*	*	1	JAN	2000	81	0.02	0.00	0.01	36.	*	
1	JAN	0745	32	0.02	0.02	0.00	0.	*	*	1	JAN	2015	82	0.02	0.00	0.01	34.	*	
1	JAN	0800	33	0.03	0.03	0.00	0.	*	*	1	JAN	2030	83	0.01	0.00	0.01	33.	*	
1	JAN	0815	34	0.03	0.03	0.00	0.	*	*	1	JAN	2045	84	0.01	0.00	0.01	32.	*	
1	JAN	0830	35	0.03	0.03	0.00	0.	*	*	1	JAN	2100	85	0.01	0.00	0.01	32.	*	
1	JAN	0845	36	0.03	0.03	0.00	0.	*	*	1	JAN	2115	86	0.01	0.00	0.01	32.	*	
1	JAN	0900	37	0.04	0.04	0.00	0.	*	*	1	JAN	2130	87	0.01	0.00	0.01	31.	*	
1	JAN	0915	38	0.04	0.04	0.00	0.	*	*	1	JAN	2145	88	0.01	0.00	0.01	31.	*	
1	JAN	0930	39	0.04	0.04	0.00	0.	*	*	1	JAN	2200	89	0.01	0.00	0.01	31.	*	
1	JAN	0945	40	0.04	0.04	0.00	0.	*	*	1	JAN	2215	90	0.01	0.00	0.01	31.	*	
1	JAN	1000	41	0.04	0.04	0.00	1.	*	*	1	JAN	2230	91	0.01	0.00	0.01	30.	*	
1	JAN	1015	42	0.05	0.05	0.00	4.	*	*	1	JAN	2245	92	0.01	0.00	0.01	30.	*	
1	JAN	1030	43	0.06	0.05	0.00	7.	*	*	1	JAN	2300	93	0.01	0.00	0.01	30.	*	
1	JAN	1045	44	0.07	0.06	0.01	12.	*	*	1	JAN	2315	94	0.01	0.00	0.01	30.	*	
1	JAN	1100	45	0.08	0.07	0.01	19.	*	*	1	JAN	2330	95	0.01	0.00	0.01	29.	*	
1	JAN	1115	46	0.10	0.08	0.02	30.	*	*	1	JAN	2345	96	0.01	0.00	0.01	29.	*	
1	JAN	1130	47	0.13	0.10	0.03	48.	*	*	2	JAN	0000	97	0.01	0.00	0.01	29.	*	
1	JAN	1145	48	0.51	0.35	0.16	156.	*	*	2	JAN	0015	98	0.00	0.00	0.00	22.	*	
1	JAN	1200	49	1.26	0.61	0.65	653.	*	*	2	JAN	0030	99	0.00	0.00	0.00	10.	*	
1	JAN	1215	50	0.20	0.07	0.12	968.	*	*	2	JAN	0045	100	0.00	0.00	0.00	4.	*	

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.68, TOTAL EXCESS = 1.97

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR	
(CFS)	(HR)					
+						
+	968.	12.25	195.	60.	58.	58.
		(INCHES)	1.597	1.966	1.966	1.966
		(AC-FT)	96.	119.	119.	119.

CUMULATIVE AREA = 1.13 SQ MI

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178 KK \*\*\*\*\*  
\* \* \* \* \*  
\* 3C \* CNAME 3R  
\* \* \* \* \*  
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179 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

180 HC HYDROGRAPH COMBINATION  
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2816.	*	1	JAN	1845	76	155.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2062.	*	1	JAN	1900	77	150.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1313.	*	1	JAN	1915	78	145.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	901.	*	1	JAN	1930	79	140.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	673.	*	1	JAN	1945	80	135.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	538.	*	1	JAN	2000	81	129.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	449.	*	1	JAN	2015	82	124.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	387.	*	1	JAN	2030	83	120.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	343.	*	1	JAN	2045	84	116.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	314.	*	1	JAN	2100	85	115.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	294.	*	1	JAN	2115	86	114.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	278.	*	1	JAN	2130	87	112.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	263.	*	1	JAN	2145	88	111.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	248.	*	1	JAN	2200	89	110.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	2.	*	1	JAN	1600	65	234.	*	1	JAN	2215	90	109.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	6.	*	1	JAN	1615	66	220.	*	1	JAN	2230	91	108.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	13.	*	1	JAN	1630	67	208.	*	1	JAN	2245	92	107.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	25.	*	1	JAN	1645	68	199.	*	1	JAN	2300	93	106.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	40.	*	1	JAN	1700	69	193.	*	1	JAN	2315	94	106.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	62.	*	1	JAN	1715	70	187.	*	1	JAN	2330	95	104.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	94.	*	1	JAN	1730	71	181.	*	1	JAN	2345	96	103.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	144.	*	1	JAN	1745	72	176.	*	2	JAN	0000	97	102.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	363.	*	1	JAN	1800	73	171.	*	2	JAN	0015	98	90.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1384.	*	1	JAN	1815	74	165.	*	2	JAN	0030	99	61.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	2680.	*	1	JAN	1830	75	160.	*	2	JAN	0045	100	31.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
2816.	12.50	696.	214.	208.	208.
		(INCHES)	1.645	2.026	2.026
		(AC-FT)	345.	425.	425.

CUMULATIVE AREA = 3.93 SQ MI

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181 KK 3R CNAME 3C

182 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

183 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.08 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 3R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2893.	*	1	JAN	1845	76	157.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2360.	*	1	JAN	1900	77	152.	*

25yr.out

1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	1538.	*	1 JAN 1915	78	146.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1005.	*	1 JAN 1930	79	141.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	737.	*	1 JAN 1945	80	136.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	575.	*	1 JAN 2000	81	131.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	475.	*	1 JAN 2015	82	126.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	405.	*	1 JAN 2030	83	121.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	356.	*	1 JAN 2045	84	117.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	323.	*	1 JAN 2100	85	115.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	300.	*	1 JAN 2115	86	114.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	283.	*	1 JAN 2130	87	113.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	267.	*	1 JAN 2145	88	111.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	253.	*	1 JAN 2200	89	110.
1 JAN 0330	15	0.	*	1 JAN 0945	40	1.	*	1 JAN 1600	65	239.	*	1 JAN 2215	90	110.
1 JAN 0345	16	0.	*	1 JAN 1000	41	4.	*	1 JAN 1615	66	225.	*	1 JAN 2230	91	109.
1 JAN 0400	17	0.	*	1 JAN 1015	42	11.	*	1 JAN 1630	67	212.	*	1 JAN 2245	92	107.
1 JAN 0415	18	0.	*	1 JAN 1030	43	21.	*	1 JAN 1645	68	202.	*	1 JAN 2300	93	107.
1 JAN 0430	19	0.	*	1 JAN 1045	44	35.	*	1 JAN 1700	69	195.	*	1 JAN 2315	94	106.
1 JAN 0445	20	0.	*	1 JAN 1100	45	55.	*	1 JAN 1715	70	189.	*	1 JAN 2330	95	105.
1 JAN 0500	21	0.	*	1 JAN 1115	46	83.	*	1 JAN 1730	71	183.	*	1 JAN 2345	96	103.
1 JAN 0515	22	0.	*	1 JAN 1130	47	127.	*	1 JAN 1745	72	178.	*	2 JAN 0000	97	102.
1 JAN 0530	23	0.	*	1 JAN 1145	48	275.	*	1 JAN 1800	73	172.	*	2 JAN 0015	98	95.
1 JAN 0545	24	0.	*	1 JAN 1200	49	976.	*	1 JAN 1815	74	167.	*	2 JAN 0030	99	72.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2256.	*	1 JAN 1830	75	162.	*	2 JAN 0045	100	40.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
2893.	12.50	(CFS)	696.	214.	208.	208.
		(INCHES)	1.643	2.025	2.025	2.025
		(AC-FT)	345.	425.	425.	425.
CUMULATIVE AREA =			3.93 SQ MI			

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 184 KK \* 2B \*  
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185 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

188 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

186 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.71 SUBBASIN AREA

PRECIPITATION DATA

187 PB STORM 4.65 BASIN TOTAL PRECIPITATION

189 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

214 LS SCS LOSS RATE  
 STRL 0.78 INITIAL ABSTRACTION  
 CRVNR 71.86 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

215 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.24 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH

742. 737. 236. 77. 25. 9. 2.

HYDROGRAPH AT STATION 2B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.09	316.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.03	0.06	190.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	130.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	101.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	83.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	72.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	64.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	57.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	53.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	50.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	48.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	45.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	43.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	40.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	38.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	36.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	34.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	33.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	32.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	31.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	31.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	30.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	29.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	28.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	27.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	26.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.01	25.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.01	24.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	23.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	23.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	21.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	21.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	20.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.01	0.00	0.01	20.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.01	0.00	0.01	20.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	20.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	19.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	19.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	19.
1	JAN	0945	40	0.04	0.04	0.00	0.	*	1	JAN	2215	90	0.01	0.00	0.01	19.
1	JAN	1000	41	0.04	0.04	0.00	1.	*	1	JAN	2230	91	0.01	0.00	0.01	19.
1	JAN	1015	42	0.05	0.05	0.00	2.	*	1	JAN	2245	92	0.01	0.00	0.01	19.
1	JAN	1030	43	0.06	0.05	0.00	5.	*	1	JAN	2300	93	0.01	0.00	0.01	19.
1	JAN	1045	44	0.07	0.06	0.01	8.	*	1	JAN	2315	94	0.01	0.00	0.01	18.
1	JAN	1100	45	0.08	0.07	0.01	13.	*	1	JAN	2330	95	0.01	0.00	0.01	18.
1	JAN	1115	46	0.10	0.08	0.02	21.	*	1	JAN	2345	96	0.01	0.00	0.01	18.
1	JAN	1130	47	0.13	0.10	0.03	33.	*	2	JAN	0000	97	0.01	0.00	0.01	18.
1	JAN	1145	48	0.51	0.35	0.16	139.	*	2	JAN	0015	98	0.00	0.00	0.00	10.
1	JAN	1200	49	1.26	0.63	0.63	591.	*	2	JAN	0030	99	0.00	0.00	0.00	3.
1	JAN	1215	50	0.20	0.08	0.12	596.	*	2	JAN	0045	100	0.00	0.00	0.00	1.

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.73, TOTAL EXCESS = 1.92

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)			
596.	12.25	119.	37.	35.	35.
		(INCHES)	1.562	1.921	1.921
		(AC-FT)	59.	73.	73.

CUMULATIVE AREA = 0.71 SQ MI

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\* \*  
216 KK \* 2C \* CNAME 2R  
\* \*  
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217 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

218 HC HYDROGRAPH COMBINATION ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2C SUM OF 2 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 columns for two hydrographs. Rows list dates from 1 JAN 0000 to 1 JAN 0600 with corresponding flow values.

Summary table for peak flow and average flow. Columns: PEAK FLOW (CFS), TIME (HR), MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR). Values include 3209 CFS peak flow and 4.64 SQ MI cumulative area.

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219 KK 2R CNAME 2C

220 KO OUTPUT CONTROL VARIABLES IPRNT 0 PRINT CONTROL IPLOT 0 PLOT CONTROL QSCAL 0. HYDROGRAPH PLOT SCALE IPNCH 0 PUNCH COMPUTED HYDROGRAPH IOUT 22 SAVE HYDROGRAPH ON THIS UNIT ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED ISAV2 100 LAST ORDINATE PUNCHED OR SAVED TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

221 RM MUSKINGUM ROUTING NSTPS 1 NUMBER OF SUBREACHES AMSK 0.12 MUSKINGUM K X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R. REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 2R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 columns for two hydrographs. Rows list dates from 1 JAN 0000 to 1 JAN 0030 with corresponding flow values.

25yr.out

1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1352.	*	1 JAN 1930	79	168.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	941.	*	1 JAN 1945	80	162.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	724.	*	1 JAN 2000	81	156.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	587.	*	1 JAN 2015	82	149.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	497.	*	1 JAN 2030	83	144.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	434.	*	1 JAN 2045	84	139.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	389.	*	1 JAN 2100	85	136.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	359.	*	1 JAN 2115	86	134.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	337.	*	1 JAN 2130	87	133.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	318.	*	1 JAN 2145	88	131.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	301.	*	1 JAN 2200	89	130.
1 JAN 0330	15	0.	*	1 JAN 0945	40	1.	*	1 JAN 1600	65	284.	*	1 JAN 2215	90	129.
1 JAN 0345	16	0.	*	1 JAN 1000	41	3.	*	1 JAN 1615	66	268.	*	1 JAN 2230	91	128.
1 JAN 0400	17	0.	*	1 JAN 1015	42	9.	*	1 JAN 1630	67	253.	*	1 JAN 2245	92	127.
1 JAN 0415	18	0.	*	1 JAN 1030	43	19.	*	1 JAN 1645	68	240.	*	1 JAN 2300	93	125.
1 JAN 0430	19	0.	*	1 JAN 1045	44	34.	*	1 JAN 1700	69	231.	*	1 JAN 2315	94	125.
1 JAN 0445	20	0.	*	1 JAN 1100	45	55.	*	1 JAN 1715	70	223.	*	1 JAN 2330	95	123.
1 JAN 0500	21	0.	*	1 JAN 1115	46	86.	*	1 JAN 1730	71	217.	*	1 JAN 2345	96	122.
1 JAN 0515	22	0.	*	1 JAN 1130	47	132.	*	1 JAN 1745	72	210.	*	2 JAN 0000	97	121.
1 JAN 0530	23	0.	*	1 JAN 1145	48	280.	*	1 JAN 1800	73	204.	*	2 JAN 0015	98	114.
1 JAN 0545	24	0.	*	1 JAN 1200	49	962.	*	1 JAN 1815	74	198.	*	2 JAN 0030	99	91.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2239.	*	1 JAN 1830	75	192.	*	2 JAN 0045	100	57.

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PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
3099.	12.50	813.	251.	243.	243.
		(INCHES)	1.628	2.007	2.007
		(AC-FT)	403.	497.	497.

CUMULATIVE AREA = 4.64 SQ MI

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 222 KK 1B \*  
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223 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

226 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

224 BA SUBBASIN CHARACTERISTICS

TAREA,	0.72	SUBBASIN AREA
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PRECIPITATION DATA

225 PB STORM 4.65 BASIN TOTAL PRECIPITATION

227 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

252 LS SCS LOSS RATE

STRTL	0.76	INITIAL ABSTRACTION
CRVNR	72.39	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

253 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.28	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES

592. 779. 308. 114. 42. 25yr.out 15. 6. 0.

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HYDROGRAPH AT STATION 1B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.14	0.05	0.09	368.	*
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.09	0.03	0.06	224.	*
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.08	0.03	0.05	150.	*
1	JAN	0045	4	0.01	0.01	0.00	0.	*		1	JAN	1315	54	0.07	0.02	0.04	112.	*
1	JAN	0100	5	0.01	0.01	0.00	0.	*		1	JAN	1330	55	0.06	0.02	0.04	91.	*
1	JAN	0115	6	0.01	0.01	0.00	0.	*		1	JAN	1345	56	0.05	0.02	0.04	77.	*
1	JAN	0130	7	0.01	0.01	0.00	0.	*		1	JAN	1400	57	0.05	0.01	0.03	68.	*
1	JAN	0145	8	0.01	0.01	0.00	0.	*		1	JAN	1415	58	0.04	0.01	0.03	61.	*
1	JAN	0200	9	0.01	0.01	0.00	0.	*		1	JAN	1430	59	0.04	0.01	0.03	56.	*
1	JAN	0215	10	0.01	0.01	0.00	0.	*		1	JAN	1445	60	0.04	0.01	0.03	52.	*
1	JAN	0230	11	0.01	0.01	0.00	0.	*		1	JAN	1500	61	0.04	0.01	0.03	50.	*
1	JAN	0245	12	0.01	0.01	0.00	0.	*		1	JAN	1515	62	0.03	0.01	0.02	47.	*
1	JAN	0300	13	0.01	0.01	0.00	0.	*		1	JAN	1530	63	0.03	0.01	0.02	45.	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.03	0.01	0.02	42.	*
1	JAN	0330	15	0.02	0.02	0.00	0.	*		1	JAN	1600	65	0.03	0.01	0.02	40.	*
1	JAN	0345	16	0.02	0.02	0.00	0.	*		1	JAN	1615	66	0.03	0.01	0.02	37.	*
1	JAN	0400	17	0.02	0.02	0.00	0.	*		1	JAN	1630	67	0.03	0.01	0.02	36.	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.02	0.01	0.02	34.	*
1	JAN	0430	19	0.02	0.02	0.00	0.	*		1	JAN	1700	69	0.02	0.01	0.02	34.	*
1	JAN	0445	20	0.02	0.02	0.00	0.	*		1	JAN	1715	70	0.02	0.01	0.02	33.	*
1	JAN	0500	21	0.02	0.02	0.00	0.	*		1	JAN	1730	71	0.02	0.01	0.02	32.	*
1	JAN	0515	22	0.02	0.02	0.00	0.	*		1	JAN	1745	72	0.02	0.01	0.02	31.	*
1	JAN	0530	23	0.02	0.02	0.00	0.	*		1	JAN	1800	73	0.02	0.01	0.02	30.	*
1	JAN	0545	24	0.02	0.02	0.00	0.	*		1	JAN	1815	74	0.02	0.01	0.01	29.	*
1	JAN	0600	25	0.02	0.02	0.00	0.	*		1	JAN	1830	75	0.02	0.01	0.01	28.	*
1	JAN	0615	26	0.02	0.02	0.00	0.	*		1	JAN	1845	76	0.02	0.01	0.01	27.	*
1	JAN	0630	27	0.02	0.02	0.00	0.	*		1	JAN	1900	77	0.02	0.00	0.01	26.	*
1	JAN	0645	28	0.02	0.02	0.00	0.	*		1	JAN	1915	78	0.02	0.00	0.01	25.	*
1	JAN	0700	29	0.02	0.02	0.00	0.	*		1	JAN	1930	79	0.02	0.00	0.01	24.	*
1	JAN	0715	30	0.02	0.02	0.00	0.	*		1	JAN	1945	80	0.02	0.00	0.01	23.	*
1	JAN	0730	31	0.02	0.02	0.00	0.	*		1	JAN	2000	81	0.02	0.00	0.01	22.	*
1	JAN	0745	32	0.02	0.02	0.00	0.	*		1	JAN	2015	82	0.02	0.00	0.01	21.	*
1	JAN	0800	33	0.03	0.03	0.00	0.	*		1	JAN	2030	83	0.01	0.00	0.01	21.	*
1	JAN	0815	34	0.03	0.03	0.00	0.	*		1	JAN	2045	84	0.01	0.00	0.01	21.	*
1	JAN	0830	35	0.03	0.03	0.00	0.	*		1	JAN	2100	85	0.01	0.00	0.01	21.	*
1	JAN	0845	36	0.03	0.03	0.00	0.	*		1	JAN	2115	86	0.01	0.00	0.01	20.	*
1	JAN	0900	37	0.04	0.04	0.00	0.	*		1	JAN	2130	87	0.01	0.00	0.01	20.	*
1	JAN	0915	38	0.04	0.04	0.00	0.	*		1	JAN	2145	88	0.01	0.00	0.01	20.	*
1	JAN	0930	39	0.04	0.04	0.00	0.	*		1	JAN	2200	89	0.01	0.00	0.01	20.	*
1	JAN	0945	40	0.04	0.04	0.00	0.	*		1	JAN	2215	90	0.01	0.00	0.01	20.	*
1	JAN	1000	41	0.04	0.04	0.00	1.	*		1	JAN	2230	91	0.01	0.00	0.01	19.	*
1	JAN	1015	42	0.05	0.05	0.00	3.	*		1	JAN	2245	92	0.01	0.00	0.01	19.	*
1	JAN	1030	43	0.06	0.05	0.00	5.	*		1	JAN	2300	93	0.01	0.00	0.01	19.	*
1	JAN	1045	44	0.07	0.06	0.01	9.	*		1	JAN	2315	94	0.01	0.00	0.01	19.	*
1	JAN	1100	45	0.08	0.07	0.01	13.	*		1	JAN	2330	95	0.01	0.00	0.01	18.	*
1	JAN	1115	46	0.10	0.08	0.02	21.	*		1	JAN	2345	96	0.01	0.00	0.01	18.	*
1	JAN	1130	47	0.13	0.10	0.03	33.	*		2	JAN	0000	97	0.01	0.00	0.01	18.	*
1	JAN	1145	48	0.51	0.35	0.16	123.	*		2	JAN	0015	98	0.00	0.00	0.00	12.	*
1	JAN	1200	49	1.26	0.61	0.65	519.	*		2	JAN	0030	99	0.00	0.00	0.00	5.	*
1	JAN	1215	50	0.20	0.07	0.12	630.	*		2	JAN	0045	100	0.00	0.00	0.00	2.	*

\*\*\*\*\*

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.69, TOTAL EXCESS = 1.96

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)					
+	630.	12.25	(CFS)	123.	38.	37.	37.
			(INCHES)	1.594	1.961	1.961	1.961
			(AC-FT)	61.	75.	75.	75.

CUMULATIVE AREA = 0.72 SQ MI

\*\*\* \*\*

```
*****
*      *
254 KK *      1C *      CNAME      1C
*      *
*****
```

```
255 KO      OUTPUT CONTROL VARIABLES
            IPRINT      0      PRINT CONTROL
            IPLOT      0      PLOT CONTROL
            QSCAL      0.      HYDROGRAPH PLOT SCALE
            IPNCH      0      PUNCH COMPUTED HYDROGRAPH
            IOUT      22      SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
            ISAV2      100     LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250   TIME INTERVAL IN HOURS
```



\*\*\*

HYDROGRAPH AT STATION 1C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3467.	*	1	JAN	1845	76	213.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	3145.	*	1	JAN	1900	77	206.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2244.	*	1	JAN	1915	78	199.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1464.	*	1	JAN	1930	79	192.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	1033.	*	1	JAN	1945	80	185.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	801.	*	1	JAN	2000	81	178.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	654.	*	1	JAN	2015	82	171.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	558.	*	1	JAN	2030	83	164.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	489.	*	1	JAN	2045	84	160.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	442.	*	1	JAN	2100	85	157.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	409.	*	1	JAN	2115	86	155.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	384.	*	1	JAN	2130	87	153.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	363.	*	1	JAN	2145	88	151.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	343.	*	1	JAN	2200	89	150.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1.	*	1	JAN	1600	65	324.	*	1	JAN	2215	90	149.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	4.	*	1	JAN	1615	66	305.	*	1	JAN	2230	91	147.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	12.	*	1	JAN	1630	67	288.	*	1	JAN	2245	92	146.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	24.	*	1	JAN	1645	68	275.	*	1	JAN	2300	93	145.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	43.	*	1	JAN	1700	69	264.	*	1	JAN	2315	94	143.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	69.	*	1	JAN	1715	70	256.	*	1	JAN	2330	95	142.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	107.	*	1	JAN	1730	71	248.	*	1	JAN	2345	96	140.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	165.	*	1	JAN	1745	72	241.	*	2	JAN	0000	97	139.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	404.	*	1	JAN	1800	73	234.	*	2	JAN	0015	98	126.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1481.	*	1	JAN	1815	74	227.	*	2	JAN	0030	99	95.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	2870.	*	1	JAN	1830	75	220.	*	2	JAN	0045	100	59.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(CFS)			
+	3467.	12.50	936.	288.	280.
			(INCHES)	2,000	2,000
			(AC-FT)	572.	572.
CUMULATIVE AREA =			5.36 SQ MI		

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\*\*\*\*\*  
 \* \*  
 257 KK 1C \* CNAME 1C  
 \* \*  
 \*\*\*\*\*

258 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

259 RN NO ROUTING

\*\*\*

HYDROGRAPH AT STATION 1C

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3467.	*	1	JAN	1845	76	213.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	3145.	*	1	JAN	1900	77	206.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2244.	*	1	JAN	1915	78	199.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1464.	*	1	JAN	1930	79	192.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	1033.	*	1	JAN	1945	80	185.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	801.	*	1	JAN	2000	81	178.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	654.	*	1	JAN	2015	82	171.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	558.	*	1	JAN	2030	83	164.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	489.	*	1	JAN	2045	84	160.	*

		25yr.out												
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	442.	*	1 JAN 2100	85	157.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	409.	*	1 JAN 2115	86	155.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	384.	*	1 JAN 2130	87	153.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	363.	*	1 JAN 2145	88	151.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	343.	*	1 JAN 2200	89	150.
1 JAN 0330	15	0.	*	1 JAN 0945	40	1.	*	1 JAN 1600	65	324.	*	1 JAN 2215	90	149.
1 JAN 0345	16	0.	*	1 JAN 1000	41	4.	*	1 JAN 1615	66	305.	*	1 JAN 2230	91	147.
1 JAN 0400	17	0.	*	1 JAN 1015	42	12.	*	1 JAN 1630	67	288.	*	1 JAN 2245	92	146.
1 JAN 0415	18	0.	*	1 JAN 1030	43	24.	*	1 JAN 1645	68	275.	*	1 JAN 2300	93	145.
1 JAN 0430	19	0.	*	1 JAN 1045	44	43.	*	1 JAN 1700	69	264.	*	1 JAN 2315	94	143.
1 JAN 0445	20	0.	*	1 JAN 1100	45	69.	*	1 JAN 1715	70	256.	*	1 JAN 2330	95	142.
1 JAN 0500	21	0.	*	1 JAN 1115	46	107.	*	1 JAN 1730	71	248.	*	1 JAN 2345	96	140.
1 JAN 0515	22	0.	*	1 JAN 1130	47	165.	*	1 JAN 1745	72	241.	*	2 JAN 0000	97	139.
1 JAN 0530	23	0.	*	1 JAN 1145	48	404.	*	1 JAN 1800	73	234.	*	2 JAN 0015	98	126.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1481.	*	1 JAN 1815	74	227.	*	2 JAN 0030	99	95.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2870.	*	1 JAN 1830	75	220.	*	2 JAN 0045	100	59.

\*\*\*\*\*

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
3467.	12.50	936.	288.	280.	280.
		(INCHES) 1.623	2.000	2.000	2.000
		(AC-FT) 464.	572.	572.	572.

CUMULATIVE AREA = 5.36 SQ MI

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
+									
+	HYDROGRAPH AT								
+	5bB	594.	12.25	133.	41.	40.	0.72		
+	HYDROGRAPH AT								
+	5aB	551.	12.25	111.	34.	33.	0.60		
+	2 COMBINED AT								
+	5C	1145.	12.25	244.	75.	73.	1.32		
+	ROUTED TO								
+	5R	1061.	12.50	244.	75.	73.	1.32		
+	HYDROGRAPH AT								
+	4aB	757.	12.25	157.	48.	47.	0.88		
+	HYDROGRAPH AT								
+	4bB	467.	12.25	101.	31.	30.	0.60		
+	3 COMBINED AT								
+	4C	2155.	12.25	502.	155.	150.	2.80		
+	ROUTED TO								
+	4R	2157.	12.50	502.	155.	150.	2.80		
+	HYDROGRAPH AT								
+	3B	968.	12.25	195.	60.	58.	1.13		
+	2 COMBINED AT								
+	3C	2816.	12.50	696.	214.	208.	3.93		
+	ROUTED TO								
+	3R	2893.	12.50	696.	214.	208.	3.93		
+	HYDROGRAPH AT								
+	2B	596.	12.25	119.	37.	35.	0.71		
+	2 COMBINED AT								
+	2C	3209.	12.50	814.	251.	243.	4.64		
+	ROUTED TO								
+	2R	3099.	12.50	813.	251.	243.	4.64		
+	HYDROGRAPH AT								
+	1B	630.	12.25	123.	38.	37.	0.72		
+	2 COMBINED AT								
+	1C	3467.	12.50	936.	288.	280.	5.36		
+	ROUTED TO								
+	1C	3467.	12.50	936.	288.	280.	5.36		

\*\*\* NORMAL END OF HEC-1 \*\*\*

1\*\*\*\*\*
\*
\* FLOOD HYDROGRAPH PACKAGE (HEC-1)
\* MAY 1991
\* VERSION 4.0.1E
\*
\* RUN DATE TIME
\*
\*\*\*\*\*

\*\*\*\*\*
\*
\* U.S. ARMY CORPS OF ENGINEERS
\* HYDROLOGIC ENGINEERING CENTER
\* 609 SECOND STREET
\* DAVIS, CALIFORNIA 95616
\* (916) 551-1748
\*
\*\*\*\*\*

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1G5, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

Table with columns: LINE, ID, and numerical data. Includes entries for Seng Creek, 5bB, and 5aB scenarios with various parameters and a large data matrix.

HEC-1 INPUT

Table with columns: LINE, ID, and numerical data. Continuation of the HEC-1 INPUT data.

```

100yr.out
51  PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
52  PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
53  PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
54  PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
55  PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
56  PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
57  PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
58  PC 0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
59  PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
60  PC 0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
61  PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
62  PC 0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
63  PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
64  PC 0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
65  PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
66  PC 0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
67  PC 1.0
68  LS 0.0 74.3 0.0
69  UD 0.344

70  KK 5C CNAME 5R
71  KO 0 0 0.0 0 22
72  HC 2

73  KK 5R CNAME 5C
74  KO 0 0 0.0 0 22
75  RM 1 0.124 0.2

76  KK 4aB
77  KO 0 0 0.0 1 22
78  BA 0.8767
79  PB 5.45
80  IN 6 1JAN94 0
* typeII-24hour
81  PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
82  PC 0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
83  PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
84  PC 0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
85  PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
86  PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
87  PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
88  PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
89  PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
90  PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
91  PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
92  PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
93  PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
94  PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
95  PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
96  PC 0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
97  PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
98  PC 0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
99  PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
100 PC 0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
101 PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635

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HEC-1 INPUT

PAGE 3

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
102 PC 0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
103 PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
104 PC 0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
105 PC 1.0
106 LS 0.0 73.51 0.0
107 UD 0.358

108 KK 4bB
109 KO 0 0 0.0 1 22
110 BA 0.6014
111 PB 5.45
112 IN 6 1JAN94 0
* typeII-24hour
113 PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
114 PC 0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
115 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
116 PC 0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
117 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
118 PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
119 PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
120 PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
121 PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
122 PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
123 PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
124 PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
125 PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
126 PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
127 PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
128 PC 0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
129 PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
130 PC 0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
131 PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
132 PC 0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
133 PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
134 PC 0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
135 PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
136 PC 0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
137 PC 1.0

```

138 LS 0.0 71.99 0.0 100yr.out  
 139 UD 0.383

140 KK 4C CNAME 4R  
 141 KO 0 0 0.0 0 22  
 142 HC 3

143 KK 4R CNAME 4C  
 144 KO 0 0 0.0 0 22  
 145 RM 1 0.112 0.2

146 KK 3B  
 147 KO 0 0 0.0 1 22  
 148 BA 1.1321  
 149 PB 5.45  
 150 IN 6 1JAN94 0  
 \* typeII-24hour

HEC-1 INPUT

PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

151 PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
 152 PC 0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
 153 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
 154 PC 0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
 155 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
 156 PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
 157 PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
 158 PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
 159 PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
 160 PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
 161 PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
 162 PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
 163 PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
 164 PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
 165 PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
 166 PC 0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
 167 PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
 168 PC 0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
 169 PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
 170 PC 0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
 171 PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
 172 PC 0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
 173 PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
 174 PC 0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989  
 175 PC 1.0  
 176 LS 0.0 72.46 0.0  
 177 UD 0.3323

178 KK 3C CNAME 3R  
 179 KO 0 0 0.0 0 22  
 180 HC 2

181 KK 3R CNAME 3C  
 182 KO 0 0 0.0 0 22  
 183 RM 1 0.081 0.2

184 KK 2B  
 185 KO 0 0 0.0 1 22  
 186 BA 0.7082  
 187 PB 5.45  
 188 IN 6 1JAN94 0  
 \* typeII-24hour

189 PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
 190 PC 0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
 191 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
 192 PC 0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
 193 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
 194 PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
 195 PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
 196 PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
 197 PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
 198 PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
 199 PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
 200 PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
 201 PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656

HEC-1 INPUT

PAGE 5

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

202 PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
 203 PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
 204 PC 0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
 205 PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
 206 PC 0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
 207 PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
 208 PC 0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
 209 PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
 210 PC 0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
 211 PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
 212 PC 0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989  
 213 PC 1.0  
 214 LS 0.0 71.86 0.0  
 215 UD 0.2379

216 KK 2C CNAME 2R

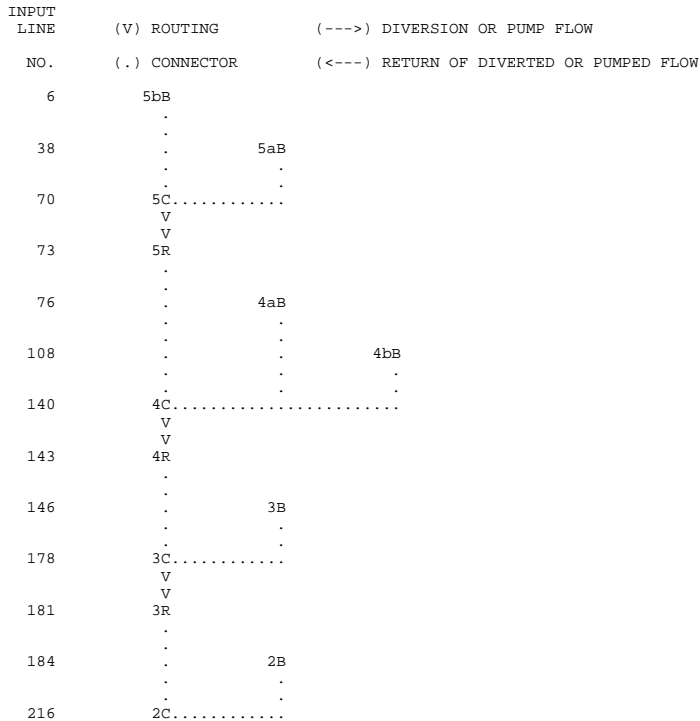
LINE	CODE	VALUE	UNIT	DATE	TIME	100yr.out
217	KO	0		0.0	0	
218	HC	2				22
219	KK	2R	CNAME	2C		
220	KO	0		0.0	0	22
221	RM	1	0.119	0.2		
222	KK	1B				
223	KO	0		0.0	1	22
224	BA	0.7193				
225	PB	5.45				
226	IN	6	1JAN94	0		
* typeII-24hour						
227	PC	0.0	0.001	0.002	0.0031	0.0041
228	PC	0.0105	0.0116	0.0127	0.0138	0.015
229	PC	0.022	0.0232	0.0244	0.0256	0.0269
230	PC	0.0345	0.0358	0.0371	0.0384	0.0398
231	PC	0.048	0.0494	0.0508	0.0523	0.0538
232	PC	0.063	0.0646	0.0662	0.0679	0.0696
233	PC	0.08	0.0818	0.0836	0.0855	0.0874
234	PC	0.099	0.101	0.103	0.1051	0.1072
235	PC	0.12	0.1223	0.1246	0.1271	0.1296
236	PC	0.147	0.1502	0.1534	0.1566	0.1598
237	PC	0.181	0.1851	0.1895	0.1941	0.1989
238	PC	0.235	0.2427	0.2513	0.2609	0.2715
239	PC	0.663	0.682	0.6986	0.713	0.7252
240	PC	0.772	0.778	0.7836	0.789	0.7942
241	PC	0.82	0.8237	0.8273	0.8308	0.8342
242	PC	0.8535	0.8565	0.8594	0.8622	0.8649
243	PC	0.88	0.8823	0.8845	0.8868	0.889
244	PC	0.9018	0.9038	0.9058	0.9078	0.9097
245	PC	0.921	0.9228	0.9245	0.9263	0.928
246	PC	0.9377	0.9393	0.9408	0.9423	0.9437
247	PC	0.952	0.9533	0.9546	0.9559	0.9572
248	PC	0.9648	0.966	0.9672	0.9685	0.9697
249	PC	0.977	0.9782	0.9794	0.9806	0.9818
250	PC	0.9888	0.9899	0.991	0.9922	0.9933
251	PC	1.0				
252	LS	0.0	72.39	0.0		

HEC-1 INPUT

PAGE 6

LINE	ID	1	2	3	4	5	6	7	8	9	10
253	UD	0.2797									
254	KK	1C	CNAME	1C							
255	KO	0	0	0.0	0	0	22				
256	HC	2									
257	KK	1C	CNAME	1C							
258	KO	0	0	0.0	0	0	22				
259	RN	1C									
260	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK



219 V  
V  
2R  
. .  
222 . 1B  
. .  
254 1C.....  
V  
V  
257 1C

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1\*\*\*\*\*  
\*  
\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*  
\* MAY 1991 \*  
\* VERSION 4.0.1E \*  
\* RUN DATE TIME \*  
\*  
\*\*\*\*\*

\*\*\*\*\*  
\*  
\* U.S. ARMY CORPS OF ENGINEERS \*  
\* HYDROLOGIC ENGINEERING CENTER \*  
\* 609 SECOND STREET \*  
\* DAVIS, CALIFORNIA 95616 \*  
\* (916) 551-1748 \*  
\*  
\*\*\*\*\*

Seng Creek  
w Mining & w Logging (Scenario 1), LIDAR Data  
100 yr Storm

5 IO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
  
IT HYDROGRAPH TIME DATA  
NMIN 15 MINUTES IN COMPUTATION INTERVAL  
IDATE 1JAN94 STARTING DATE  
ITIME 0000 STARTING TIME  
NQ, 100 NUMBER OF HYDROGRAPH ORDINATES  
NDDATE 2JAN94 ENDING DATE  
NDTIME 0045 ENDING TIME  
ICENT 19 CENTURY MARK  
  
COMPUTATION INTERVAL 0.25 HOURS  
TOTAL TIME BASE 24.75 HOURS

ENGLISH UNITS  
DRAINAGE AREA SQUARE MILES  
PRECIPITATION DEPTH INCHES  
LENGTH, ELEVATION FEET  
FLOW CUBIC FEET PER SECOND  
STORAGE VOLUME ACRE-FEET  
SURFACE AREA ACRES  
TEMPERATURE DEGREES FAHRENHEIT

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
6 KK \* 5bB \*  
\* \*  
\*\*\*\*\*

7 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

10 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

8 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

9 PB STORM 5.45 BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01

0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

36 LS SCS LOSS RATE  
 STRTL 0.69 INITIAL ABSTRACTION  
 CRVNR 74.34 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

37 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.41 LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES  
 273. 649. 509. 228. 109. 50. 24. 11. 6. 2.

HYDROGRAPH AT STATION 5bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.04	0.12	672.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	423.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.02	0.07	283.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	200.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	152.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.01	0.05	123.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.04	104.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	89.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	79.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	72.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	68.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	64.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	61.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	57.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	54.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	51.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	48.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	46.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	45.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	43.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	42.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	41.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.00	0.02	39.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.00	0.02	38.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	37.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	36.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	35.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	33.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	32.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.02	31.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	30.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	28.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	27.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	27.
1	JAN	0830	35	0.04	0.03	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	27.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	26.
1	JAN	0900	37	0.04	0.04	0.00	1.	*	1	JAN	2130	87	0.02	0.00	0.01	26.
1	JAN	0915	38	0.04	0.04	0.00	3.	*	1	JAN	2145	88	0.02	0.00	0.01	26.
1	JAN	0930	39	0.04	0.04	0.00	5.	*	1	JAN	2200	89	0.02	0.00	0.01	25.
1	JAN	0945	40	0.05	0.04	0.01	6.	*	1	JAN	2215	90	0.02	0.00	0.01	25.
1	JAN	1000	41	0.05	0.04	0.01	9.	*	1	JAN	2230	91	0.02	0.00	0.01	25.
1	JAN	1015	42	0.06	0.05	0.01	12.	*	1	JAN	2245	92	0.02	0.00	0.01	25.
1	JAN	1030	43	0.07	0.05	0.01	15.	*	1	JAN	2300	93	0.02	0.00	0.01	25.
1	JAN	1045	44	0.08	0.06	0.02	20.	*	1	JAN	2315	94	0.02	0.00	0.01	24.
1	JAN	1100	45	0.09	0.07	0.02	27.	*	1	JAN	2330	95	0.02	0.00	0.01	24.
1	JAN	1115	46	0.11	0.08	0.03	37.	*	1	JAN	2345	96	0.02	0.00	0.01	24.
1	JAN	1130	47	0.15	0.10	0.05	53.	*	2	JAN	0000	97	0.01	0.00	0.01	24.
1	JAN	1145	48	0.60	0.34	0.26	128.	*	2	JAN	0015	98	0.00	0.00	0.00	20.
1	JAN	1200	49	1.47	0.56	0.91	454.	*	2	JAN	0030	99	0.00	0.00	0.00	12.
1	JAN	1215	50	0.23	0.07	0.17	786.	*	2	JAN	0045	100	0.00	0.00	0.00	5.

TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.69, TOTAL EXCESS = 2.76

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
786.	12.25	173.	53.	52.	52.
		(INCHES)	2.231	2.755	2.755
		(AC-FT)	86.	106.	106.

CUMULATIVE AREA = 0.72 SQ MI



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 38 KK \* 5aB \*  
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39 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

42 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

40 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

41 PB STORM 5.45 BASIN TOTAL PRECIPITATION

43 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

68 LS SCS LOSS RATE  
 STRTL 0.69 INITIAL ABSTRACTION  
 CRVNR 74.30 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

69 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.34 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 334. 624. 352. 145. 61. 25. 11. 5. 1.

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HYDROGRAPH AT STATION 5aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.04	0.12	506.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	309.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.02	0.07	202.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	145.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	113.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.01	0.05	94.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.04	79.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	70.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	63.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	59.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	56.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	53.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	50.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	47.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	44.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	41.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	39.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	38.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	37.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	36.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	35.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	34.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.00	0.02	33.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.00	0.02	32.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	31.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	30.

100yr.out												
DATE	TIME	INCHES	AC-FT	LOSS	EXCESS	LOSS	EXCESS	LOSS	EXCESS	LOSS		
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.02	29.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	27.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	27.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.02	26.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	24.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	23.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	23.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	22.
1 JAN 0830	35	0.04	0.03	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	22.
1 JAN 0845	36	0.04	0.04	0.00	1.	*	1 JAN 2115	86	0.02	0.00	0.01	22.
1 JAN 0900	37	0.04	0.04	0.00	1.	*	1 JAN 2130	87	0.02	0.00	0.01	22.
1 JAN 0915	38	0.04	0.04	0.00	3.	*	1 JAN 2145	88	0.02	0.00	0.01	21.
1 JAN 0930	39	0.04	0.04	0.00	4.	*	1 JAN 2200	89	0.02	0.00	0.01	21.
1 JAN 0945	40	0.05	0.04	0.01	6.	*	1 JAN 2215	90	0.02	0.00	0.01	21.
1 JAN 1000	41	0.05	0.04	0.01	8.	*	1 JAN 2230	91	0.02	0.00	0.01	21.
1 JAN 1015	42	0.06	0.05	0.01	10.	*	1 JAN 2245	92	0.02	0.00	0.01	21.
1 JAN 1030	43	0.07	0.05	0.01	14.	*	1 JAN 2300	93	0.02	0.00	0.01	21.
1 JAN 1045	44	0.08	0.06	0.02	19.	*	1 JAN 2315	94	0.02	0.00	0.01	20.
1 JAN 1100	45	0.09	0.07	0.02	25.	*	1 JAN 2330	95	0.02	0.00	0.01	20.
1 JAN 1115	46	0.11	0.08	0.03	34.	*	1 JAN 2345	96	0.02	0.00	0.01	20.
1 JAN 1130	47	0.15	0.10	0.05	49.	*	2 JAN 0000	97	0.01	0.00	0.01	20.
1 JAN 1145	48	0.60	0.34	0.26	134.	*	2 JAN 0015	98	0.00	0.00	0.00	15.
1 JAN 1200	49	1.47	0.56	0.91	490.	*	2 JAN 0030	99	0.00	0.00	0.00	8.
1 JAN 1215	50	0.23	0.07	0.17	725.	*	2 JAN 0045	100	0.00	0.00	0.00	3.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.69, TOTAL EXCESS = 2.76

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(INCHES)	(AC-FT)	(CFS)
725.	12.25	145.	2.231	72.	43.
			2.753	89.	2.753
				89.	89.

CUMULATIVE AREA = 0.60 SQ MI

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*      *
70 KK  5C *      CNAME  5R
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71 KO  OUTPUT CONTROL VARIABLES
      IPRNT  0 PRINT CONTROL
      IPLOT  0 PLOT CONTROL
      QSCAL  0. HYDROGRAPH PLOT SCALE
      IPNCH  0 PUNCH COMPUTED HYDROGRAPH
      IOUT   22 SAVE HYDROGRAPH ON THIS UNIT
      ISAV1  1 FIRST ORDINATE PUNCHED OR SAVED
      ISAV2  100 LAST ORDINATE PUNCHED OR SAVED
      TIMINT 0.250 TIME INTERVAL IN HOURS

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72 HC  HYDROGRAPH COMBINATION
      ICOMP  2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 5C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	1178.	*	1 JAN 1845	76	65.					
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	732.	*	1 JAN 1900	77	63.					
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	486.	*	1 JAN 1915	78	61.					
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	345.	*	1 JAN 1930	79	59.					
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	265.	*	1 JAN 1945	80	57.					
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	217.	*	1 JAN 2000	81	54.					
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	183.	*	1 JAN 2015	82	52.					
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	159.	*	1 JAN 2030	83	50.					
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	142.	*	1 JAN 2045	84	49.					
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	131.	*	1 JAN 2100	85	49.					
1 JAN 0230	11	0.	*	1 JAN 0845	36	1.	*	1 JAN 1500	61	124.	*	1 JAN 2115	86	48.					
1 JAN 0245	12	0.	*	1 JAN 0900	37	3.	*	1 JAN 1515	62	117.	*	1 JAN 2130	87	47.					
1 JAN 0300	13	0.	*	1 JAN 0915	38	6.	*	1 JAN 1530	63	110.	*	1 JAN 2145	88	47.					
1 JAN 0315	14	0.	*	1 JAN 0930	39	9.	*	1 JAN 1545	64	104.	*	1 JAN 2200	89	47.					
1 JAN 0330	15	0.	*	1 JAN 0945	40	12.	*	1 JAN 1600	65	98.	*	1 JAN 2215	90	46.					
1 JAN 0345	16	0.	*	1 JAN 1000	41	16.	*	1 JAN 1615	66	92.	*	1 JAN 2230	91	46.					
1 JAN 0400	17	0.	*	1 JAN 1015	42	22.	*	1 JAN 1630	67	87.	*	1 JAN 2245	92	45.					
1 JAN 0415	18	0.	*	1 JAN 1030	43	29.	*	1 JAN 1645	68	84.	*	1 JAN 2300	93	45.					
1 JAN 0430	19	0.	*	1 JAN 1045	44	39.	*	1 JAN 1700	69	81.	*	1 JAN 2315	94	45.					
1 JAN 0445	20	0.	*	1 JAN 1100	45	52.	*	1 JAN 1715	70	79.	*	1 JAN 2330	95	44.					
1 JAN 0500	21	0.	*	1 JAN 1115	46	72.	*	1 JAN 1730	71	76.	*	1 JAN 2345	96	43.					
1 JAN 0515	22	0.	*	1 JAN 1130	47	102.	*	1 JAN 1745	72	74.	*	2 JAN 0000	97	43.					

100yr.out  
 1 JAN 0530 23 0. \* 1 JAN 1145 48 262. \* 1 JAN 1800 73 72. \* 2 JAN 0015 98 35.  
 1 JAN 0545 24 0. \* 1 JAN 1200 49 944. \* 1 JAN 1815 74 70. \* 2 JAN 0030 99 19.  
 1 JAN 0600 25 0. \* 1 JAN 1215 50 1511. \* 1 JAN 1830 75 68. \* 2 JAN 0045 100 8.  
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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
1511.	12.25	318.	98.	95.	95.
		(INCHES) 2.231	2.754	2.754	2.754
		(AC-FT) 158.	195.	195.	195.

CUMULATIVE AREA = 1.32 SQ MI

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 73 KK \* 5R \* CNAME 5C  
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74 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

75 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.12 MUSKINGUM K  
 X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 5R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	1394.	*	1	JAN	1845	76	66.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	954.	*	1	JAN	1900	77	64.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	596.	*	1	JAN	1915	78	62.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	410.	*	1	JAN	1930	79	60.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	302.	*	1	JAN	1945	80	58.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	240.	*	1	JAN	2000	81	55.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	199.	*	1	JAN	2015	82	53.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	170.	*	1	JAN	2030	83	51.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	150.	*	1	JAN	2045	84	50.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	136.	*	1	JAN	2100	85	49.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1.	*	1	JAN	1500	61	127.	*	1	JAN	2115	86	48.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	2.	*	1	JAN	1515	62	120.	*	1	JAN	2130	87	48.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	4.	*	1	JAN	1530	63	114.	*	1	JAN	2145	88	47.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	7.	*	1	JAN	1545	64	107.	*	1	JAN	2200	89	47.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	10.	*	1	JAN	1600	65	101.	*	1	JAN	2215	90	47.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	14.	*	1	JAN	1615	66	95.	*	1	JAN	2230	91	46.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	19.	*	1	JAN	1630	67	90.	*	1	JAN	2245	92	45.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	26.	*	1	JAN	1645	68	86.	*	1	JAN	2300	93	45.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	34.	*	1	JAN	1700	69	83.	*	1	JAN	2315	94	45.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	46.	*	1	JAN	1715	70	80.	*	1	JAN	2330	95	44.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	62.	*	1	JAN	1730	71	78.	*	1	JAN	2345	96	44.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	86.	*	1	JAN	1745	72	75.	*	2	JAN	0000	97	43.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	175.	*	1	JAN	1800	73	73.	*	2	JAN	0015	98	40.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	577.	*	1	JAN	1815	74	71.	*	2	JAN	0030	99	28.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	1240.	*	1	JAN	1830	75	69.	*	2	JAN	0045	100	13.	*

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
1394.	12.50	318.	98.	95.	95.
		(INCHES) 2.230	2.752	2.752	2.752
		(AC-FT) 158.	194.	194.	194.

CUMULATIVE AREA = 1.32 SQ MI

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76 KK \*\*\*\*\*
\* 4aB \*
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77 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

80 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 6 TIME INTERVAL IN MINUTES
JXDATE 1JAN94 STARTING DATE
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

78 BA SUBBASIN CHARACTERISTICS
TAREA, 0.88 SUBBASIN AREA

PRECIPITATION DATA

79 PB STORM 5.45 BASIN TOTAL PRECIPITATION

81 PI INCREMENTAL PRECIPITATION PATTERN
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

106 LS SCS LOSS RATE
STRTL 0.72 INITIAL ABSTRACTION
CRVNBR 73.51 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

107 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.36 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH
9 END-OF-PERIOD ORDINATES

445. 881. 545. 225. 97. 42. 18. 8. 3.

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HYDROGRAPH AT STATION 4aB

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Table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and a column of asterisks. It contains two columns of data for station 4aB, showing hydrograph ordinates from 1 JAN 0000 to 1 JAN 0630 and 1 JAN 1230 to 1 JAN 1900.

100yr.out												
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	39.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	38.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.02	37.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	35.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	34.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	33.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	32.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	32.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	31.
1 JAN 0900	37	0.04	0.04	0.00	1.	*	1 JAN 2130	87	0.02	0.00	0.01	31.
1 JAN 0915	38	0.04	0.04	0.00	2.	*	1 JAN 2145	88	0.02	0.00	0.01	31.
1 JAN 0930	39	0.04	0.04	0.00	4.	*	1 JAN 2200	89	0.02	0.00	0.01	31.
1 JAN 0945	40	0.05	0.04	0.00	7.	*	1 JAN 2215	90	0.02	0.00	0.01	30.
1 JAN 1000	41	0.05	0.05	0.01	9.	*	1 JAN 2230	91	0.02	0.00	0.01	30.
1 JAN 1015	42	0.06	0.05	0.01	13.	*	1 JAN 2245	92	0.02	0.00	0.01	29.
1 JAN 1030	43	0.07	0.06	0.01	18.	*	1 JAN 2300	93	0.02	0.00	0.01	29.
1 JAN 1045	44	0.08	0.06	0.02	24.	*	1 JAN 2315	94	0.02	0.00	0.01	29.
1 JAN 1100	45	0.09	0.07	0.02	32.	*	1 JAN 2330	95	0.02	0.00	0.01	29.
1 JAN 1115	46	0.11	0.08	0.03	45.	*	1 JAN 2345	96	0.02	0.00	0.01	28.
1 JAN 1130	47	0.15	0.10	0.05	65.	*	2 JAN 0000	97	0.01	0.00	0.01	28.
1 JAN 1145	48	0.60	0.35	0.25	175.	*	2 JAN 0015	98	0.00	0.00	0.00	22.
1 JAN 1200	49	1.47	0.59	0.89	649.	*	2 JAN 0030	99	0.00	0.00	0.00	12.
1 JAN 1215	50	0.23	0.07	0.16	1004.	*	2 JAN 0045	100	0.00	0.00	0.00	5.

\*\*\*\*\*

TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.77, TOTAL EXCESS = 2.68

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
1004.	12.25	205.	63.	61.	61.	
		(INCHES)	2.174	2.681	2.681	2.681
		(AC-FT)	102.	125.	125.	125.
CUMULATIVE AREA =			0.88 SQ MI			

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 \* \*  
 108 KK \* 4bB \*  
 \* \*  
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109 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

112 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

110 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

111 PB STORM 5.45 BASIN TOTAL PRECIPITATION

113 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

138 LS SCS LOSS RATE  
 STRTL 0.78 INITIAL ABSTRACTION  
 CRVNBR 71.99 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

139 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.38 LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

100yr.out

UNIT HYDROGRAPH  
10 END-OF-PERIOD ORDINATES

263. 575. 405. 170. 78. 35. 16. 7. 3. 0.

HYDROGRAPH AT STATION 4bb

Table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and a separator column, followed by a second set of the same columns. It contains 50 rows of hydrograph data for station 4bb.

TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.90, TOTAL EXCESS = 2.55

Table with columns: PEAK FLOW, TIME, 6-HR, 24-HR, 72-HR, 24.75-HR. It lists peak flow values in CFS and time in HR, and maximum average flow values in CFS and inches.

CUMULATIVE AREA = 0.60 SQ MI

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140 KK 4C \* CNAME 4R

141 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED

100yr.out  
TIMINT 0.250 TIME INTERVAL IN HOURS

142 HC HYDROGRAPH COMBINATION  
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4C  
SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	2639.	1	JAN	1845	76	138.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	1717.	1	JAN	1900	77	133.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	1101.	1	JAN	1915	78	128.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	771.	1	JAN	1930	79	124.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	581.	1	JAN	1945	80	119.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	469.	1	JAN	2000	81	114.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	394.	1	JAN	2015	82	109.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	339.	1	JAN	2030	83	106.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	302.	1	JAN	2045	84	103.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	278.	1	JAN	2100	85	102.
1	JAN	0230	11	0.	1	JAN	0845	36	1.	1	JAN	1500	61	261.	1	JAN	2115	86	101.
1	JAN	0245	12	0.	1	JAN	0900	37	3.	1	JAN	1515	62	246.	1	JAN	2130	87	99.
1	JAN	0300	13	0.	1	JAN	0915	38	7.	1	JAN	1530	63	233.	1	JAN	2145	88	98.
1	JAN	0315	14	0.	1	JAN	0930	39	13.	1	JAN	1545	64	220.	1	JAN	2200	89	98.
1	JAN	0330	15	0.	1	JAN	0945	40	19.	1	JAN	1600	65	207.	1	JAN	2215	90	97.
1	JAN	0345	16	0.	1	JAN	1000	41	27.	1	JAN	1615	66	195.	1	JAN	2230	91	96.
1	JAN	0400	17	0.	1	JAN	1015	42	38.	1	JAN	1630	67	184.	1	JAN	2245	92	95.
1	JAN	0415	18	0.	1	JAN	1030	43	52.	1	JAN	1645	68	177.	1	JAN	2300	93	94.
1	JAN	0430	19	0.	1	JAN	1045	44	70.	1	JAN	1700	69	171.	1	JAN	2315	94	94.
1	JAN	0445	20	0.	1	JAN	1100	45	96.	1	JAN	1715	70	166.	1	JAN	2330	95	92.
1	JAN	0500	21	0.	1	JAN	1115	46	132.	1	JAN	1730	71	161.	1	JAN	2345	96	91.
1	JAN	0515	22	0.	1	JAN	1130	47	188.	1	JAN	1745	72	156.	2	JAN	0000	97	90.
1	JAN	0530	23	0.	1	JAN	1145	48	449.	1	JAN	1800	73	151.	2	JAN	0015	98	78.
1	JAN	0545	24	0.	1	JAN	1200	49	1601.	1	JAN	1815	74	147.	2	JAN	0030	99	48.
1	JAN	0600	25	0.	1	JAN	1215	50	2872.	1	JAN	1830	75	142.	2	JAN	0045	100	22.

PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
+ 2872. 12.25 (CFS) 656. 202. 196. 196.  
(INCHES) 2.177 2.686 2.686 2.686  
(AC-FT) 325. 402. 402. 402.  
CUMULATIVE AREA = 2.80 SQ MI

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\* \*  
143 KK \* 4R \* CNAME 4C  
\* \*  
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144 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

145 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.11 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 4R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	2854.	1	JAN	1845	76	139.

100yr.out

1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	2162.	*	1 JAN 1900	77	135.
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	1349.	*	1 JAN 1915	78	130.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	902.	*	1 JAN 1930	79	125.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	659.	*	1 JAN 1945	80	121.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	515.	*	1 JAN 2000	81	116.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	426.	*	1 JAN 2015	82	111.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	363.	*	1 JAN 2030	83	107.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	318.	*	1 JAN 2045	84	104.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	288.	*	1 JAN 2100	85	102.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	268.	*	1 JAN 2115	86	101.
1 JAN 0245	12	0.	*	1 JAN 0900	37	2.	*	1 JAN 1515	62	253.	*	1 JAN 2130	87	100.
1 JAN 0300	13	0.	*	1 JAN 0915	38	5.	*	1 JAN 1530	63	239.	*	1 JAN 2145	88	99.
1 JAN 0315	14	0.	*	1 JAN 0930	39	10.	*	1 JAN 1545	64	226.	*	1 JAN 2200	89	98.
1 JAN 0330	15	0.	*	1 JAN 0945	40	16.	*	1 JAN 1600	65	213.	*	1 JAN 2215	90	97.
1 JAN 0345	16	0.	*	1 JAN 1000	41	24.	*	1 JAN 1615	66	200.	*	1 JAN 2230	91	96.
1 JAN 0400	17	0.	*	1 JAN 1015	42	33.	*	1 JAN 1630	67	189.	*	1 JAN 2245	92	95.
1 JAN 0415	18	0.	*	1 JAN 1030	43	45.	*	1 JAN 1645	68	180.	*	1 JAN 2300	93	94.
1 JAN 0430	19	0.	*	1 JAN 1045	44	62.	*	1 JAN 1700	69	173.	*	1 JAN 2315	94	94.
1 JAN 0445	20	0.	*	1 JAN 1100	45	84.	*	1 JAN 1715	70	168.	*	1 JAN 2330	95	93.
1 JAN 0500	21	0.	*	1 JAN 1115	46	115.	*	1 JAN 1730	71	163.	*	1 JAN 2345	96	91.
1 JAN 0515	22	0.	*	1 JAN 1130	47	162.	*	1 JAN 1745	72	158.	*	2 JAN 0000	97	91.
1 JAN 0530	23	0.	*	1 JAN 1145	48	317.	*	1 JAN 1800	73	153.	*	2 JAN 0015	98	84.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1022.	*	1 JAN 1815	74	149.	*	2 JAN 0030	99	62.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2304.	*	1 JAN 1830	75	144.	*	2 JAN 0045	100	33.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
2854.	12.50	656.	202.	196.	196.
		(INCHES)	2,177	2,684	2,684
		(AC-FT)	325.	401.	401.

CUMULATIVE AREA = 2.80 SQ MI

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 146 KK 3B \*  
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147 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

150 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

148 BA SUBBASIN CHARACTERISTICS

TAREA,	1.13	SUBBASIN AREA
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PRECIPITATION DATA

149 PB STORM 5.45 BASIN TOTAL PRECIPITATION

151 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

176 LS SCS LOSS RATE

STRTL	0.76	INITIAL ABSTRACTION
CRVNR	72.46	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

177 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.33	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG



100yr.out  
UNIT HYDROGRAPH  
9 END-OF-PERIOD ORDINATES

673. 1194. 626. 255. 105. 43. 17. 8. 1.

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HYDROGRAPH AT STATION 3B  
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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.16	0.05	0.11	868.	*	*
1	JAN	0015	2	0.01	0.01	0.00	0.	*	*	1	JAN	1245	52	0.11	0.03	0.08	532.	*	*
1	JAN	0030	3	0.01	0.01	0.00	0.	*	*	1	JAN	1300	53	0.09	0.03	0.07	350.	*	*
1	JAN	0045	4	0.01	0.01	0.00	0.	*	*	1	JAN	1315	54	0.08	0.02	0.06	253.	*	*
1	JAN	0100	5	0.01	0.01	0.00	0.	*	*	1	JAN	1330	55	0.07	0.02	0.05	199.	*	*
1	JAN	0115	6	0.01	0.01	0.00	0.	*	*	1	JAN	1345	56	0.06	0.02	0.04	166.	*	*
1	JAN	0130	7	0.02	0.02	0.00	0.	*	*	1	JAN	1400	57	0.05	0.01	0.04	141.	*	*
1	JAN	0145	8	0.02	0.02	0.00	0.	*	*	1	JAN	1415	58	0.05	0.01	0.04	125.	*	*
1	JAN	0200	9	0.02	0.02	0.00	0.	*	*	1	JAN	1430	59	0.05	0.01	0.03	113.	*	*
1	JAN	0215	10	0.02	0.02	0.00	0.	*	*	1	JAN	1445	60	0.04	0.01	0.03	106.	*	*
1	JAN	0230	11	0.02	0.02	0.00	0.	*	*	1	JAN	1500	61	0.04	0.01	0.03	100.	*	*
1	JAN	0245	12	0.02	0.02	0.00	0.	*	*	1	JAN	1515	62	0.04	0.01	0.03	95.	*	*
1	JAN	0300	13	0.02	0.02	0.00	0.	*	*	1	JAN	1530	63	0.04	0.01	0.03	90.	*	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*	*	1	JAN	1545	64	0.04	0.01	0.03	85.	*	*
1	JAN	0330	15	0.02	0.02	0.00	0.	*	*	1	JAN	1600	65	0.03	0.01	0.02	80.	*	*
1	JAN	0345	16	0.02	0.02	0.00	0.	*	*	1	JAN	1615	66	0.03	0.01	0.02	75.	*	*
1	JAN	0400	17	0.02	0.02	0.00	0.	*	*	1	JAN	1630	67	0.03	0.01	0.02	71.	*	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*	*	1	JAN	1645	68	0.03	0.01	0.02	69.	*	*
1	JAN	0430	19	0.02	0.02	0.00	0.	*	*	1	JAN	1700	69	0.03	0.01	0.02	67.	*	*
1	JAN	0445	20	0.02	0.02	0.00	0.	*	*	1	JAN	1715	70	0.03	0.01	0.02	65.	*	*
1	JAN	0500	21	0.02	0.02	0.00	0.	*	*	1	JAN	1730	71	0.03	0.01	0.02	63.	*	*
1	JAN	0515	22	0.02	0.02	0.00	0.	*	*	1	JAN	1745	72	0.03	0.01	0.02	61.	*	*
1	JAN	0530	23	0.02	0.02	0.00	0.	*	*	1	JAN	1800	73	0.02	0.01	0.02	59.	*	*
1	JAN	0545	24	0.02	0.02	0.00	0.	*	*	1	JAN	1815	74	0.02	0.01	0.02	57.	*	*
1	JAN	0600	25	0.02	0.02	0.00	0.	*	*	1	JAN	1830	75	0.02	0.01	0.02	55.	*	*
1	JAN	0615	26	0.02	0.02	0.00	0.	*	*	1	JAN	1845	76	0.02	0.00	0.02	54.	*	*
1	JAN	0630	27	0.03	0.03	0.00	0.	*	*	1	JAN	1900	77	0.02	0.00	0.02	52.	*	*
1	JAN	0645	28	0.03	0.03	0.00	0.	*	*	1	JAN	1915	78	0.02	0.00	0.02	50.	*	*
1	JAN	0700	29	0.03	0.03	0.00	0.	*	*	1	JAN	1930	79	0.02	0.00	0.02	48.	*	*
1	JAN	0715	30	0.03	0.03	0.00	0.	*	*	1	JAN	1945	80	0.02	0.00	0.01	46.	*	*
1	JAN	0730	31	0.03	0.03	0.00	0.	*	*	1	JAN	2000	81	0.02	0.00	0.01	44.	*	*
1	JAN	0745	32	0.03	0.03	0.00	0.	*	*	1	JAN	2015	82	0.02	0.00	0.01	43.	*	*
1	JAN	0800	33	0.03	0.03	0.00	0.	*	*	1	JAN	2030	83	0.02	0.00	0.01	41.	*	*
1	JAN	0815	34	0.03	0.03	0.00	0.	*	*	1	JAN	2045	84	0.02	0.00	0.01	40.	*	*
1	JAN	0830	35	0.04	0.04	0.00	0.	*	*	1	JAN	2100	85	0.02	0.00	0.01	40.	*	*
1	JAN	0845	36	0.04	0.04	0.00	0.	*	*	1	JAN	2115	86	0.02	0.00	0.01	40.	*	*
1	JAN	0900	37	0.04	0.04	0.00	0.	*	*	1	JAN	2130	87	0.02	0.00	0.01	39.	*	*
1	JAN	0915	38	0.04	0.04	0.00	1.	*	*	1	JAN	2145	88	0.02	0.00	0.01	39.	*	*
1	JAN	0930	39	0.04	0.04	0.00	4.	*	*	1	JAN	2200	89	0.02	0.00	0.01	39.	*	*
1	JAN	0945	40	0.05	0.04	0.00	6.	*	*	1	JAN	2215	90	0.02	0.00	0.01	38.	*	*
1	JAN	1000	41	0.05	0.05	0.01	9.	*	*	1	JAN	2230	91	0.02	0.00	0.01	38.	*	*
1	JAN	1015	42	0.06	0.05	0.01	14.	*	*	1	JAN	2245	92	0.02	0.00	0.01	37.	*	*
1	JAN	1030	43	0.07	0.06	0.01	20.	*	*	1	JAN	2300	93	0.02	0.00	0.01	37.	*	*
1	JAN	1045	44	0.08	0.06	0.01	27.	*	*	1	JAN	2315	94	0.02	0.00	0.01	37.	*	*
1	JAN	1100	45	0.09	0.07	0.02	38.	*	*	1	JAN	2330	95	0.02	0.00	0.01	36.	*	*
1	JAN	1115	46	0.11	0.09	0.03	54.	*	*	1	JAN	2345	96	0.02	0.00	0.01	36.	*	*
1	JAN	1130	47	0.15	0.10	0.04	79.	*	*	2	JAN	0000	97	0.01	0.00	0.01	36.	*	*
1	JAN	1145	48	0.60	0.36	0.23	233.	*	*	2	JAN	0015	98	0.00	0.00	0.00	27.	*	*
1	JAN	1200	49	1.47	0.62	0.86	892.	*	*	2	JAN	0030	99	0.00	0.00	0.00	13.	*	*
1	JAN	1215	50	0.23	0.07	0.16	1291.	*	*	2	JAN	0045	100	0.00	0.00	0.00	5.	*	*

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.86, TOTAL EXCESS = 2.59  
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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
+ 1291.	12.25	256.	79.	76.	76.
	(INCHES)	2.100	2.588	2.588	2.588
	(AC-FT)	127.	156.	156.	156.

CUMULATIVE AREA = 1.13 SQ MI

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178 KK *          3C *          CNAME 3R
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179 KO   OUTPUT CONTROL VARIABLES
        IPRINT   0   PRINT CONTROL
        IPLOT    0   PLOT CONTROL
        QSCAL    0.  HYDROGRAPH PLOT SCALE
        IPNCH    0   PUNCH COMPUTED HYDROGRAPH
        IOUT    22  SAVE HYDROGRAPH ON THIS UNIT
        ISAV1    1   FIRST ORDINATE PUNCHED OR SAVED
        ISAV2   100 LAST ORDINATE PUNCHED OR SAVED
        TIMINT   0.250 TIME INTERVAL IN HOURS
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180 HC HYDROGRAPH COMBINATION  
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3722.	*	1	JAN	1845	76	193.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2694.	*	1	JAN	1900	77	187.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1698.	*	1	JAN	1915	78	180.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1155.	*	1	JAN	1930	79	174.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	857.	*	1	JAN	1945	80	167.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	681.	*	1	JAN	2000	81	161.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	567.	*	1	JAN	2015	82	154.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	487.	*	1	JAN	2030	83	148.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	431.	*	1	JAN	2045	84	144.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	394.	*	1	JAN	2100	85	143.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	368.	*	1	JAN	2115	86	141.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	2.	*	1	JAN	1515	62	348.	*	1	JAN	2130	87	139.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	6.	*	1	JAN	1530	63	329.	*	1	JAN	2145	88	138.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	14.	*	1	JAN	1545	64	310.	*	1	JAN	2200	89	137.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	22.	*	1	JAN	1600	65	292.	*	1	JAN	2215	90	136.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	33.	*	1	JAN	1615	66	275.	*	1	JAN	2230	91	134.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	47.	*	1	JAN	1630	67	260.	*	1	JAN	2245	92	133.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	65.	*	1	JAN	1645	68	249.	*	1	JAN	2300	93	132.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	89.	*	1	JAN	1700	69	240.	*	1	JAN	2315	94	131.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	122.	*	1	JAN	1715	70	233.	*	1	JAN	2330	95	129.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	169.	*	1	JAN	1730	71	226.	*	1	JAN	2345	96	127.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	241.	*	1	JAN	1745	72	219.	*	2	JAN	0000	97	126.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	550.	*	1	JAN	1800	73	213.	*	2	JAN	0015	98	112.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1914.	*	1	JAN	1815	74	206.	*	2	JAN	0030	99	75.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3595.	*	1	JAN	1830	75	199.	*	2	JAN	0045	100	38.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)	(CFS)		
+	3722.	12.50	912.	281.	273.
			(INCHES)	2.656	2.656
			(AC-FT)	452.	558.

CUMULATIVE AREA = 3.93 SQ MI

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181 KK 3R \* CNAME 3C  
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182 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

183 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.08 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 3R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3841.	*	1	JAN	1845	76	195.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	3095.	*	1	JAN	1900	77	189.	*

100yr.out

1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	1996.	*	1 JAN 1915	78	182.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1293.	*	1 JAN 1930	79	176.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	941.	*	1 JAN 1945	80	169.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	730.	*	1 JAN 2000	81	163.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	600.	*	1 JAN 2015	82	156.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	511.	*	1 JAN 2030	83	150.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	448.	*	1 JAN 2045	84	146.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	405.	*	1 JAN 2100	85	143.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	376.	*	1 JAN 2115	86	142.
1 JAN 0245	12	0.	*	1 JAN 0900	37	1.	*	1 JAN 1515	62	354.	*	1 JAN 2130	87	140.
1 JAN 0300	13	0.	*	1 JAN 0915	38	5.	*	1 JAN 1530	63	335.	*	1 JAN 2145	88	138.
1 JAN 0315	14	0.	*	1 JAN 0930	39	11.	*	1 JAN 1545	64	316.	*	1 JAN 2200	89	137.
1 JAN 0330	15	0.	*	1 JAN 0945	40	19.	*	1 JAN 1600	65	298.	*	1 JAN 2215	90	136.
1 JAN 0345	16	0.	*	1 JAN 1000	41	30.	*	1 JAN 1615	66	281.	*	1 JAN 2230	91	135.
1 JAN 0400	17	0.	*	1 JAN 1015	42	42.	*	1 JAN 1630	67	265.	*	1 JAN 2245	92	133.
1 JAN 0415	18	0.	*	1 JAN 1030	43	59.	*	1 JAN 1645	68	252.	*	1 JAN 2300	93	132.
1 JAN 0430	19	0.	*	1 JAN 1045	44	81.	*	1 JAN 1700	69	243.	*	1 JAN 2315	94	131.
1 JAN 0445	20	0.	*	1 JAN 1100	45	111.	*	1 JAN 1715	70	235.	*	1 JAN 2330	95	130.
1 JAN 0500	21	0.	*	1 JAN 1115	46	153.	*	1 JAN 1730	71	228.	*	1 JAN 2345	96	128.
1 JAN 0515	22	0.	*	1 JAN 1130	47	215.	*	1 JAN 1745	72	221.	*	2 JAN 0000	97	127.
1 JAN 0530	23	0.	*	1 JAN 1145	48	426.	*	1 JAN 1800	73	215.	*	2 JAN 0015	98	118.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1371.	*	1 JAN 1815	74	208.	*	2 JAN 0030	99	89.
1 JAN 0600	25	0.	*	1 JAN 1215	50	3050.	*	1 JAN 1830	75	202.	*	2 JAN 0045	100	50.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
+	(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
+	3841.	12.50				
		(CFS)	912.	281.	272.	272.
		(INCHES)	2.154	2.655	2.655	2.655
		(AC-FT)	452.	557.	557.	557.
CUMULATIVE AREA =			3.93 SQ MI			

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 184 KK \* 2B \*  
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185 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

188 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

186 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.71 SUBBASIN AREA

PRECIPITATION DATA

187 PB STORM 5.45 BASIN TOTAL PRECIPITATION

189 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

214 LS SCS LOSS RATE  
 STRL 0.78 INITIAL ABSTRACTION  
 CRVNR 71.86 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

215 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.24 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH

742. 737. 236. 77. 25. 9. 2.

HYDROGRAPH AT STATION 2B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	415.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	246.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.07	167.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	128.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	105.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	91.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.04	80.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	72.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	67.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	63.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	60.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	57.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	54.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	51.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	48.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	45.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	43.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	42.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	41.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	39.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	38.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	37.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	36.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	35.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	34.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	33.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	31.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	30.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	29.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	28.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	27.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	26.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	25.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	25.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	25.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	24.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.02	0.00	0.01	24.
1	JAN	0915	38	0.04	0.04	0.00	1.	*	1	JAN	2145	88	0.02	0.00	0.01	24.
1	JAN	0930	39	0.04	0.04	0.00	2.	*	1	JAN	2200	89	0.02	0.00	0.01	24.
1	JAN	0945	40	0.05	0.04	0.00	4.	*	1	JAN	2215	90	0.02	0.00	0.01	24.
1	JAN	1000	41	0.05	0.05	0.00	6.	*	1	JAN	2230	91	0.02	0.00	0.01	23.
1	JAN	1015	42	0.06	0.05	0.01	9.	*	1	JAN	2245	92	0.02	0.00	0.01	23.
1	JAN	1030	43	0.07	0.06	0.01	13.	*	1	JAN	2300	93	0.02	0.00	0.01	23.
1	JAN	1045	44	0.08	0.07	0.01	18.	*	1	JAN	2315	94	0.02	0.00	0.01	23.
1	JAN	1100	45	0.09	0.07	0.02	25.	*	1	JAN	2330	95	0.02	0.00	0.01	22.
1	JAN	1115	46	0.11	0.09	0.03	37.	*	1	JAN	2345	96	0.02	0.00	0.01	22.
1	JAN	1130	47	0.15	0.11	0.04	55.	*	2	JAN	0000	97	0.01	0.00	0.01	22.
1	JAN	1145	48	0.60	0.37	0.23	205.	*	2	JAN	0015	98	0.00	0.00	0.00	13.
1	JAN	1200	49	1.47	0.64	0.84	800.	*	2	JAN	0030	99	0.00	0.00	0.00	4.
1	JAN	1215	50	0.23	0.08	0.16	792.	*	2	JAN	0045	100	0.00	0.00	0.00	1.

TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.91, TOTAL EXCESS = 2.54

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW	
(CFS)	(HR)	6-HR	24-HR	72-HR
800.	12.00	157.	48.	47.
		(INCHES) 2.060	2.537	2.537
		(AC-FT) 78.	96.	96.

CUMULATIVE AREA = 0.71 SQ MI

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*          *
216 KK    *      2C *      CNAME      2R
*          *
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217 KO    OUTPUT CONTROL VARIABLES
          IPRNT      0    PRINT CONTROL
          IPILOT     0    PLOT CONTROL
          QSCAL      0.   HYDROGRAPH PLOT SCALE
          IPNCH      0    PUNCH COMPUTED HYDROGRAPH
          IOUT       22   SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1    FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100   LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250 TIME INTERVAL IN HOURS

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218 HC HYDROGRAPH COMBINATION ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2C SUM OF 2 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 columns for two hydrographs (1-11). Rows list dates from 1 JAN 0000 to 1 JAN 0600 with corresponding flow values.

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Summary table with columns: PEAK FLOW (CFS), TIME (HR), MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR). Values include 4255. CFS and 12.50 HR.

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219 KK \* 2R \* CNAME 2C \*\*\*\*\*

220 KO OUTPUT CONTROL VARIABLES IPRNT 0 PRINT CONTROL IPLOT 0 PLOT CONTROL QSCAL 0. HYDROGRAPH PLOT SCALE IPNCH 0 PUNCH COMPUTED HYDROGRAPH IOUT 22 SAVE HYDROGRAPH ON THIS UNIT ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED ISAV2 100 LAST ORDINATE PUNCHED OR SAVED TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

221 RM MUSKINGUM ROUTING NSTPS 1 NUMBER OF SUBREACHES AMSK 0.12 MUSKINGUM K X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R. REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 2R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 columns for two hydrographs (1-11). Rows list dates from 1 JAN 0000 to 1 JAN 0030 with corresponding flow values.

100yr.out

1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1745.	*	1 JAN 1930	79	208.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	1205.	*	1 JAN 1945	80	201.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	921.	*	1 JAN 2000	81	193.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	743.	*	1 JAN 2015	82	186.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	627.	*	1 JAN 2030	83	178.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	546.	*	1 JAN 2045	84	173.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	489.	*	1 JAN 2100	85	169.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	451.	*	1 JAN 2115	86	167.
1 JAN 0245	12	0.	*	1 JAN 0900	37	1.	*	1 JAN 1515	62	423.	*	1 JAN 2130	87	165.
1 JAN 0300	13	0.	*	1 JAN 0915	38	3.	*	1 JAN 1530	63	399.	*	1 JAN 2145	88	163.
1 JAN 0315	14	0.	*	1 JAN 0930	39	9.	*	1 JAN 1545	64	377.	*	1 JAN 2200	89	161.
1 JAN 0330	15	0.	*	1 JAN 0945	40	18.	*	1 JAN 1600	65	356.	*	1 JAN 2215	90	160.
1 JAN 0345	16	0.	*	1 JAN 1000	41	29.	*	1 JAN 1615	66	335.	*	1 JAN 2230	91	159.
1 JAN 0400	17	0.	*	1 JAN 1015	42	43.	*	1 JAN 1630	67	316.	*	1 JAN 2245	92	157.
1 JAN 0415	18	0.	*	1 JAN 1030	43	61.	*	1 JAN 1645	68	300.	*	1 JAN 2300	93	155.
1 JAN 0430	19	0.	*	1 JAN 1045	44	85.	*	1 JAN 1700	69	288.	*	1 JAN 2315	94	154.
1 JAN 0445	20	0.	*	1 JAN 1100	45	118.	*	1 JAN 1715	70	279.	*	1 JAN 2330	95	153.
1 JAN 0500	21	0.	*	1 JAN 1115	46	163.	*	1 JAN 1730	71	270.	*	1 JAN 2345	96	151.
1 JAN 0515	22	0.	*	1 JAN 1130	47	230.	*	1 JAN 1745	72	262.	*	2 JAN 0000	97	149.
1 JAN 0530	23	0.	*	1 JAN 1145	48	442.	*	1 JAN 1800	73	254.	*	2 JAN 0015	98	141.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1365.	*	1 JAN 1815	74	247.	*	2 JAN 0030	99	112.
1 JAN 0600	25	0.	*	1 JAN 1215	50	3048.	*	1 JAN 1830	75	239.	*	2 JAN 0045	100	71.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
+	4139.	12.50	1068.	329.	319.	319.
			(INCHES)	2.138	2.634	2.634
			(AC-FT)	529.	652.	652.
CUMULATIVE AREA =			4.64 SQ MI			

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 222 KK 1B \*  
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223 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

226 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

224 BA SUBBASIN CHARACTERISTICS

TAREA,	0.72	SUBBASIN AREA
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PRECIPITATION DATA

225 PB STORM 5.45 BASIN TOTAL PRECIPITATION

227 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

252 LS SCS LOSS RATE

STRTL	0.76	INITIAL ABSTRACTION
CRVNR	72.39	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

253 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.28	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES

592. 779. 308. 114. 42. 100yr.out 6. 0.  
15.

HYDROGRAPH AT STATION 1B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	482.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	290.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.07	192.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	143.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	116.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	97.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.04	85.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	76.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	70.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	66.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	62.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	59.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	56.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	53.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	50.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	47.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	45.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	43.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	42.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	41.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	39.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	38.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	37.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	36.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	35.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	34.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	32.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	31.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	30.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	29.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	28.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	27.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	26.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	26.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	26.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	25.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.02	0.00	0.01	25.
1	JAN	0915	38	0.04	0.04	0.00	1.	*	1	JAN	2145	88	0.02	0.00	0.01	25.
1	JAN	0930	39	0.04	0.04	0.00	3.	*	1	JAN	2200	89	0.02	0.00	0.01	25.
1	JAN	0945	40	0.05	0.04	0.00	4.	*	1	JAN	2215	90	0.02	0.00	0.01	24.
1	JAN	1000	41	0.05	0.05	0.00	6.	*	1	JAN	2230	91	0.02	0.00	0.01	24.
1	JAN	1015	42	0.06	0.05	0.01	9.	*	1	JAN	2245	92	0.02	0.00	0.01	24.
1	JAN	1030	43	0.07	0.06	0.01	13.	*	1	JAN	2300	93	0.02	0.00	0.01	24.
1	JAN	1045	44	0.08	0.06	0.01	19.	*	1	JAN	2315	94	0.02	0.00	0.01	23.
1	JAN	1100	45	0.09	0.07	0.02	26.	*	1	JAN	2330	95	0.02	0.00	0.01	23.
1	JAN	1115	46	0.11	0.09	0.03	37.	*	1	JAN	2345	96	0.02	0.00	0.01	23.
1	JAN	1130	47	0.15	0.10	0.04	55.	*	2	JAN	0000	97	0.01	0.00	0.01	23.
1	JAN	1145	48	0.60	0.36	0.23	182.	*	2	JAN	0015	98	0.00	0.00	0.00	15.
1	JAN	1200	49	1.47	0.62	0.85	704.	*	2	JAN	0030	99	0.00	0.00	0.00	6.
1	JAN	1215	50	0.23	0.07	0.16	838.	*	2	JAN	0045	100	0.00	0.00	0.00	2.

TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.87, TOTAL EXCESS = 2.58

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
838.	12.25	162.	162.	50.	48.	48.
		(INCHES)	2.097	2.583	2.583	2.583
		(AC-FT)	80.	99.	99.	99.

CUMULATIVE AREA = 0.72 SQ MI

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\* \*  
254 KK \* 1C \* CNAME 1C  
\* \*  
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255 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

\*\*\*

HYDROGRAPH AT STATION 1C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	4622.	*	1	JAN	1845	76	265.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	4141.	*	1	JAN	1900	77	256.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2923.	*	1	JAN	1915	78	247.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1888.	*	1	JAN	1930	79	239.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	1321.	*	1	JAN	1945	80	230.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	1019.	*	1	JAN	2000	81	221.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	828.	*	1	JAN	2015	82	212.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	704.	*	1	JAN	2030	83	204.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	616.	*	1	JAN	2045	84	198.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	555.	*	1	JAN	2100	85	194.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	513.	*	1	JAN	2115	86	192.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1.	*	1	JAN	1515	62	482.	*	1	JAN	2130	87	190.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	5.	*	1	JAN	1530	63	455.	*	1	JAN	2145	88	188.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	12.	*	1	JAN	1545	64	430.	*	1	JAN	2200	89	186.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	22.	*	1	JAN	1600	65	406.	*	1	JAN	2215	90	184.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	36.	*	1	JAN	1615	66	382.	*	1	JAN	2230	91	183.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	53.	*	1	JAN	1630	67	361.	*	1	JAN	2245	92	181.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	75.	*	1	JAN	1645	68	343.	*	1	JAN	2300	93	179.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	104.	*	1	JAN	1700	69	330.	*	1	JAN	2315	94	178.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	144.	*	1	JAN	1715	70	319.	*	1	JAN	2330	95	176.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	200.	*	1	JAN	1730	71	310.	*	1	JAN	2345	96	174.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	285.	*	1	JAN	1745	72	300.	*	2	JAN	0000	97	172.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	624.	*	1	JAN	1800	73	292.	*	2	JAN	0015	98	156.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	2069.	*	1	JAN	1815	74	283.	*	2	JAN	0030	99	118.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3886.	*	1	JAN	1830	75	274.	*	2	JAN	0045	100	73.	*

PEAK FLOW TIME  
 + (CFS) (HR)  
 + 4622. 12.50  
 (INCHES)  
 (AC-FT)  
 CUMULATIVE AREA = 5.36 SQ MI

\*\*\*

\*\*\*\*\*  
 \* \*  
 257 KK 1C \* CNAME 1C  
 \* \*  
 \*\*\*\*\*

258 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

259 RN NO ROUTING

\*\*\*

HYDROGRAPH AT STATION 1C

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	4622.	*	1	JAN	1845	76	265.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	4141.	*	1	JAN	1900	77	256.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2923.	*	1	JAN	1915	78	247.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1888.	*	1	JAN	1930	79	239.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	1321.	*	1	JAN	1945	80	230.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	1019.	*	1	JAN	2000	81	221.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	828.	*	1	JAN	2015	82	212.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	704.	*	1	JAN	2030	83	204.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	616.	*	1	JAN	2045	84	198.	*



		100yr.out												
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	555.	*	1 JAN 2100	85	194.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	513.	*	1 JAN 2115	86	192.
1 JAN 0245	12	0.	*	1 JAN 0900	37	1.	*	1 JAN 1515	62	482.	*	1 JAN 2130	87	190.
1 JAN 0300	13	0.	*	1 JAN 0915	38	5.	*	1 JAN 1530	63	455.	*	1 JAN 2145	88	188.
1 JAN 0315	14	0.	*	1 JAN 0930	39	12.	*	1 JAN 1545	64	430.	*	1 JAN 2200	89	186.
1 JAN 0330	15	0.	*	1 JAN 0945	40	22.	*	1 JAN 1600	65	406.	*	1 JAN 2215	90	184.
1 JAN 0345	16	0.	*	1 JAN 1000	41	36.	*	1 JAN 1615	66	382.	*	1 JAN 2230	91	183.
1 JAN 0400	17	0.	*	1 JAN 1015	42	53.	*	1 JAN 1630	67	361.	*	1 JAN 2245	92	181.
1 JAN 0415	18	0.	*	1 JAN 1030	43	75.	*	1 JAN 1645	68	343.	*	1 JAN 2300	93	179.
1 JAN 0430	19	0.	*	1 JAN 1045	44	104.	*	1 JAN 1700	69	330.	*	1 JAN 2315	94	178.
1 JAN 0445	20	0.	*	1 JAN 1100	45	144.	*	1 JAN 1715	70	319.	*	1 JAN 2330	95	176.
1 JAN 0500	21	0.	*	1 JAN 1115	46	200.	*	1 JAN 1730	71	310.	*	1 JAN 2345	96	174.
1 JAN 0515	22	0.	*	1 JAN 1130	47	285.	*	1 JAN 1745	72	300.	*	2 JAN 0000	97	172.
1 JAN 0530	23	0.	*	1 JAN 1145	48	624.	*	1 JAN 1800	73	292.	*	2 JAN 0015	98	156.
1 JAN 0545	24	0.	*	1 JAN 1200	49	2069.	*	1 JAN 1815	74	283.	*	2 JAN 0030	99	118.
1 JAN 0600	25	0.	*	1 JAN 1215	50	3886.	*	1 JAN 1830	75	274.	*	2 JAN 0045	100	73.

\*\*\*\*\*

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
4622.	12.50	1230.	379.	367.	367.
		(INCHES) 2.132	2.627	2.627	2.627
		(AC-FT) 610.	751.	751.	751.

CUMULATIVE AREA = 5.36 SQ MI

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT								
+	5bB	786.	12.25	173.	53.	52.	0.72		
+	HYDROGRAPH AT								
+	5aB	725.	12.25	145.	45.	43.	0.60		
+	2 COMBINED AT								
+	5C	1511.	12.25	318.	98.	95.	1.32		
+	ROUTED TO								
+	5R	1394.	12.50	318.	98.	95.	1.32		
+	HYDROGRAPH AT								
+	4aB	1004.	12.25	205.	63.	61.	0.88		
+	HYDROGRAPH AT								
+	4bB	628.	12.25	134.	41.	40.	0.60		
+	3 COMBINED AT								
+	4C	2872.	12.25	656.	202.	196.	2.80		
+	ROUTED TO								
+	4R	2854.	12.50	656.	202.	196.	2.80		
+	HYDROGRAPH AT								
+	3B	1291.	12.25	256.	79.	76.	1.13		
+	2 COMBINED AT								
+	3C	3722.	12.50	912.	281.	273.	3.93		
+	ROUTED TO								
+	3R	3841.	12.50	912.	281.	272.	3.93		
+	HYDROGRAPH AT								
+	2B	800.	12.00	157.	48.	47.	0.71		
+	2 COMBINED AT								
+	2C	4255.	12.50	1068.	329.	319.	4.64		
+	ROUTED TO								
+	2R	4139.	12.50	1068.	329.	319.	4.64		
+	HYDROGRAPH AT								
+	1B	838.	12.25	162.	50.	48.	0.72		
+	2 COMBINED AT								
+	1C	4622.	12.50	1230.	379.	367.	5.36		
+	ROUTED TO								
+	1C	4622.	12.50	1230.	379.	367.	5.36		

\*\*\* NORMAL END OF HEC-1 \*\*\*

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
*****
    
```

```

*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
*****
    
```

```

X X XXXXXXX XXXXX X
X X X X X XX
X X X X X
XXXXXXXX XXXX X XXXXX X
X X X X X
X X X X X
X X XXXXXXX XXXXX XXX
    
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION

NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID Seng Creek
2 ID w Mining & wo Logging (Scenario 2), LIDAR Data
3 ID Storm Event
*DIAGRAM
4 IT 15 1JAN94 0 100
5 IO 0
* Gage XY Position 456107.00000 4205261.00000 1
6 PG Gage 3.9
7 IN 15 1JAN94 0
*Seng Rainfall Distribution
8 PC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.125
9 PC 0.15 0.175 0.2 0.225 0.25 0.275 0.3 0.325 0.35 0.375
10 PC 0.4 0.5875 0.775 0.9625 1.15 1.2125 1.275 1.3375 1.4 1.525
11 PC 1.65 1.775 1.9 2.275 2.65 3.025 3.4 3.525 3.65 3.775
12 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
13 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
14 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
15 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
16 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
17 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
18 KK 5bB
19 KO 0 0 0.0 1 22
20 BA 0.7209
21 PR Gage
22 PW 1.0
23 PT Gage
24 PW 0.723
25 LS 0.0 73.87 0.0
26 UD 0.4104
27 KK 5aB
28 KO 0 0 0.0 1 22
29 BA 0.6039
30 PR Gage
31 PW 1.0
32 PT Gage
33 PW 0.723
34 LS 0.0 72.51 0.0
35 UD 0.344
36 KK 5C CNAME 5R
37 KO 0 0 0.0 0 22
38 HC 2
39 KK 5R CNAME 5C
40 KO 0 0 0.0 0 22
41 RM 1 0.124 0.2
42 KK 4aB
43 KO 0 0 0.0 1 22
44 BA 0.8767
45 PR Gage
46 PW 1.0
47 PT Gage
    
```

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
48 PW 0.723
    
```

LINE	TYPE	VALUE	NAME	VALUE	NAME	VALUE	NAME
49	LS	0.0	70.52	0.0			Event.out
50	UD	0.358					
51	KK	4bB					
52	KO	0	0	0.0	1	22	
53	BA	0.6014					
54	PR	Gage					
55	PW	1.0					
56	PT	Gage					
57	PW	0.723					
58	LS	0.0	71.15	0.0			
59	UD	0.383					
60	KK	4C	CNAME	4R			
61	KO	0	0	0.0	0	22	
62	HC	3					
63	KK	4R	CNAME	4C			
64	KO	0	0	0.0	0	22	
65	RM	1	0.112	0.2			
66	KK	3B					
67	KO	0	0	0.0	1	22	
68	BA	1.1321					
69	PR	Gage					
70	PW	1.0					
71	PT	Gage					
72	PW	0.723					
73	LS	0.0	70.75	0.0			
74	UD	0.3323					
75	KK	3C	CNAME	3R			
76	KO	0	0	0.0	0	22	
77	HC	2					
78	KK	3R	CNAME	3C			
79	KO	0	0	0.0	0	22	
80	RM	1	0.081	0.2			
81	KK	2B					
82	KO	0	0	0.0	1	22	
83	BA	0.7082					
84	PR	Gage					
85	PW	1.0					
86	PT	Gage					
87	PW	0.723					
88	LS	0.0	70.88	0.0			
89	UD	0.2379					

HEC-1 INPUT

PAGE 3

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

90	KK	2C	CNAME	2R			
91	KO	0	0	0.0	0	22	
92	HC	2					
93	KK	2R	CNAME	2C			
94	KO	0	0	0.0	0	22	
95	RM	1	0.119	0.2			
96	KK	1B					
97	KO	0	0	0.0	1	22	
98	BA	0.7193					
99	PR	Gage					
100	PW	1.0					
101	PT	Gage					
102	PW	0.723					
103	LS	0.0	71.15	0.0			
104	UD	0.2797					
105	KK	1C	CNAME	1C			
106	KO	0	0	0.0	0	22	
107	HC	2					
108	KK	1C	CNAME	1C			
109	KO	0	0	0.0	0	22	
110	RN	1C					
111	ZZ						

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW  
 NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

```

18      5bB
      .
27      .      5aB
      .
36      5C.....
      V
39      V
      5R
      .
      .
  
```

```

42      .          4aB
      .
      .
51      .          .          4bB
      .
      .
60      4C.....
      V
      V
63      4R
      .
      .
66      .          3B
      .
      .
75      3C.....
      V
      V
78      3R
      .
      .
81      .          2B
      .
      .
90      2C.....
      V
      V
93      2R
      .
      .
96      .          1B
      .
      .
105     1C.....
      V
      V
108     1C

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE TIME *
*
*****

```

```

*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
*
*****

```

Seng Creek  
w Mining & wo Logging (Scenario 2), LIDAR Data  
Storm Event

```

5 IO      OUTPUT CONTROL VARIABLES
          IPRNT      0 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE

7 IN      TIME DATA FOR INPUT TIME SERIES
          JXMIN      15 TIME INTERVAL IN MINUTES
          JXDATE     1JAN94 STARTING DATE
          JXTIME      0 STARTING TIME

IT        HYDROGRAPH TIME DATA
          NMIN       15 MINUTES IN COMPUTATION INTERVAL
          IDATE      1JAN94 STARTING DATE
          ITIME      0000 STARTING TIME
          NQ         100 NUMBER OF HYDROGRAPH ORDINATES
          NDDATE     2JAN94 ENDING DATE
          NDTIME     0045 ENDING TIME
          ICENT      19 CENTURY MARK

          COMPUTATION INTERVAL 0.25 HOURS
          TOTAL TIME BASE 24.75 HOURS

```

ENGLISH UNITS

```

DRAINAGE AREA      SQUARE MILES
PRECIPITATION DEPTH INCHES
LENGTH, ELEVATION  FEET
FLOW               CUBIC FEET PER SECOND
STORAGE VOLUME    ACRE-FEET
SURFACE AREA      ACRES
TEMPERATURE        DEGREES FAHRENHEIT

```

\*\*\* \*\*

```

*****
*
18 KK    *          5bB *
          *          *
          *          *
*****

```

19 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

20 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

23 PT TOTAL STORM STATIONS Gage  
 24 PW WEIGHTS 0.72

21 PR RECORDING STATIONS Gage  
 22 PW WEIGHTS 1.00

25 LS SCS LOSS RATE  
 STRTL 0.71 INITIAL ABSTRACTION  
 CRVNBR 73.87 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

26 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.41 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	3.90	0.00	0.72

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT = 1.00								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.03	
0.02	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03	
0.19	0.19	0.19	0.19	0.06	0.06	0.06	0.06	0.12	0.12	
0.12	0.12	0.38	0.38	0.38	0.38	0.12	0.12	0.12	0.12	

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES

273.	649.	509.	228.	109.	50.	24.	11.	6.	2.
------	------	------	------	------	-----	-----	-----	----	----

\*\*\*\*\*

HYDROGRAPH AT STATION 5bB

\*\*\*\*\*

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.10	0.10	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.17	0.02	5.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.16	0.03	20.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	33.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.02	33.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.02	31.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.04	0.02	31.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.08	0.04	38.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.08	0.04	55.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.08	0.05	70.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.07	0.05	82.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.19	0.18	125.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.17	0.21	220.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.15	0.23	310.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.13	0.25	372.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.04	0.09	371.	*	1	JAN	2145	88	0.00	0.00	0.00	0.

										Event.out			
1 JAN 0930	39	0.12	0.04	0.09	291.	*	1 JAN 2200	89	0.00	0.00	0.00	0.	
1 JAN 0945	40	0.12	0.04	0.09	221.	*	1 JAN 2215	90	0.00	0.00	0.00	0.	
1 JAN 1000	41	0.12	0.04	0.09	191.	*	1 JAN 2230	91	0.00	0.00	0.00	0.	
1 JAN 1015	42	0.00	0.00	0.00	154.	*	1 JAN 2245	92	0.00	0.00	0.00	0.	
1 JAN 1030	43	0.00	0.00	0.00	90.	*	1 JAN 2300	93	0.00	0.00	0.00	0.	
1 JAN 1045	44	0.00	0.00	0.00	41.	*	1 JAN 2315	94	0.00	0.00	0.00	0.	
1 JAN 1100	45	0.00	0.00	0.00	19.	*	1 JAN 2330	95	0.00	0.00	0.00	0.	
1 JAN 1115	46	0.00	0.00	0.00	9.	*	1 JAN 2345	96	0.00	0.00	0.00	0.	
1 JAN 1130	47	0.00	0.00	0.00	4.	*	2 JAN 0000	97	0.00	0.00	0.00	0.	
1 JAN 1145	48	0.00	0.00	0.00	2.	*	2 JAN 0015	98	0.00	0.00	0.00	0.	
1 JAN 1200	49	0.00	0.00	0.00	1.	*	2 JAN 0030	99	0.00	0.00	0.00	0.	
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.	

\*\*\*\*\*

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.39, TOTAL EXCESS = 1.51

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
372.	9.00	117.	29.	28.	28.	
		(INCHES)	1.512	1.514	1.514	1.514
		(AC-FT)	58.	58.	58.	58.
CUMULATIVE AREA =			0.72 SQ MI			

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 \* \*  
 27 KK \* 5aB \*  
 \* \*  
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28 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

29 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

32 PT TOTAL STORM STATIONS Gage  
 33 PW WEIGHTS 0.72

30 PR RECORDING STATIONS Gage  
 31 PW WEIGHTS 1.00

34 LS SCS LOSS RATE  
 STRTL 0.76 INITIAL ABSTRACTION  
 CRVNR 72.51 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

35 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.34 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	3.90	0.00	0.72

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.03		
0.02	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03		
0.19	0.19	0.19	0.19	0.06	0.06	0.06	0.06	0.06	0.12	0.12	
0.12	0.12	0.38	0.38	0.38	0.38	0.12	0.12	0.12	0.12	0.12	

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 334. 624. 352. 145. 61. 25. 11. 5. 1.

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HYDROGRAPH AT STATION 5aB

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DA MON HRMN ORD RAIN LOSS EXCESS COMP Q \* DA MON HRMN ORD RAIN LOSS EXCESS COMP Q

Event.out

1 JAN 0000	1	0.00	0.00	0.00	0.	*	1 JAN 1230	51	0.00	0.00	0.00	0.
1 JAN 0015	2	0.00	0.00	0.00	0.	*	1 JAN 1245	52	0.00	0.00	0.00	0.
1 JAN 0030	3	0.00	0.00	0.00	0.	*	1 JAN 1300	53	0.00	0.00	0.00	0.
1 JAN 0045	4	0.00	0.00	0.00	0.	*	1 JAN 1315	54	0.00	0.00	0.00	0.
1 JAN 0100	5	0.00	0.00	0.00	0.	*	1 JAN 1330	55	0.00	0.00	0.00	0.
1 JAN 0115	6	0.00	0.00	0.00	0.	*	1 JAN 1345	56	0.00	0.00	0.00	0.
1 JAN 0130	7	0.00	0.00	0.00	0.	*	1 JAN 1400	57	0.00	0.00	0.00	0.
1 JAN 0145	8	0.00	0.00	0.00	0.	*	1 JAN 1415	58	0.00	0.00	0.00	0.
1 JAN 0200	9	0.10	0.10	0.00	0.	*	1 JAN 1430	59	0.00	0.00	0.00	0.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.00	0.00	0.00	0.
1 JAN 0230	11	0.03	0.03	0.00	0.	*	1 JAN 1500	61	0.00	0.00	0.00	0.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.00	0.00	0.00	0.
1 JAN 0300	13	0.03	0.03	0.00	0.	*	1 JAN 1530	63	0.00	0.00	0.00	0.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.00	0.00	0.00	0.
1 JAN 0330	15	0.03	0.03	0.00	0.	*	1 JAN 1600	65	0.00	0.00	0.00	0.
1 JAN 0345	16	0.03	0.03	0.00	0.	*	1 JAN 1615	66	0.00	0.00	0.00	0.
1 JAN 0400	17	0.03	0.03	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.
1 JAN 0430	19	0.03	0.03	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.
1 JAN 0445	20	0.03	0.03	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.
1 JAN 0500	21	0.03	0.03	0.00	0.	*	1 JAN 1730	71	0.00	0.00	0.00	0.
1 JAN 0515	22	0.19	0.19	0.00	0.	*	1 JAN 1745	72	0.00	0.00	0.00	0.
1 JAN 0530	23	0.19	0.19	0.00	0.	*	1 JAN 1800	73	0.00	0.00	0.00	0.
1 JAN 0545	24	0.19	0.18	0.01	4.	*	1 JAN 1815	74	0.00	0.00	0.00	0.
1 JAN 0600	25	0.19	0.16	0.03	15.	*	1 JAN 1830	75	0.00	0.00	0.00	0.
1 JAN 0615	26	0.06	0.05	0.01	24.	*	1 JAN 1845	76	0.00	0.00	0.00	0.
1 JAN 0630	27	0.06	0.05	0.01	23.	*	1 JAN 1900	77	0.00	0.00	0.00	0.
1 JAN 0645	28	0.06	0.05	0.01	22.	*	1 JAN 1915	78	0.00	0.00	0.00	0.
1 JAN 0700	29	0.06	0.05	0.02	23.	*	1 JAN 1930	79	0.00	0.00	0.00	0.
1 JAN 0715	30	0.12	0.09	0.04	31.	*	1 JAN 1945	80	0.00	0.00	0.00	0.
1 JAN 0730	31	0.12	0.08	0.04	45.	*	1 JAN 2000	81	0.00	0.00	0.00	0.
1 JAN 0745	32	0.12	0.08	0.05	57.	*	1 JAN 2015	82	0.00	0.00	0.00	0.
1 JAN 0800	33	0.12	0.08	0.05	66.	*	1 JAN 2030	83	0.00	0.00	0.00	0.
1 JAN 0815	34	0.38	0.21	0.17	112.	*	1 JAN 2045	84	0.00	0.00	0.00	0.
1 JAN 0830	35	0.38	0.18	0.20	199.	*	1 JAN 2100	85	0.00	0.00	0.00	0.
1 JAN 0845	36	0.38	0.16	0.22	266.	*	1 JAN 2115	86	0.00	0.00	0.00	0.
1 JAN 0900	37	0.38	0.14	0.24	314.	*	1 JAN 2130	87	0.00	0.00	0.00	0.
1 JAN 0915	38	0.12	0.04	0.08	293.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.12	0.04	0.08	212.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.12	0.04	0.09	165.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.12	0.04	0.09	147.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	111.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	54.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	22.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	9.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	4.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	1.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	1.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.48, TOTAL EXCESS = 1.42

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)					
+	314.	9.00	92.	23.	22.	22.	22.
+			(INCHES)	1.423	1.424	1.424	1.424
			(AC-FT)	46.	46.	46.	46.

CUMULATIVE AREA = 0.60 SQ MI

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*****
*      *
36 KK  5C *      CNAME  5R
*      *
*****
    
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37 KO  OUTPUT CONTROL VARIABLES
      IPRNT  0 PRINT CONTROL
      IPLOT  0 PLOT CONTROL
      QSCAL  0. HYDROGRAPH PLOT SCALE
      IPNCH  0 PUNCH COMPUTED HYDROGRAPH
      IOUT   22 SAVE HYDROGRAPH ON THIS UNIT
      ISAV1  1 FIRST ORDINATE PUNCHED OR SAVED
      ISAV2  100 LAST ORDINATE PUNCHED OR SAVED
      TIMINT 0.250 TIME INTERVAL IN HOURS
    
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38 HC  HYDROGRAPH COMBINATION
      ICOMP  2 NUMBER OF HYDROGRAPHS TO COMBINE
    
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HYDROGRAPH AT STATION 5C  
SUM OF 2 HYDROGRAPHS

Event.out

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*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
1 JAN 0000 1 0. * 1 JAN 0615 26 57. * 1 JAN 1230 51 0. * 1 JAN 1845 76 0.
1 JAN 0015 2 0. * 1 JAN 0630 27 56. * 1 JAN 1245 52 0. * 1 JAN 1900 77 0.
1 JAN 0030 3 0. * 1 JAN 0645 28 53. * 1 JAN 1300 53 0. * 1 JAN 1915 78 0.
1 JAN 0045 4 0. * 1 JAN 0700 29 54. * 1 JAN 1315 54 0. * 1 JAN 1930 79 0.
1 JAN 0100 5 0. * 1 JAN 0715 30 69. * 1 JAN 1330 55 0. * 1 JAN 1945 80 0.
1 JAN 0115 6 0. * 1 JAN 0730 31 100. * 1 JAN 1345 56 0. * 1 JAN 2000 81 0.
1 JAN 0130 7 0. * 1 JAN 0745 32 128. * 1 JAN 1400 57 0. * 1 JAN 2015 82 0.
1 JAN 0145 8 0. * 1 JAN 0800 33 148. * 1 JAN 1415 58 0. * 1 JAN 2030 83 0.
1 JAN 0200 9 0. * 1 JAN 0815 34 237. * 1 JAN 1430 59 0. * 1 JAN 2045 84 0.
1 JAN 0215 10 0. * 1 JAN 0830 35 418. * 1 JAN 1445 60 0. * 1 JAN 2100 85 0.
1 JAN 0230 11 0. * 1 JAN 0845 36 576. * 1 JAN 1500 61 0. * 1 JAN 2115 86 0.
1 JAN 0245 12 0. * 1 JAN 0900 37 686. * 1 JAN 1515 62 0. * 1 JAN 2130 87 0.
1 JAN 0300 13 0. * 1 JAN 0915 38 664. * 1 JAN 1530 63 0. * 1 JAN 2145 88 0.
1 JAN 0315 14 0. * 1 JAN 0930 39 502. * 1 JAN 1545 64 0. * 1 JAN 2200 89 0.
1 JAN 0330 15 0. * 1 JAN 0945 40 386. * 1 JAN 1600 65 0. * 1 JAN 2215 90 0.
1 JAN 0345 16 0. * 1 JAN 1000 41 338. * 1 JAN 1615 66 0. * 1 JAN 2230 91 0.
1 JAN 0400 17 0. * 1 JAN 1015 42 265. * 1 JAN 1630 67 0. * 1 JAN 2245 92 0.
1 JAN 0415 18 0. * 1 JAN 1030 43 144. * 1 JAN 1645 68 0. * 1 JAN 2300 93 0.
1 JAN 0430 19 0. * 1 JAN 1045 44 63. * 1 JAN 1700 69 0. * 1 JAN 2315 94 0.
1 JAN 0445 20 0. * 1 JAN 1100 45 28. * 1 JAN 1715 70 0. * 1 JAN 2330 95 0.
1 JAN 0500 21 0. * 1 JAN 1115 46 12. * 1 JAN 1730 71 0. * 1 JAN 2345 96 0.
1 JAN 0515 22 0. * 1 JAN 1130 47 5. * 1 JAN 1745 72 0. * 2 JAN 0000 97 0.
1 JAN 0530 23 0. * 1 JAN 1145 48 2. * 1 JAN 1800 73 0. * 2 JAN 0015 98 0.
1 JAN 0545 24 9. * 1 JAN 1200 49 1. * 1 JAN 1815 74 0. * 2 JAN 0030 99 0.
1 JAN 0600 25 35. * 1 JAN 1215 50 0. * 1 JAN 1830 75 0. * 2 JAN 0045 100 0.
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PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR
+ 686. 9.00 (CFS) 210. 52. 51. 51.
(INCHES) 1.471 1.473 1.473 1.473
(AC-FT) 104. 104. 104. 104.
CUMULATIVE AREA = 1.32 SQ MI

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*****
39 KK * 5R * CNAME 5C
* *
*****

40 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPILOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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41 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.12 MUSKINGUM K
X 0.20 MUSKINGUM X

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***** WARNING ***** POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 5R

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*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
1 JAN 0000 1 0. * 1 JAN 0615 26 46. * 1 JAN 1230 51 0. * 1 JAN 1845 76 0.
1 JAN 0015 2 0. * 1 JAN 0630 27 58. * 1 JAN 1245 52 0. * 1 JAN 1900 77 0.
1 JAN 0030 3 0. * 1 JAN 0645 28 54. * 1 JAN 1300 53 0. * 1 JAN 1915 78 0.
1 JAN 0045 4 0. * 1 JAN 0700 29 53. * 1 JAN 1315 54 0. * 1 JAN 1930 79 0.
1 JAN 0100 5 0. * 1 JAN 0715 30 61. * 1 JAN 1330 55 0. * 1 JAN 1945 80 0.
1 JAN 0115 6 0. * 1 JAN 0730 31 84. * 1 JAN 1345 56 0. * 1 JAN 2000 81 0.
1 JAN 0130 7 0. * 1 JAN 0745 32 114. * 1 JAN 1400 57 0. * 1 JAN 2015 82 0.
1 JAN 0145 8 0. * 1 JAN 0800 33 138. * 1 JAN 1415 58 0. * 1 JAN 2030 83 0.
1 JAN 0200 9 0. * 1 JAN 0815 34 189. * 1 JAN 1430 59 0. * 1 JAN 2045 84 0.
1 JAN 0215 10 0. * 1 JAN 0830 35 324. * 1 JAN 1445 60 0. * 1 JAN 2100 85 0.
1 JAN 0230 11 0. * 1 JAN 0845 36 500. * 1 JAN 1500 61 0. * 1 JAN 2115 86 0.
1 JAN 0245 12 0. * 1 JAN 0900 37 634. * 1 JAN 1515 62 0. * 1 JAN 2130 87 0.
1 JAN 0300 13 0. * 1 JAN 0915 38 682. * 1 JAN 1530 63 0. * 1 JAN 2145 88 0.
1 JAN 0315 14 0. * 1 JAN 0930 39 590. * 1 JAN 1545 64 0. * 1 JAN 2200 89 0.
1 JAN 0330 15 0. * 1 JAN 0945 40 440. * 1 JAN 1600 65 0. * 1 JAN 2215 90 0.
*****

```



```

Event.out
1 JAN 0345 16 0. * 1 JAN 1000 41 358. * 1 JAN 1615 66 0. * 1 JAN 2230 91*****
1 JAN 0400 17 0. * 1 JAN 1015 42 303. * 1 JAN 1630 67 0. * 1 JAN 2245 92*****
1 JAN 0415 18 0. * 1 JAN 1030 43 206. * 1 JAN 1645 68 0. * 1 JAN 2300 93*****
1 JAN 0430 19 0. * 1 JAN 1045 44 101. * 1 JAN 1700 69 0. * 1 JAN 2315 94*****
1 JAN 0445 20 0. * 1 JAN 1100 45 43. * 1 JAN 1715 70 0. * 1 JAN 2330 95*****
1 JAN 0500 21 0. * 1 JAN 1115 46 19. * 1 JAN 1730 71 0. * 1 JAN 2345 96*****
1 JAN 0515 22 0. * 1 JAN 1130 47 8. * 1 JAN 1745 72 0. * 2 JAN 0000 97*****
1 JAN 0530 23 0. * 1 JAN 1145 48 4. * 1 JAN 1800 73 0. * 2 JAN 0015 98 0.
1 JAN 0545 24 4. * 1 JAN 1200 49 1. * 1 JAN 1815 74 0. * 2 JAN 0030 99 0.
1 JAN 0600 25 21. * 1 JAN 1215 50 0. * 1 JAN 1830 75 0. * 2 JAN 0045 100 0.

```

```

*****
PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)      (HR)      6-HR      24-HR      72-HR      24.75-HR
+ 682.      9.25      (CFS)      210.      52.      51.      51.
              (INCHES)  1.471     1.473     1.473     1.473
              (AC-FT)  104.      104.      104.      104.
              CUMULATIVE AREA = 1.32 SQ MI

```

\*\*\* \*\* \*\* \*\* \*\*

```

*****
*          *
42 KK      *      4aB *
*          *
*****

```

```

43 KO      OUTPUT CONTROL VARIABLES
           IPRNT      0      PRINT CONTROL
           IPLOT      0      PLOT CONTROL
           QSCAL      0.      HYDROGRAPH PLOT SCALE
           IPNCH      1      PUNCH COMPUTED HYDROGRAPH
           IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
           ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
           ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
           TIMINT     0.250  TIME INTERVAL IN HOURS

```

```

SUBBASIN RUNOFF DATA
44 BA      SUBBASIN CHARACTERISTICS
           TAREA,    0.88  SUBBASIN AREA

```

```

PRECIPITATION DATA
47 PT      TOTAL STORM STATIONS      Gage
48 PW      WEIGHTS                    0.72
45 PR      RECORDING STATIONS      Gage
46 PW      WEIGHTS                    1.00

```

```

49 LS      SCS LOSS RATE
           STRTL     0.84  INITIAL ABSTRACTION
           CRVNBR    70.52  CURVE NUMBER
           RTIMP     0.00  PERCENT IMPERVIOUS AREA

```

```

50 UD      SCS DIMENSIONLESS UNITGRAPH
           TLAG     0.36  LAG

```

\*\*\*

```

PRECIPITATION STATION DATA
           STATION  TOTAL  AVG. ANNUAL  WEIGHT
           Gage    3.90   0.00         0.72

```

```

TEMPORAL DISTRIBUTIONS
           STATION  Gage, WEIGHT = 1.00
           0.00    0.00   0.00   0.00   0.00   0.00   0.00   0.10   0.02   0.03
           0.02    0.03   0.02   0.03   0.03   0.03   0.02   0.03   0.03   0.03
           0.19    0.19   0.19   0.19   0.06   0.06   0.06   0.06   0.12   0.12
           0.12    0.12   0.38   0.38   0.38   0.38   0.12   0.12   0.12   0.12

```

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

```

UNIT HYDROGRAPH
9 END-OF-PERIOD ORDINATES
445.      881.      545.      225.      97.      42.      18.      8.      3.

```

\*\*\*\*\*

HYDROGRAPH AT STATION 4aB

```

*****
*          *
DA MON HRMN ORD RAIN LOSS EXCESS COMP Q      *          *
*          *
1 JAN 0000 1 0.00 0.00 0.00 0.  *          *
1 JAN 0015 2 0.00 0.00 0.00 0.  *          *
1 JAN 0030 3 0.00 0.00 0.00 0.  *          *
1 JAN 1230 51 0.00 0.00 0.00 0.  *          *
1 JAN 1245 52 0.00 0.00 0.00 0.  *          *
1 JAN 1300 53 0.00 0.00 0.00 0.  *          *

```

Event.out												
1 JAN 0045	4	0.00	0.00	0.00	0.	*	1 JAN 1315	54	0.00	0.00	0.00	0.
1 JAN 0100	5	0.00	0.00	0.00	0.	*	1 JAN 1330	55	0.00	0.00	0.00	0.
1 JAN 0115	6	0.00	0.00	0.00	0.	*	1 JAN 1345	56	0.00	0.00	0.00	0.
1 JAN 0130	7	0.00	0.00	0.00	0.	*	1 JAN 1400	57	0.00	0.00	0.00	0.
1 JAN 0145	8	0.00	0.00	0.00	0.	*	1 JAN 1415	58	0.00	0.00	0.00	0.
1 JAN 0200	9	0.10	0.10	0.00	0.	*	1 JAN 1430	59	0.00	0.00	0.00	0.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.00	0.00	0.00	0.
1 JAN 0230	11	0.03	0.03	0.00	0.	*	1 JAN 1500	61	0.00	0.00	0.00	0.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.00	0.00	0.00	0.
1 JAN 0300	13	0.03	0.03	0.00	0.	*	1 JAN 1530	63	0.00	0.00	0.00	0.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.00	0.00	0.00	0.
1 JAN 0330	15	0.03	0.03	0.00	0.	*	1 JAN 1600	65	0.00	0.00	0.00	0.
1 JAN 0345	16	0.03	0.03	0.00	0.	*	1 JAN 1615	66	0.00	0.00	0.00	0.
1 JAN 0400	17	0.03	0.03	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.
1 JAN 0430	19	0.03	0.03	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.
1 JAN 0445	20	0.03	0.03	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.
1 JAN 0500	21	0.03	0.03	0.00	0.	*	1 JAN 1730	71	0.00	0.00	0.00	0.
1 JAN 0515	22	0.19	0.19	0.00	0.	*	1 JAN 1745	72	0.00	0.00	0.00	0.
1 JAN 0530	23	0.19	0.19	0.00	0.	*	1 JAN 1800	73	0.00	0.00	0.00	0.
1 JAN 0545	24	0.19	0.18	0.00	2.	*	1 JAN 1815	74	0.00	0.00	0.00	0.
1 JAN 0600	25	0.19	0.17	0.02	11.	*	1 JAN 1830	75	0.00	0.00	0.00	0.
1 JAN 0615	26	0.06	0.05	0.01	22.	*	1 JAN 1845	76	0.00	0.00	0.00	0.
1 JAN 0630	27	0.06	0.05	0.01	24.	*	1 JAN 1900	77	0.00	0.00	0.00	0.
1 JAN 0645	28	0.06	0.05	0.01	24.	*	1 JAN 1915	78	0.00	0.00	0.00	0.
1 JAN 0700	29	0.06	0.05	0.01	26.	*	1 JAN 1930	79	0.00	0.00	0.00	0.
1 JAN 0715	30	0.12	0.09	0.03	36.	*	1 JAN 1945	80	0.00	0.00	0.00	0.
1 JAN 0730	31	0.12	0.09	0.04	54.	*	1 JAN 2000	81	0.00	0.00	0.00	0.
1 JAN 0745	32	0.12	0.09	0.04	70.	*	1 JAN 2015	82	0.00	0.00	0.00	0.
1 JAN 0800	33	0.12	0.08	0.04	82.	*	1 JAN 2030	83	0.00	0.00	0.00	0.
1 JAN 0815	34	0.38	0.22	0.15	140.	*	1 JAN 2045	84	0.00	0.00	0.00	0.
1 JAN 0830	35	0.38	0.19	0.18	252.	*	1 JAN 2100	85	0.00	0.00	0.00	0.
1 JAN 0845	36	0.38	0.17	0.20	348.	*	1 JAN 2115	86	0.00	0.00	0.00	0.
1 JAN 0900	37	0.38	0.15	0.22	418.	*	1 JAN 2130	87	0.00	0.00	0.00	0.
1 JAN 0915	38	0.12	0.05	0.08	400.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.12	0.05	0.08	296.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.12	0.04	0.08	229.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.12	0.04	0.08	204.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	157.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	80.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	34.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	14.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	6.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	2.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	1.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.60, TOTAL EXCESS = 1.30

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
+	418.	122.	31.	30.	30.
+	9.00	(INCHES) 1.295	1.296	1.296	1.296
		(AC-FT) 61.	61.	61.	61.

CUMULATIVE AREA = 0.88 SQ MI

\*\*\* \*\*

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 \* \*  
 51 KK 4bB \*  
 \* \*  
 \*\*\*\*\*

52 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

53 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

56 PT TOTAL STORM STATIONS Gage  
 57 PW WEIGHTS 0.72

54 PR RECORDING STATIONS Gage  
 55 PW WEIGHTS 1.00

58 LS SCS LOSS RATE

STRTL 0.81 INITIAL ABSTRACTION  
CRVNBR 71.15 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

Event.out

59 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.38 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
Gage 3.90 0.00 0.72

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.10 0.02 0.03  
0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03 0.03  
0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12 0.12  
0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
10 END-OF-PERIOD ORDINATES

263. 575. 405. 170. 78. 35. 16. 7. 3. 0.

HYDROGRAPH AT STATION 4bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.10	0.10	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.01	1.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.17	0.02	9.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	17.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	18.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	18.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.01	19.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.03	25.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.09	0.04	38.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.08	0.04	49.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.05	58.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.22	0.16	94.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.19	0.19	169.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.17	0.21	238.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.15	0.23	287.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.05	0.08	282.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.04	0.08	215.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.08	165.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.08	145.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	115.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	63.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	27.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	12.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	5.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	2.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	1.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.56, TOTAL EXCESS = 1.34

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR (CFS)	24-HR (INCHES)	72-HR (AC-FT)	24.75-HR (AC-FT)
287.	9.00	86.	1.335	21.	21.
		43.	43.	43.	43.

CUMULATIVE AREA = 0.60 SQ MI Event.out

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\*\*\*\*\*
\* \*
60 KK \* 4C \* CNAME 4R
\* \*
\*\*\*\*\*

61 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

62 HC HYDROGRAPH COMBINATION
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE
\*\*\*

HYDROGRAPH AT STATION 4C
SUM OF 3 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 4 times). Rows list hydrograph data for various dates from 1 JAN 0000 to 1 JAN 0600.

PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR
+ 1364. 9.25 (CFS) 418. 105. 101. 101.
(INCHES) 1.387 1.388 1.388 1.388
(AC-FT) 207. 208. 208. 208.
CUMULATIVE AREA = 2.80 SQ MI

\*\*\* \*\*

\*\*\*\*\*
\* \*
63 KK \* 4R \* CNAME 4C
\* \*
\*\*\*\*\*

64 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

65 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.11 MUSKINGUM K
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 4R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 4 times). Rows show hydrograph data for various dates in January from 0000 to 0600.

Summary statistics table with columns: PEAK FLOW, TIME, 6-HR, MAXIMUM AVERAGE FLOW (24-HR, 72-HR, 24.75-HR). Values include 1369 CFS, 9.25 HR, and various flow rates.

\*\*\* \*\* \*\* \*\* \*\*

66 KK 3B

67 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLST 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

68 BA SUBBASIN CHARACTERISTICS
TAREA, 1.13 SUBBASIN AREA

PRECIPITATION DATA

71 PT TOTAL STORM STATIONS Gage
72 PW WEIGHTS 0.72

69 PR RECORDING STATIONS Gage
70 PW WEIGHTS 1.00

73 LS SCS LOSS RATE
STRTL 0.83 INITIAL ABSTRACTION
CRVNBR 70.75 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

74 UD

SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.33 LAG

Event.out

\*\*\*

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
Gage 3.90 0.00 0.72

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.10 0.02 0.03  
0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03  
0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12  
0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
9 END-OF-PERIOD ORDINATES

673. 1194. 626. 255. 105. 43. 17. 8. 1.

HYDROGRAPH AT STATION 3B

Table with columns: DA MON HRMN ORD RAIN LOSS EXCESS COMP Q, and DA MON HRMN ORD RAIN LOSS EXCESS COMP Q. It contains a detailed hydrograph record for station 3B from 1 JAN 0000 to 1 JAN 1215.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.59, TOTAL EXCESS = 1.31

Table with columns: PEAK FLOW TIME, MAXIMUM AVERAGE FLOW 6-HR 24-HR 72-HR 24.75-HR. It provides peak flow and average flow data in CFS and inches.

CUMULATIVE AREA = 1.13 SQ MI

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75 KK \*\*\*\*\*
\* \*
\* 3C \* CNAME 3R
\* \*
\*\*\*\*\*

76 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

77 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

\*\*\*

HYDROGRAPH AT STATION 3C
SUM OF 2 HYDROGRAPHS

\*\*\*\*\*

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 4 times). Rows list hydrograph data for various dates in January and February, including flow values and station identifiers.

\*\*\*\*\*

Summary table with columns: PEAK FLOW, TIME, 6-HR, MAXIMUM AVERAGE FLOW (24-HR, 72-HR, 24.75-HR). Includes values in CFS and INCHES/AC-FT, and CUMULATIVE AREA = 3.93 SQ MI.

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78 KK \*\*\*\*\*
\* \*
\* 3R \* CNAME 3C
\* \*
\*\*\*\*\*

79 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

80 RM MUSKINGUM ROUTING

Event.out  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.08 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 3R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	78.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	120.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	132.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	132.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	148.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	201.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	277.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	349.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	477.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	793.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1252.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1673.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1880.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1724.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1358.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1073.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	890.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	649.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	361.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	161.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	66.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	29.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	12.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	4.	*	1	JAN	1200	49	5.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	28.	*	1	JAN	1215	50	2.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR					
(CFS)	(HR)	(CFS)	(INCHES)	(AC-FT)							
1880.	9.25	577.	1.364	286.	145.	140.	140.	1.366	287.	287.	287.
CUMULATIVE AREA =		3.93 SQ MI									

\*\*\* \*\*

81 KK 2B

82 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

83 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.71 SUBBASIN AREA

PRECIPITATION DATA

86 PT TOTAL STORM STATIONS Gage  
 87 PW WEIGHTS 0.72  
 84 PR RECORDING STATIONS Gage  
 85 PW WEIGHTS 1.00

88 LS SCS LOSS RATE  
 STRTL 0.82 INITIAL ABSTRACTION  
 CRVNR 70.88 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

89 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.24 LAG

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PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT
Gage 3.90 0.00 0.72

TEMPORAL DISTRIBUTIONS

Table with columns: STATION, Gage, WEIGHT, and 10 numerical values representing temporal distributions.

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH
7 END-OF-PERIOD ORDINATES

742. 737. 236. 77. 25. 9. 2.

HYDROGRAPH AT STATION 2B

Large table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and 8 numerical values. It lists hydrograph data for various dates in January.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.58, TOTAL EXCESS = 1.32

Table with columns: PEAK FLOW, TIME, MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR) and their corresponding values in CFS and inches.

CUMULATIVE AREA = 0.71 SQ MI

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90 KK 2C \* CNAME 2R
\*
\*
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91 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

92 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

\*\*\*

HYDROGRAPH AT STATION 2C
SUM OF 2 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 15 asterisks. It contains a list of hydrograph data points for various dates in January, including flow values and ordinates.

PEAK FLOW TIME MAXIMUM AVERAGE FLOW
(CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR
+ 2171. 9.25 678. 170. 164. 164.
(INCHES) 1.357 1.359 1.359 1.359
(AC-FT) 336. 336. 336. 336.
CUMULATIVE AREA = 4.64 SQ MI

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\*
93 KK 2R \* CNAME 2C
\*
\*
\*\*\*\*\*

94 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

95 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.12 MUSKINGUM K
X 0.20 MUSKINGUM X

Event.out

\*\*\*

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

\*\*\*\*\*

HYDROGRAPH AT STATION 2R

\*\*\*\*\*

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	74.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	123.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	149.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	155.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	169.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	220.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	300.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	386.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	528.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	847.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1328.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1831.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2135.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2059.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1716.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1360.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1097.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	826.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	517.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	255.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	107.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	44.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	19.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	3.	*	1	JAN	1200	49	8.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	25.	*	1	JAN	1215	50	3.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

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PEAK FLOW	TIME		MAXIMUM	AVERAGE FLOW	
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR
2135.	9.25	678.	170.	164.	164.
		(INCHES)	1.357	1.359	1.359
		(AC-FT)	336.	336.	336.

CUMULATIVE AREA = 4.64 SQ MI

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96 KK \* 1B \*  
\* \*  
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97 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

98 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

101 PT TOTAL STORM STATIONS Gage  
102 PW WEIGHTS 0.72

99 PR RECORDING STATIONS Gage  
100 PW WEIGHTS 1.00

103 LS SCS LOSS RATE  
STRTL 0.81 INITIAL ABSTRACTION  
CRVNBR 71.15 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

104 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.28 LAG

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PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT

Gage 3.90 0.00 0.72 Event.out

TEMPORAL DISTRIBUTIONS

Table with 10 columns: STATION, Gage, WEIGHT, and 7 numerical values. Values range from 0.00 to 0.12.

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH 8 END-OF-PERIOD ORDINATES

592. 779. 308. 114. 42. 15. 6. 0.

HYDROGRAPH AT STATION 1B

Hydrograph data table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and 8 numerical values. Includes a vertical asterisk column and two rows of data from 1 JAN 0000 to 2 JAN 0045.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.56, TOTAL EXCESS = 1.34

Summary table with columns: PEAK FLOW, TIME, 6-HR, 24-HR, 72-HR, 24.75-HR. Includes sub-headers for (CFS), (HR), (INCHES), (AC-FT), and CUMULATIVE AREA = 0.72 SQ MI.

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105 KK \* 1C \* CNAME 1C \* \*

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106 KO            OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

107 HC            HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION        1C  
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	97.	*	1	JAN	1230	51	1.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	144.	*	1	JAN	1245	52	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	171.	*	1	JAN	1300	53	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	179.	*	1	JAN	1315	54	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	206.	*	1	JAN	1330	55	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	274.	*	1	JAN	1345	56	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	366.	*	1	JAN	1400	57	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	461.	*	1	JAN	1415	58	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	675.	*	1	JAN	1430	59	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	1100.	*	1	JAN	1445	60	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1652.	*	1	JAN	1500	61	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	2205.	*	1	JAN	1515	62	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2451.	*	1	JAN	1530	63	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2273.	*	1	JAN	1545	64	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1890.	*	1	JAN	1600	65	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1522.	*	1	JAN	1615	66	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1205.	*	1	JAN	1630	67	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	868.	*	1	JAN	1645	68	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	532.	*	1	JAN	1700	69	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	261.	*	1	JAN	1715	70	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	109.	*	1	JAN	1730	71	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	45.	*	1	JAN	1745	72	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	19.	*	1	JAN	1800	73	0.	*
1	JAN	0545	24	7.	*	1	JAN	1200	49	8.	*	1	JAN	1815	74	0.	*
1	JAN	0600	25	42.	*	1	JAN	1215	50	3.	*	1	JAN	1830	75	0.	*

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
+	(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
+	2451.	9.25	781.	195.	190.	190.
			(INCHES)	1.354	1.356	1.356
			(AC-FT)	387.	388.	388.

CUMULATIVE AREA = 5.36 SQ MI

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108 KK            \*            1C            \*            CNAME            1C            \*

\*\*\*\*\*

109 KO            OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

110 RN            NO ROUTING

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HYDROGRAPH AT STATION        1C

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				Event.out																		
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	*	1	JAN	0615	26	97.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.
1	JAN	0015	2	0.	*	1	JAN	0630	27	144.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.
1	JAN	0030	3	0.	*	1	JAN	0645	28	171.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.
1	JAN	0045	4	0.	*	1	JAN	0700	29	179.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.
1	JAN	0100	5	0.	*	1	JAN	0715	30	206.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.
1	JAN	0115	6	0.	*	1	JAN	0730	31	274.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.
1	JAN	0130	7	0.	*	1	JAN	0745	32	366.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.
1	JAN	0145	8	0.	*	1	JAN	0800	33	461.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.
1	JAN	0200	9	0.	*	1	JAN	0815	34	675.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.
1	JAN	0215	10	0.	*	1	JAN	0830	35	1100.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.
1	JAN	0230	11	0.	*	1	JAN	0845	36	1652.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.
1	JAN	0245	12	0.	*	1	JAN	0900	37	2205.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.
1	JAN	0300	13	0.	*	1	JAN	0915	38	2451.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.
1	JAN	0315	14	0.	*	1	JAN	0930	39	2273.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.
1	JAN	0330	15	0.	*	1	JAN	0945	40	1890.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.
1	JAN	0345	16	0.	*	1	JAN	1000	41	1522.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.
1	JAN	0400	17	0.	*	1	JAN	1015	42	1205.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.
1	JAN	0415	18	0.	*	1	JAN	1030	43	868.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.
1	JAN	0430	19	0.	*	1	JAN	1045	44	532.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.
1	JAN	0445	20	0.	*	1	JAN	1100	45	261.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.
1	JAN	0500	21	0.	*	1	JAN	1115	46	109.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.
1	JAN	0515	22	0.	*	1	JAN	1130	47	45.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.
1	JAN	0530	23	0.	*	1	JAN	1145	48	19.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.
1	JAN	0545	24	7.	*	1	JAN	1200	49	8.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.
1	JAN	0600	25	42.	*	1	JAN	1215	50	3.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
2451.	9.25	781.	195.	190.	190.
		(INCHES)	1.354	1.356	1.356
		(AC-FT)	387.	388.	388.
CUMULATIVE AREA =		5.36 SQ MI			

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	5bB	372.	9.00	117.	29.	28.	0.72		
HYDROGRAPH AT	5aB	314.	9.00	92.	23.	22.	0.60		
2 COMBINED AT	5C	686.	9.00	210.	52.	51.	1.32		
ROUTED TO	5R	682.	9.25	210.	52.	51.	1.32		
HYDROGRAPH AT	4aB	418.	9.00	122.	31.	30.	0.88		
HYDROGRAPH AT	4bB	287.	9.00	86.	22.	21.	0.60		
3 COMBINED AT	4C	1364.	9.25	418.	105.	101.	2.80		
ROUTED TO	4R	1369.	9.25	418.	105.	101.	2.80		
HYDROGRAPH AT	3B	557.	9.00	159.	40.	39.	1.13		
2 COMBINED AT	3C	1883.	9.25	578.	145.	140.	3.93		
ROUTED TO	3R	1880.	9.25	577.	145.	140.	3.93		
HYDROGRAPH AT	2B	376.	9.00	100.	25.	24.	0.71		
2 COMBINED AT	2C	2171.	9.25	678.	170.	164.	4.64		
ROUTED TO	2R	2135.	9.25	678.	170.	164.	4.64		
HYDROGRAPH AT	1B	374.	9.00	103.	26.	25.	0.72		
2 COMBINED AT	1C	2451.	9.25	781.	195.	190.	5.36		
ROUTED TO									

+					Event.out		
	1C	2451.	9.25	781.	195.	190.	5.36

\*\*\* NORMAL END OF HEC-1 \*\*\*

1\*\*\*\*\*
\*
\* FLOOD HYDROGRAPH PACKAGE (HEC-1)
\* MAY 1991
\* VERSION 4.0.1E
\*
\* RUN DATE TIME
\*
\*\*\*\*\*

\*\*\*\*\*
\*
\* U.S. ARMY CORPS OF ENGINEERS
\* HYDROLOGIC ENGINEERING CENTER
\* 609 SECOND STREET
\* DAVIS, CALIFORNIA 95616
\* (916) 551-1748
\*
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1G5, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

Table with columns: LINE, ID, and numerical data. Includes entries for Seng Creek, 5bB, and 5aB scenarios with various parameters and a large data matrix.

HEC-1 INPUT

Table with columns: LINE, ID, and numerical data. Continuation of the HEC-1 INPUT data.



25yr.out

51	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
52	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
53	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
54	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
55	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
56	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
57	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
58	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
59	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
60	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
61	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
62	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
63	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
64	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
65	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
66	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
67	PC	1.0									
68	LS	0.0	72.51	0.0							
69	UD	0.344									
70	KK	5C	CNAME	5R							
71	KO	0	0	0.0	0	22					
72	HC	2									
73	KK	5R	CNAME	5C							
74	KO	0	0	0.0	0	22					
75	RM	1	0.124	0.2							
76	KK	4aB									
77	KO	0	0	0.0	1	22					
78	BA	0.8767									
79	PB	4.65									
80	IN	6	1JAN94	0							
			* typeII-24hour								
81	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
82	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
83	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
84	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
85	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
86	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
87	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
88	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
89	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
90	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
91	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
92	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
93	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
94	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
95	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
96	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
97	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
98	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
99	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
100	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
101	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635

HEC-1 INPUT

PAGE 3

LINE	ID	1	2	3	4	5	6	7	8	9	10
102	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
103	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
104	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
105	PC	1.0									
106	LS	0.0	70.52	0.0							
107	UD	0.358									
108	KK	4bB									
109	KO	0	0	0.0	1	22					
110	BA	0.6014									
111	PB	4.65									
112	IN	6	1JAN94	0							
			* typeII-24hour								
113	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
114	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
115	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
116	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
117	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
118	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
119	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
120	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
121	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
122	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
123	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
124	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
125	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
126	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
127	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
128	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
129	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
130	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
131	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
132	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
133	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
134	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
135	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
136	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
137	PC	1.0									

```

138      LS      0.0  71.15  0.0
139      UD      0.383

140      KK      4C  CNAME  4R
141      KO      0      0      0.0      0      22
142      HC      3

143      KK      4R  CNAME  4C
144      KO      0      0      0.0      0      22
145      RM      1  0.112  0.2

146      KK      3B
147      KO      0      0      0.0      1      22
148      BA      1.1321
149      PB      4.65
150      IN      6  1JAN94  0
* typeII-24hour

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25yr.out

HEC-1 INPUT

PAGE 4

LINE	ID	1	2	3	4	5	6	7	8	9	10
151	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
152	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
153	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
154	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
155	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
156	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
157	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
158	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
159	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
160	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
161	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
162	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
163	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
164	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
165	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
166	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
167	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
168	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
169	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
170	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
171	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
172	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
173	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
174	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
175	PC	1.0									
176	LS	0.0	70.75	0.0							
177	UD	0.3323									
178	KK	3C	CNAME	3R							
179	KO	0	0	0.0	0	22					
180	HC	2									
181	KK	3R	CNAME	3C							
182	KO	0	0	0.0	0	22					
183	RM	1	0.081	0.2							
184	KK	2B									
185	KO	0	0	0.0	1	22					
186	BA	0.7082									
187	PB	4.65									
188	IN	6	1JAN94	0							
189	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
190	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
191	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
192	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
193	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
194	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
195	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
196	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
197	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
198	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
199	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
200	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
201	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656

HEC-1 INPUT

PAGE 5

LINE	ID	1	2	3	4	5	6	7	8	9	10
202	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
203	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
204	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
205	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
206	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
207	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
208	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
209	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
210	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
211	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
212	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
213	PC	1.0									
214	LS	0.0	70.88	0.0							
215	UD	0.2379									
216	KK	2C	CNAME	2R							

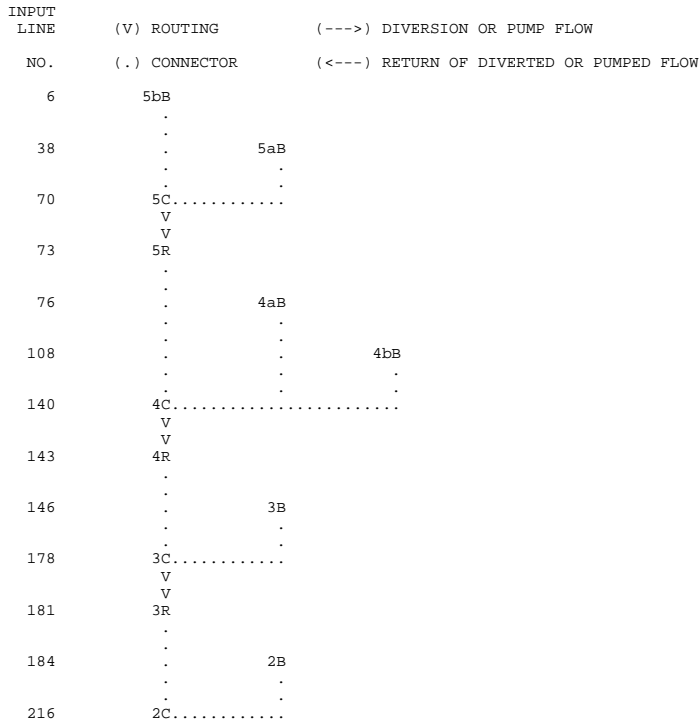
LINE	CODE	VALUE	UNIT	DATE	TIME	25yr.out
217	KO	0		0.0	0	
218	HC	2				
219	KK	2R	CNAME	2C		
220	KO	0		0.0	0	22
221	RM	1	0.119	0.2		
222	KK	1B				
223	KO	0		0.0	1	22
224	BA	0.7193				
225	PB	4.65				
226	IN	6	1JAN94	0		
* typeII-24hour						
227	PC	0.0	0.001	0.002	0.0031	0.0041
228	PC	0.0105	0.0116	0.0127	0.0138	0.015
229	PC	0.022	0.0232	0.0244	0.0256	0.0269
230	PC	0.0345	0.0358	0.0371	0.0384	0.0398
231	PC	0.048	0.0494	0.0508	0.0523	0.0538
232	PC	0.063	0.0646	0.0662	0.0679	0.0696
233	PC	0.08	0.0818	0.0836	0.0855	0.0874
234	PC	0.099	0.101	0.103	0.1051	0.1072
235	PC	0.12	0.1223	0.1246	0.1271	0.1296
236	PC	0.147	0.1502	0.1534	0.1566	0.1598
237	PC	0.181	0.1851	0.1895	0.1941	0.1989
238	PC	0.235	0.2427	0.2513	0.2609	0.2715
239	PC	0.663	0.682	0.6986	0.713	0.7252
240	PC	0.772	0.778	0.7836	0.789	0.7942
241	PC	0.82	0.8237	0.8273	0.8308	0.8342
242	PC	0.8535	0.8565	0.8594	0.8622	0.8649
243	PC	0.88	0.8823	0.8845	0.8868	0.889
244	PC	0.9018	0.9038	0.9058	0.9078	0.9097
245	PC	0.921	0.9228	0.9245	0.9263	0.928
246	PC	0.9377	0.9393	0.9408	0.9423	0.9437
247	PC	0.952	0.9533	0.9546	0.9559	0.9572
248	PC	0.9648	0.966	0.9672	0.9685	0.9697
249	PC	0.977	0.9782	0.9794	0.9806	0.9818
250	PC	0.9888	0.9899	0.991	0.9922	0.9933
251	PC	1.0				
252	LS	0.0	71.15	0.0		

HEC-1 INPUT

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LINE	ID	1	2	3	4	5	6	7	8	9	10
253	UD	0.2797									
254	KK	1C	CNAME	1C							
255	KO	0	0	0.0	0	0	22				
256	HC	2									
257	KK	1C	CNAME	1C							
258	KO	0	0	0.0	0	0	22				
259	RN	1C									
260	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK



219 V  
V  
2R  
. .  
222 . 1B  
. .  
254 1C.....  
V  
V  
257 1C

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1\*\*\*\*\*  
\*  
\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*  
\* MAY 1991 \*  
\* VERSION 4.0.1E \*  
\* RUN DATE TIME \*  
\*  
\*\*\*\*\*

\*\*\*\*\*  
\*  
\* U.S. ARMY CORPS OF ENGINEERS \*  
\* HYDROLOGIC ENGINEERING CENTER \*  
\* 609 SECOND STREET \*  
\* DAVIS, CALIFORNIA 95616 \*  
\* (916) 551-1748 \*  
\*  
\*\*\*\*\*

Seng Creek  
w Mining & wo Logging (Scenario 2), LIDAR Data  
25 yr Storm

5 IO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
  
IT HYDROGRAPH TIME DATA  
NMIN 15 MINUTES IN COMPUTATION INTERVAL  
IDATE 1JAN94 STARTING DATE  
ITIME 0000 STARTING TIME  
NQ, 100 NUMBER OF HYDROGRAPH ORDINATES  
NDDATE 2JAN94 ENDING DATE  
NDTIME 0045 ENDING TIME  
ICENT 19 CENTURY MARK

COMPUTATION INTERVAL 0.25 HOURS  
TOTAL TIME BASE 24.75 HOURS

ENGLISH UNITS  
DRAINAGE AREA SQUARE MILES  
PRECIPITATION DEPTH INCHES  
LENGTH, ELEVATION FEET  
FLOW CUBIC FEET PER SECOND  
STORAGE VOLUME ACRE-FEET  
SURFACE AREA ACRES  
TEMPERATURE DEGREES FAHRENHEIT

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
6 KK \* 5bB \*  
\* \*  
\*\*\*\*\*

7 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

10 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

8 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

9 PB STORM 4.65 BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01

0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

25yr.out

36 LS SCS LOSS RATE  
 STRTL 0.71 INITIAL ABSTRACTION  
 CRVNBR 73.87 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

37 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.41 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES  
 273. 649. 509. 228. 109. 50. 24. 11. 6. 2.

HYDROGRAPH AT STATION 5bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.04	0.09	504.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.03	0.06	321.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.02	0.05	217.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.05	155.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	119.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.01	0.04	96.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	82.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	70.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	62.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	57.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	54.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	51.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	48.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	45.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	43.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	40.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	38.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	37.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	36.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	34.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	33.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	32.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	31.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	30.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	30.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.01	29.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.01	28.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.01	27.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	26.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	25.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	24.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	23.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	22.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.01	0.00	0.01	21.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.01	0.00	0.01	21.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	21.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	21.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	21.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	20.
1	JAN	0945	40	0.04	0.04	0.00	1.	*	1	JAN	2215	90	0.01	0.00	0.01	20.
1	JAN	1000	41	0.04	0.04	0.00	2.	*	1	JAN	2230	91	0.01	0.00	0.01	20.
1	JAN	1015	42	0.05	0.05	0.00	4.	*	1	JAN	2245	92	0.01	0.00	0.01	20.
1	JAN	1030	43	0.06	0.05	0.01	6.	*	1	JAN	2300	93	0.01	0.00	0.01	20.
1	JAN	1045	44	0.07	0.06	0.01	10.	*	1	JAN	2315	94	0.01	0.00	0.01	20.
1	JAN	1100	45	0.08	0.06	0.01	14.	*	1	JAN	2330	95	0.01	0.00	0.01	19.
1	JAN	1115	46	0.10	0.08	0.02	21.	*	1	JAN	2345	96	0.01	0.00	0.01	19.
1	JAN	1130	47	0.13	0.09	0.03	31.	*	2	JAN	0000	97	0.01	0.00	0.01	19.
1	JAN	1145	48	0.51	0.33	0.18	84.	*	2	JAN	0015	98	0.00	0.00	0.00	16.
1	JAN	1200	49	1.26	0.57	0.69	326.	*	2	JAN	0030	99	0.00	0.00	0.00	9.
1	JAN	1215	50	0.20	0.07	0.13	582.	*	2	JAN	0045	100	0.00	0.00	0.00	4.

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.57, TOTAL EXCESS = 2.08

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
582.	12.25	131.	1.685	40.	39.	39.
		(INCHES)	65.	2.075	2.075	2.075
		(AC-FT)		80.	80.	80.

CUMULATIVE AREA = 0.72 SQ MI

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 \* \*  
 38 KK \* 5aB \*  
 \* \*  
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39 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

42 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

40 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

41 PB STORM 4.65 BASIN TOTAL PRECIPITATION

43 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

68 LS SCS LOSS RATE  
 STRTL 0.76 INITIAL ABSTRACTION  
 CRVNBR 72.51 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

69 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.34 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 334. 624. 352. 145. 61. 25. 11. 5. 1.

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HYDROGRAPH AT STATION 5aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.09	362.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.03	0.06	225.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	149.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	108.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	85.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.04	71.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	61.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	53.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	48.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	45.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	43.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	40.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	38.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	36.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	34.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	32.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	30.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	29.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	29.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	28.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	27.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	26.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	25.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	25.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	24.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	23.

										25yr.out			
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.01	22.	
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.01	21.	
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	21.	
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	20.	
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	19.	
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	18.	
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	18.	
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	17.	
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	17.	
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	17.	
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	17.	
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	17.	
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	17.	
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	16.	
1 JAN 1000	41	0.04	0.04	0.00	1.	*	1 JAN 2230	91	0.01	0.00	0.01	16.	
1 JAN 1015	42	0.05	0.05	0.00	2.	*	1 JAN 2245	92	0.01	0.00	0.01	16.	
1 JAN 1030	43	0.06	0.05	0.00	4.	*	1 JAN 2300	93	0.01	0.00	0.01	16.	
1 JAN 1045	44	0.07	0.06	0.01	6.	*	1 JAN 2315	94	0.01	0.00	0.01	16.	
1 JAN 1100	45	0.08	0.07	0.01	10.	*	1 JAN 2330	95	0.01	0.00	0.01	16.	
1 JAN 1115	46	0.10	0.08	0.02	16.	*	1 JAN 2345	96	0.01	0.00	0.01	15.	
1 JAN 1130	47	0.13	0.10	0.03	25.	*	2 JAN 0000	97	0.01	0.00	0.01	15.	
1 JAN 1145	48	0.51	0.35	0.16	80.	*	2 JAN 0015	98	0.00	0.00	0.00	12.	
1 JAN 1200	49	1.26	0.61	0.65	332.	*	2 JAN 0030	99	0.00	0.00	0.00	6.	
1 JAN 1215	50	0.20	0.07	0.12	509.	*	2 JAN 0045	100	0.00	0.00	0.00	2.	

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.68, TOTAL EXCESS = 1.97

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
509.	12.25	104.	32.	31.	31.
		(INCHES)	1,600	1,970	1,970
		(AC-FT)	52.	63.	63.

CUMULATIVE AREA = 0.60 SQ MI

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70 KK      5C *      CNAME      5R
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71 KO      OUTPUT CONTROL VARIABLES
          IPRNT      0      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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72 HC      HYDROGRAPH COMBINATION
          ICOMP      2      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 5C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN 0000	1			0.	*	1 JAN 0615	26			0.	*	1 JAN 1230	51			866.	*	1 JAN 1845	76			52.	*
1 JAN 0015	2			0.	*	1 JAN 0630	27			0.	*	1 JAN 1245	52			546.	*	1 JAN 1900	77			50.	*
1 JAN 0030	3			0.	*	1 JAN 0645	28			0.	*	1 JAN 1300	53			367.	*	1 JAN 1915	78			48.	*
1 JAN 0045	4			0.	*	1 JAN 0700	29			0.	*	1 JAN 1315	54			263.	*	1 JAN 1930	79			46.	*
1 JAN 0100	5			0.	*	1 JAN 0715	30			0.	*	1 JAN 1330	55			204.	*	1 JAN 1945	80			45.	*
1 JAN 0115	6			0.	*	1 JAN 0730	31			0.	*	1 JAN 1345	56			168.	*	1 JAN 2000	81			43.	*
1 JAN 0130	7			0.	*	1 JAN 0745	32			0.	*	1 JAN 1400	57			142.	*	1 JAN 2015	82			41.	*
1 JAN 0145	8			0.	*	1 JAN 0800	33			0.	*	1 JAN 1415	58			124.	*	1 JAN 2030	83			40.	*
1 JAN 0200	9			0.	*	1 JAN 0815	34			0.	*	1 JAN 1430	59			111.	*	1 JAN 2045	84			39.	*
1 JAN 0215	10			0.	*	1 JAN 0830	35			0.	*	1 JAN 1445	60			103.	*	1 JAN 2100	85			39.	*
1 JAN 0230	11			0.	*	1 JAN 0845	36			0.	*	1 JAN 1500	61			97.	*	1 JAN 2115	86			38.	*
1 JAN 0245	12			0.	*	1 JAN 0900	37			0.	*	1 JAN 1515	62			91.	*	1 JAN 2130	87			38.	*
1 JAN 0300	13			0.	*	1 JAN 0915	38			0.	*	1 JAN 1530	63			86.	*	1 JAN 2145	88			37.	*
1 JAN 0315	14			0.	*	1 JAN 0930	39			0.	*	1 JAN 1545	64			82.	*	1 JAN 2200	89			37.	*
1 JAN 0330	15			0.	*	1 JAN 0945	40			1.	*	1 JAN 1600	65			77.	*	1 JAN 2215	90			37.	*
1 JAN 0345	16			0.	*	1 JAN 1000	41			3.	*	1 JAN 1615	66			72.	*	1 JAN 2230	91			36.	*
1 JAN 0400	17			0.	*	1 JAN 1015	42			6.	*	1 JAN 1630	67			69.	*	1 JAN 2245	92			36.	*
1 JAN 0415	18			0.	*	1 JAN 1030	43			10.	*	1 JAN 1645	68			66.	*	1 JAN 2300	93			36.	*
1 JAN 0430	19			0.	*	1 JAN 1045	44			16.	*	1 JAN 1700	69			64.	*	1 JAN 2315	94			35.	*
1 JAN 0445	20			0.	*	1 JAN 1100	45			24.	*	1 JAN 1715	70			62.	*	1 JAN 2330	95			35.	*
1 JAN 0500	21			0.	*	1 JAN 1115	46			37.	*	1 JAN 1730	71			60.	*	1 JAN 2345	96			35.	*
1 JAN 0515	22			0.	*	1 JAN 1130	47			57.	*	1 JAN 1745	72			59.	*	2 JAN 0000	97			34.	*

1 JAN 0530	23	0.	*	1 JAN 1145	48	164.	*	25yr.out	1 JAN 1800	73	57.	*	2 JAN 0015	98	28.
1 JAN 0545	24	0.	*	1 JAN 1200	49	658.	*		1 JAN 1815	74	55.	*	2 JAN 0030	99	15.
1 JAN 0600	25	0.	*	1 JAN 1215	50	1092.	*		1 JAN 1830	75	53.	*	2 JAN 0045	100	7.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
+	1092.	12.25	235.	72.	70.	70.
		(INCHES)	1.646	2.027	2.027	2.027
		(AC-FT)	116.	143.	143.	143.

CUMULATIVE AREA = 1.32 SQ MI

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73 KK      5R      *      CNAME      5C
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74 KO      OUTPUT CONTROL VARIABLES
          IPRNT      0      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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75 RM      MUSKINGUM ROUTING
          NSTPS      1      NUMBER OF SUBREACHES
          AMSKK      0.12  MUSKINGUM K
          X          0.20  MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 5R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	1015.	*	1	JAN	1845	76	52.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	706.	*	1	JAN	1900	77	51.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	447.	*	1	JAN	1915	78	49.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	311.	*	1	JAN	1930	79	47.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	231.	*	1	JAN	1945	80	46.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	185.	*	1	JAN	2000	81	44.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	154.	*	1	JAN	2015	82	42.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	132.	*	1	JAN	2030	83	40.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	117.	*	1	JAN	2045	84	39.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	106.	*	1	JAN	2100	85	39.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	100.	*	1	JAN	2115	86	38.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	94.	*	1	JAN	2130	87	38.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	89.	*	1	JAN	2145	88	37.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	84.	*	1	JAN	2200	89	37.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1.	*	1	JAN	1600	65	79.	*	1	JAN	2215	90	37.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	2.	*	1	JAN	1615	66	75.	*	1	JAN	2230	91	37.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	4.	*	1	JAN	1630	67	70.	*	1	JAN	2245	92	36.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	8.	*	1	JAN	1645	68	67.	*	1	JAN	2300	93	36.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	13.	*	1	JAN	1700	69	65.	*	1	JAN	2315	94	36.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	20.	*	1	JAN	1715	70	63.	*	1	JAN	2330	95	35.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	30.	*	1	JAN	1730	71	61.	*	1	JAN	2345	96	35.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	46.	*	1	JAN	1745	72	59.	*	2	JAN	0000	97	34.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	106.	*	1	JAN	1800	73	58.	*	2	JAN	0015	98	32.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	391.	*	1	JAN	1815	74	56.	*	2	JAN	0030	99	22.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	882.	*	1	JAN	1830	75	54.	*	2	JAN	0045	100	11.	*

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
+	1015.	12.50	234.	72.	70.	70.
		(INCHES)	1.645	2.025	2.025	2.025
		(AC-FT)	116.	143.	143.	143.

CUMULATIVE AREA = 1.32 SQ MI



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 76 KK 4aB \*  
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77 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

80 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

78 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.88 SUBBASIN AREA

PRECIPITATION DATA

79 PB STORM 4.65 BASIN TOTAL PRECIPITATION

81 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

106 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.52 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

107 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.36 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 445. 881. 545. 225. 97. 42. 18. 8. 3.

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HYDROGRAPH AT STATION 4aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.08	499.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.04	0.06	312.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	209.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	152.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	119.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	99.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	85.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	74.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	67.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	63.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	59.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	56.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	53.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	50.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	47.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	45.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	42.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	41.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	40.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	39.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	37.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	36.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.01	35.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	34.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	33.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	32.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.01	31.

										25yr.out		
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.01	0.01	30.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	29.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	28.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	27.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	26.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	25.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	24.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	24.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	24.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	23.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	23.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	23.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	23.
1 JAN 1000	41	0.04	0.04	0.00	0.	*	1 JAN 2230	91	0.01	0.00	0.01	23.
1 JAN 1015	42	0.05	0.05	0.00	0.	*	1 JAN 2245	92	0.01	0.00	0.01	22.
1 JAN 1030	43	0.06	0.05	0.00	2.	*	1 JAN 2300	93	0.01	0.00	0.01	22.
1 JAN 1045	44	0.07	0.06	0.00	4.	*	1 JAN 2315	94	0.01	0.00	0.01	22.
1 JAN 1100	45	0.08	0.07	0.01	9.	*	1 JAN 2330	95	0.01	0.00	0.01	22.
1 JAN 1115	46	0.10	0.09	0.01	15.	*	1 JAN 2345	96	0.01	0.00	0.01	22.
1 JAN 1130	47	0.13	0.10	0.02	26.	*	2 JAN 0000	97	0.01	0.00	0.01	22.
1 JAN 1145	48	0.51	0.37	0.14	91.	*	2 JAN 0015	98	0.00	0.00	0.00	17.
1 JAN 1200	49	1.26	0.66	0.60	404.	*	2 JAN 0030	99	0.00	0.00	0.00	9.
1 JAN 1215	50	0.20	0.08	0.12	660.	*	2 JAN 0045	100	0.00	0.00	0.00	4.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.83, TOTAL EXCESS = 1.82

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
660.	12.25	139.	43.	42.	42.	
		(INCHES)	1.475	1.818	1.818	1.818
		(AC-FT)	69.	85.	85.	85.
CUMULATIVE AREA =			0.88 SQ MI			

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 108 KK \* 4bB \*  
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109 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

112 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

110 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

111 PB STORM 4.65 BASIN TOTAL PRECIPITATION

113 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

138 LS SCS LOSS RATE  
 STRTL 0.81 INITIAL ABSTRACTION  
 CRVNBR 71.15 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

139 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.38 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
10 END-OF-PERIOD ORDINATES

263. 575. 405. 170. 78. 35. 16. 7. 3. 0.

HYDROGRAPH AT STATION 4bb

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.08	367.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.03	0.06	230.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	155.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	112.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	87.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	72.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	61.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	53.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	48.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	44.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	42.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	39.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	37.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	35.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	33.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	31.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	30.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	29.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	28.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	27.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	26.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	25.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.01	25.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	24.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	23.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	22.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.01	22.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.01	21.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	20.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	19.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	19.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	18.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	17.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.01	0.00	0.01	17.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.01	0.00	0.01	17.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	17.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	16.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	16.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	16.
1	JAN	0945	40	0.04	0.04	0.00	0.	*	1	JAN	2215	90	0.01	0.00	0.01	16.
1	JAN	1000	41	0.04	0.04	0.00	0.	*	1	JAN	2230	91	0.01	0.00	0.01	16.
1	JAN	1015	42	0.05	0.05	0.00	0.	*	1	JAN	2245	92	0.01	0.00	0.01	16.
1	JAN	1030	43	0.06	0.05	0.00	2.	*	1	JAN	2300	93	0.01	0.00	0.01	16.
1	JAN	1045	44	0.07	0.06	0.01	4.	*	1	JAN	2315	94	0.01	0.00	0.01	15.
1	JAN	1100	45	0.08	0.07	0.01	7.	*	1	JAN	2330	95	0.01	0.00	0.01	15.
1	JAN	1115	46	0.10	0.08	0.01	11.	*	1	JAN	2345	96	0.01	0.00	0.01	15.
1	JAN	1130	47	0.13	0.10	0.02	19.	*	2	JAN	0000	97	0.01	0.00	0.01	15.
1	JAN	1145	48	0.51	0.36	0.15	60.	*	2	JAN	0015	98	0.00	0.00	0.00	12.
1	JAN	1200	49	1.26	0.64	0.61	259.	*	2	JAN	0030	99	0.00	0.00	0.00	7.
1	JAN	1215	50	0.20	0.08	0.12	449.	*	2	JAN	0045	100	0.00	0.00	0.00	3.

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.78, TOTAL EXCESS = 1.87

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
449.	12.25	98.	30.	29.	29.
		(INCHES)	1.514	1.865	1.865
		(AC-FT)	49.	60.	60.

CUMULATIVE AREA = 0.60 SQ MI

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*      *
140 KK  4C *      CNAME  4R
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141 KO  OUTPUT CONTROL VARIABLES
        IPRNT  0  PRINT CONTROL
        IPLOT  0  PLOT CONTROL
        QSCAL  0. HYDROGRAPH PLOT SCALE
        IPNCH  0  PUNCH COMPUTED HYDROGRAPH
        IOUT   22 SAVE HYDROGRAPH ON THIS UNIT
        ISAV1  1  FIRST ORDINATE PUNCHED OR SAVED
        ISAV2 100 LAST ORDINATE PUNCHED OR SAVED

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25yr.out  
TIMINT 0.250 TIME INTERVAL IN HOURS

142 HC HYDROGRAPH COMBINATION  
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4C  
SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	1881.	1	JAN	1845	76	107.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	1247.	1	JAN	1900	77	103.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	811.	1	JAN	1915	78	100.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	575.	1	JAN	1930	79	96.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	438.	1	JAN	1945	80	93.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	356.	1	JAN	2000	81	89.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	300.	1	JAN	2015	82	85.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	260.	1	JAN	2030	83	82.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	232.	1	JAN	2045	84	80.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	213.	1	JAN	2100	85	80.
1	JAN	0230	11	0.	1	JAN	0845	36	0.	1	JAN	1500	61	201.	1	JAN	2115	86	79.
1	JAN	0245	12	0.	1	JAN	0900	37	0.	1	JAN	1515	62	190.	1	JAN	2130	87	78.
1	JAN	0300	13	0.	1	JAN	0915	38	0.	1	JAN	1530	63	179.	1	JAN	2145	88	77.
1	JAN	0315	14	0.	1	JAN	0930	39	0.	1	JAN	1545	64	170.	1	JAN	2200	89	76.
1	JAN	0330	15	0.	1	JAN	0945	40	1.	1	JAN	1600	65	160.	1	JAN	2215	90	76.
1	JAN	0345	16	0.	1	JAN	1000	41	2.	1	JAN	1615	66	150.	1	JAN	2230	91	75.
1	JAN	0400	17	0.	1	JAN	1015	42	5.	1	JAN	1630	67	143.	1	JAN	2245	92	74.
1	JAN	0415	18	0.	1	JAN	1030	43	11.	1	JAN	1645	68	137.	1	JAN	2300	93	74.
1	JAN	0430	19	0.	1	JAN	1045	44	21.	1	JAN	1700	69	132.	1	JAN	2315	94	73.
1	JAN	0445	20	0.	1	JAN	1100	45	35.	1	JAN	1715	70	129.	1	JAN	2330	95	72.
1	JAN	0500	21	0.	1	JAN	1115	46	57.	1	JAN	1730	71	125.	1	JAN	2345	96	71.
1	JAN	0515	22	0.	1	JAN	1130	47	92.	1	JAN	1745	72	121.	2	JAN	0000	97	71.
1	JAN	0530	23	0.	1	JAN	1145	48	256.	1	JAN	1800	73	118.	2	JAN	0015	98	61.
1	JAN	0545	24	0.	1	JAN	1200	49	1054.	1	JAN	1815	74	114.	2	JAN	0030	99	38.
1	JAN	0600	25	0.	1	JAN	1215	50	1991.	1	JAN	1830	75	110.	2	JAN	0045	100	17.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW
(CFS)	(HR)	6-HR 24-HR 72-HR 24.75-HR
1991.	12.25	471. 145. 141. 141.
		(INCHES) 1.564 1.926 1.926 1.926
		(AC-FT) 234. 288. 288. 288.

CUMULATIVE AREA = 2.80 SQ MI

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143 KK 4R CNAME 4C

144 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

145 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.11 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 4R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	2008.	1	JAN	1845	76	108.

25yr.out

1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	1557.	*	1 JAN 1900	77	105.
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	988.	*	1 JAN 1915	78	101.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	669.	*	1 JAN 1930	79	98.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	494.	*	1 JAN 1945	80	94.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	389.	*	1 JAN 2000	81	91.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	324.	*	1 JAN 2015	82	87.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	277.	*	1 JAN 2030	83	84.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	243.	*	1 JAN 2045	84	81.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	221.	*	1 JAN 2100	85	80.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	206.	*	1 JAN 2115	86	79.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	194.	*	1 JAN 2130	87	78.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	184.	*	1 JAN 2145	88	77.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	174.	*	1 JAN 2200	89	77.
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	164.	*	1 JAN 2215	90	76.
1 JAN 0345	16	0.	*	1 JAN 1000	41	1.	*	1 JAN 1615	66	155.	*	1 JAN 2230	91	75.
1 JAN 0400	17	0.	*	1 JAN 1015	42	4.	*	1 JAN 1630	67	146.	*	1 JAN 2245	92	74.
1 JAN 0415	18	0.	*	1 JAN 1030	43	8.	*	1 JAN 1645	68	139.	*	1 JAN 2300	93	74.
1 JAN 0430	19	0.	*	1 JAN 1045	44	16.	*	1 JAN 1700	69	134.	*	1 JAN 2315	94	73.
1 JAN 0445	20	0.	*	1 JAN 1100	45	29.	*	1 JAN 1715	70	130.	*	1 JAN 2330	95	73.
1 JAN 0500	21	0.	*	1 JAN 1115	46	47.	*	1 JAN 1730	71	126.	*	1 JAN 2345	96	72.
1 JAN 0515	22	0.	*	1 JAN 1130	47	75.	*	1 JAN 1745	72	123.	*	2 JAN 0000	97	71.
1 JAN 0530	23	0.	*	1 JAN 1145	48	173.	*	1 JAN 1800	73	119.	*	2 JAN 0015	98	66.
1 JAN 0545	24	0.	*	1 JAN 1200	49	651.	*	1 JAN 1815	74	116.	*	2 JAN 0030	99	49.
1 JAN 0600	25	0.	*	1 JAN 1215	50	1569.	*	1 JAN 1830	75	112.	*	2 JAN 0045	100	26.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
+	2008.	12.50	470.	145.	141.	141.
+			(INCHES)	1.561	1.924	1.924
			(AC-FT)	233.	288.	288.

CUMULATIVE AREA = 2.80 SQ MI

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 146 KK 3B \*  
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147 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

150 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

148 BA SUBBASIN CHARACTERISTICS

TAREA,	1.13	SUBBASIN AREA
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PRECIPITATION DATA

149 PB STORM 4.65 BASIN TOTAL PRECIPITATION

151 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

176 LS SCS LOSS RATE

STRTL	0.83	INITIAL ABSTRACTION
CRVNBR	70.75	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

177 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.33	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

25yr.out  
UNIT HYDROGRAPH  
9 END-OF-PERIOD ORDINATES

673.      1194.      626.      255.      105.      43.      17.      8.      1.

\*\*\*\*\*  
HYDROGRAPH AT STATION      3B  
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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.14	0.05	0.08	614.	*	
1	JAN	0015	2	0.01	0.01	0.00	0.	*	*	1	JAN	1245	52	0.09	0.03	0.06	383.	*	
1	JAN	0030	3	0.01	0.01	0.00	0.	*	*	1	JAN	1300	53	0.08	0.03	0.05	256.	*	
1	JAN	0045	4	0.01	0.01	0.00	0.	*	*	1	JAN	1315	54	0.07	0.02	0.04	187.	*	
1	JAN	0100	5	0.01	0.01	0.00	0.	*	*	1	JAN	1330	55	0.06	0.02	0.04	149.	*	
1	JAN	0115	6	0.01	0.01	0.00	0.	*	*	1	JAN	1345	56	0.05	0.02	0.03	125.	*	
1	JAN	0130	7	0.01	0.01	0.00	0.	*	*	1	JAN	1400	57	0.05	0.02	0.03	107.	*	
1	JAN	0145	8	0.01	0.01	0.00	0.	*	*	1	JAN	1415	58	0.04	0.01	0.03	95.	*	
1	JAN	0200	9	0.01	0.01	0.00	0.	*	*	1	JAN	1430	59	0.04	0.01	0.03	86.	*	
1	JAN	0215	10	0.01	0.01	0.00	0.	*	*	1	JAN	1445	60	0.04	0.01	0.03	81.	*	
1	JAN	0230	11	0.01	0.01	0.00	0.	*	*	1	JAN	1500	61	0.04	0.01	0.02	76.	*	
1	JAN	0245	12	0.01	0.01	0.00	0.	*	*	1	JAN	1515	62	0.03	0.01	0.02	72.	*	
1	JAN	0300	13	0.01	0.01	0.00	0.	*	*	1	JAN	1530	63	0.03	0.01	0.02	69.	*	
1	JAN	0315	14	0.02	0.02	0.00	0.	*	*	1	JAN	1545	64	0.03	0.01	0.02	65.	*	
1	JAN	0330	15	0.02	0.02	0.00	0.	*	*	1	JAN	1600	65	0.03	0.01	0.02	61.	*	
1	JAN	0345	16	0.02	0.02	0.00	0.	*	*	1	JAN	1615	66	0.03	0.01	0.02	57.	*	
1	JAN	0400	17	0.02	0.02	0.00	0.	*	*	1	JAN	1630	67	0.03	0.01	0.02	55.	*	
1	JAN	0415	18	0.02	0.02	0.00	0.	*	*	1	JAN	1645	68	0.02	0.01	0.02	53.	*	
1	JAN	0430	19	0.02	0.02	0.00	0.	*	*	1	JAN	1700	69	0.02	0.01	0.02	51.	*	
1	JAN	0445	20	0.02	0.02	0.00	0.	*	*	1	JAN	1715	70	0.02	0.01	0.02	50.	*	
1	JAN	0500	21	0.02	0.02	0.00	0.	*	*	1	JAN	1730	71	0.02	0.01	0.02	48.	*	
1	JAN	0515	22	0.02	0.02	0.00	0.	*	*	1	JAN	1745	72	0.02	0.01	0.02	47.	*	
1	JAN	0530	23	0.02	0.02	0.00	0.	*	*	1	JAN	1800	73	0.02	0.01	0.01	46.	*	
1	JAN	0545	24	0.02	0.02	0.00	0.	*	*	1	JAN	1815	74	0.02	0.01	0.01	44.	*	
1	JAN	0600	25	0.02	0.02	0.00	0.	*	*	1	JAN	1830	75	0.02	0.01	0.01	43.	*	
1	JAN	0615	26	0.02	0.02	0.00	0.	*	*	1	JAN	1845	76	0.02	0.01	0.01	41.	*	
1	JAN	0630	27	0.02	0.02	0.00	0.	*	*	1	JAN	1900	77	0.02	0.01	0.01	40.	*	
1	JAN	0645	28	0.02	0.02	0.00	0.	*	*	1	JAN	1915	78	0.02	0.01	0.01	38.	*	
1	JAN	0700	29	0.02	0.02	0.00	0.	*	*	1	JAN	1930	79	0.02	0.00	0.01	37.	*	
1	JAN	0715	30	0.02	0.02	0.00	0.	*	*	1	JAN	1945	80	0.02	0.00	0.01	36.	*	
1	JAN	0730	31	0.02	0.02	0.00	0.	*	*	1	JAN	2000	81	0.02	0.00	0.01	34.	*	
1	JAN	0745	32	0.02	0.02	0.00	0.	*	*	1	JAN	2015	82	0.02	0.00	0.01	33.	*	
1	JAN	0800	33	0.03	0.03	0.00	0.	*	*	1	JAN	2030	83	0.01	0.00	0.01	32.	*	
1	JAN	0815	34	0.03	0.03	0.00	0.	*	*	1	JAN	2045	84	0.01	0.00	0.01	31.	*	
1	JAN	0830	35	0.03	0.03	0.00	0.	*	*	1	JAN	2100	85	0.01	0.00	0.01	31.	*	
1	JAN	0845	36	0.03	0.03	0.00	0.	*	*	1	JAN	2115	86	0.01	0.00	0.01	31.	*	
1	JAN	0900	37	0.04	0.04	0.00	0.	*	*	1	JAN	2130	87	0.01	0.00	0.01	30.	*	
1	JAN	0915	38	0.04	0.04	0.00	0.	*	*	1	JAN	2145	88	0.01	0.00	0.01	30.	*	
1	JAN	0930	39	0.04	0.04	0.00	0.	*	*	1	JAN	2200	89	0.01	0.00	0.01	30.	*	
1	JAN	0945	40	0.04	0.04	0.00	0.	*	*	1	JAN	2215	90	0.01	0.00	0.01	30.	*	
1	JAN	1000	41	0.04	0.04	0.00	0.	*	*	1	JAN	2230	91	0.01	0.00	0.01	29.	*	
1	JAN	1015	42	0.05	0.05	0.00	1.	*	*	1	JAN	2245	92	0.01	0.00	0.01	29.	*	
1	JAN	1030	43	0.06	0.05	0.00	3.	*	*	1	JAN	2300	93	0.01	0.00	0.01	29.	*	
1	JAN	1045	44	0.07	0.06	0.00	7.	*	*	1	JAN	2315	94	0.01	0.00	0.01	29.	*	
1	JAN	1100	45	0.08	0.07	0.01	13.	*	*	1	JAN	2330	95	0.01	0.00	0.01	28.	*	
1	JAN	1115	46	0.10	0.08	0.01	22.	*	*	1	JAN	2345	96	0.01	0.00	0.01	28.	*	
1	JAN	1130	47	0.13	0.10	0.02	37.	*	*	2	JAN	0000	97	0.01	0.00	0.01	28.	*	
1	JAN	1145	48	0.51	0.37	0.14	134.	*	*	2	JAN	0015	98	0.00	0.00	0.00	21.	*	
1	JAN	1200	49	1.26	0.66	0.60	594.	*	*	2	JAN	0030	99	0.00	0.00	0.00	10.	*	
1	JAN	1215	50	0.20	0.08	0.12	895.	*	*	2	JAN	0045	100	0.00	0.00	0.00	4.	*	

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.81, TOTAL EXCESS = 1.84

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
895.	12.25	182.	56.	54.	54.	
		(INCHES)	1.491	1.835	1.835	1.835
		(AC-FT)	90.	111.	111.	111.

CUMULATIVE AREA = 1.13 SQ MI

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178 KK *          3C *          CNAME      3R
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179 KO      OUTPUT CONTROL VARIABLES
            IPRINT      0      PRINT CONTROL
            IPLOT       0      PLOT CONTROL
            QSCAL       0      HYDROGRAPH PLOT SCALE
            IPNCH       0      PUNCH COMPUTED HYDROGRAPH
            IOUT        22     SAVE HYDROGRAPH ON THIS UNIT
            ISAV1       1      FIRST ORDINATE PUNCHED OR SAVED
            ISAV2      100     LAST ORDINATE PUNCHED OR SAVED
            TIMINT      0.250  TIME INTERVAL IN HOURS

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180 HC HYDROGRAPH COMBINATION  
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2622.	*	1	JAN	1845	76	150.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	1940.	*	1	JAN	1900	77	145.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1244.	*	1	JAN	1915	78	140.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	857.	*	1	JAN	1930	79	135.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	642.	*	1	JAN	1945	80	130.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	514.	*	1	JAN	2000	81	125.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	430.	*	1	JAN	2015	82	120.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	372.	*	1	JAN	2030	83	116.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	330.	*	1	JAN	2045	84	113.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	302.	*	1	JAN	2100	85	111.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	282.	*	1	JAN	2115	86	110.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	267.	*	1	JAN	2130	87	109.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	253.	*	1	JAN	2145	88	107.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	239.	*	1	JAN	2200	89	107.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	0.	*	1	JAN	1600	65	225.	*	1	JAN	2215	90	106.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1.	*	1	JAN	1615	66	212.	*	1	JAN	2230	91	105.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	4.	*	1	JAN	1630	67	201.	*	1	JAN	2245	92	104.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	11.	*	1	JAN	1645	68	192.	*	1	JAN	2300	93	103.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	23.	*	1	JAN	1700	69	186.	*	1	JAN	2315	94	102.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	41.	*	1	JAN	1715	70	180.	*	1	JAN	2330	95	101.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	69.	*	1	JAN	1730	71	175.	*	1	JAN	2345	96	100.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	113.	*	1	JAN	1745	72	170.	*	2	JAN	0000	97	99.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	307.	*	1	JAN	1800	73	165.	*	2	JAN	0015	98	87.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1245.	*	1	JAN	1815	74	160.	*	2	JAN	0030	99	59.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	2464.	*	1	JAN	1830	75	155.	*	2	JAN	0045	100	30.	*

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
+	2622.	12.50	(CFS)			
			652.	201.	195.	195.
			(INCHES)	1.541	1.899	1.899
			(AC-FT)	323.	398.	398.

CUMULATIVE AREA = 3.93 SQ MI

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181 KK 3R \* CNAME 3C  
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182 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

183 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.08 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 3R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2682.	*	1	JAN	1845	76	151.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2212.	*	1	JAN	1900	77	147.	*

25yr.out

1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	1454.	*	1 JAN 1915	78	141.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	955.	*	1 JAN 1930	79	136.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	703.	*	1 JAN 1945	80	132.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	550.	*	1 JAN 2000	81	127.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	455.	*	1 JAN 2015	82	122.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	389.	*	1 JAN 2030	83	117.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	342.	*	1 JAN 2045	84	113.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	310.	*	1 JAN 2100	85	111.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	288.	*	1 JAN 2115	86	110.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	272.	*	1 JAN 2130	87	109.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	257.	*	1 JAN 2145	88	108.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	243.	*	1 JAN 2200	89	107.
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	230.	*	1 JAN 2215	90	106.
1 JAN 0345	16	0.	*	1 JAN 1000	41	1.	*	1 JAN 1615	66	216.	*	1 JAN 2230	91	105.
1 JAN 0400	17	0.	*	1 JAN 1015	42	3.	*	1 JAN 1630	67	204.	*	1 JAN 2245	92	104.
1 JAN 0415	18	0.	*	1 JAN 1030	43	8.	*	1 JAN 1645	68	195.	*	1 JAN 2300	93	103.
1 JAN 0430	19	0.	*	1 JAN 1045	44	19.	*	1 JAN 1700	69	187.	*	1 JAN 2315	94	102.
1 JAN 0445	20	0.	*	1 JAN 1100	45	35.	*	1 JAN 1715	70	182.	*	1 JAN 2330	95	101.
1 JAN 0500	21	0.	*	1 JAN 1115	46	59.	*	1 JAN 1730	71	176.	*	1 JAN 2345	96	100.
1 JAN 0515	22	0.	*	1 JAN 1130	47	97.	*	1 JAN 1745	72	171.	*	2 JAN 0000	97	99.
1 JAN 0530	23	0.	*	1 JAN 1145	48	229.	*	1 JAN 1800	73	166.	*	2 JAN 0015	98	92.
1 JAN 0545	24	0.	*	1 JAN 1200	49	869.	*	1 JAN 1815	74	161.	*	2 JAN 0030	99	70.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2063.	*	1 JAN 1830	75	156.	*	2 JAN 0045	100	39.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
2682.	12.50	(CFS)	651.	201.	195.	195.
		(INCHES)	1.539	1.898	1.898	1.898
		(AC-FT)	323.	398.	398.	398.
CUMULATIVE AREA =			3.93 SQ MI			

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 184 KK \* 2B \*  
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185 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

188 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

186 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.71 SUBBASIN AREA

PRECIPITATION DATA

187 PB STORM 4.65 BASIN TOTAL PRECIPITATION

189 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

214 LS SCS LOSS RATE  
 STRL 0.82 INITIAL ABSTRACTION  
 CRVNR 70.88 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

215 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.24 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH



742. 737. 236. 77. 25. 9. 2.

HYDROGRAPH AT STATION 2B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.08	305.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.03	0.06	184.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	126.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	98.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	81.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	70.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	62.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	56.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	52.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	49.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	47.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	44.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	42.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	39.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	37.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	35.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	34.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	33.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	32.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	31.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	30.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	29.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.01	28.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	27.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	26.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	26.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.01	25.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.01	24.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	23.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	22.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	21.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	20.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	20.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.01	0.00	0.01	20.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.01	0.00	0.01	20.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	19.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	19.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	19.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	19.
1	JAN	0945	40	0.04	0.04	0.00	0.	*	1	JAN	2215	90	0.01	0.00	0.01	19.
1	JAN	1000	41	0.04	0.04	0.00	0.	*	1	JAN	2230	91	0.01	0.00	0.01	18.
1	JAN	1015	42	0.05	0.05	0.00	1.	*	1	JAN	2245	92	0.01	0.00	0.01	18.
1	JAN	1030	43	0.06	0.05	0.00	3.	*	1	JAN	2300	93	0.01	0.00	0.01	18.
1	JAN	1045	44	0.07	0.06	0.00	6.	*	1	JAN	2315	94	0.01	0.00	0.01	18.
1	JAN	1100	45	0.08	0.07	0.01	10.	*	1	JAN	2330	95	0.01	0.00	0.01	18.
1	JAN	1115	46	0.10	0.08	0.01	17.	*	1	JAN	2345	96	0.01	0.00	0.01	18.
1	JAN	1130	47	0.13	0.10	0.02	29.	*	2	JAN	0000	97	0.01	0.00	0.01	17.
1	JAN	1145	48	0.51	0.37	0.14	128.	*	2	JAN	0015	98	0.00	0.00	0.00	10.
1	JAN	1200	49	1.26	0.65	0.61	562.	*	2	JAN	0030	99	0.00	0.00	0.00	3.
1	JAN	1215	50	0.20	0.08	0.12	571.	*	2	JAN	0045	100	0.00	0.00	0.00	1.

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.80, TOTAL EXCESS = 1.85

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW	
(CFS)	(HR)	(CFS)	6-HR	24-HR 72-HR
571.	12.25	114.	35.	34.
		(INCHES)	1.501	1.846
		(AC-FT)	57.	70.

CUMULATIVE AREA = 0.71 SQ MI

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216 KK \* 2C \* CNAME 2R  
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217 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

218 HC HYDROGRAPH COMBINATION ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2C  
SUM OF 2 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 columns for two hydrographs. Rows list dates from 1 JAN 0000 to 1 JAN 0600 with corresponding flow values.

Summary statistics table with columns: PEAK FLOW (CFS), TIME (HR), MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR). Values include 2986 CFS peak flow and 4.64 SQ MI cumulative area.

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219 KK 2R CNAME 2C

220 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

221 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.12 MUSKINGUM K
X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 2R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 columns for two hydrographs. Rows list dates from 1 JAN 0000 to 1 JAN 0030 with corresponding flow values.

25yr.out														
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1284.	*	1 JAN 1930	79	162.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	898.	*	1 JAN 1945	80	156.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	693.	*	1 JAN 2000	81	151.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	563.	*	1 JAN 2015	82	145.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	478.	*	1 JAN 2030	83	139.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	417.	*	1 JAN 2045	84	135.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	375.	*	1 JAN 2100	85	132.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	346.	*	1 JAN 2115	86	130.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	325.	*	1 JAN 2130	87	129.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	307.	*	1 JAN 2145	88	127.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	290.	*	1 JAN 2200	89	126.
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	274.	*	1 JAN 2215	90	125.
1 JAN 0345	16	0.	*	1 JAN 1000	41	1.	*	1 JAN 1615	66	259.	*	1 JAN 2230	91	124.
1 JAN 0400	17	0.	*	1 JAN 1015	42	2.	*	1 JAN 1630	67	244.	*	1 JAN 2245	92	123.
1 JAN 0415	18	0.	*	1 JAN 1030	43	8.	*	1 JAN 1645	68	232.	*	1 JAN 2300	93	122.
1 JAN 0430	19	0.	*	1 JAN 1045	44	18.	*	1 JAN 1700	69	223.	*	1 JAN 2315	94	121.
1 JAN 0445	20	0.	*	1 JAN 1100	45	35.	*	1 JAN 1715	70	216.	*	1 JAN 2330	95	120.
1 JAN 0500	21	0.	*	1 JAN 1115	46	61.	*	1 JAN 1730	71	209.	*	1 JAN 2345	96	118.
1 JAN 0515	22	0.	*	1 JAN 1130	47	102.	*	1 JAN 1745	72	203.	*	2 JAN 0000	97	117.
1 JAN 0530	23	0.	*	1 JAN 1145	48	235.	*	1 JAN 1800	73	197.	*	2 JAN 0015	98	110.
1 JAN 0545	24	0.	*	1 JAN 1200	49	867.	*	1 JAN 1815	74	191.	*	2 JAN 0030	99	88.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2060.	*	1 JAN 1830	75	185.	*	2 JAN 0045	100	56.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
2874.	12.50	765.	236.	229.	229.
		(INCHES)	1.532	1.888	1.888
		(AC-FT)	379.	467.	467.

CUMULATIVE AREA = 4.64 SQ MI

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 222 KK 1B \*  
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223 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

226 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

224 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

225 PB STORM 4.65 BASIN TOTAL PRECIPITATION

227 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

252 LS SCS LOSS RATE  
 STRTL 0.81 INITIAL ABSTRACTION  
 CRVNR 71.15 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

253 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.28 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES

592. 779. 308. 114. 42. 25yr.out  
15. 6. 0.

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HYDROGRAPH AT STATION 1B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.14	0.05	0.08			350.
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.09	0.03	0.06			214.
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.08	0.03	0.05			144.
1	JAN	0045	4	0.01	0.01	0.00	0.	*		1	JAN	1315	54	0.07	0.02	0.04			108.
1	JAN	0100	5	0.01	0.01	0.00	0.	*		1	JAN	1330	55	0.06	0.02	0.04			88.
1	JAN	0115	6	0.01	0.01	0.00	0.	*		1	JAN	1345	56	0.05	0.02	0.03			74.
1	JAN	0130	7	0.01	0.01	0.00	0.	*		1	JAN	1400	57	0.05	0.02	0.03			65.
1	JAN	0145	8	0.01	0.01	0.00	0.	*		1	JAN	1415	58	0.04	0.01	0.03			59.
1	JAN	0200	9	0.01	0.01	0.00	0.	*		1	JAN	1430	59	0.04	0.01	0.03			54.
1	JAN	0215	10	0.01	0.01	0.00	0.	*		1	JAN	1445	60	0.04	0.01	0.03			51.
1	JAN	0230	11	0.01	0.01	0.00	0.	*		1	JAN	1500	61	0.04	0.01	0.02			48.
1	JAN	0245	12	0.01	0.01	0.00	0.	*		1	JAN	1515	62	0.03	0.01	0.02			46.
1	JAN	0300	13	0.01	0.01	0.00	0.	*		1	JAN	1530	63	0.03	0.01	0.02			43.
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.03	0.01	0.02			41.
1	JAN	0330	15	0.02	0.02	0.00	0.	*		1	JAN	1600	65	0.03	0.01	0.02			38.
1	JAN	0345	16	0.02	0.02	0.00	0.	*		1	JAN	1615	66	0.03	0.01	0.02			36.
1	JAN	0400	17	0.02	0.02	0.00	0.	*		1	JAN	1630	67	0.03	0.01	0.02			35.
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.02	0.01	0.02			34.
1	JAN	0430	19	0.02	0.02	0.00	0.	*		1	JAN	1700	69	0.02	0.01	0.02			33.
1	JAN	0445	20	0.02	0.02	0.00	0.	*		1	JAN	1715	70	0.02	0.01	0.02			32.
1	JAN	0500	21	0.02	0.02	0.00	0.	*		1	JAN	1730	71	0.02	0.01	0.02			31.
1	JAN	0515	22	0.02	0.02	0.00	0.	*		1	JAN	1745	72	0.02	0.01	0.02			30.
1	JAN	0530	23	0.02	0.02	0.00	0.	*		1	JAN	1800	73	0.02	0.01	0.01			29.
1	JAN	0545	24	0.02	0.02	0.00	0.	*		1	JAN	1815	74	0.02	0.01	0.01			28.
1	JAN	0600	25	0.02	0.02	0.00	0.	*		1	JAN	1830	75	0.02	0.01	0.01			27.
1	JAN	0615	26	0.02	0.02	0.00	0.	*		1	JAN	1845	76	0.02	0.01	0.01			26.
1	JAN	0630	27	0.02	0.02	0.00	0.	*		1	JAN	1900	77	0.02	0.01	0.01			25.
1	JAN	0645	28	0.02	0.02	0.00	0.	*		1	JAN	1915	78	0.02	0.01	0.01			24.
1	JAN	0700	29	0.02	0.02	0.00	0.	*		1	JAN	1930	79	0.02	0.00	0.01			24.
1	JAN	0715	30	0.02	0.02	0.00	0.	*		1	JAN	1945	80	0.02	0.00	0.01			23.
1	JAN	0730	31	0.02	0.02	0.00	0.	*		1	JAN	2000	81	0.02	0.00	0.01			22.
1	JAN	0745	32	0.02	0.02	0.00	0.	*		1	JAN	2015	82	0.02	0.00	0.01			21.
1	JAN	0800	33	0.03	0.03	0.00	0.	*		1	JAN	2030	83	0.01	0.00	0.01			20.
1	JAN	0815	34	0.03	0.03	0.00	0.	*		1	JAN	2045	84	0.01	0.00	0.01			20.
1	JAN	0830	35	0.03	0.03	0.00	0.	*		1	JAN	2100	85	0.01	0.00	0.01			20.
1	JAN	0845	36	0.03	0.03	0.00	0.	*		1	JAN	2115	86	0.01	0.00	0.01			20.
1	JAN	0900	37	0.04	0.04	0.00	0.	*		1	JAN	2130	87	0.01	0.00	0.01			19.
1	JAN	0915	38	0.04	0.04	0.00	0.	*		1	JAN	2145	88	0.01	0.00	0.01			19.
1	JAN	0930	39	0.04	0.04	0.00	0.	*		1	JAN	2200	89	0.01	0.00	0.01			19.
1	JAN	0945	40	0.04	0.04	0.00	0.	*		1	JAN	2215	90	0.01	0.00	0.01			19.
1	JAN	1000	41	0.04	0.04	0.00	0.	*		1	JAN	2230	91	0.01	0.00	0.01			19.
1	JAN	1015	42	0.05	0.05	0.00	1.	*		1	JAN	2245	92	0.01	0.00	0.01			19.
1	JAN	1030	43	0.06	0.05	0.00	3.	*		1	JAN	2300	93	0.01	0.00	0.01			19.
1	JAN	1045	44	0.07	0.06	0.01	6.	*		1	JAN	2315	94	0.01	0.00	0.01			18.
1	JAN	1100	45	0.08	0.07	0.01	10.	*		1	JAN	2330	95	0.01	0.00	0.01			18.
1	JAN	1115	46	0.10	0.08	0.01	17.	*		1	JAN	2345	96	0.01	0.00	0.01			18.
1	JAN	1130	47	0.13	0.10	0.02	28.	*		2	JAN	0000	97	0.01	0.00	0.01			18.
1	JAN	1145	48	0.51	0.36	0.15	111.	*		2	JAN	0015	98	0.00	0.00	0.00			12.
1	JAN	1200	49	1.26	0.64	0.61	487.	*		2	JAN	0030	99	0.00	0.00	0.00			5.
1	JAN	1215	50	0.20	0.08	0.12	597.	*		2	JAN	0045	100	0.00	0.00	0.00			2.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.78, TOTAL EXCESS = 1.87

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
+	597.	12.25	117.	36.	35.	35.
		(INCHES)	1.517	1.866	1.866	1.866
		(AC-FT)	58.	72.	72.	72.

CUMULATIVE AREA = 0.72 SQ MI

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*****
*      *
254 KK *      1C *      CNAME 1C
*      *
*****

255 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLST 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH AT STATION 1C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3224.	*	1	JAN	1845	76	206.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2945.	*	1	JAN	1900	77	199.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2120.	*	1	JAN	1915	78	192.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1393.	*	1	JAN	1930	79	186.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	986.	*	1	JAN	1945	80	179.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	767.	*	1	JAN	2000	81	172.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	628.	*	1	JAN	2015	82	166.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	536.	*	1	JAN	2030	83	159.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	471.	*	1	JAN	2045	84	155.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	425.	*	1	JAN	2100	85	152.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	394.	*	1	JAN	2115	86	150.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	370.	*	1	JAN	2130	87	148.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	350.	*	1	JAN	2145	88	147.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	331.	*	1	JAN	2200	89	145.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	0.	*	1	JAN	1600	65	313.	*	1	JAN	2215	90	144.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1.	*	1	JAN	1615	66	295.	*	1	JAN	2230	91	143.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	3.	*	1	JAN	1630	67	279.	*	1	JAN	2245	92	141.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	10.	*	1	JAN	1645	68	265.	*	1	JAN	2300	93	140.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	24.	*	1	JAN	1700	69	255.	*	1	JAN	2315	94	139.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	45.	*	1	JAN	1715	70	247.	*	1	JAN	2330	95	138.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	78.	*	1	JAN	1730	71	240.	*	1	JAN	2345	96	136.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	130.	*	1	JAN	1745	72	233.	*	2	JAN	0000	97	135.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	346.	*	1	JAN	1800	73	226.	*	2	JAN	0015	98	122.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1354.	*	1	JAN	1815	74	219.	*	2	JAN	0030	99	93.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	2657.	*	1	JAN	1830	75	213.	*	2	JAN	0045	100	57.	*

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
3224.	12.50		881.	272.	264.	264.
		(INCHES)	1,527	1,885	1,885	1,885
		(AC-FT)	437.	539.	539.	539.
CUMULATIVE AREA =			5.36 SQ MI			

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 \* \*  
 257 KK 1C \* CNAME 1C  
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258 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

259 RN NO ROUTING

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HYDROGRAPH AT STATION 1C

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3224.	*	1	JAN	1845	76	206.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2945.	*	1	JAN	1900	77	199.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2120.	*	1	JAN	1915	78	192.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1393.	*	1	JAN	1930	79	186.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	986.	*	1	JAN	1945	80	179.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	767.	*	1	JAN	2000	81	172.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	628.	*	1	JAN	2015	82	166.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	536.	*	1	JAN	2030	83	159.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	471.	*	1	JAN	2045	84	155.	*

						25yr.out								
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	425.	*	1 JAN 2100	85	152.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	394.	*	1 JAN 2115	86	150.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	370.	*	1 JAN 2130	87	148.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	350.	*	1 JAN 2145	88	147.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	331.	*	1 JAN 2200	89	145.
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	313.	*	1 JAN 2215	90	144.
1 JAN 0345	16	0.	*	1 JAN 1000	41	1.	*	1 JAN 1615	66	295.	*	1 JAN 2230	91	143.
1 JAN 0400	17	0.	*	1 JAN 1015	42	3.	*	1 JAN 1630	67	279.	*	1 JAN 2245	92	141.
1 JAN 0415	18	0.	*	1 JAN 1030	43	10.	*	1 JAN 1645	68	265.	*	1 JAN 2300	93	140.
1 JAN 0430	19	0.	*	1 JAN 1045	44	24.	*	1 JAN 1700	69	255.	*	1 JAN 2315	94	139.
1 JAN 0445	20	0.	*	1 JAN 1100	45	45.	*	1 JAN 1715	70	247.	*	1 JAN 2330	95	138.
1 JAN 0500	21	0.	*	1 JAN 1115	46	78.	*	1 JAN 1730	71	240.	*	1 JAN 2345	96	136.
1 JAN 0515	22	0.	*	1 JAN 1130	47	130.	*	1 JAN 1745	72	233.	*	2 JAN 0000	97	135.
1 JAN 0530	23	0.	*	1 JAN 1145	48	346.	*	1 JAN 1800	73	226.	*	2 JAN 0015	98	122.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1354.	*	1 JAN 1815	74	219.	*	2 JAN 0030	99	93.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2657.	*	1 JAN 1830	75	213.	*	2 JAN 0045	100	57.

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.75-HR
3224.	12.50	(CFS)	881.	272.	264.	264.
		(INCHES)	1.527	1.885	1.885	1.885
		(AC-FT)	437.	539.	539.	539.

CUMULATIVE AREA = 5.36 SQ MI

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
+									
+	HYDROGRAPH AT								
+	5bB	582.	12.25	131.	40.	39.	0.72		
+	HYDROGRAPH AT								
+	5aB	509.	12.25	104.	32.	31.	0.60		
+	2 COMBINED AT								
+	5C	1092.	12.25	235.	72.	70.	1.32		
+	ROUTED TO								
+	5R	1015.	12.50	234.	72.	70.	1.32		
+	HYDROGRAPH AT								
+	4aB	660.	12.25	139.	43.	42.	0.88		
+	HYDROGRAPH AT								
+	4bB	449.	12.25	98.	30.	29.	0.60		
+	3 COMBINED AT								
+	4C	1991.	12.25	471.	145.	141.	2.80		
+	ROUTED TO								
+	4R	2008.	12.50	470.	145.	141.	2.80		
+	HYDROGRAPH AT								
+	3B	895.	12.25	182.	56.	54.	1.13		
+	2 COMBINED AT								
+	3C	2622.	12.50	652.	201.	195.	3.93		
+	ROUTED TO								
+	3R	2682.	12.50	651.	201.	195.	3.93		
+	HYDROGRAPH AT								
+	2B	571.	12.25	114.	35.	34.	0.71		
+	2 COMBINED AT								
+	2C	2986.	12.50	765.	236.	229.	4.64		
+	ROUTED TO								
+	2R	2874.	12.50	765.	236.	229.	4.64		
+	HYDROGRAPH AT								
+	1B	597.	12.25	117.	36.	35.	0.72		
+	2 COMBINED AT								
+	1C	3224.	12.50	881.	272.	264.	5.36		
+	ROUTED TO								
+	1C	3224.	12.50	881.	272.	264.	5.36		

\*\*\* NORMAL END OF HEC-1 \*\*\*

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\*
\* FLOOD HYDROGRAPH PACKAGE (HEC-1)
\* MAY 1991
\* VERSION 4.0.1E
\*
\* RUN DATE TIME
\*
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\*
\* U.S. ARMY CORPS OF ENGINEERS
\* HYDROLOGIC ENGINEERING CENTER
\* 609 SECOND STREET
\* DAVIS, CALIFORNIA 95616
\* (916) 551-1748
\*
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1G5, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

Table with columns: LINE, ID, and numerical data. Includes entries for Seng Creek, Logging (Scenario 2), LIDAR Data, and various PC coefficients.

HEC-1 INPUT

Table with columns: LINE, ID, and numerical data. Continuation of the HEC-1 INPUT data.

100yr.out											
51	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
52	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
53	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
54	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
55	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
56	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
57	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
58	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
59	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
60	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
61	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
62	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
63	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
64	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
65	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
66	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
67	PC	1.0									
68	LS	0.0	72.51	0.0							
69	UD	0.344									
70	KK	5C	CNAME	5R							
71	KO	0	0	0.0	0	22					
72	HC	2									
73	KK	5R	CNAME	5C							
74	KO	0	0	0.0	0	22					
75	RM	1	0.124	0.2							
76	KK	4aB									
77	KO	0	0	0.0	1	22					
78	BA	0.8767									
79	PB	5.45									
80	IN	6	1JAN94	0							
		* typeII-24hour									
81	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
82	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
83	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
84	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
85	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
86	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
87	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
88	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
89	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
90	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
91	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
92	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
93	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
94	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
95	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
96	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
97	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
98	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
99	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
100	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
101	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
102	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
103	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
104	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
105	PC	1.0									
106	LS	0.0	70.52	0.0							
107	UD	0.358									
108	KK	4bB									
109	KO	0	0	0.0	1	22					
110	BA	0.6014									
111	PB	5.45									
112	IN	6	1JAN94	0							
		* typeII-24hour									
113	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
114	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
115	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
116	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
117	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
118	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
119	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
120	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
121	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
122	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
123	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
124	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
125	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
126	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
127	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
128	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
129	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
130	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
131	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
132	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
133	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
134	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
135	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
136	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
137	PC	1.0									



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138     LS      0.0  71.15  0.0
139     UD      0.383

140     KK      4C  CNAME    4R
141     KO      0      0      0.0    0    22
142     HC      3

143     KK      4R  CNAME    4C
144     KO      0      0      0.0    0    22
145     RM      1  0.112  0.2

146     KK      3B
147     KO      0      0      0.0    1    22
148     BA      1.1321
149     PB      5.45
150     IN      6  1JAN94    0
      * typeII-24hour

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HEC-1 INPUT

PAGE 4

LINE	ID	1	2	3	4	5	6	7	8	9	10
151	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
152	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
153	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
154	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
155	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
156	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
157	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
158	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
159	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
160	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
161	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
162	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
163	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
164	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
165	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
166	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
167	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
168	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
169	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
170	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
171	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
172	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
173	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
174	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
175	PC	1.0									
176	LS	0.0	70.75	0.0							
177	UD	0.3323									
178	KK	3C	CNAME	3R							
179	KO	0	0	0.0	0	22					
180	HC	2									
181	KK	3R	CNAME	3C							
182	KO	0	0	0.0	0	22					
183	RM	1	0.081	0.2							
184	KK	2B									
185	KO	0	0	0.0	1	22					
186	BA	0.7082									
187	PB	5.45									
188	IN	6	1JAN94	0							
189	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
190	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
191	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
192	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
193	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
194	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
195	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
196	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
197	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
198	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
199	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
200	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
201	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656

HEC-1 INPUT

PAGE 5

LINE	ID	1	2	3	4	5	6	7	8	9	10
202	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
203	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
204	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
205	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
206	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
207	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
208	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
209	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
210	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
211	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
212	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
213	PC	1.0									
214	LS	0.0	70.88	0.0							
215	UD	0.2379									
216	KK	2C	CNAME	2R							

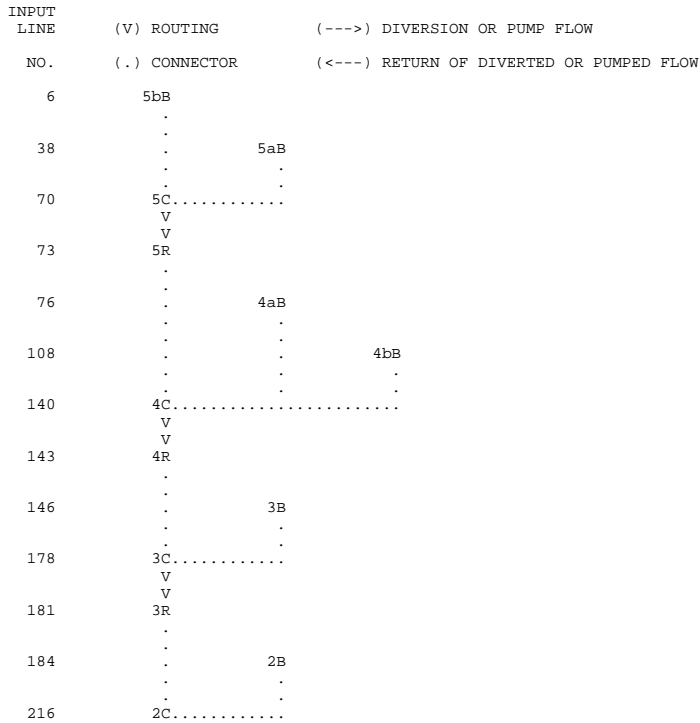
LINE	CODE	VALUE	UNIT	DATE	TIME	100yr.out
217	KO	0		0.0	0	
218	HC	2				22
219	KK	2R	CNAME	2C		
220	KO	0		0.0	0	22
221	RM	1	0.119	0.2		
222	KK	1B				
223	KO	0		0.0	1	22
224	BA	0.7193				
225	PB	5.45				
226	IN	6	1JAN94	0		
* typeII-24hour						
227	PC	0.0	0.001	0.002	0.0031	0.0041
228	PC	0.0105	0.0116	0.0127	0.0138	0.015
229	PC	0.022	0.0232	0.0244	0.0256	0.0269
230	PC	0.0345	0.0358	0.0371	0.0384	0.0398
231	PC	0.048	0.0494	0.0508	0.0523	0.0538
232	PC	0.063	0.0646	0.0662	0.0679	0.0696
233	PC	0.08	0.0818	0.0836	0.0855	0.0874
234	PC	0.099	0.101	0.103	0.1051	0.1072
235	PC	0.12	0.1223	0.1246	0.1271	0.1296
236	PC	0.147	0.1502	0.1534	0.1566	0.1598
237	PC	0.181	0.1851	0.1895	0.1941	0.1989
238	PC	0.235	0.2427	0.2513	0.2609	0.2715
239	PC	0.663	0.682	0.6986	0.713	0.7252
240	PC	0.772	0.778	0.7836	0.789	0.7942
241	PC	0.82	0.8237	0.8273	0.8308	0.8342
242	PC	0.8535	0.8565	0.8594	0.8622	0.8649
243	PC	0.88	0.8823	0.8845	0.8868	0.889
244	PC	0.9018	0.9038	0.9058	0.9078	0.9097
245	PC	0.921	0.9228	0.9245	0.9263	0.928
246	PC	0.9377	0.9393	0.9408	0.9423	0.9437
247	PC	0.952	0.9533	0.9546	0.9559	0.9572
248	PC	0.9648	0.966	0.9672	0.9685	0.9697
249	PC	0.977	0.9782	0.9794	0.9806	0.9818
250	PC	0.9888	0.9899	0.991	0.9922	0.9933
251	PC	1.0				
252	LS	0.0	71.15	0.0		

HEC-1 INPUT

PAGE 6

LINE	ID	1	2	3	4	5	6	7	8	9	10
253	UD	0.2797									
254	KK	1C	CNAME	1C							
255	KO	0	0	0.0	0	0	22				
256	HC	2									
257	KK	1C	CNAME	1C							
258	KO	0	0	0.0	0	0	22				
259	RN	1C									
260	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK



219 V
V
2R
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222 . 1B
.
.
254 1C.....
V
V
257 1C

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1\*\*\*\*\*
\*
\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*
\* MAY 1991 \*
\* VERSION 4.0.1E \*
\* RUN DATE TIME \*
\*
\*\*\*\*\*

\*\*\*\*\*
\*
\* U.S. ARMY CORPS OF ENGINEERS \*
\* HYDROLOGIC ENGINEERING CENTER \*
\* 609 SECOND STREET \*
\* DAVIS, CALIFORNIA 95616 \*
\* (916) 551-1748 \*
\*
\*\*\*\*\*

Seng Creek
w Mining & wo Logging (Scenario 2), LIDAR Data
100 yr Storm

5 IO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
NMIN 15 MINUTES IN COMPUTATION INTERVAL
IDATE 1JAN94 STARTING DATE
ITIME 0000 STARTING TIME
NQ, 100 NUMBER OF HYDROGRAPH ORDINATES
NDDATE 2JAN94 ENDING DATE
NDTIME 0045 ENDING TIME
ICENT 19 CENTURY MARK

COMPUTATION INTERVAL 0.25 HOURS
TOTAL TIME BASE 24.75 HOURS

ENGLISH UNITS
DRAINAGE AREA SQUARE MILES
PRECIPITATION DEPTH INCHES
LENGTH, ELEVATION FEET
FLOW CUBIC FEET PER SECOND
STORAGE VOLUME ACRE-FEET
SURFACE AREA ACRES
TEMPERATURE DEGREES FAHRENHEIT

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*
\*
\* 5bB \*
\*
\*\*\*\*\*

7 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

10 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 6 TIME INTERVAL IN MINUTES
JXDATE 1JAN94 STARTING DATE
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

8 BA SUBBASIN CHARACTERISTICS
TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

9 PB STORM 5.45 BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01

0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

36 LS SCS LOSS RATE  
 STRTL 0.71 INITIAL ABSTRACTION  
 CRVNBR 73.87 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

37 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.41 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES  
 273. 649. 509. 228. 109. 50. 24. 11. 6. 2.

HYDROGRAPH AT STATION 5bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.04	0.12	661.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	417.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.02	0.07	280.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	198.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	151.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.01	0.05	122.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.04	103.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	88.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	78.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	72.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	67.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	64.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	60.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	57.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	53.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	50.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	48.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	46.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	44.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	43.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	42.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	40.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	39.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.00	0.02	38.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	37.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	36.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	34.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	33.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	32.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.02	31.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	29.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	28.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	27.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	27.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	26.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	26.
1	JAN	0900	37	0.04	0.04	0.00	1.	*	1	JAN	2130	87	0.02	0.00	0.01	26.
1	JAN	0915	38	0.04	0.04	0.00	2.	*	1	JAN	2145	88	0.02	0.00	0.01	25.
1	JAN	0930	39	0.04	0.04	0.00	4.	*	1	JAN	2200	89	0.02	0.00	0.01	25.
1	JAN	0945	40	0.05	0.04	0.00	6.	*	1	JAN	2215	90	0.02	0.00	0.01	25.
1	JAN	1000	41	0.05	0.05	0.01	8.	*	1	JAN	2230	91	0.02	0.00	0.01	25.
1	JAN	1015	42	0.06	0.05	0.01	11.	*	1	JAN	2245	92	0.02	0.00	0.01	24.
1	JAN	1030	43	0.07	0.05	0.01	14.	*	1	JAN	2300	93	0.02	0.00	0.01	24.
1	JAN	1045	44	0.08	0.06	0.02	19.	*	1	JAN	2315	94	0.02	0.00	0.01	24.
1	JAN	1100	45	0.09	0.07	0.02	26.	*	1	JAN	2330	95	0.02	0.00	0.01	24.
1	JAN	1115	46	0.11	0.08	0.03	36.	*	1	JAN	2345	96	0.02	0.00	0.01	23.
1	JAN	1130	47	0.15	0.10	0.05	51.	*	2	JAN	0000	97	0.01	0.00	0.01	23.
1	JAN	1145	48	0.60	0.34	0.25	124.	*	2	JAN	0015	98	0.00	0.00	0.00	20.
1	JAN	1200	49	1.47	0.58	0.90	444.	*	2	JAN	0030	99	0.00	0.00	0.00	12.
1	JAN	1215	50	0.23	0.07	0.17	773.	*	2	JAN	0045	100	0.00	0.00	0.00	5.

TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.73, TOTAL EXCESS = 2.72

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(CFS)	(CFS)	(CFS)
773.	12.25	170.	53.	51.	51.
		(INCHES)	(INCHES)	(INCHES)	(INCHES)
		2.198	2.713	2.713	2.713
		(AC-FT)	(AC-FT)	(AC-FT)	(AC-FT)
		84.	104.	104.	104.

CUMULATIVE AREA = 0.72 SQ MI

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 38 KK \* 5aB \*  
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39 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

42 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

40 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

41 PB STORM 5.45 BASIN TOTAL PRECIPITATION

43 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

68 LS SCS LOSS RATE  
 STRTL 0.76 INITIAL ABSTRACTION  
 CRVNR 72.51 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

69 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.34 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 334. 624. 352. 145. 61. 25. 11. 5. 1.

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HYDROGRAPH AT STATION 5aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	477.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	293.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.07	193.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	138.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	108.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	90.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.04	77.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	67.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	61.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	57.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	54.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	51.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	48.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	45.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	43.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	40.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	38.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	37.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	36.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	35.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	34.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	33.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	32.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	31.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	30.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	29.

										100yr.out			
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.02	28.	
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	27.	
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	26.	
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	25.	
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	24.	
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	23.	
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	22.	
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	22.	
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	22.	
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	21.	
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	21.	
1 JAN 0915	38	0.04	0.04	0.00	1.	*	1 JAN 2145	88	0.02	0.00	0.01	21.	
1 JAN 0930	39	0.04	0.04	0.00	2.	*	1 JAN 2200	89	0.02	0.00	0.01	21.	
1 JAN 0945	40	0.05	0.04	0.00	3.	*	1 JAN 2215	90	0.02	0.00	0.01	20.	
1 JAN 1000	41	0.05	0.05	0.01	5.	*	1 JAN 2230	91	0.02	0.00	0.01	20.	
1 JAN 1015	42	0.06	0.05	0.01	7.	*	1 JAN 2245	92	0.02	0.00	0.01	20.	
1 JAN 1030	43	0.07	0.06	0.01	10.	*	1 JAN 2300	93	0.02	0.00	0.01	20.	
1 JAN 1045	44	0.08	0.06	0.01	14.	*	1 JAN 2315	94	0.02	0.00	0.01	20.	
1 JAN 1100	45	0.09	0.07	0.02	20.	*	1 JAN 2330	95	0.02	0.00	0.01	19.	
1 JAN 1115	46	0.11	0.09	0.03	28.	*	1 JAN 2345	96	0.02	0.00	0.01	19.	
1 JAN 1130	47	0.15	0.10	0.04	42.	*	2 JAN 0000	97	0.01	0.00	0.01	19.	
1 JAN 1145	48	0.60	0.36	0.23	119.	*	2 JAN 0015	98	0.00	0.00	0.00	15.	
1 JAN 1200	49	1.47	0.62	0.86	454.	*	2 JAN 0030	99	0.00	0.00	0.00	7.	
1 JAN 1215	50	0.23	0.07	0.16	680.	*	2 JAN 0045	100	0.00	0.00	0.00	3.	

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.86, TOTAL EXCESS = 2.59

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
680.	12.25	137.	42.	41.	41.
		(INCHES)	2.103	2.593	2.593
		(AC-FT)	68.	84.	84.

CUMULATIVE AREA = 0.60 SQ MI

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 70 KK 5C \* CNAME 5R  
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71 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

72 HC HYDROGRAPH COMBINATION  
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 5C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	1138.	*	1 JAN 1845	76	64.									
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	710.	*	1 JAN 1900	77	62.									
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	472.	*	1 JAN 1915	78	60.									
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	336.	*	1 JAN 1930	79	58.									
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	259.	*	1 JAN 1945	80	56.									
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	212.	*	1 JAN 2000	81	53.									
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	179.	*	1 JAN 2015	82	51.									
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	155.	*	1 JAN 2030	83	49.									
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	139.	*	1 JAN 2045	84	48.									
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	129.	*	1 JAN 2100	85	48.									
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	121.	*	1 JAN 2115	86	47.									
1 JAN 0245	12	0.	*	1 JAN 0900	37	1.	*	1 JAN 1515	62	114.	*	1 JAN 2130	87	47.									
1 JAN 0300	13	0.	*	1 JAN 0915	38	3.	*	1 JAN 1530	63	108.	*	1 JAN 2145	88	46.									
1 JAN 0315	14	0.	*	1 JAN 0930	39	6.	*	1 JAN 1545	64	102.	*	1 JAN 2200	89	46.									
1 JAN 0330	15	0.	*	1 JAN 0945	40	9.	*	1 JAN 1600	65	96.	*	1 JAN 2215	90	46.									
1 JAN 0345	16	0.	*	1 JAN 1000	41	13.	*	1 JAN 1615	66	90.	*	1 JAN 2230	91	45.									
1 JAN 0400	17	0.	*	1 JAN 1015	42	18.	*	1 JAN 1630	67	86.	*	1 JAN 2245	92	44.									
1 JAN 0415	18	0.	*	1 JAN 1030	43	25.	*	1 JAN 1645	68	82.	*	1 JAN 2300	93	44.									
1 JAN 0430	19	0.	*	1 JAN 1045	44	34.	*	1 JAN 1700	69	80.	*	1 JAN 2315	94	44.									
1 JAN 0445	20	0.	*	1 JAN 1100	45	46.	*	1 JAN 1715	70	77.	*	1 JAN 2330	95	43.									
1 JAN 0500	21	0.	*	1 JAN 1115	46	64.	*	1 JAN 1730	71	75.	*	1 JAN 2345	96	43.									
1 JAN 0515	22	0.	*	1 JAN 1130	47	92.	*	1 JAN 1745	72	73.	*	2 JAN 0000	97	43.									

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100yr.out
1 JAN 0530 23 0. * 1 JAN 1145 48 243. * 1 JAN 1800 73 71. * 2 JAN 0015 98 35.
1 JAN 0545 24 0. * 1 JAN 1200 49 898. * 1 JAN 1815 74 68. * 2 JAN 0030 99 19.
1 JAN 0600 25 0. * 1 JAN 1215 50 1452. * 1 JAN 1830 75 66. * 2 JAN 0045 100 8.

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.75-HR
1452.	12.25	(CFS)	307.	95.	92.	92.
		(INCHES)	2.154	2.658	2.658	2.658
		(AC-FT)	152.	188.	188.	188.

CUMULATIVE AREA = 1.32 SQ MI

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73 KK      5R      CNAME      5C
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74 KO      OUTPUT CONTROL VARIABLES
          IPRNT      0 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
          IPNCH      0 PUNCH COMPUTED HYDROGRAPH
          IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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75 RM      MUSKINGUM ROUTING
          NSTPS      1 NUMBER OF SUBREACHES
          AMSKK      0.12 MUSKINGUM K
          X          0.20 MUSKINGUM X

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**** WARNING **** POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 5R

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DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW	
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	1343.	*	1	JAN	1845	76	65.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	923.	*	1	JAN	1900	77	63.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	579.	*	1	JAN	1915	78	61.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	399.	*	1	JAN	1930	79	59.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	295.	*	1	JAN	1945	80	57.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	234.	*	1	JAN	2000	81	54.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	195.	*	1	JAN	2015	82	52.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	167.	*	1	JAN	2030	83	50.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	147.	*	1	JAN	2045	84	49.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	133.	*	1	JAN	2100	85	48.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	125.	*	1	JAN	2115	86	48.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1.	*	1	JAN	1515	62	118.	*	1	JAN	2130	87	47.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2.	*	1	JAN	1530	63	111.	*	1	JAN	2145	88	46.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	4.	*	1	JAN	1545	64	105.	*	1	JAN	2200	89	46.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	7.	*	1	JAN	1600	65	99.	*	1	JAN	2215	90	46.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	11.	*	1	JAN	1615	66	93.	*	1	JAN	2230	91	45.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	15.	*	1	JAN	1630	67	88.	*	1	JAN	2245	92	45.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	21.	*	1	JAN	1645	68	84.	*	1	JAN	2300	93	44.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	29.	*	1	JAN	1700	69	81.	*	1	JAN	2315	94	44.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	40.	*	1	JAN	1715	70	79.	*	1	JAN	2330	95	44.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	55.	*	1	JAN	1730	71	76.	*	1	JAN	2345	96	43.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	78.	*	1	JAN	1745	72	74.	*	2	JAN	0000	97	43.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	161.	*	1	JAN	1800	73	72.	*	2	JAN	0015	98	39.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	545.	*	1	JAN	1815	74	70.	*	2	JAN	0030	99	27.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	1187.	*	1	JAN	1830	75	67.	*	2	JAN	0045	100	13.	*

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.75-HR
1343.	12.50	(CFS)	307.	95.	92.	92.
		(INCHES)	2.155	2.656	2.656	2.656
		(AC-FT)	152.	188.	188.	188.

CUMULATIVE AREA = 1.32 SQ MI

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 \* \*  
 76 KK 4aB \*  
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77 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

80 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

78 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.88 SUBBASIN AREA

PRECIPITATION DATA

79 PB STORM 5.45 BASIN TOTAL PRECIPITATION

81 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00

106 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNR 70.52 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

107 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.36 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 445. 881. 545. 225. 97. 42. 18. 8. 3.

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HYDROGRAPH AT STATION 4aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	668.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.07	411.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.06	273.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.05	197.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	154.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	127.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.04	108.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	94.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	86.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	80.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	75.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	71.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	67.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	64.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	60.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	56.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	53.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	52.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	50.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	49.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	47.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	46.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	44.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	43.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	42.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	40.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.02	39.



100yr.out												
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.01	0.02	37.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	36.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	35.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	33.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	32.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	31.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	30.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	30.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	30.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	29.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.02	0.00	0.01	29.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.02	0.00	0.01	29.
1 JAN 0945	40	0.05	0.04	0.00	1.	*	1 JAN 2215	90	0.02	0.00	0.01	29.
1 JAN 1000	41	0.05	0.05	0.00	3.	*	1 JAN 2230	91	0.02	0.00	0.01	28.
1 JAN 1015	42	0.06	0.05	0.00	6.	*	1 JAN 2245	92	0.02	0.00	0.01	28.
1 JAN 1030	43	0.07	0.06	0.01	9.	*	1 JAN 2300	93	0.02	0.00	0.01	28.
1 JAN 1045	44	0.08	0.07	0.01	14.	*	1 JAN 2315	94	0.02	0.00	0.01	28.
1 JAN 1100	45	0.09	0.08	0.02	21.	*	1 JAN 2330	95	0.02	0.00	0.01	27.
1 JAN 1115	46	0.11	0.09	0.02	32.	*	1 JAN 2345	96	0.02	0.00	0.01	27.
1 JAN 1130	47	0.15	0.11	0.04	48.	*	2 JAN 0000	97	0.01	0.00	0.01	27.
1 JAN 1145	48	0.60	0.39	0.21	142.	*	2 JAN 0015	98	0.00	0.00	0.00	21.
1 JAN 1200	49	1.47	0.67	0.80	565.	*	2 JAN 0030	99	0.00	0.00	0.00	11.
1 JAN 1215	50	0.23	0.08	0.15	896.	*	2 JAN 0045	100	0.00	0.00	0.00	5.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.03, TOTAL EXCESS = 2.42

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
		(CFS)				
896.	12.25		185.	57.	55.	55.
		(INCHES)	1.964	2.418	2.418	2.418
		(AC-FT)	92.	113.	113.	113.

CUMULATIVE AREA = 0.88 SQ MI

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 \* \*  
 108 KK \* 4bB \*  
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109 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

112 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

110 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

111 PB STORM 5.45 BASIN TOTAL PRECIPITATION

113 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

138 LS SCS LOSS RATE  
 STRTL 0.81 INITIAL ABSTRACTION  
 CRVNBR 71.15 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

139 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.38 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
10 END-OF-PERIOD ORDINATES

263. 575. 405. 170. 78. 35. 16. 7. 3. 0.

HYDROGRAPH AT STATION 4bb

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	489.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	303.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.06	202.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	145.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	112.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	92.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.04	78.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	67.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	60.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	56.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	53.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	50.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	47.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	44.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	42.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	39.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	37.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	36.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	35.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	34.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	33.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	32.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	31.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	30.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	29.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	28.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.02	27.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	26.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	25.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	24.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	23.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	22.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	22.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	21.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	21.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	21.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.02	0.00	0.01	20.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.02	0.00	0.01	20.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.02	0.00	0.01	20.
1	JAN	0945	40	0.05	0.04	0.00	1.	*	1	JAN	2215	90	0.02	0.00	0.01	20.
1	JAN	1000	41	0.05	0.05	0.00	3.	*	1	JAN	2230	91	0.02	0.00	0.01	20.
1	JAN	1015	42	0.06	0.05	0.01	5.	*	1	JAN	2245	92	0.02	0.00	0.01	19.
1	JAN	1030	43	0.07	0.06	0.01	7.	*	1	JAN	2300	93	0.02	0.00	0.01	19.
1	JAN	1045	44	0.08	0.07	0.01	11.	*	1	JAN	2315	94	0.02	0.00	0.01	19.
1	JAN	1100	45	0.09	0.07	0.02	16.	*	1	JAN	2330	95	0.02	0.00	0.01	19.
1	JAN	1115	46	0.11	0.09	0.02	23.	*	1	JAN	2345	96	0.02	0.00	0.01	19.
1	JAN	1130	47	0.15	0.11	0.04	34.	*	2	JAN	0000	97	0.01	0.00	0.01	19.
1	JAN	1145	48	0.60	0.38	0.22	93.	*	2	JAN	0015	98	0.00	0.00	0.00	15.
1	JAN	1200	49	1.47	0.66	0.82	361.	*	2	JAN	0030	99	0.00	0.00	0.00	8.
1	JAN	1215	50	0.23	0.08	0.15	607.	*	2	JAN	0045	100	0.00	0.00	0.00	4.

TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.97, TOTAL EXCESS = 2.48

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)			
607.	12.25	130.	40.	39.	39.
		(INCHES)	2.007	2.472	2.472
		(AC-FT)	64.	79.	79.

CUMULATIVE AREA = 0.60 SQ MI

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*           *
140 KK      4C *      CNAME      4R
*           *
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141 KO      OUTPUT CONTROL VARIABLES
            IPRNT  0  PRINT CONTROL
            IPLOT  0  PLOT CONTROL
            QSCAL  0. HYDROGRAPH PLOT SCALE
            IPNCH  0  PUNCH COMPUTED HYDROGRAPH
            IOUT   22 SAVE HYDROGRAPH ON THIS UNIT
            ISAV1  1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2 100 LAST ORDINATE PUNCHED OR SAVED

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100yr.out  
TIMINT 0.250 TIME INTERVAL IN HOURS

142 HC HYDROGRAPH COMBINATION  
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4C  
SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	2500.	1	JAN	1845	76	134.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	1637.	1	JAN	1900	77	129.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	1055.	1	JAN	1915	78	124.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	741.	1	JAN	1930	79	120.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	560.	1	JAN	1945	80	116.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	453.	1	JAN	2000	81	111.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	381.	1	JAN	2015	82	106.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	328.	1	JAN	2030	83	103.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	293.	1	JAN	2045	84	100.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	269.	1	JAN	2100	85	99.
1	JAN	0230	11	0.	1	JAN	0845	36	0.	1	JAN	1500	61	253.	1	JAN	2115	86	98.
1	JAN	0245	12	0.	1	JAN	0900	37	1.	1	JAN	1515	62	239.	1	JAN	2130	87	97.
1	JAN	0300	13	0.	1	JAN	0915	38	2.	1	JAN	1530	63	226.	1	JAN	2145	88	96.
1	JAN	0315	14	0.	1	JAN	0930	39	5.	1	JAN	1545	64	213.	1	JAN	2200	89	95.
1	JAN	0330	15	0.	1	JAN	0945	40	10.	1	JAN	1600	65	201.	1	JAN	2215	90	94.
1	JAN	0345	16	0.	1	JAN	1000	41	17.	1	JAN	1615	66	189.	1	JAN	2230	91	93.
1	JAN	0400	17	0.	1	JAN	1015	42	26.	1	JAN	1630	67	179.	1	JAN	2245	92	92.
1	JAN	0415	18	0.	1	JAN	1030	43	38.	1	JAN	1645	68	172.	1	JAN	2300	93	92.
1	JAN	0430	19	0.	1	JAN	1045	44	54.	1	JAN	1700	69	166.	1	JAN	2315	94	91.
1	JAN	0445	20	0.	1	JAN	1100	45	77.	1	JAN	1715	70	161.	1	JAN	2330	95	90.
1	JAN	0500	21	0.	1	JAN	1115	46	109.	1	JAN	1730	71	156.	1	JAN	2345	96	89.
1	JAN	0515	22	0.	1	JAN	1130	47	160.	1	JAN	1745	72	152.	2	JAN	0000	97	88.
1	JAN	0530	23	0.	1	JAN	1145	48	396.	1	JAN	1800	73	147.	2	JAN	0015	98	76.
1	JAN	0545	24	0.	1	JAN	1200	49	1472.	1	JAN	1815	74	142.	2	JAN	0030	99	47.
1	JAN	0600	25	0.	1	JAN	1215	50	2689.	1	JAN	1830	75	138.	2	JAN	0045	100	22.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW
(CFS)	(HR)	6-HR 24-HR 72-HR 24.75-HR
2689.	12.25	622. 192. 186. 186.
		(INCHES) 2.063 2.542 2.542 2.542
		(AC-FT) 308. 380. 380. 380.

CUMULATIVE AREA = 2.80 SQ MI

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143 KK 4R CNAME 4C

144 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

145 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.11 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 4R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW					
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	2689.	1	JAN	1845	76	136.

100yr.out

1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	2056.	*	1 JAN 1900	77	131.
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	1290.	*	1 JAN 1915	78	126.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	866.	*	1 JAN 1930	79	122.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	634.	*	1 JAN 1945	80	118.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	497.	*	1 JAN 2000	81	113.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	411.	*	1 JAN 2015	82	108.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	351.	*	1 JAN 2030	83	104.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	308.	*	1 JAN 2045	84	101.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	279.	*	1 JAN 2100	85	99.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	260.	*	1 JAN 2115	86	99.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	245.	*	1 JAN 2130	87	97.
1 JAN 0300	13	0.	*	1 JAN 0915	38	1.	*	1 JAN 1530	63	232.	*	1 JAN 2145	88	96.
1 JAN 0315	14	0.	*	1 JAN 0930	39	4.	*	1 JAN 1545	64	219.	*	1 JAN 2200	89	95.
1 JAN 0330	15	0.	*	1 JAN 0945	40	8.	*	1 JAN 1600	65	206.	*	1 JAN 2215	90	95.
1 JAN 0345	16	0.	*	1 JAN 1000	41	13.	*	1 JAN 1615	66	194.	*	1 JAN 2230	91	94.
1 JAN 0400	17	0.	*	1 JAN 1015	42	21.	*	1 JAN 1630	67	183.	*	1 JAN 2245	92	93.
1 JAN 0415	18	0.	*	1 JAN 1030	43	32.	*	1 JAN 1645	68	175.	*	1 JAN 2300	93	92.
1 JAN 0430	19	0.	*	1 JAN 1045	44	47.	*	1 JAN 1700	69	168.	*	1 JAN 2315	94	91.
1 JAN 0445	20	0.	*	1 JAN 1100	45	66.	*	1 JAN 1715	70	163.	*	1 JAN 2330	95	90.
1 JAN 0500	21	0.	*	1 JAN 1115	46	94.	*	1 JAN 1730	71	158.	*	1 JAN 2345	96	89.
1 JAN 0515	22	0.	*	1 JAN 1130	47	136.	*	1 JAN 1745	72	154.	*	2 JAN 0000	97	88.
1 JAN 0530	23	0.	*	1 JAN 1145	48	277.	*	1 JAN 1800	73	149.	*	2 JAN 0015	98	82.
1 JAN 0545	24	0.	*	1 JAN 1200	49	930.	*	1 JAN 1815	74	145.	*	2 JAN 0030	99	61.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2143.	*	1 JAN 1830	75	140.	*	2 JAN 0045	100	32.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
2689.	12.50		622.	191.	186.	186.
		(INCHES)	2,062	2,540	2,540	2,540
		(AC-FT)	308.	380.	380.	380.

CUMULATIVE AREA = 2.80 SQ MI

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 \* \*  
 146 KK 3B \*  
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147 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

150 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

148 BA SUBBASIN CHARACTERISTICS  
 TAREA, 1.13 SUBBASIN AREA

PRECIPITATION DATA

149 PB STORM 5.45 BASIN TOTAL PRECIPITATION

151 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

176 LS SCS LOSS RATE  
 STRTL 0.83 INITIAL ABSTRACTION  
 CRVNR 70.75 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

177 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.33 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

100yr.out  
UNIT HYDROGRAPH  
9 END-OF-PERIOD ORDINATES

673. 1194. 626. 255. 105. 43. 17. 8. 1.

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HYDROGRAPH AT STATION 3B  
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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.16	0.05	0.11	818.	*	
1	JAN	0015	2	0.01	0.01	0.00	0.	*	*	1	JAN	1245	52	0.11	0.03	0.08	504.	*	
1	JAN	0030	3	0.01	0.01	0.00	0.	*	*	1	JAN	1300	53	0.09	0.03	0.06	333.	*	
1	JAN	0045	4	0.01	0.01	0.00	0.	*	*	1	JAN	1315	54	0.08	0.02	0.05	242.	*	
1	JAN	0100	5	0.01	0.01	0.00	0.	*	*	1	JAN	1330	55	0.07	0.02	0.05	191.	*	
1	JAN	0115	6	0.01	0.01	0.00	0.	*	*	1	JAN	1345	56	0.06	0.02	0.04	159.	*	
1	JAN	0130	7	0.02	0.02	0.00	0.	*	*	1	JAN	1400	57	0.05	0.02	0.04	136.	*	
1	JAN	0145	8	0.02	0.02	0.00	0.	*	*	1	JAN	1415	58	0.05	0.01	0.04	120.	*	
1	JAN	0200	9	0.02	0.02	0.00	0.	*	*	1	JAN	1430	59	0.05	0.01	0.03	109.	*	
1	JAN	0215	10	0.02	0.02	0.00	0.	*	*	1	JAN	1445	60	0.04	0.01	0.03	102.	*	
1	JAN	0230	11	0.02	0.02	0.00	0.	*	*	1	JAN	1500	61	0.04	0.01	0.03	97.	*	
1	JAN	0245	12	0.02	0.02	0.00	0.	*	*	1	JAN	1515	62	0.04	0.01	0.03	92.	*	
1	JAN	0300	13	0.02	0.02	0.00	0.	*	*	1	JAN	1530	63	0.04	0.01	0.03	87.	*	
1	JAN	0315	14	0.02	0.02	0.00	0.	*	*	1	JAN	1545	64	0.04	0.01	0.03	82.	*	
1	JAN	0330	15	0.02	0.02	0.00	0.	*	*	1	JAN	1600	65	0.03	0.01	0.02	77.	*	
1	JAN	0345	16	0.02	0.02	0.00	0.	*	*	1	JAN	1615	66	0.03	0.01	0.02	72.	*	
1	JAN	0400	17	0.02	0.02	0.00	0.	*	*	1	JAN	1630	67	0.03	0.01	0.02	69.	*	
1	JAN	0415	18	0.02	0.02	0.00	0.	*	*	1	JAN	1645	68	0.03	0.01	0.02	66.	*	
1	JAN	0430	19	0.02	0.02	0.00	0.	*	*	1	JAN	1700	69	0.03	0.01	0.02	65.	*	
1	JAN	0445	20	0.02	0.02	0.00	0.	*	*	1	JAN	1715	70	0.03	0.01	0.02	63.	*	
1	JAN	0500	21	0.02	0.02	0.00	0.	*	*	1	JAN	1730	71	0.03	0.01	0.02	61.	*	
1	JAN	0515	22	0.02	0.02	0.00	0.	*	*	1	JAN	1745	72	0.03	0.01	0.02	59.	*	
1	JAN	0530	23	0.02	0.02	0.00	0.	*	*	1	JAN	1800	73	0.02	0.01	0.02	57.	*	
1	JAN	0545	24	0.02	0.02	0.00	0.	*	*	1	JAN	1815	74	0.02	0.01	0.02	55.	*	
1	JAN	0600	25	0.02	0.02	0.00	0.	*	*	1	JAN	1830	75	0.02	0.01	0.02	54.	*	
1	JAN	0615	26	0.02	0.02	0.00	0.	*	*	1	JAN	1845	76	0.02	0.01	0.02	52.	*	
1	JAN	0630	27	0.03	0.03	0.00	0.	*	*	1	JAN	1900	77	0.02	0.01	0.02	50.	*	
1	JAN	0645	28	0.03	0.03	0.00	0.	*	*	1	JAN	1915	78	0.02	0.01	0.02	48.	*	
1	JAN	0700	29	0.03	0.03	0.00	0.	*	*	1	JAN	1930	79	0.02	0.00	0.02	47.	*	
1	JAN	0715	30	0.03	0.03	0.00	0.	*	*	1	JAN	1945	80	0.02	0.00	0.01	45.	*	
1	JAN	0730	31	0.03	0.03	0.00	0.	*	*	1	JAN	2000	81	0.02	0.00	0.01	43.	*	
1	JAN	0745	32	0.03	0.03	0.00	0.	*	*	1	JAN	2015	82	0.02	0.00	0.01	41.	*	
1	JAN	0800	33	0.03	0.03	0.00	0.	*	*	1	JAN	2030	83	0.02	0.00	0.01	40.	*	
1	JAN	0815	34	0.03	0.03	0.00	0.	*	*	1	JAN	2045	84	0.02	0.00	0.01	39.	*	
1	JAN	0830	35	0.04	0.04	0.00	0.	*	*	1	JAN	2100	85	0.02	0.00	0.01	39.	*	
1	JAN	0845	36	0.04	0.04	0.00	0.	*	*	1	JAN	2115	86	0.02	0.00	0.01	39.	*	
1	JAN	0900	37	0.04	0.04	0.00	0.	*	*	1	JAN	2130	87	0.02	0.00	0.01	38.	*	
1	JAN	0915	38	0.04	0.04	0.00	0.	*	*	1	JAN	2145	88	0.02	0.00	0.01	38.	*	
1	JAN	0930	39	0.04	0.04	0.00	1.	*	*	1	JAN	2200	89	0.02	0.00	0.01	38.	*	
1	JAN	0945	40	0.05	0.04	0.00	2.	*	*	1	JAN	2215	90	0.02	0.00	0.01	37.	*	
1	JAN	1000	41	0.05	0.05	0.00	5.	*	*	1	JAN	2230	91	0.02	0.00	0.01	37.	*	
1	JAN	1015	42	0.06	0.05	0.01	9.	*	*	1	JAN	2245	92	0.02	0.00	0.01	36.	*	
1	JAN	1030	43	0.07	0.06	0.01	14.	*	*	1	JAN	2300	93	0.02	0.00	0.01	36.	*	
1	JAN	1045	44	0.08	0.07	0.01	20.	*	*	1	JAN	2315	94	0.02	0.00	0.01	36.	*	
1	JAN	1100	45	0.09	0.08	0.02	30.	*	*	1	JAN	2330	95	0.02	0.00	0.01	35.	*	
1	JAN	1115	46	0.11	0.09	0.02	44.	*	*	1	JAN	2345	96	0.02	0.00	0.01	35.	*	
1	JAN	1130	47	0.15	0.11	0.04	67.	*	*	2	JAN	0000	97	0.01	0.00	0.01	35.	*	
1	JAN	1145	48	0.60	0.39	0.21	206.	*	*	2	JAN	0015	98	0.00	0.00	0.00	27.	*	
1	JAN	1200	49	1.47	0.67	0.81	825.	*	*	2	JAN	0030	99	0.00	0.00	0.00	12.	*	
1	JAN	1215	50	0.23	0.08	0.15	1209.	*	*	2	JAN	0045	100	0.00	0.00	0.00	5.	*	

TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.01, TOTAL EXCESS = 2.44

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)			
+	1209.	12.25	241.	74.	72.
		(INCHES)	1.980	2.439	2.439
		(AC-FT)	120.	147.	147.

CUMULATIVE AREA = 1.13 SQ MI

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178 KK * 3C * CNAME 3R
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179 KO OUTPUT CONTROL VARIABLES
      IPRINT 0 PRINT CONTROL
      IPLOT 0 PLOT CONTROL
      QSCAL 0. HYDROGRAPH PLOT SCALE
      IPNCH 0 PUNCH COMPUTED HYDROGRAPH
      IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
      ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
      ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
      TIMINT 0.250 TIME INTERVAL IN HOURS

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180 HC HYDROGRAPH COMBINATION  
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3507.	*	1	JAN	1845	76	188.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2560.	*	1	JAN	1900	77	181.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1623.	*	1	JAN	1915	78	175.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1108.	*	1	JAN	1930	79	169.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	824.	*	1	JAN	1945	80	163.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	656.	*	1	JAN	2000	81	156.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	547.	*	1	JAN	2015	82	150.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	471.	*	1	JAN	2030	83	144.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	417.	*	1	JAN	2045	84	140.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	381.	*	1	JAN	2100	85	139.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	356.	*	1	JAN	2115	86	137.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	336.	*	1	JAN	2130	87	135.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1.	*	1	JAN	1530	63	318.	*	1	JAN	2145	88	134.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	4.	*	1	JAN	1545	64	300.	*	1	JAN	2200	89	133.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	10.	*	1	JAN	1600	65	283.	*	1	JAN	2215	90	132.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	18.	*	1	JAN	1615	66	267.	*	1	JAN	2230	91	131.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	30.	*	1	JAN	1630	67	252.	*	1	JAN	2245	92	129.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	46.	*	1	JAN	1645	68	241.	*	1	JAN	2300	93	128.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	67.	*	1	JAN	1700	69	233.	*	1	JAN	2315	94	127.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	96.	*	1	JAN	1715	70	226.	*	1	JAN	2330	95	126.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	138.	*	1	JAN	1730	71	219.	*	1	JAN	2345	96	124.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	203.	*	1	JAN	1745	72	213.	*	2	JAN	0000	97	123.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	483.	*	1	JAN	1800	73	206.	*	2	JAN	0015	98	109.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1755.	*	1	JAN	1815	74	200.	*	2	JAN	0030	99	73.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3352.	*	1	JAN	1830	75	194.	*	2	JAN	0045	100	37.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR		
+	(CFS)	(HR)	(CFS)				
+	3507.	12.50	863.	266.	258.	258.	
			(INCHES)	2.039	2.511	2.511	2.511
			(AC-FT)	428.	527.	527.	527.

CUMULATIVE AREA = 3.93 SQ MI

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181 KK 3R \* CNAME 3C  
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182 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

183 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.08 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 3R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3606.	*	1	JAN	1845	76	190.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2933.	*	1	JAN	1900	77	183.	*

100yr.out

1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	1905.	*	1 JAN 1915	78	177.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1238.	*	1 JAN 1930	79	171.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	904.	*	1 JAN 1945	80	165.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	703.	*	1 JAN 2000	81	158.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	579.	*	1 JAN 2015	82	152.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	493.	*	1 JAN 2030	83	146.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	433.	*	1 JAN 2045	84	142.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	391.	*	1 JAN 2100	85	139.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	364.	*	1 JAN 2115	86	138.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	343.	*	1 JAN 2130	87	136.
1 JAN 0300	13	0.	*	1 JAN 0915	38	1.	*	1 JAN 1530	63	324.	*	1 JAN 2145	88	134.
1 JAN 0315	14	0.	*	1 JAN 0930	39	3.	*	1 JAN 1545	64	306.	*	1 JAN 2200	89	133.
1 JAN 0330	15	0.	*	1 JAN 0945	40	8.	*	1 JAN 1600	65	289.	*	1 JAN 2215	90	132.
1 JAN 0345	16	0.	*	1 JAN 1000	41	15.	*	1 JAN 1615	66	272.	*	1 JAN 2230	91	131.
1 JAN 0400	17	0.	*	1 JAN 1015	42	26.	*	1 JAN 1630	67	257.	*	1 JAN 2245	92	129.
1 JAN 0415	18	0.	*	1 JAN 1030	43	40.	*	1 JAN 1645	68	244.	*	1 JAN 2300	93	128.
1 JAN 0430	19	0.	*	1 JAN 1045	44	60.	*	1 JAN 1700	69	235.	*	1 JAN 2315	94	128.
1 JAN 0445	20	0.	*	1 JAN 1100	45	86.	*	1 JAN 1715	70	228.	*	1 JAN 2330	95	126.
1 JAN 0500	21	0.	*	1 JAN 1115	46	123.	*	1 JAN 1730	71	221.	*	1 JAN 2345	96	124.
1 JAN 0515	22	0.	*	1 JAN 1130	47	180.	*	1 JAN 1745	72	215.	*	2 JAN 0000	97	123.
1 JAN 0530	23	0.	*	1 JAN 1145	48	371.	*	1 JAN 1800	73	208.	*	2 JAN 0015	98	115.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1248.	*	1 JAN 1815	74	202.	*	2 JAN 0030	99	87.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2832.	*	1 JAN 1830	75	196.	*	2 JAN 0045	100	49.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
3606.	12.50	(CFS)	862.	266.	257.	257.
		(INCHES)	2.038	2.510	2.510	2.510
		(AC-FT)	428.	527.	527.	527.
CUMULATIVE AREA =			3.93 SQ MI			

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 184 KK \* 2B \*  
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185 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

188 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

186 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.71 SUBBASIN AREA

PRECIPITATION DATA

187 PB STORM 5.45 BASIN TOTAL PRECIPITATION

189 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

214 LS SCS LOSS RATE  
 STRL 0.82 INITIAL ABSTRACTION  
 CRVNR 70.88 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

215 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.24 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH

742.      737.      236.      77.      25.      9.      2.

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HYDROGRAPH AT STATION      2B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	402.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	240.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.06	163.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.05	125.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	103.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	89.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.04	79.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	71.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	66.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	62.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	59.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	56.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	53.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	50.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	47.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	44.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	42.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	41.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	40.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	39.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	37.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	37.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	35.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	34.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	33.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	32.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.02	31.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.02	30.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	29.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	28.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	26.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	25.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	25.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	24.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	24.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	24.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.02	0.00	0.01	24.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.02	0.00	0.01	24.
1	JAN	0930	39	0.04	0.04	0.00	1.	*	1	JAN	2200	89	0.02	0.00	0.01	23.
1	JAN	0945	40	0.05	0.04	0.00	2.	*	1	JAN	2215	90	0.02	0.00	0.01	23.
1	JAN	1000	41	0.05	0.05	0.00	4.	*	1	JAN	2230	91	0.02	0.00	0.01	23.
1	JAN	1015	42	0.06	0.05	0.01	7.	*	1	JAN	2245	92	0.02	0.00	0.01	23.
1	JAN	1030	43	0.07	0.06	0.01	10.	*	1	JAN	2300	93	0.02	0.00	0.01	23.
1	JAN	1045	44	0.08	0.07	0.01	15.	*	1	JAN	2315	94	0.02	0.00	0.01	22.
1	JAN	1100	45	0.09	0.08	0.02	22.	*	1	JAN	2330	95	0.02	0.00	0.01	22.
1	JAN	1115	46	0.11	0.09	0.02	33.	*	1	JAN	2345	96	0.02	0.00	0.01	22.
1	JAN	1130	47	0.15	0.11	0.04	50.	*	2	JAN	0000	97	0.01	0.00	0.01	22.
1	JAN	1145	48	0.60	0.38	0.21	192.	*	2	JAN	0015	98	0.00	0.00	0.00	13.
1	JAN	1200	49	1.47	0.66	0.81	768.	*	2	JAN	0030	99	0.00	0.00	0.00	4.
1	JAN	1215	50	0.23	0.08	0.15	764.	*	2	JAN	0045	100	0.00	0.00	0.00	1.

\*\*\*\*\*

TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.00, TOTAL EXCESS = 2.45

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW	
(CFS)	(HR)		6-HR	24-HR
768.	12.00	152.	47.	45.
		(INCHES)	1.991	2.451
		(AC-FT)	75.	93.

CUMULATIVE AREA = 0.71 SQ MI

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*
*
216 KK      *      *      *      *      *      *      *      *      *      *      *      *      *      *
*          2C  *      *      *      *      *      *      *      *      *      *      *      *      *
*          *      *      *      *      *      *      *      *      *      *      *      *      *
*****

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217 KO      OUTPUT CONTROL VARIABLES
IPRNT      0      PRINT CONTROL
IPLT      0      PLOT CONTROL
QSCAL      0.    HYDROGRAPH PLOT SCALE
IPNCH      0      PUNCH COMPUTED HYDROGRAPH
IOUT      22     SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
ISAV2      100   LAST ORDINATE PUNCHED OR SAVED
TIMINT     0.250 TIME INTERVAL IN HOURS

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218 HC HYDROGRAPH COMBINATION ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2C SUM OF 2 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 columns for two hydrographs. Rows list dates from 1 JAN 0000 to 1 JAN 0600 with corresponding flow values.

Summary statistics table with columns: PEAK FLOW (CFS), TIME (HR), MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR), and CUMULATIVE AREA (SQ MI).

\*\*\* \*\*

219 KK 2R CNAME 2C

220 KO OUTPUT CONTROL VARIABLES IPRNT 0 PRINT CONTROL IPLOT 0 PLOT CONTROL QSCAL 0. HYDROGRAPH PLOT SCALE IPNCH 0 PUNCH COMPUTED HYDROGRAPH IOUT 22 SAVE HYDROGRAPH ON THIS UNIT ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED ISAV2 100 LAST ORDINATE PUNCHED OR SAVED TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

221 RM MUSKINGUM ROUTING NSTPS 1 NUMBER OF SUBREACHES AMSK 0.12 MUSKINGUM K X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R. REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 2R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 columns for two hydrographs. Rows list dates from 1 JAN 0000 to 1 JAN 0030 with corresponding flow values.

100yr.out

1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1671.	*	1 JAN 1930	79	203.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	1158.	*	1 JAN 1945	80	196.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	888.	*	1 JAN 2000	81	188.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	717.	*	1 JAN 2015	82	181.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	607.	*	1 JAN 2030	83	174.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	528.	*	1 JAN 2045	84	168.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	474.	*	1 JAN 2100	85	165.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	436.	*	1 JAN 2115	86	163.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	410.	*	1 JAN 2130	87	161.
1 JAN 0300	13	0.	*	1 JAN 0915	38	1.	*	1 JAN 1530	63	387.	*	1 JAN 2145	88	159.
1 JAN 0315	14	0.	*	1 JAN 0930	39	2.	*	1 JAN 1545	64	366.	*	1 JAN 2200	89	157.
1 JAN 0330	15	0.	*	1 JAN 0945	40	7.	*	1 JAN 1600	65	345.	*	1 JAN 2215	90	156.
1 JAN 0345	16	0.	*	1 JAN 1000	41	15.	*	1 JAN 1615	66	325.	*	1 JAN 2230	91	155.
1 JAN 0400	17	0.	*	1 JAN 1015	42	26.	*	1 JAN 1630	67	307.	*	1 JAN 2245	92	153.
1 JAN 0415	18	0.	*	1 JAN 1030	43	42.	*	1 JAN 1645	68	291.	*	1 JAN 2300	93	152.
1 JAN 0430	19	0.	*	1 JAN 1045	44	63.	*	1 JAN 1700	69	280.	*	1 JAN 2315	94	150.
1 JAN 0445	20	0.	*	1 JAN 1100	45	92.	*	1 JAN 1715	70	271.	*	1 JAN 2330	95	149.
1 JAN 0500	21	0.	*	1 JAN 1115	46	133.	*	1 JAN 1730	71	262.	*	1 JAN 2345	96	147.
1 JAN 0515	22	0.	*	1 JAN 1130	47	194.	*	1 JAN 1745	72	255.	*	2 JAN 0000	97	146.
1 JAN 0530	23	0.	*	1 JAN 1145	48	388.	*	1 JAN 1800	73	247.	*	2 JAN 0015	98	137.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1255.	*	1 JAN 1815	74	240.	*	2 JAN 0030	99	109.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2845.	*	1 JAN 1830	75	232.	*	2 JAN 0045	100	69.

\*\*\*\*\*

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
3887.	12.50	1013.	312.	302.	302.	302.
		(INCHES)	2.028	2.498	2.498	2.498
		(AC-FT)	502.	619.	619.	619.

CUMULATIVE AREA = 4.64 SQ MI

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 \* \*  
 222 KK 1B \*  
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223 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

226 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

224 BA SUBBASIN CHARACTERISTICS

TAREA,	0.72	SUBBASIN AREA
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PRECIPITATION DATA

225 PB STORM 5.45 BASIN TOTAL PRECIPITATION

227 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

252 LS SCS LOSS RATE

STRTL	0.81	INITIAL ABSTRACTION
CRVNR	71.15	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

253 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.28	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES

592. 779. 308. 114. 42. 100yr.out  
15. 6. 0.

HYDROGRAPH AT STATION 1B

Table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP, Q. It contains two columns of data for station 1B, showing hourly hydrograph data from 1 JAN 0000 to 2 JAN 0045.

TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.97, TOTAL EXCESS = 2.48

Table with columns: PEAK FLOW, TIME, 6-HR, 24-HR, 72-HR, 24.75-HR. It shows peak flow values in CFS and (AC-FT) for different time intervals.

CUMULATIVE AREA = 0.72 SQ MI

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\* \*  
254 KK \* 1C \* CNAME 1C  
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255 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLST 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH AT STATION 1C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	4350.	*	1	JAN	1845	76	258.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	3920.	*	1	JAN	1900	77	249.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2787.	*	1	JAN	1915	78	241.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1810.	*	1	JAN	1930	79	232.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	1270.	*	1	JAN	1945	80	224.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	982.	*	1	JAN	2000	81	215.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	800.	*	1	JAN	2015	82	207.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	681.	*	1	JAN	2030	83	199.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	597.	*	1	JAN	2045	84	193.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	538.	*	1	JAN	2100	85	190.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	497.	*	1	JAN	2115	86	187.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	467.	*	1	JAN	2130	87	185.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1.	*	1	JAN	1530	63	441.	*	1	JAN	2145	88	183.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	3.	*	1	JAN	1545	64	417.	*	1	JAN	2200	89	181.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	9.	*	1	JAN	1600	65	394.	*	1	JAN	2215	90	180.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	19.	*	1	JAN	1615	66	371.	*	1	JAN	2230	91	178.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	33.	*	1	JAN	1630	67	350.	*	1	JAN	2245	92	176.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	52.	*	1	JAN	1645	68	334.	*	1	JAN	2300	93	175.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	78.	*	1	JAN	1700	69	321.	*	1	JAN	2315	94	173.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	114.	*	1	JAN	1715	70	310.	*	1	JAN	2330	95	171.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	165.	*	1	JAN	1730	71	301.	*	1	JAN	2345	96	170.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	242.	*	1	JAN	1745	72	292.	*	2	JAN	0000	97	168.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	556.	*	1	JAN	1800	73	284.	*	2	JAN	0015	98	152.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1922.	*	1	JAN	1815	74	275.	*	2	JAN	0030	99	115.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3645.	*	1	JAN	1830	75	266.	*	2	JAN	0045	100	71.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)				
+	4350.	1168.	360.	349.	349.
		(INCHES)	2,025	2,495	2,495
		(AC-FT)	579.	714.	714.
CUMULATIVE AREA =		5.36 SQ MI			

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 \* \*  
 257 KK 1C \* CNAME 1C  
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258 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

259 RN NO ROUTING

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HYDROGRAPH AT STATION 1C

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	4350.	*	1	JAN	1845	76	258.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	3920.	*	1	JAN	1900	77	249.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2787.	*	1	JAN	1915	78	241.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1810.	*	1	JAN	1930	79	232.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	1270.	*	1	JAN	1945	80	224.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	982.	*	1	JAN	2000	81	215.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	800.	*	1	JAN	2015	82	207.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	681.	*	1	JAN	2030	83	199.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	597.	*	1	JAN	2045	84	193.	*

100yr.out														
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	538.	*	1 JAN 2100	85	190.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	497.	*	1 JAN 2115	86	187.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	467.	*	1 JAN 2130	87	185.
1 JAN 0300	13	0.	*	1 JAN 0915	38	1.	*	1 JAN 1530	63	441.	*	1 JAN 2145	88	183.
1 JAN 0315	14	0.	*	1 JAN 0930	39	3.	*	1 JAN 1545	64	417.	*	1 JAN 2200	89	181.
1 JAN 0330	15	0.	*	1 JAN 0945	40	9.	*	1 JAN 1600	65	394.	*	1 JAN 2215	90	180.
1 JAN 0345	16	0.	*	1 JAN 1000	41	19.	*	1 JAN 1615	66	371.	*	1 JAN 2230	91	178.
1 JAN 0400	17	0.	*	1 JAN 1015	42	33.	*	1 JAN 1630	67	350.	*	1 JAN 2245	92	176.
1 JAN 0415	18	0.	*	1 JAN 1030	43	52.	*	1 JAN 1645	68	334.	*	1 JAN 2300	93	175.
1 JAN 0430	19	0.	*	1 JAN 1045	44	78.	*	1 JAN 1700	69	321.	*	1 JAN 2315	94	173.
1 JAN 0445	20	0.	*	1 JAN 1100	45	114.	*	1 JAN 1715	70	310.	*	1 JAN 2330	95	171.
1 JAN 0500	21	0.	*	1 JAN 1115	46	165.	*	1 JAN 1730	71	301.	*	1 JAN 2345	96	170.
1 JAN 0515	22	0.	*	1 JAN 1130	47	242.	*	1 JAN 1745	72	292.	*	2 JAN 0000	97	168.
1 JAN 0530	23	0.	*	1 JAN 1145	48	556.	*	1 JAN 1800	73	284.	*	2 JAN 0015	98	152.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1922.	*	1 JAN 1815	74	275.	*	2 JAN 0030	99	115.
1 JAN 0600	25	0.	*	1 JAN 1215	50	3645.	*	1 JAN 1830	75	266.	*	2 JAN 0045	100	71.

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
4350.	12.50	1168.	360.	349.	349.
		(INCHES) 2.025	2.495	2.495	2.495
		(AC-FT) 579.	714.	714.	714.

CUMULATIVE AREA = 5.36 SQ MI

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT								
+		5bB	773.	12.25	170.	53.	51.	0.72	
+	HYDROGRAPH AT								
+		5aB	680.	12.25	137.	42.	41.	0.60	
+	2 COMBINED AT								
+		5C	1452.	12.25	307.	95.	92.	1.32	
+	ROUTED TO								
+		5R	1343.	12.50	307.	95.	92.	1.32	
+	HYDROGRAPH AT								
+		4aB	896.	12.25	185.	57.	55.	0.88	
+	HYDROGRAPH AT								
+		4bB	607.	12.25	130.	40.	39.	0.60	
+	3 COMBINED AT								
+		4C	2689.	12.25	622.	192.	186.	2.80	
+	ROUTED TO								
+		4R	2689.	12.50	622.	191.	186.	2.80	
+	HYDROGRAPH AT								
+		3B	1209.	12.25	241.	74.	72.	1.13	
+	2 COMBINED AT								
+		3C	3507.	12.50	863.	266.	258.	3.93	
+	ROUTED TO								
+		3R	3606.	12.50	862.	266.	257.	3.93	
+	HYDROGRAPH AT								
+		2B	768.	12.00	152.	47.	45.	0.71	
+	2 COMBINED AT								
+		2C	4008.	12.50	1014.	312.	303.	4.64	
+	ROUTED TO								
+		2R	3887.	12.50	1013.	312.	302.	4.64	
+	HYDROGRAPH AT								
+		1B	800.	12.25	155.	48.	46.	0.72	
+	2 COMBINED AT								
+		1C	4350.	12.50	1168.	360.	349.	5.36	
+	ROUTED TO								
+		1C	4350.	12.50	1168.	360.	349.	5.36	

\*\*\* NORMAL END OF HEC-1 \*\*\*

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
*****

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*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
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X X XXXXXXX XXXXX X
X X X X X XX
X X X X X
XXXXXXXX XXXX X XXXXX X
X X X X X
X X X X X
X X XXXXXXX XXXXX XXX

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION

NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID Seng Creek
2 ID w Reclaimed Mining & wo Logging (Scenario 3), LIDAR Data
3 ID Storm Event
*DIAGRAM
4 IT 15 1JAN94 0 100
5 IO 0
* Gage XY Position 456107.00000 4205261.00000 1
6 PG Gage 3.9
7 IN 15 1JAN94 0
*Seng Rainfall Distribution
8 PC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.125
9 PC 0.15 0.175 0.2 0.225 0.25 0.275 0.3 0.325 0.35 0.375
10 PC 0.4 0.5875 0.775 0.9625 1.15 1.2125 1.275 1.3375 1.4 1.525
11 PC 1.65 1.775 1.9 2.275 2.65 3.025 3.4 3.525 3.65 3.775
12 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
13 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
14 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
15 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
16 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
17 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
18 KK 5bB
19 KO 0 0 0.0 1 22
20 BA 0.7209
21 PR Gage
22 PW 1.0
23 PT Gage
24 PW 0.723
25 LS 0.0 70.5 0.0
26 UD 0.4104
27 KK 5aB
28 KO 0 0 0.0 1 22
29 BA 0.6039
30 PR Gage
31 PW 1.0
32 PT Gage
33 PW 0.723
34 LS 0.0 70.5 0.0
35 UD 0.344
36 KK 5C CNAME 5R
37 KO 0 0 0.0 0 22
38 HC 2
39 KK 5R CNAME 5C
40 KO 0 0 0.0 0 22
41 RM 1 0.124 0.2
42 KK 4aB
43 KO 0 0 0.0 1 22
44 BA 0.8767
45 PR Gage
46 PW 1.0
47 PT Gage

```

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
48 PW 0.723

```

LINE	TYPE	VALUE	NAME	VALUE	NAME	VALUE	NAME
49	LS	0.0	70.52	0.0			Event.out
50	UD	0.358					
51	KK	4bB					
52	KO	0	0	0.0	1	22	
53	BA	0.6014					
54	PR	Gage					
55	PW	1.0					
56	PT	Gage					
57	PW	0.723					
58	LS	0.0	70.5	0.0			
59	UD	0.383					
60	KK	4C	CNAME	4R			
61	KO	0	0	0.0	0	22	
62	HC	3					
63	KK	4R	CNAME	4C			
64	KO	0	0	0.0	0	22	
65	RM	1	0.112	0.2			
66	KK	3B					
67	KO	0	0	0.0	1	22	
68	BA	1.1321					
69	PR	Gage					
70	PW	1.0					
71	PT	Gage					
72	PW	0.723					
73	LS	0.0	70.75	0.0			
74	UD	0.3323					
75	KK	3C	CNAME	3R			
76	KO	0	0	0.0	0	22	
77	HC	2					
78	KK	3R	CNAME	3C			
79	KO	0	0	0.0	0	22	
80	RM	1	0.081	0.2			
81	KK	2B					
82	KO	0	0	0.0	1	22	
83	BA	0.7082					
84	PR	Gage					
85	PW	1.0					
86	PT	Gage					
87	PW	0.723					
88	LS	0.0	70.88	0.0			
89	UD	0.2379					

HEC-1 INPUT

PAGE 3

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

90	KK	2C	CNAME	2R			
91	KO	0	0	0.0	0	22	
92	HC	2					
93	KK	2R	CNAME	2C			
94	KO	0	0	0.0	0	22	
95	RM	1	0.119	0.2			
96	KK	1B					
97	KO	0	0	0.0	1	22	
98	BA	0.7193					
99	PR	Gage					
100	PW	1.0					
101	PT	Gage					
102	PW	0.723					
103	LS	0.0	71.15	0.0			
104	UD	0.2797					
105	KK	1C	CNAME	1C			
106	KO	0	0	0.0	0	22	
107	HC	2					
108	KK	1C	CNAME	1C			
109	KO	0	0	0.0	0	22	
110	RN	1C					
111	ZZ						

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW  
 NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

```

18      5bB
      .
27      .      5aB
      .
36      5C.....
      V
39      V
      5R
      .
  
```

```

42      .          4aB
      .
      .
51      .          .          4bB
      .
      .
60      4C.....
      V
      V
63      4R
      .
      .
66      .          3B
      .
      .
75      3C.....
      V
      V
78      3R
      .
      .
81      .          2B
      .
      .
90      2C.....
      V
      V
93      2R
      .
      .
96      .          1B
      .
      .
105     1C.....
      V
      V
108     1C

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE TIME *
*
*****

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```

*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
*
*****

```

Seng Creek  
w Reclaimed Mining & wo Logging (Scenario 3), LIDAR Data  
Storm Event

```

5 IO      OUTPUT CONTROL VARIABLES
          IPRNT      0 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE

7 IN      TIME DATA FOR INPUT TIME SERIES
          JXMIN      15 TIME INTERVAL IN MINUTES
          JXDATE     1JAN94 STARTING DATE
          JXTIME      0 STARTING TIME

IT        HYDROGRAPH TIME DATA
          NMIN       15 MINUTES IN COMPUTATION INTERVAL
          IDATE      1JAN94 STARTING DATE
          ITIME      0000 STARTING TIME
          NQ         100 NUMBER OF HYDROGRAPH ORDINATES
          NDDATE     2JAN94 ENDING DATE
          NDTIME     0045 ENDING TIME
          ICENT      19 CENTURY MARK

          COMPUTATION INTERVAL 0.25 HOURS
          TOTAL TIME BASE 24.75 HOURS

```

```

ENGLISH UNITS
DRAINAGE AREA      SQUARE MILES
PRECIPITATION DEPTH INCHES
LENGTH, ELEVATION  FEET
FLOW               CUBIC FEET PER SECOND
STORAGE VOLUME     ACRE-FEET
SURFACE AREA       ACRES
TEMPERATURE        DEGREES FAHRENHEIT

```

\*\*\* \*\*

```

*****
*
18 KK    *          5bB *
*
*****

```



19 KO OUTPUT CONTROL VARIABLES Event.out  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

20 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

23 PT TOTAL STORM STATIONS Gage  
 24 PW WEIGHTS 0.72

21 PR RECORDING STATIONS Gage  
 22 PW WEIGHTS 1.00

25 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

26 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.41 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	3.90	0.00	0.72

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.03	
0.02	0.03	0.02	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	
0.19	0.19	0.19	0.19	0.06	0.06	0.06	0.06	0.06	0.12	0.12	
0.12	0.12	0.38	0.38	0.38	0.38	0.38	0.12	0.12	0.12	0.12	

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH

10 END-OF-PERIOD ORDINATES  
 273. 649. 509. 228. 109. 50. 24. 11. 6. 2.

\*\*\*\*\*

HYDROGRAPH AT STATION 5bB

\*\*\*\*\*

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.00	0.00	0.00	0.	*
1	JAN	0015	2	0.00	0.00	0.00	0.	*		1	JAN	1245	52	0.00	0.00	0.00	0.	*
1	JAN	0030	3	0.00	0.00	0.00	0.	*		1	JAN	1300	53	0.00	0.00	0.00	0.	*
1	JAN	0045	4	0.00	0.00	0.00	0.	*		1	JAN	1315	54	0.00	0.00	0.00	0.	*
1	JAN	0100	5	0.00	0.00	0.00	0.	*		1	JAN	1330	55	0.00	0.00	0.00	0.	*
1	JAN	0115	6	0.00	0.00	0.00	0.	*		1	JAN	1345	56	0.00	0.00	0.00	0.	*
1	JAN	0130	7	0.00	0.00	0.00	0.	*		1	JAN	1400	57	0.00	0.00	0.00	0.	*
1	JAN	0145	8	0.00	0.00	0.00	0.	*		1	JAN	1415	58	0.00	0.00	0.00	0.	*
1	JAN	0200	9	0.10	0.10	0.00	0.	*		1	JAN	1430	59	0.00	0.00	0.00	0.	*
1	JAN	0215	10	0.02	0.02	0.00	0.	*		1	JAN	1445	60	0.00	0.00	0.00	0.	*
1	JAN	0230	11	0.03	0.03	0.00	0.	*		1	JAN	1500	61	0.00	0.00	0.00	0.	*
1	JAN	0245	12	0.02	0.02	0.00	0.	*		1	JAN	1515	62	0.00	0.00	0.00	0.	*
1	JAN	0300	13	0.03	0.03	0.00	0.	*		1	JAN	1530	63	0.00	0.00	0.00	0.	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.00	0.00	0.00	0.	*
1	JAN	0330	15	0.03	0.03	0.00	0.	*		1	JAN	1600	65	0.00	0.00	0.00	0.	*
1	JAN	0345	16	0.03	0.03	0.00	0.	*		1	JAN	1615	66	0.00	0.00	0.00	0.	*
1	JAN	0400	17	0.03	0.03	0.00	0.	*		1	JAN	1630	67	0.00	0.00	0.00	0.	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.00	0.00	0.00	0.	*
1	JAN	0430	19	0.03	0.03	0.00	0.	*		1	JAN	1700	69	0.00	0.00	0.00	0.	*
1	JAN	0445	20	0.03	0.03	0.00	0.	*		1	JAN	1715	70	0.00	0.00	0.00	0.	*
1	JAN	0500	21	0.03	0.03	0.00	0.	*		1	JAN	1730	71	0.00	0.00	0.00	0.	*
1	JAN	0515	22	0.19	0.19	0.00	0.	*		1	JAN	1745	72	0.00	0.00	0.00	0.	*
1	JAN	0530	23	0.19	0.19	0.00	0.	*		1	JAN	1800	73	0.00	0.00	0.00	0.	*
1	JAN	0545	24	0.19	0.18	0.00	1.	*		1	JAN	1815	74	0.00	0.00	0.00	0.	*
1	JAN	0600	25	0.19	0.17	0.02	7.	*		1	JAN	1830	75	0.00	0.00	0.00	0.	*
1	JAN	0615	26	0.06	0.05	0.01	16.	*		1	JAN	1845	76	0.00	0.00	0.00	0.	*
1	JAN	0630	27	0.06	0.05	0.01	19.	*		1	JAN	1900	77	0.00	0.00	0.00	0.	*
1	JAN	0645	28	0.06	0.05	0.01	19.	*		1	JAN	1915	78	0.00	0.00	0.00	0.	*
1	JAN	0700	29	0.06	0.05	0.01	21.	*		1	JAN	1930	79	0.00	0.00	0.00	0.	*
1	JAN	0715	30	0.12	0.09	0.03	27.	*		1	JAN	1945	80	0.00	0.00	0.00	0.	*
1	JAN	0730	31	0.12	0.09	0.04	41.	*		1	JAN	2000	81	0.00	0.00	0.00	0.	*
1	JAN	0745	32	0.12	0.09	0.04	54.	*		1	JAN	2015	82	0.00	0.00	0.00	0.	*
1	JAN	0800	33	0.12	0.08	0.04	65.	*		1	JAN	2030	83	0.00	0.00	0.00	0.	*
1	JAN	0815	34	0.38	0.22	0.15	102.	*		1	JAN	2045	84	0.00	0.00	0.00	0.	*
1	JAN	0830	35	0.38	0.19	0.18	185.	*		1	JAN	2100	85	0.00	0.00	0.00	0.	*
1	JAN	0845	36	0.38	0.17	0.20	267.	*		1	JAN	2115	86	0.00	0.00	0.00	0.	*
1	JAN	0900	37	0.38	0.15	0.22	327.	*		1	JAN	2130	87	0.00	0.00	0.00	0.	*
1	JAN	0915	38	0.12	0.05	0.08	330.	*		1	JAN	2145	88	0.00	0.00	0.00	0.	*

										Event.out		
1 JAN 0930	39	0.12	0.05	0.08	261.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.12	0.04	0.08	200.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.12	0.04	0.08	174.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	140.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	82.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	38.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	17.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	8.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	3.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	2.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	1.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.61, TOTAL EXCESS = 1.29

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
+	330.	9.25	100.	25.	24.	24.
		(INCHES)	1.293	1.295	1.295	1.295
		(AC-FT)	50.	50.	50.	50.
		CUMULATIVE AREA =	0.72 SQ MI			

\*\*\* \*\*

\*\*\*\*\*  
\*  
27 KK \* 5aB \*  
\*  
\*\*\*\*\*

28 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

29 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

32 PT TOTAL STORM STATIONS Gage  
 33 PW WEIGHTS 0.72

30 PR RECORDING STATIONS Gage  
 31 PW WEIGHTS 1.00

34 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

35 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.34 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	3.90	0.00	0.72

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00									
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.03			
0.02	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03		
0.19	0.19	0.19	0.19	0.06	0.06	0.06	0.06	0.06	0.12	0.12		
0.12	0.12	0.38	0.38	0.38	0.38	0.38	0.12	0.12	0.12	0.12		

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 334. 624. 352. 145. 61. 25. 11. 5. 1.

\*\*\*\*\*

HYDROGRAPH AT STATION 5aB

\*\*\*\*\*

DA MON HRMN ORD RAIN LOSS EXCESS COMP Q \* DA MON HRMN ORD RAIN LOSS EXCESS COMP Q

Event.out

1 JAN 0000	1	0.00	0.00	0.00	0.	*	1 JAN 1230	51	0.00	0.00	0.00	0.
1 JAN 0015	2	0.00	0.00	0.00	0.	*	1 JAN 1245	52	0.00	0.00	0.00	0.
1 JAN 0030	3	0.00	0.00	0.00	0.	*	1 JAN 1300	53	0.00	0.00	0.00	0.
1 JAN 0045	4	0.00	0.00	0.00	0.	*	1 JAN 1315	54	0.00	0.00	0.00	0.
1 JAN 0100	5	0.00	0.00	0.00	0.	*	1 JAN 1330	55	0.00	0.00	0.00	0.
1 JAN 0115	6	0.00	0.00	0.00	0.	*	1 JAN 1345	56	0.00	0.00	0.00	0.
1 JAN 0130	7	0.00	0.00	0.00	0.	*	1 JAN 1400	57	0.00	0.00	0.00	0.
1 JAN 0145	8	0.00	0.00	0.00	0.	*	1 JAN 1415	58	0.00	0.00	0.00	0.
1 JAN 0200	9	0.10	0.10	0.00	0.	*	1 JAN 1430	59	0.00	0.00	0.00	0.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.00	0.00	0.00	0.
1 JAN 0230	11	0.03	0.03	0.00	0.	*	1 JAN 1500	61	0.00	0.00	0.00	0.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.00	0.00	0.00	0.
1 JAN 0300	13	0.03	0.03	0.00	0.	*	1 JAN 1530	63	0.00	0.00	0.00	0.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.00	0.00	0.00	0.
1 JAN 0330	15	0.03	0.03	0.00	0.	*	1 JAN 1600	65	0.00	0.00	0.00	0.
1 JAN 0345	16	0.03	0.03	0.00	0.	*	1 JAN 1615	66	0.00	0.00	0.00	0.
1 JAN 0400	17	0.03	0.03	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.
1 JAN 0430	19	0.03	0.03	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.
1 JAN 0445	20	0.03	0.03	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.
1 JAN 0500	21	0.03	0.03	0.00	0.	*	1 JAN 1730	71	0.00	0.00	0.00	0.
1 JAN 0515	22	0.19	0.19	0.00	0.	*	1 JAN 1745	72	0.00	0.00	0.00	0.
1 JAN 0530	23	0.19	0.19	0.00	0.	*	1 JAN 1800	73	0.00	0.00	0.00	0.
1 JAN 0545	24	0.19	0.18	0.00	1.	*	1 JAN 1815	74	0.00	0.00	0.00	0.
1 JAN 0600	25	0.19	0.17	0.02	8.	*	1 JAN 1830	75	0.00	0.00	0.00	0.
1 JAN 0615	26	0.06	0.05	0.01	16.	*	1 JAN 1845	76	0.00	0.00	0.00	0.
1 JAN 0630	27	0.06	0.05	0.01	16.	*	1 JAN 1900	77	0.00	0.00	0.00	0.
1 JAN 0645	28	0.06	0.05	0.01	17.	*	1 JAN 1915	78	0.00	0.00	0.00	0.
1 JAN 0700	29	0.06	0.05	0.01	18.	*	1 JAN 1930	79	0.00	0.00	0.00	0.
1 JAN 0715	30	0.12	0.09	0.03	25.	*	1 JAN 1945	80	0.00	0.00	0.00	0.
1 JAN 0730	31	0.12	0.09	0.04	38.	*	1 JAN 2000	81	0.00	0.00	0.00	0.
1 JAN 0745	32	0.12	0.09	0.04	49.	*	1 JAN 2015	82	0.00	0.00	0.00	0.
1 JAN 0800	33	0.12	0.08	0.04	57.	*	1 JAN 2030	83	0.00	0.00	0.00	0.
1 JAN 0815	34	0.38	0.22	0.15	100.	*	1 JAN 2045	84	0.00	0.00	0.00	0.
1 JAN 0830	35	0.38	0.19	0.18	180.	*	1 JAN 2100	85	0.00	0.00	0.00	0.
1 JAN 0845	36	0.38	0.17	0.20	244.	*	1 JAN 2115	86	0.00	0.00	0.00	0.
1 JAN 0900	37	0.38	0.15	0.22	291.	*	1 JAN 2130	87	0.00	0.00	0.00	0.
1 JAN 0915	38	0.12	0.05	0.08	273.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.12	0.05	0.08	199.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.12	0.04	0.08	155.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.12	0.04	0.08	139.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	105.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	51.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	21.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	9.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	3.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	1.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	1.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.61, TOTAL EXCESS = 1.29

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW		24.75-HR
(CFS)	(HR)	(CFS)		24-HR	72-HR	
+	291.	9.00	84.	21.	20.	20.
+			(INCHES)	1.294	1.295	1.295
			(AC-FT)	42.	42.	42.

CUMULATIVE AREA = 0.60 SQ MI

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*****
*
*
36 KK      5C *      CNAME      5R
*
*
*****

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37 KO      OUTPUT CONTROL VARIABLES
          IPRNT      0      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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38 HC      HYDROGRAPH COMBINATION
          ICOMP      2      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 5C  
SUM OF 2 HYDROGRAPHS

Event.out

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	32.	1	JAN	1230	51	0.	1	JAN	1845	76	0.
1	JAN	0015	2	0.	1	JAN	0630	27	35.	1	JAN	1245	52	0.	1	JAN	1900	77	0.
1	JAN	0030	3	0.	1	JAN	0645	28	36.	1	JAN	1300	53	0.	1	JAN	1915	78	0.
1	JAN	0045	4	0.	1	JAN	0700	29	39.	1	JAN	1315	54	0.	1	JAN	1930	79	0.
1	JAN	0100	5	0.	1	JAN	0715	30	53.	1	JAN	1330	55	0.	1	JAN	1945	80	0.
1	JAN	0115	6	0.	1	JAN	0730	31	79.	1	JAN	1345	56	0.	1	JAN	2000	81	0.
1	JAN	0130	7	0.	1	JAN	0745	32	103.	1	JAN	1400	57	0.	1	JAN	2015	82	0.
1	JAN	0145	8	0.	1	JAN	0800	33	122.	1	JAN	1415	58	0.	1	JAN	2030	83	0.
1	JAN	0200	9	0.	1	JAN	0815	34	202.	1	JAN	1430	59	0.	1	JAN	2045	84	0.
1	JAN	0215	10	0.	1	JAN	0830	35	365.	1	JAN	1445	60	0.	1	JAN	2100	85	0.
1	JAN	0230	11	0.	1	JAN	0845	36	511.	1	JAN	1500	61	0.	1	JAN	2115	86	0.
1	JAN	0245	12	0.	1	JAN	0900	37	618.	1	JAN	1515	62	0.	1	JAN	2130	87	0.
1	JAN	0300	13	0.	1	JAN	0915	38	604.	1	JAN	1530	63	0.	1	JAN	2145	88	0.
1	JAN	0315	14	0.	1	JAN	0930	39	459.	1	JAN	1545	64	0.	1	JAN	2200	89	0.
1	JAN	0330	15	0.	1	JAN	0945	40	355.	1	JAN	1600	65	0.	1	JAN	2215	90	0.
1	JAN	0345	16	0.	1	JAN	1000	41	313.	1	JAN	1615	66	0.	1	JAN	2230	91	0.
1	JAN	0400	17	0.	1	JAN	1015	42	246.	1	JAN	1630	67	0.	1	JAN	2245	92	0.
1	JAN	0415	18	0.	1	JAN	1030	43	133.	1	JAN	1645	68	0.	1	JAN	2300	93	0.
1	JAN	0430	19	0.	1	JAN	1045	44	59.	1	JAN	1700	69	0.	1	JAN	2315	94	0.
1	JAN	0445	20	0.	1	JAN	1100	45	26.	1	JAN	1715	70	0.	1	JAN	2330	95	0.
1	JAN	0500	21	0.	1	JAN	1115	46	11.	1	JAN	1730	71	0.	1	JAN	2345	96	0.
1	JAN	0515	22	0.	1	JAN	1130	47	5.	1	JAN	1745	72	0.	2	JAN	0000	97	0.
1	JAN	0530	23	0.	1	JAN	1145	48	2.	1	JAN	1800	73	0.	2	JAN	0015	98	0.
1	JAN	0545	24	2.	1	JAN	1200	49	1.	1	JAN	1815	74	0.	2	JAN	0030	99	0.
1	JAN	0600	25	16.	1	JAN	1215	50	0.	1	JAN	1830	75	0.	2	JAN	0045	100	0.

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
618.	9.00	184.	46.	45.	45.
	(INCHES)	1.294	1.295	1.295	1.295
	(AC-FT)	91.	91.	91.	91.
CUMULATIVE AREA =		1.32 SQ MI			

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*****
*
39 KK *      5R *      CNAME      5C
*
*****

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40 KO      OUTPUT CONTROL VARIABLES
      IPRNT      0      PRINT CONTROL
      IPILOT     0      PLOT CONTROL
      QSCAL      0.    HYDROGRAPH PLOT SCALE
      IPNCH      0      PUNCH COMPUTED HYDROGRAPH
      IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
      ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
      ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
      TIMINT     0.250  TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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41 RM      MUSKINGUM ROUTING
      NSTPS      1      NUMBER OF SUBREACHES
      AMSKK      0.12   MUSKINGUM K
      X          0.20   MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 5R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	24.	1	JAN	1230	51	0.	1	JAN	1845	76	0.
1	JAN	0015	2	0.	1	JAN	0630	27	34.	1	JAN	1245	52	0.	1	JAN	1900	77	0.
1	JAN	0030	3	0.	1	JAN	0645	28	36.	1	JAN	1300	53	0.	1	JAN	1915	78	0.
1	JAN	0045	4	0.	1	JAN	0700	29	37.	1	JAN	1315	54	0.	1	JAN	1930	79	0.
1	JAN	0100	5	0.	1	JAN	0715	30	45.	1	JAN	1330	55	0.	1	JAN	1945	80	0.
1	JAN	0115	6	0.	1	JAN	0730	31	65.	1	JAN	1345	56	0.	1	JAN	2000	81	0.
1	JAN	0130	7	0.	1	JAN	0745	32	91.	1	JAN	1400	57	0.	1	JAN	2015	82	0.
1	JAN	0145	8	0.	1	JAN	0800	33	113.	1	JAN	1415	58	0.	1	JAN	2030	83	0.
1	JAN	0200	9	0.	1	JAN	0815	34	159.	1	JAN	1430	59	0.	1	JAN	2045	84	0.
1	JAN	0215	10	0.	1	JAN	0830	35	280.	1	JAN	1445	60	0.	1	JAN	2100	85	0.
1	JAN	0230	11	0.	1	JAN	0845	36	440.	1	JAN	1500	61	0.	1	JAN	2115	86	0.
1	JAN	0245	12	0.	1	JAN	0900	37	567.	1	JAN	1515	62	0.	1	JAN	2130	87	0.
1	JAN	0300	13	0.	1	JAN	0915	38	618.	1	JAN	1530	63	0.	1	JAN	2145	88	0.
1	JAN	0315	14	0.	1	JAN	0930	39	538.	1	JAN	1545	64	0.	1	JAN	2200	89	0.
1	JAN	0330	15	0.	1	JAN	0945	40	404.	1	JAN	1600	65	0.	1	JAN	2215	90	0.

```

Event.out
1 JAN 0345 16 0. * 1 JAN 1000 41 331. * 1 JAN 1615 66 0. * 1 JAN 2230 91*****
1 JAN 0400 17 0. * 1 JAN 1015 42 281. * 1 JAN 1630 67 0. * 1 JAN 2245 92*****
1 JAN 0415 18 0. * 1 JAN 1030 43 191. * 1 JAN 1645 68 0. * 1 JAN 2300 93*****
1 JAN 0430 19 0. * 1 JAN 1045 44 93. * 1 JAN 1700 69 0. * 1 JAN 2315 94*****
1 JAN 0445 20 0. * 1 JAN 1100 45 40. * 1 JAN 1715 70 0. * 1 JAN 2330 95*****
1 JAN 0500 21 0. * 1 JAN 1115 46 18. * 1 JAN 1730 71 0. * 1 JAN 2345 96*****
1 JAN 0515 22 0. * 1 JAN 1130 47 8. * 1 JAN 1745 72 0. * 2 JAN 0000 97*****
1 JAN 0530 23 0. * 1 JAN 1145 48 3. * 1 JAN 1800 73 0. * 2 JAN 0015 98 0.
1 JAN 0545 24 1. * 1 JAN 1200 49 1. * 1 JAN 1815 74 0. * 2 JAN 0030 99 0.
1 JAN 0600 25 8. * 1 JAN 1215 50 0. * 1 JAN 1830 75 0. * 2 JAN 0045 100 0.

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*****
PEAK FLOW      TIME              MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)              6-HR      24-HR      72-HR      24.75-HR
+ 618.         9.25              (CFS)    184.      46.       45.       45.
                (INCHES) 1.293    1.295    1.295    1.295
                (AC-FT) 91.      91.      91.      91.
                CUMULATIVE AREA = 1.32 SQ MI

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*****
*          *
42 KK      *      4aB *
*          *
*****

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43 KO      OUTPUT CONTROL VARIABLES
           IPRNT      0 PRINT CONTROL
           IPLOT      0 PLOT CONTROL
           QSCAL      0. HYDROGRAPH PLOT SCALE
           IPNCH      1 PUNCH COMPUTED HYDROGRAPH
           IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
           ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
           ISAV2     100 LAST ORDINATE PUNCHED OR SAVED
           TIMINT     0.250 TIME INTERVAL IN HOURS

```

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SUBBASIN RUNOFF DATA
44 BA      SUBBASIN CHARACTERISTICS
           TAREA,    0.88 SUBBASIN AREA

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PRECIPITATION DATA
47 PT      TOTAL STORM STATIONS      Gage
48 PW      WEIGHTS                    0.72
45 PR      RECORDING STATIONS        Gage
46 PW      WEIGHTS                    1.00

```

```

49 LS      SCS LOSS RATE
           STRTL     0.84 INITIAL ABSTRACTION
           CRVNBR    70.52 CURVE NUMBER
           RTIMP     0.00 PERCENT IMPERVIOUS AREA

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50 UD      SCS DIMENSIONLESS UNITGRAPH
           TLAG      0.36 LAG

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PRECIPITATION STATION DATA
           STATION  TOTAL  AVG. ANNUAL  WEIGHT
           Gage    3.90   0.00          0.72

```

```

TEMPORAL DISTRIBUTIONS
           STATION  Gage, WEIGHT = 1.00
           0.00    0.00  0.00  0.00  0.00  0.00  0.00  0.10  0.02  0.03
           0.02    0.03  0.02  0.03  0.03  0.03  0.02  0.03  0.03  0.03
           0.19    0.19  0.19  0.19  0.06  0.06  0.06  0.06  0.12  0.12
           0.12    0.12  0.38  0.38  0.38  0.38  0.12  0.12  0.12  0.12

```

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

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UNIT HYDROGRAPH
9 END-OF-PERIOD ORDINATES
445. 881. 545. 225. 97. 42. 18. 8. 3.

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HYDROGRAPH AT STATION 4aB

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```

           DA MON HRMN  ORD  RAIN  LOSS  EXCESS  COMP Q  *
           *          *          *          *          *          *
           *          *          *          *          *          *
1 JAN 0000  1  0.00  0.00  0.00  0.  * 1 JAN 1230  51  0.00  0.00  0.00  0.
1 JAN 0015  2  0.00  0.00  0.00  0.  * 1 JAN 1245  52  0.00  0.00  0.00  0.
1 JAN 0030  3  0.00  0.00  0.00  0.  * 1 JAN 1300  53  0.00  0.00  0.00  0.

```

Event.out												
1 JAN 0045	4	0.00	0.00	0.00	0.	*	1 JAN 1315	54	0.00	0.00	0.00	0.
1 JAN 0100	5	0.00	0.00	0.00	0.	*	1 JAN 1330	55	0.00	0.00	0.00	0.
1 JAN 0115	6	0.00	0.00	0.00	0.	*	1 JAN 1345	56	0.00	0.00	0.00	0.
1 JAN 0130	7	0.00	0.00	0.00	0.	*	1 JAN 1400	57	0.00	0.00	0.00	0.
1 JAN 0145	8	0.00	0.00	0.00	0.	*	1 JAN 1415	58	0.00	0.00	0.00	0.
1 JAN 0200	9	0.10	0.10	0.00	0.	*	1 JAN 1430	59	0.00	0.00	0.00	0.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.00	0.00	0.00	0.
1 JAN 0230	11	0.03	0.03	0.00	0.	*	1 JAN 1500	61	0.00	0.00	0.00	0.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.00	0.00	0.00	0.
1 JAN 0300	13	0.03	0.03	0.00	0.	*	1 JAN 1530	63	0.00	0.00	0.00	0.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.00	0.00	0.00	0.
1 JAN 0330	15	0.03	0.03	0.00	0.	*	1 JAN 1600	65	0.00	0.00	0.00	0.
1 JAN 0345	16	0.03	0.03	0.00	0.	*	1 JAN 1615	66	0.00	0.00	0.00	0.
1 JAN 0400	17	0.03	0.03	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.
1 JAN 0430	19	0.03	0.03	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.
1 JAN 0445	20	0.03	0.03	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.
1 JAN 0500	21	0.03	0.03	0.00	0.	*	1 JAN 1730	71	0.00	0.00	0.00	0.
1 JAN 0515	22	0.19	0.19	0.00	0.	*	1 JAN 1745	72	0.00	0.00	0.00	0.
1 JAN 0530	23	0.19	0.19	0.00	0.	*	1 JAN 1800	73	0.00	0.00	0.00	0.
1 JAN 0545	24	0.19	0.18	0.00	2.	*	1 JAN 1815	74	0.00	0.00	0.00	0.
1 JAN 0600	25	0.19	0.17	0.02	11.	*	1 JAN 1830	75	0.00	0.00	0.00	0.
1 JAN 0615	26	0.06	0.05	0.01	22.	*	1 JAN 1845	76	0.00	0.00	0.00	0.
1 JAN 0630	27	0.06	0.05	0.01	24.	*	1 JAN 1900	77	0.00	0.00	0.00	0.
1 JAN 0645	28	0.06	0.05	0.01	24.	*	1 JAN 1915	78	0.00	0.00	0.00	0.
1 JAN 0700	29	0.06	0.05	0.01	26.	*	1 JAN 1930	79	0.00	0.00	0.00	0.
1 JAN 0715	30	0.12	0.09	0.03	36.	*	1 JAN 1945	80	0.00	0.00	0.00	0.
1 JAN 0730	31	0.12	0.09	0.04	54.	*	1 JAN 2000	81	0.00	0.00	0.00	0.
1 JAN 0745	32	0.12	0.09	0.04	70.	*	1 JAN 2015	82	0.00	0.00	0.00	0.
1 JAN 0800	33	0.12	0.08	0.04	82.	*	1 JAN 2030	83	0.00	0.00	0.00	0.
1 JAN 0815	34	0.38	0.22	0.15	140.	*	1 JAN 2045	84	0.00	0.00	0.00	0.
1 JAN 0830	35	0.38	0.19	0.18	252.	*	1 JAN 2100	85	0.00	0.00	0.00	0.
1 JAN 0845	36	0.38	0.17	0.20	348.	*	1 JAN 2115	86	0.00	0.00	0.00	0.
1 JAN 0900	37	0.38	0.15	0.22	418.	*	1 JAN 2130	87	0.00	0.00	0.00	0.
1 JAN 0915	38	0.12	0.05	0.08	400.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.12	0.05	0.08	296.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.12	0.04	0.08	229.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.12	0.04	0.08	204.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	157.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	80.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	34.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	14.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	6.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	2.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	1.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.60, TOTAL EXCESS = 1.30

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
+	418.	122.	31.	30.	30.
+	9.00	(INCHES) 1.295	1.296	1.296	1.296
		(AC-FT) 61.	61.	61.	61.

CUMULATIVE AREA = 0.88 SQ MI

\*\*\* \*\*

51 KK \*\*\*\*\*  
\* \*  
\* 4bB \*  
\* \*  
\*\*\*\*\*

52 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

53 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

56 PT TOTAL STORM STATIONS Gage  
57 PW WEIGHTS 0.72

54 PR RECORDING STATIONS Gage  
55 PW WEIGHTS 1.00

58 LS SCS LOSS RATE

STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

Event.out

59 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.38 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
 Gage 3.90 0.00 0.72

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.10 0.02 0.03  
 0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03  
 0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12  
 0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES

263. 575. 405. 170. 78. 35. 16. 7. 3. 0.

HYDROGRAPH AT STATION 4bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.10	0.10	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.00	1.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.17	0.02	7.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	14.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	16.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	16.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.01	18.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.03	24.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.09	0.04	36.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.09	0.04	47.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.04	55.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.22	0.15	90.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.19	0.18	164.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.17	0.20	231.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.15	0.22	280.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.05	0.08	276.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.05	0.08	211.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.08	161.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.08	142.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	113.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	62.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	27.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	12.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	5.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	2.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	1.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.61, TOTAL EXCESS = 1.29

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
280.	9.00	84.	21.	20.	20.	
		(INCHES)	1.294	1.295	1.295	1.295
		(AC-FT)	41.	42.	42.	42.

CUMULATIVE AREA = 0.60 SQ MI Event.out

\*\*\* \*\*

60 KK \*\*\*\*\*
\* \*
\* 4C \* CNAME 4R
\* \*
\*\*\*\*\*

61 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

62 HC HYDROGRAPH COMBINATION
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE
\*\*\*

HYDROGRAPH AT STATION 4C
SUM OF 3 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 15 empty columns. Rows contain hydrograph data for various dates in January and February.

PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR
+ 1293. 9.25 (CFS) 390. 98. 95. 95.
(INCHES) 1.294 1.295 1.295 1.295
(AC-FT) 193. 194. 194. 194.
CUMULATIVE AREA = 2.80 SQ MI

\*\*\* \*\*

63 KK \*\*\*\*\*
\* \*
\* 4R \* CNAME 4C
\* \*
\*\*\*\*\*

64 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS



HYDROGRAPH ROUTING DATA

65 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.11 MUSKINGUM K
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 4R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 4 times). Contains hydrograph data for station 4R from 1 JAN 0000 to 2 JAN 0045.

Summary statistics table with columns: PEAK FLOW, TIME, 6-HR, MAXIMUM AVERAGE FLOW (24-HR, 72-HR, 24.75-HR). Includes values for peak flow (1295 CFS) and cumulative area (2.80 SQ MI).

\*\*\* \*\* \*\* \*\* \*\*

66 KK 3B

67 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

68 BA SUBBASIN CHARACTERISTICS
TAREA, 1.13 SUBBASIN AREA

PRECIPITATION DATA

71 PT TOTAL STORM STATIONS Gage
72 PW WEIGHTS 0.72

69 PR RECORDING STATIONS Gage
70 PW WEIGHTS 1.00

73 LS SCS LOSS RATE
STRTL 0.83 INITIAL ABSTRACTION
CRVNBR 70.75 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

\*\*\*

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
Gage 3.90 0.00 0.72

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.10 0.02 0.03  
0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03  
0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12 0.12  
0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
9 END-OF-PERIOD ORDINATES

673. 1194. 626. 255. 105. 43. 17. 8. 1.

HYDROGRAPH AT STATION 3B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.10	0.10	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.00	3.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.17	0.02	18.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	32.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	32.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	33.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.01	35.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.03	50.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.09	0.04	75.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.08	0.04	95.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.04	110.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.22	0.15	195.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.19	0.18	351.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.17	0.21	470.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.15	0.22	557.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.05	0.08	514.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.04	0.08	367.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.08	289.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.08	260.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	194.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	90.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	37.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	14.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	6.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	2.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	1.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.59, TOTAL EXCESS = 1.31

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
557.	9.00		159.	40.	39.	39.
		(INCHES)	1.310	1.310	1.310	1.310
		(AC-FT)	79.	79.	79.	79.

CUMULATIVE AREA = 1.13 SQ MI

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75 KK \*\*\*\*\*
\* \*
\* 3C \* CNAME 3R
\* \*
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76 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

77 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

\*\*\*

HYDROGRAPH AT STATION 3C
SUM OF 2 HYDROGRAPHS

\*\*\*\*\*

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 4 times). Rows list hydrograph data for various dates in January, including flow values and station identifiers.

\*\*\*\*\*

Summary table with columns: PEAK FLOW, TIME, 6-HR, MAXIMUM AVERAGE FLOW (24-HR, 72-HR, 24.75-HR). Includes values in CFS, INCHES, and AC-FT, and a CUMULATIVE AREA of 3.93 SQ MI.

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78 KK \*\*\*\*\*
\* \*
\* 3R \* CNAME 3C
\* \*
\*\*\*\*\*

79 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

80 RM MUSKINGUM ROUTING

Event.out  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.08 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 3R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	62.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	95.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	107.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	112.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	131.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	183.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	255.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	323.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	448.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	756.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1199.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1605.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1806.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1657.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1304.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1035.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	861.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	627.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	347.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	154.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	63.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	28.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	11.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	3.	*	1	JAN	1200	49	5.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	21.	*	1	JAN	1215	50	2.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
(CFS)	(HR)					
1806.	9.25	549.	137.	133.	133.	133.
		(INCHES)	1.298	1.299	1.299	1.299
		(AC-FT)	272.	273.	273.	273.
CUMULATIVE AREA =		3.93 SQ MI				

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81 KK \* 2B \*

82 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA  
 83 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.71 SUBBASIN AREA

PRECIPITATION DATA  
 86 PT TOTAL STORM STATIONS Gage  
 87 PW WEIGHTS 0.72  
 84 PR RECORDING STATIONS Gage  
 85 PW WEIGHTS 1.00

88 LS SCS LOSS RATE  
 STRTL 0.82 INITIAL ABSTRACTION  
 CRVNR 70.88 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

89 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.24 LAG

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT
Gage 3.90 0.00 0.72

TEMPORAL DISTRIBUTIONS

Table with 11 columns: STATION, Gage, WEIGHT, and 8 numerical values. Row 1: 0.00, 0.00, 1.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.10, 0.02, 0.03

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH
7 END-OF-PERIOD ORDINATES

742. 737. 236. 77. 25. 9. 2.

HYDROGRAPH AT STATION 2B

Large table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q. Contains multiple rows of hydrograph data for various dates in January.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.58, TOTAL EXCESS = 1.32

Table with columns: PEAK FLOW, TIME, MAXIMUM AVERAGE FLOW. Rows show values for 6-HR, 24-HR, 72-HR, and 24.75-HR intervals.

CUMULATIVE AREA = 0.71 SQ MI

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90 KK 2C \* CNAME 2R
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91 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

92 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

\*\*\*

HYDROGRAPH AT STATION 2C
SUM OF 2 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 4 times). Rows list hydrograph data for various dates in January, including flow values and ordinates.

Summary table with columns: PEAK FLOW (CFS), TIME (HR), MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR). Values include 2097 CFS peak flow and 9.25 HR time.

CUMULATIVE AREA = 4.64 SQ MI

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93 KK 2R \* CNAME 2C
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94 KO OUTPUT CONTROL VARIABLES
IPRNT 0 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

95 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.12 MUSKINGUM K
X 0.20 MUSKINGUM X

Event.out

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 2R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	62.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	102.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	123.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	132.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	151.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	203.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	280.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	362.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	500.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	813.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1283.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1770.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2063.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1988.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1655.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1315.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1064.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	801.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	498.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	245.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	102.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	42.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	18.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	3.	*	1	JAN	1200	49	7.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	22.	*	1	JAN	1215	50	3.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

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PEAK FLOW	TIME		MAXIMUM	AVERAGE FLOW		
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
2063.	9.25	650.	163.	158.	158.	
		(INCHES)	1.301	1.302	1.302	1.302
		(AC-FT)	322.	323.	323.	323.
CUMULATIVE AREA =			4.64 SQ MI			

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96 KK \* 1B \*  
\* \*  
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97 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

98 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

101 PT TOTAL STORM STATIONS Gage  
102 PW WEIGHTS 0.72

99 PR RECORDING STATIONS Gage  
100 PW WEIGHTS 1.00

103 LS SCS LOSS RATE  
STRTL 0.81 INITIAL ABSTRACTION  
CRVNBR 71.15 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

104 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.28 LAG

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PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT

Gage 3.90 0.00 0.72 Event.out

TEMPORAL DISTRIBUTIONS

Table with 10 columns: STATION, Gage, WEIGHT, and 8 numerical values. Rows show values for stations 0.00, 0.02, 0.19, and 0.12.

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH 8 END-OF-PERIOD ORDINATES

592. 779. 308. 114. 42. 15. 6. 0.

HYDROGRAPH AT STATION 1B

Large data table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and 8 numerical values. Rows range from 1 JAN 0000 to 2 JAN 0045.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.56, TOTAL EXCESS = 1.34

Summary table with columns: PEAK FLOW, TIME, 6-HR, 24-HR, 72-HR, 24.75-HR. Includes values for (CFS) and (INCHES) and (AC-FT).

CUMULATIVE AREA = 0.72 SQ MI

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\*
105 KK \* 1C \* CNAME 1C
\*



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106 KO            OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

107 HC            HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION        1C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	86.	*	1	JAN	1230	51	1.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	123.	*	1	JAN	1245	52	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	146.	*	1	JAN	1300	53	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	156.	*	1	JAN	1315	54	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	187.	*	1	JAN	1330	55	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	256.	*	1	JAN	1345	56	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	346.	*	1	JAN	1400	57	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	437.	*	1	JAN	1415	58	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	647.	*	1	JAN	1430	59	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	1067.	*	1	JAN	1445	60	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1607.	*	1	JAN	1500	61	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	2144.	*	1	JAN	1515	62	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2379.	*	1	JAN	1530	63	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2202.	*	1	JAN	1545	64	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1830.	*	1	JAN	1600	65	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1476.	*	1	JAN	1615	66	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1172.	*	1	JAN	1630	67	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	842.	*	1	JAN	1645	68	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	513.	*	1	JAN	1700	69	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	250.	*	1	JAN	1715	70	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	104.	*	1	JAN	1730	71	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	43.	*	1	JAN	1745	72	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	18.	*	1	JAN	1800	73	0.	*
1	JAN	0545	24	6.	*	1	JAN	1200	49	7.	*	1	JAN	1815	74	0.	*
1	JAN	0600	25	38.	*	1	JAN	1215	50	3.	*	1	JAN	1830	75	0.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)				
+	2379.	9.25	753.	188.	183.
			(INCHES)	1.305	1.307
			(AC-FT)	373.	374.

CUMULATIVE AREA = 5.36 SQ MI

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108 KK            1C            CNAME        1C

109 KO            OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

110 RN            NO ROUTING

\*\*\*

HYDROGRAPH AT STATION        1C

				Event.out																		
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	*	1	JAN	0615	26	86.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.
1	JAN	0015	2	0.	*	1	JAN	0630	27	123.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.
1	JAN	0030	3	0.	*	1	JAN	0645	28	146.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.
1	JAN	0045	4	0.	*	1	JAN	0700	29	156.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.
1	JAN	0100	5	0.	*	1	JAN	0715	30	187.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.
1	JAN	0115	6	0.	*	1	JAN	0730	31	256.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.
1	JAN	0130	7	0.	*	1	JAN	0745	32	346.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.
1	JAN	0145	8	0.	*	1	JAN	0800	33	437.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.
1	JAN	0200	9	0.	*	1	JAN	0815	34	647.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.
1	JAN	0215	10	0.	*	1	JAN	0830	35	1067.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.
1	JAN	0230	11	0.	*	1	JAN	0845	36	1607.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.
1	JAN	0245	12	0.	*	1	JAN	0900	37	2144.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.
1	JAN	0300	13	0.	*	1	JAN	0915	38	2379.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.
1	JAN	0315	14	0.	*	1	JAN	0930	39	2202.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.
1	JAN	0330	15	0.	*	1	JAN	0945	40	1830.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.
1	JAN	0345	16	0.	*	1	JAN	1000	41	1476.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.
1	JAN	0400	17	0.	*	1	JAN	1015	42	1172.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.
1	JAN	0415	18	0.	*	1	JAN	1030	43	842.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.
1	JAN	0430	19	0.	*	1	JAN	1045	44	513.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.
1	JAN	0445	20	0.	*	1	JAN	1100	45	250.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.
1	JAN	0500	21	0.	*	1	JAN	1115	46	104.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.
1	JAN	0515	22	0.	*	1	JAN	1130	47	43.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.
1	JAN	0530	23	0.	*	1	JAN	1145	48	18.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.
1	JAN	0545	24	6.	*	1	JAN	1200	49	7.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.
1	JAN	0600	25	38.	*	1	JAN	1215	50	3.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
2379.	9.25	753.	188.	183.	183.
		(INCHES)	1.305	1.307	1.307
		(AC-FT)	373.	374.	374.
CUMULATIVE AREA =		5.36 SQ MI			

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	5bB	330.	9.25	100.	25.	24.	0.72		
HYDROGRAPH AT	5aB	291.	9.00	84.	21.	20.	0.60		
2 COMBINED AT	5C	618.	9.00	184.	46.	45.	1.32		
ROUTED TO	5R	618.	9.25	184.	46.	45.	1.32		
HYDROGRAPH AT	4aB	418.	9.00	122.	31.	30.	0.88		
HYDROGRAPH AT	4bB	280.	9.00	84.	21.	20.	0.60		
3 COMBINED AT	4C	1293.	9.25	390.	98.	95.	2.80		
ROUTED TO	4R	1295.	9.25	390.	98.	95.	2.80		
HYDROGRAPH AT	3B	557.	9.00	159.	40.	39.	1.13		
2 COMBINED AT	3C	1810.	9.25	549.	137.	133.	3.93		
ROUTED TO	3R	1806.	9.25	549.	137.	133.	3.93		
HYDROGRAPH AT	2B	376.	9.00	100.	25.	24.	0.71		
2 COMBINED AT	2C	2097.	9.25	650.	163.	158.	4.64		
ROUTED TO	2R	2063.	9.25	650.	163.	158.	4.64		
HYDROGRAPH AT	1B	374.	9.00	103.	26.	25.	0.72		
2 COMBINED AT	1C	2379.	9.25	753.	188.	183.	5.36		
ROUTED TO									

+					Event.out		
	1C	2379.	9.25	753.	188.	183.	5.36

\*\*\* NORMAL END OF HEC-1 \*\*\*

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1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
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*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1G5, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	Seng Creek									
2	ID	w Reclaimed Mining & wo Logging (Scenario 3), LIDAR Data									
3	ID	25 yr Storm									
4	IT	15	1JAN94	0	100						
5	IO	0									
6	KK	5bB									
7	KO	0	0	0.0	1	22					
8	BA	0.7209									
9	PB	4.65									
10	IN	6	1JAN94	0							
		* typeII-24hour									
11	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
12	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
13	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
14	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
15	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
16	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
17	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
18	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
19	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
20	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
21	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
22	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
23	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
24	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
25	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
26	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
27	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
28	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
29	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
30	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
31	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
32	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
33	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
34	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
35	PC	1.0									
36	LS	0.0	70.5	0.0							
37	UD	0.4104									
38	KK	5aB									
39	KO	0	0	0.0	1	22					
40	BA	0.6039									
41	PB	4.65									
42	IN	6	1JAN94	0							
		* typeII-24hour									
43	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
44	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
45	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
46	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
47	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
48	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
49	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
50	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
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138      LS      0.0   70.5   0.0
139      UD      0.383

140      KK      4C   CNAME   4R
141      KO      0     0     0.0   0   22
142      HC      3

143      KK      4R   CNAME   4C
144      KO      0     0     0.0   0   22
145      RM      1   0.112   0.2

146      KK      3B
147      KO      0     0     0.0   1   22
148      BA      1.1321
149      PB      4.65
150      IN      6   1JAN94   0
* typeII-24hour

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HEC-1 INPUT

PAGE 4

LINE	ID	1	2	3	4	5	6	7	8	9	10
151	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
152	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
153	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
154	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
155	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
156	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
157	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
158	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
159	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
160	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
161	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
162	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
163	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
164	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
165	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
166	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
167	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
168	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
169	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
170	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
171	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
172	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
173	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
174	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
175	PC	1.0									
176	LS	0.0	70.75	0.0							
177	UD	0.3323									
178	KK	3C	CNAME	3R							
179	KO	0	0	0.0	0	22					
180	HC	2									
181	KK	3R	CNAME	3C							
182	KO	0	0	0.0	0	22					
183	RM	1	0.081	0.2							
184	KK	2B									
185	KO	0	0	0.0	1	22					
186	BA	0.7082									
187	PB	4.65									
188	IN	6	1JAN94	0							
189	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
190	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
191	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
192	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
193	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
194	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
195	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
196	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
197	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
198	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
199	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
200	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
201	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656

HEC-1 INPUT

PAGE 5

LINE	ID	1	2	3	4	5	6	7	8	9	10
202	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
203	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
204	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
205	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
206	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
207	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
208	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
209	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
210	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
211	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
212	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
213	PC	1.0									
214	LS	0.0	70.88	0.0							
215	UD	0.2379									
216	KK	2C	CNAME	2R							

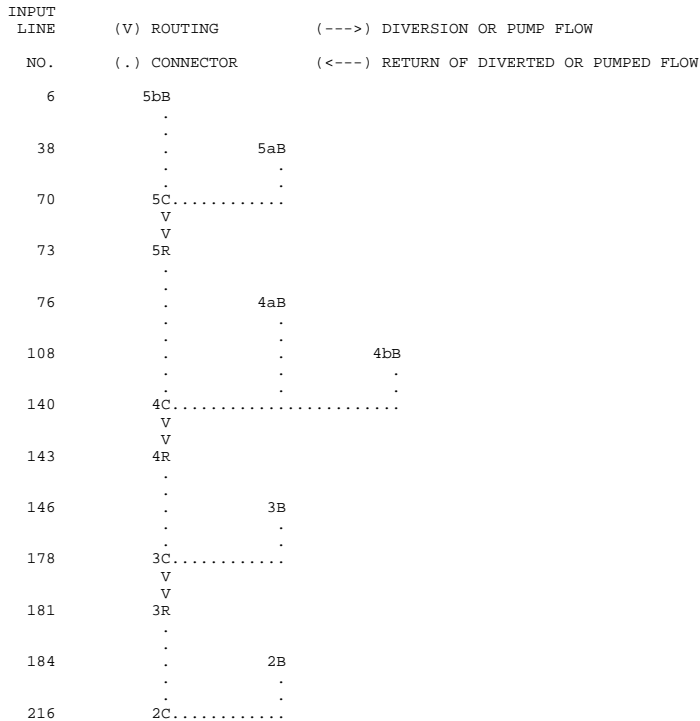
LINE	CODE	VALUE	UNIT	DATE	TIME	25yr.out
217	KO	0		0.0	0	
218	HC	2				
219	KK	2R	CNAME	2C		
220	KO	0		0.0	0	22
221	RM	1	0.119	0.2		
222	KK	1B				
223	KO	0		0.0	1	22
224	BA	0.7193				
225	PB	4.65				
226	IN	6	1JAN94	0		
* typeII-24hour						
227	PC	0.0	0.001	0.002	0.0031	0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
228	PC	0.0105	0.0116	0.0127	0.0138	0.015 0.0161 0.0173 0.0185 0.0196 0.0208
229	PC	0.022	0.0232	0.0244	0.0256	0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
230	PC	0.0345	0.0358	0.0371	0.0384	0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
231	PC	0.048	0.0494	0.0508	0.0523	0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
232	PC	0.063	0.0646	0.0662	0.0679	0.0696 0.0712 0.073 0.0747 0.0764 0.0782
233	PC	0.08	0.0818	0.0836	0.0855	0.0874 0.0892 0.0912 0.0931 0.095 0.097
234	PC	0.099	0.101	0.103	0.1051	0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
235	PC	0.12	0.1223	0.1246	0.1271	0.1296 0.1323 0.135 0.1379 0.1408 0.1439
236	PC	0.147	0.1502	0.1534	0.1566	0.1598 0.163 0.1663 0.1697 0.1733 0.1771
237	PC	0.181	0.1851	0.1895	0.1941	0.1989 0.204 0.2094 0.2152 0.2214 0.228
238	PC	0.235	0.2427	0.2513	0.2609	0.2715 0.283 0.3068 0.3544 0.4308 0.5679
239	PC	0.663	0.682	0.6986	0.713	0.7252 0.735 0.7434 0.7514 0.7588 0.7656
240	PC	0.772	0.778	0.7836	0.789	0.7942 0.799 0.8036 0.808 0.8122 0.8162
241	PC	0.82	0.8237	0.8273	0.8308	0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
242	PC	0.8535	0.8565	0.8594	0.8622	0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
243	PC	0.88	0.8823	0.8845	0.8868	0.889 0.8912 0.8933 0.8955 0.8976 0.8997
244	PC	0.9018	0.9038	0.9058	0.9078	0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
245	PC	0.921	0.9228	0.9245	0.9263	0.928 0.9297 0.9314 0.933 0.9346 0.9362
246	PC	0.9377	0.9393	0.9408	0.9423	0.9437 0.9452 0.9466 0.948 0.9494 0.9507
247	PC	0.952	0.9533	0.9546	0.9559	0.9572 0.9584 0.9597 0.961 0.9622 0.9635
248	PC	0.9648	0.966	0.9672	0.9685	0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
249	PC	0.977	0.9782	0.9794	0.9806	0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
250	PC	0.9888	0.9899	0.991	0.9922	0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
251	PC	1.0				
252	LS	0.0	71.15	0.0		

HEC-1 INPUT

PAGE 6

LINE	ID	1	2	3	4	5	6	7	8	9	10
253	UD	0.2797									
254	KK	1C	CNAME	1C							
255	KO	0	0	0.0	0	0	22				
256	HC	2									
257	KK	1C	CNAME	1C							
258	KO	0	0	0.0	0	0	22				
259	RN	1C									
260	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK



219 V  
V  
2R  
. .  
222 . 1B  
. .  
254 1C.....  
V  
V  
257 1C

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1\*\*\*\*\*  
\*  
\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*  
\* MAY 1991 \*  
\* VERSION 4.0.1E \*  
\* RUN DATE TIME \*  
\* \*  
\*\*\*\*\*

\*\*\*\*\*  
\*  
\* U.S. ARMY CORPS OF ENGINEERS \*  
\* HYDROLOGIC ENGINEERING CENTER \*  
\* 609 SECOND STREET \*  
\* DAVIS, CALIFORNIA 95616 \*  
\* (916) 551-1748 \*  
\* \*  
\*\*\*\*\*

Seng Creek  
w Reclaimed Mining & wo Logging (Scenario 3), LIDAR Data  
25 yr Storm

5 IO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA  
NMIN 15 MINUTES IN COMPUTATION INTERVAL  
IDATE 1JAN94 STARTING DATE  
ITIME 0000 STARTING TIME  
NQ, 100 NUMBER OF HYDROGRAPH ORDINATES  
NDDATE 2JAN94 ENDING DATE  
NDTIME 0045 ENDING TIME  
ICENT 19 CENTURY MARK

COMPUTATION INTERVAL 0.25 HOURS  
TOTAL TIME BASE 24.75 HOURS

ENGLISH UNITS  
DRAINAGE AREA SQUARE MILES  
PRECIPITATION DEPTH INCHES  
LENGTH, ELEVATION FEET  
FLOW CUBIC FEET PER SECOND  
STORAGE VOLUME ACRE-Feet  
SURFACE AREA ACRES  
TEMPERATURE DEGREES FAHRENHEIT

\*\*\* \*\* \*\* \*\* \*\*

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\* \*  
6 KK \* 5bB \*  
\* \*  
\*\*\*\*\*

7 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

10 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

8 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

9 PB STORM 4.65 BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01



0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

36 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

37 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.41 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES  
 273. 649. 509. 228. 109. 50. 24. 11. 6. 2.

HYDROGRAPH AT STATION 5bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.08	437.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.04	0.06	282.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	193.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	139.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	107.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	88.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	74.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	64.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	57.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	53.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	50.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	47.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	44.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	42.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	40.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	37.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	35.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	34.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	33.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	32.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	31.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	30.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.01	29.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	28.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	27.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	27.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.01	26.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.01	25.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	24.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	23.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	22.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	21.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	20.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.01	0.00	0.01	20.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.01	0.00	0.01	20.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	20.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	19.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	19.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	19.
1	JAN	0945	40	0.04	0.04	0.00	0.	*	1	JAN	2215	90	0.01	0.00	0.01	19.
1	JAN	1000	41	0.04	0.04	0.00	0.	*	1	JAN	2230	91	0.01	0.00	0.01	19.
1	JAN	1015	42	0.05	0.05	0.00	0.	*	1	JAN	2245	92	0.01	0.00	0.01	18.
1	JAN	1030	43	0.06	0.05	0.00	1.	*	1	JAN	2300	93	0.01	0.00	0.01	18.
1	JAN	1045	44	0.07	0.06	0.00	3.	*	1	JAN	2315	94	0.01	0.00	0.01	18.
1	JAN	1100	45	0.08	0.07	0.01	6.	*	1	JAN	2330	95	0.01	0.00	0.01	18.
1	JAN	1115	46	0.10	0.09	0.01	11.	*	1	JAN	2345	96	0.01	0.00	0.01	18.
1	JAN	1130	47	0.13	0.10	0.02	19.	*	2	JAN	0000	97	0.01	0.00	0.01	18.
1	JAN	1145	48	0.51	0.37	0.14	61.	*	2	JAN	0015	98	0.00	0.00	0.00	15.
1	JAN	1200	49	1.26	0.66	0.60	268.	*	2	JAN	0030	99	0.00	0.00	0.00	9.
1	JAN	1215	50	0.20	0.08	0.12	497.	*	2	JAN	0045	100	0.00	0.00	0.00	4.

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.83, TOTAL EXCESS = 1.82

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(CFS)	(CFS)	(CFS)
497.	12.25	114.	35.	34.	34.
		(INCHES)	1.472	1.815	1.815
		(AC-FT)	57.	70.	70.

CUMULATIVE AREA = 0.72 SQ MI

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 \* \*  
 38 KK \* 5aB \*  
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39 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

42 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

40 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

41 PB STORM 4.65 BASIN TOTAL PRECIPITATION

43 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

68 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

69 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.34 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 334. 624. 352. 145. 61. 25. 11. 5. 1.

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HYDROGRAPH AT STATION 5aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.08	333.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.04	0.06	208.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	139.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	102.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	80.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	67.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	57.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	51.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	46.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	43.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	41.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	39.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	36.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	34.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	32.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	31.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	29.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	28.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	27.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	26.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	26.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	25.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.01	24.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	23.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	23.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	22.

25yr.out												
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.01	0.01	21.
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.01	0.01	20.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	20.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	19.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	18.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	18.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	17.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	17.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	17.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	16.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	16.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	16.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	16.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	16.
1 JAN 1000	41	0.04	0.04	0.00	0.	*	1 JAN 2230	91	0.01	0.00	0.01	16.
1 JAN 1015	42	0.05	0.05	0.00	0.	*	1 JAN 2245	92	0.01	0.00	0.01	15.
1 JAN 1030	43	0.06	0.05	0.00	1.	*	1 JAN 2300	93	0.01	0.00	0.01	15.
1 JAN 1045	44	0.07	0.06	0.00	3.	*	1 JAN 2315	94	0.01	0.00	0.01	15.
1 JAN 1100	45	0.08	0.07	0.01	6.	*	1 JAN 2330	95	0.01	0.00	0.01	15.
1 JAN 1115	46	0.10	0.09	0.01	11.	*	1 JAN 2345	96	0.01	0.00	0.01	15.
1 JAN 1130	47	0.13	0.10	0.02	19.	*	2 JAN 0000	97	0.01	0.00	0.01	15.
1 JAN 1145	48	0.51	0.37	0.14	66.	*	2 JAN 0015	98	0.00	0.00	0.00	12.
1 JAN 1200	49	1.26	0.66	0.60	296.	*	2 JAN 0030	99	0.00	0.00	0.00	6.
1 JAN 1215	50	0.20	0.08	0.12	464.	*	2 JAN 0045	100	0.00	0.00	0.00	2.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.83, TOTAL EXCESS = 1.82

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR	
464.	12.25	96.	29.	29.	29.	
		(INCHES)	1.475	1.816	1.816	1.816
		(AC-FT)	47.	58.	58.	58.

CUMULATIVE AREA = 0.60 SQ MI

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*      *
70 KK  *      5C *      CNAME      5R
*      *
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71 KO      OUTPUT CONTROL VARIABLES
          IPRNT      0      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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72 HC      HYDROGRAPH COMBINATION
          ICOMP      2      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 5C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	770.	*	1 JAN 1845	76	49.									
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	490.	*	1 JAN 1900	77	47.									
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	332.	*	1 JAN 1915	78	45.									
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	240.	*	1 JAN 1930	79	44.									
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	188.	*	1 JAN 1945	80	42.									
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	155.	*	1 JAN 2000	81	40.									
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	132.	*	1 JAN 2015	82	39.									
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	115.	*	1 JAN 2030	83	37.									
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	103.	*	1 JAN 2045	84	37.									
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	96.	*	1 JAN 2100	85	36.									
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	90.	*	1 JAN 2115	86	36.									
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	85.	*	1 JAN 2130	87	35.									
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	81.	*	1 JAN 2145	88	35.									
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	76.	*	1 JAN 2200	89	35.									
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	72.	*	1 JAN 2215	90	35.									
1 JAN 0345	16	0.	*	1 JAN 1000	41	0.	*	1 JAN 1615	66	68.	*	1 JAN 2230	91	34.									
1 JAN 0400	17	0.	*	1 JAN 1015	42	0.	*	1 JAN 1630	67	64.	*	1 JAN 2245	92	34.									
1 JAN 0415	18	0.	*	1 JAN 1030	43	2.	*	1 JAN 1645	68	62.	*	1 JAN 2300	93	34.									
1 JAN 0430	19	0.	*	1 JAN 1045	44	6.	*	1 JAN 1700	69	60.	*	1 JAN 2315	94	34.									
1 JAN 0445	20	0.	*	1 JAN 1100	45	12.	*	1 JAN 1715	70	58.	*	1 JAN 2330	95	33.									
1 JAN 0500	21	0.	*	1 JAN 1115	46	22.	*	1 JAN 1730	71	57.	*	1 JAN 2345	96	33.									
1 JAN 0515	22	0.	*	1 JAN 1130	47	38.	*	1 JAN 1745	72	55.	*	2 JAN 0000	97	33.									

25yr.out  
 1 JAN 0530 23 0. \* 1 JAN 1145 48 127. \* 1 JAN 1800 73 53. \* 2 JAN 0015 98 27.  
 1 JAN 0545 24 0. \* 1 JAN 1200 49 565. \* 1 JAN 1815 74 52. \* 2 JAN 0030 99 14.  
 1 JAN 0600 25 0. \* 1 JAN 1215 50 961. \* 1 JAN 1830 75 50. \* 2 JAN 0045 100 6.  
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PEAK FLOW      TIME  
 + (CFS)      (HR)  
 +      961.      12.25  
 (CFS)  
 (INCHES)      210.      65.      63.      63.  
 (AC-FT)      1.473      1.816      1.816      1.816  
                  104.      128.      128.      128.  
 CUMULATIVE AREA =      1.32 SQ MI

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 \*  
 73 KK      5R      \*      CNAME      5C  
 \*  
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74 KO      OUTPUT CONTROL VARIABLES  
 IPRNT      0      PRINT CONTROL  
 IPLOT      0      PLOT CONTROL  
 QSCAL      0.      HYDROGRAPH PLOT SCALE  
 IPNCH      0      PUNCH COMPUTED HYDROGRAPH  
 IOUT      22      SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2      100      LAST ORDINATE PUNCHED OR SAVED  
 TIMINT      0.250      TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

75 RM      MUSKINGUM ROUTING  
 NSTPS      1      NUMBER OF SUBREACHES  
 AMSKK      0.12      MUSKINGUM K  
 X      0.20      MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH      5R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION      5R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	897.	*	1	JAN	1845	76	49.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	630.	*	1	JAN	1900	77	48.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	403.	*	1	JAN	1915	78	46.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	283.	*	1	JAN	1930	79	44.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	212.	*	1	JAN	1945	80	43.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	170.	*	1	JAN	2000	81	41.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	143.	*	1	JAN	2015	82	40.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	123.	*	1	JAN	2030	83	38.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	109.	*	1	JAN	2045	84	37.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	99.	*	1	JAN	2100	85	37.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	93.	*	1	JAN	2115	86	36.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	88.	*	1	JAN	2130	87	36.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	83.	*	1	JAN	2145	88	35.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	79.	*	1	JAN	2200	89	35.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	0.	*	1	JAN	1600	65	74.	*	1	JAN	2215	90	35.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	0.	*	1	JAN	1615	66	70.	*	1	JAN	2230	91	34.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	0.	*	1	JAN	1630	67	66.	*	1	JAN	2245	92	34.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	1.	*	1	JAN	1645	68	63.	*	1	JAN	2300	93	34.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	4.	*	1	JAN	1700	69	61.	*	1	JAN	2315	94	34.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	9.	*	1	JAN	1715	70	59.	*	1	JAN	2330	95	33.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	17.	*	1	JAN	1730	71	57.	*	1	JAN	2345	96	33.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	30.	*	1	JAN	1745	72	56.	*	2	JAN	0000	97	33.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	79.	*	1	JAN	1800	73	54.	*	2	JAN	0015	98	30.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	328.	*	1	JAN	1815	74	53.	*	2	JAN	0030	99	21.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	769.	*	1	JAN	1830	75	51.	*	2	JAN	0045	100	10.	*

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PEAK FLOW      TIME  
 + (CFS)      (HR)  
 +      897.      12.50  
 (CFS)  
 (INCHES)      209.      65.      63.      63.  
 (AC-FT)      1.470      1.814      1.814      1.814  
                  104.      128.      128.      128.  
 CUMULATIVE AREA =      1.32 SQ MI

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 \* \*  
 76 KK 4aB \*  
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77 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

80 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

78 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.88 SUBBASIN AREA

PRECIPITATION DATA

79 PB STORM 4.65 BASIN TOTAL PRECIPITATION

81 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

106 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.52 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

107 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.36 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 445. 881. 545. 225. 97. 42. 18. 8. 3.

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HYDROGRAPH AT STATION 4aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.08	499.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.04	0.06	312.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	209.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	152.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	119.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	99.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	85.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	74.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	67.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	63.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	59.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	56.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	53.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	50.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	47.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	45.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	42.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	41.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	40.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	39.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	37.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	36.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.01	35.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	34.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	33.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	32.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.01	31.

25yr.out												
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.01	0.01	30.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	29.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	28.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	27.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	26.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	25.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	24.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	24.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	24.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	23.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	23.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	23.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	23.
1 JAN 1000	41	0.04	0.04	0.00	0.	*	1 JAN 2230	91	0.01	0.00	0.01	23.
1 JAN 1015	42	0.05	0.05	0.00	0.	*	1 JAN 2245	92	0.01	0.00	0.01	22.
1 JAN 1030	43	0.06	0.05	0.00	2.	*	1 JAN 2300	93	0.01	0.00	0.01	22.
1 JAN 1045	44	0.07	0.06	0.00	4.	*	1 JAN 2315	94	0.01	0.00	0.01	22.
1 JAN 1100	45	0.08	0.07	0.01	9.	*	1 JAN 2330	95	0.01	0.00	0.01	22.
1 JAN 1115	46	0.10	0.09	0.01	15.	*	1 JAN 2345	96	0.01	0.00	0.01	22.
1 JAN 1130	47	0.13	0.10	0.02	26.	*	2 JAN 0000	97	0.01	0.00	0.01	22.
1 JAN 1145	48	0.51	0.37	0.14	91.	*	2 JAN 0015	98	0.00	0.00	0.00	17.
1 JAN 1200	49	1.26	0.66	0.60	404.	*	2 JAN 0030	99	0.00	0.00	0.00	9.
1 JAN 1215	50	0.20	0.08	0.12	660.	*	2 JAN 0045	100	0.00	0.00	0.00	4.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.83, TOTAL EXCESS = 1.82

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
660.	12.25	139.	43.	42.	42.	
		(INCHES)	1.475	1.818	1.818	1.818
		(AC-FT)	69.	85.	85.	85.
CUMULATIVE AREA =			0.88 SQ MI			

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 108 KK \* 4bB \*  
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109 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

112 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

110 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

111 PB STORM 4.65 BASIN TOTAL PRECIPITATION

113 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

138 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

139 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.38 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

25yr.out

UNIT HYDROGRAPH  
10 END-OF-PERIOD ORDINATES

263. 575. 405. 170. 78. 35. 16. 7. 3. 0.

HYDROGRAPH AT STATION 4bb

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.08	357.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.04	0.06	224.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	152.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	110.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	85.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	70.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	60.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	52.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	47.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	43.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	41.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	39.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	37.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	35.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	33.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	31.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	29.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	28.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	27.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	27.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	26.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	25.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.01	24.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	23.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	23.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	22.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.01	21.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.01	21.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	20.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	19.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	18.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	18.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	17.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.01	0.00	0.01	17.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.01	0.00	0.01	17.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	16.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	16.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	16.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	16.
1	JAN	0945	40	0.04	0.04	0.00	0.	*	1	JAN	2215	90	0.01	0.00	0.01	16.
1	JAN	1000	41	0.04	0.04	0.00	0.	*	1	JAN	2230	91	0.01	0.00	0.01	16.
1	JAN	1015	42	0.05	0.05	0.00	0.	*	1	JAN	2245	92	0.01	0.00	0.01	15.
1	JAN	1030	43	0.06	0.05	0.00	1.	*	1	JAN	2300	93	0.01	0.00	0.01	15.
1	JAN	1045	44	0.07	0.06	0.00	3.	*	1	JAN	2315	94	0.01	0.00	0.01	15.
1	JAN	1100	45	0.08	0.07	0.01	5.	*	1	JAN	2330	95	0.01	0.00	0.01	15.
1	JAN	1115	46	0.10	0.09	0.01	10.	*	1	JAN	2345	96	0.01	0.00	0.01	15.
1	JAN	1130	47	0.13	0.10	0.02	17.	*	2	JAN	0000	97	0.01	0.00	0.01	15.
1	JAN	1145	48	0.51	0.37	0.14	56.	*	2	JAN	0015	98	0.00	0.00	0.00	12.
1	JAN	1200	49	1.26	0.66	0.60	249.	*	2	JAN	0030	99	0.00	0.00	0.00	7.
1	JAN	1215	50	0.20	0.08	0.12	435.	*	2	JAN	0045	100	0.00	0.00	0.00	3.

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.83, TOTAL EXCESS = 1.82

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(INCHES)	(AC-FT)	(AC-FT)
435.	12.25	95.	1.473	47.	58.
		29.	1.816	58.	58.
		28.	1.816	58.	58.
		28.	1.816	58.	58.

CUMULATIVE AREA = 0.60 SQ MI

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140 KK 4C * CNAME 4R
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141 KO OUTPUT CONTROL VARIABLES
      IPRNT 0 PRINT CONTROL
      IPLOT 0 PLOT CONTROL
      QSCAL 0. HYDROGRAPH PLOT SCALE
      IPNCH 0 PUNCH COMPUTED HYDROGRAPH
      IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
      ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
      ISAV2 100 LAST ORDINATE PUNCHED OR SAVED

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25yr.out  
TIMINT 0.250 TIME INTERVAL IN HOURS

142 HC HYDROGRAPH COMBINATION  
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4C  
SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	1753.	1	JAN	1845	76	104.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	1165.	1	JAN	1900	77	100.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	764.	1	JAN	1915	78	96.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	544.	1	JAN	1930	79	93.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	417.	1	JAN	1945	80	90.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	340.	1	JAN	2000	81	86.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	288.	1	JAN	2015	82	83.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	249.	1	JAN	2030	83	80.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	223.	1	JAN	2045	84	78.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	205.	1	JAN	2100	85	77.
1	JAN	0230	11	0.	1	JAN	0845	36	0.	1	JAN	1500	61	193.	1	JAN	2115	86	76.
1	JAN	0245	12	0.	1	JAN	0900	37	0.	1	JAN	1515	62	183.	1	JAN	2130	87	75.
1	JAN	0300	13	0.	1	JAN	0915	38	0.	1	JAN	1530	63	173.	1	JAN	2145	88	74.
1	JAN	0315	14	0.	1	JAN	0930	39	0.	1	JAN	1545	64	164.	1	JAN	2200	89	74.
1	JAN	0330	15	0.	1	JAN	0945	40	0.	1	JAN	1600	65	154.	1	JAN	2215	90	74.
1	JAN	0345	16	0.	1	JAN	1000	41	0.	1	JAN	1615	66	145.	1	JAN	2230	91	73.
1	JAN	0400	17	0.	1	JAN	1015	42	1.	1	JAN	1630	67	138.	1	JAN	2245	92	72.
1	JAN	0415	18	0.	1	JAN	1030	43	4.	1	JAN	1645	68	132.	1	JAN	2300	93	72.
1	JAN	0430	19	0.	1	JAN	1045	44	11.	1	JAN	1700	69	128.	1	JAN	2315	94	71.
1	JAN	0445	20	0.	1	JAN	1100	45	23.	1	JAN	1715	70	124.	1	JAN	2330	95	70.
1	JAN	0500	21	0.	1	JAN	1115	46	42.	1	JAN	1730	71	121.	1	JAN	2345	96	69.
1	JAN	0515	22	0.	1	JAN	1130	47	73.	1	JAN	1745	72	117.	2	JAN	0000	97	69.
1	JAN	0530	23	0.	1	JAN	1145	48	226.	1	JAN	1800	73	114.	2	JAN	0015	98	59.
1	JAN	0545	24	0.	1	JAN	1200	49	981.	1	JAN	1815	74	110.	2	JAN	0030	99	36.
1	JAN	0600	25	0.	1	JAN	1215	50	1864.	1	JAN	1830	75	107.	2	JAN	0045	100	17.

PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
+ 1864. 12.25 (CFS) 444. 137. 133. 133.  
(INCHES) 1.472 1.816 1.816 1.816  
(AC-FT) 220. 271. 271. 271.  
CUMULATIVE AREA = 2.80 SQ MI

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143 KK \* 4R \* CNAME 4C  
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144 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

145 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.11 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 4R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	1876.	1	JAN	1845	76	105.



		25yr.out												
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	1452.	*	1 JAN 1900	77	102.
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	926.	*	1 JAN 1915	78	98.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	632.	*	1 JAN 1930	79	95.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	469.	*	1 JAN 1945	80	91.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	371.	*	1 JAN 2000	81	88.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	310.	*	1 JAN 2015	82	84.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	266.	*	1 JAN 2030	83	81.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	234.	*	1 JAN 2045	84	79.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	213.	*	1 JAN 2100	85	77.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	198.	*	1 JAN 2115	86	77.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	187.	*	1 JAN 2130	87	76.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	177.	*	1 JAN 2145	88	75.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	168.	*	1 JAN 2200	89	74.
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	158.	*	1 JAN 2215	90	74.
1 JAN 0345	16	0.	*	1 JAN 1000	41	0.	*	1 JAN 1615	66	149.	*	1 JAN 2230	91	73.
1 JAN 0400	17	0.	*	1 JAN 1015	42	0.	*	1 JAN 1630	67	141.	*	1 JAN 2245	92	72.
1 JAN 0415	18	0.	*	1 JAN 1030	43	2.	*	1 JAN 1645	68	134.	*	1 JAN 2300	93	72.
1 JAN 0430	19	0.	*	1 JAN 1045	44	8.	*	1 JAN 1700	69	130.	*	1 JAN 2315	94	71.
1 JAN 0445	20	0.	*	1 JAN 1100	45	17.	*	1 JAN 1715	70	126.	*	1 JAN 2330	95	71.
1 JAN 0500	21	0.	*	1 JAN 1115	46	33.	*	1 JAN 1730	71	122.	*	1 JAN 2345	96	70.
1 JAN 0515	22	0.	*	1 JAN 1130	47	58.	*	1 JAN 1745	72	119.	*	2 JAN 0000	97	69.
1 JAN 0530	23	0.	*	1 JAN 1145	48	148.	*	1 JAN 1800	73	115.	*	2 JAN 0015	98	64.
1 JAN 0545	24	0.	*	1 JAN 1200	49	600.	*	1 JAN 1815	74	112.	*	2 JAN 0030	99	47.
1 JAN 0600	25	0.	*	1 JAN 1215	50	1466.	*	1 JAN 1830	75	108.	*	2 JAN 0045	100	25.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
1876.	12.50	443.	137.	133.	133.
		(INCHES)	1,471	1,814	1,814
		(AC-FT)	220.	271.	271.

CUMULATIVE AREA = 2.80 SQ MI

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 146 KK 3B \*  
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147 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

150 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

148 BA SUBBASIN CHARACTERISTICS  
 TAREA, 1.13 SUBBASIN AREA

PRECIPITATION DATA

149 PB STORM 4.65 BASIN TOTAL PRECIPITATION

151 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

176 LS SCS LOSS RATE  
 STRTL 0.83 INITIAL ABSTRACTION  
 CRVNR 70.75 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

177 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.33 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

25yr.out  
UNIT HYDROGRAPH  
9 END-OF-PERIOD ORDINATES

673. 1194. 626. 255. 105. 43. 17. 8. 1.

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HYDROGRAPH AT STATION 3B  
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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.14	0.05	0.08	614.	*	
1	JAN	0015	2	0.01	0.01	0.00	0.	*	*	1	JAN	1245	52	0.09	0.03	0.06	383.	*	
1	JAN	0030	3	0.01	0.01	0.00	0.	*	*	1	JAN	1300	53	0.08	0.03	0.05	256.	*	
1	JAN	0045	4	0.01	0.01	0.00	0.	*	*	1	JAN	1315	54	0.07	0.02	0.04	187.	*	
1	JAN	0100	5	0.01	0.01	0.00	0.	*	*	1	JAN	1330	55	0.06	0.02	0.04	149.	*	
1	JAN	0115	6	0.01	0.01	0.00	0.	*	*	1	JAN	1345	56	0.05	0.02	0.03	125.	*	
1	JAN	0130	7	0.01	0.01	0.00	0.	*	*	1	JAN	1400	57	0.05	0.02	0.03	107.	*	
1	JAN	0145	8	0.01	0.01	0.00	0.	*	*	1	JAN	1415	58	0.04	0.01	0.03	95.	*	
1	JAN	0200	9	0.01	0.01	0.00	0.	*	*	1	JAN	1430	59	0.04	0.01	0.03	86.	*	
1	JAN	0215	10	0.01	0.01	0.00	0.	*	*	1	JAN	1445	60	0.04	0.01	0.03	81.	*	
1	JAN	0230	11	0.01	0.01	0.00	0.	*	*	1	JAN	1500	61	0.04	0.01	0.02	76.	*	
1	JAN	0245	12	0.01	0.01	0.00	0.	*	*	1	JAN	1515	62	0.03	0.01	0.02	72.	*	
1	JAN	0300	13	0.01	0.01	0.00	0.	*	*	1	JAN	1530	63	0.03	0.01	0.02	69.	*	
1	JAN	0315	14	0.02	0.02	0.00	0.	*	*	1	JAN	1545	64	0.03	0.01	0.02	65.	*	
1	JAN	0330	15	0.02	0.02	0.00	0.	*	*	1	JAN	1600	65	0.03	0.01	0.02	61.	*	
1	JAN	0345	16	0.02	0.02	0.00	0.	*	*	1	JAN	1615	66	0.03	0.01	0.02	57.	*	
1	JAN	0400	17	0.02	0.02	0.00	0.	*	*	1	JAN	1630	67	0.03	0.01	0.02	55.	*	
1	JAN	0415	18	0.02	0.02	0.00	0.	*	*	1	JAN	1645	68	0.02	0.01	0.02	53.	*	
1	JAN	0430	19	0.02	0.02	0.00	0.	*	*	1	JAN	1700	69	0.02	0.01	0.02	51.	*	
1	JAN	0445	20	0.02	0.02	0.00	0.	*	*	1	JAN	1715	70	0.02	0.01	0.02	50.	*	
1	JAN	0500	21	0.02	0.02	0.00	0.	*	*	1	JAN	1730	71	0.02	0.01	0.02	48.	*	
1	JAN	0515	22	0.02	0.02	0.00	0.	*	*	1	JAN	1745	72	0.02	0.01	0.02	47.	*	
1	JAN	0530	23	0.02	0.02	0.00	0.	*	*	1	JAN	1800	73	0.02	0.01	0.01	46.	*	
1	JAN	0545	24	0.02	0.02	0.00	0.	*	*	1	JAN	1815	74	0.02	0.01	0.01	44.	*	
1	JAN	0600	25	0.02	0.02	0.00	0.	*	*	1	JAN	1830	75	0.02	0.01	0.01	43.	*	
1	JAN	0615	26	0.02	0.02	0.00	0.	*	*	1	JAN	1845	76	0.02	0.01	0.01	41.	*	
1	JAN	0630	27	0.02	0.02	0.00	0.	*	*	1	JAN	1900	77	0.02	0.01	0.01	40.	*	
1	JAN	0645	28	0.02	0.02	0.00	0.	*	*	1	JAN	1915	78	0.02	0.01	0.01	38.	*	
1	JAN	0700	29	0.02	0.02	0.00	0.	*	*	1	JAN	1930	79	0.02	0.00	0.01	37.	*	
1	JAN	0715	30	0.02	0.02	0.00	0.	*	*	1	JAN	1945	80	0.02	0.00	0.01	36.	*	
1	JAN	0730	31	0.02	0.02	0.00	0.	*	*	1	JAN	2000	81	0.02	0.00	0.01	34.	*	
1	JAN	0745	32	0.02	0.02	0.00	0.	*	*	1	JAN	2015	82	0.02	0.00	0.01	33.	*	
1	JAN	0800	33	0.03	0.03	0.00	0.	*	*	1	JAN	2030	83	0.01	0.00	0.01	32.	*	
1	JAN	0815	34	0.03	0.03	0.00	0.	*	*	1	JAN	2045	84	0.01	0.00	0.01	31.	*	
1	JAN	0830	35	0.03	0.03	0.00	0.	*	*	1	JAN	2100	85	0.01	0.00	0.01	31.	*	
1	JAN	0845	36	0.03	0.03	0.00	0.	*	*	1	JAN	2115	86	0.01	0.00	0.01	31.	*	
1	JAN	0900	37	0.04	0.04	0.00	0.	*	*	1	JAN	2130	87	0.01	0.00	0.01	30.	*	
1	JAN	0915	38	0.04	0.04	0.00	0.	*	*	1	JAN	2145	88	0.01	0.00	0.01	30.	*	
1	JAN	0930	39	0.04	0.04	0.00	0.	*	*	1	JAN	2200	89	0.01	0.00	0.01	30.	*	
1	JAN	0945	40	0.04	0.04	0.00	0.	*	*	1	JAN	2215	90	0.01	0.00	0.01	30.	*	
1	JAN	1000	41	0.04	0.04	0.00	0.	*	*	1	JAN	2230	91	0.01	0.00	0.01	29.	*	
1	JAN	1015	42	0.05	0.05	0.00	1.	*	*	1	JAN	2245	92	0.01	0.00	0.01	29.	*	
1	JAN	1030	43	0.06	0.05	0.00	3.	*	*	1	JAN	2300	93	0.01	0.00	0.01	29.	*	
1	JAN	1045	44	0.07	0.06	0.00	7.	*	*	1	JAN	2315	94	0.01	0.00	0.01	29.	*	
1	JAN	1100	45	0.08	0.07	0.01	13.	*	*	1	JAN	2330	95	0.01	0.00	0.01	28.	*	
1	JAN	1115	46	0.10	0.08	0.01	22.	*	*	1	JAN	2345	96	0.01	0.00	0.01	28.	*	
1	JAN	1130	47	0.13	0.10	0.02	37.	*	*	2	JAN	0000	97	0.01	0.00	0.01	28.	*	
1	JAN	1145	48	0.51	0.37	0.14	134.	*	*	2	JAN	0015	98	0.00	0.00	0.00	21.	*	
1	JAN	1200	49	1.26	0.66	0.60	594.	*	*	2	JAN	0030	99	0.00	0.00	0.00	10.	*	
1	JAN	1215	50	0.20	0.08	0.12	895.	*	*	2	JAN	0045	100	0.00	0.00	0.00	4.	*	

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.81, TOTAL EXCESS = 1.84

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
895.	12.25	182.	56.	54.	54.	
		(INCHES)	1.491	1.835	1.835	1.835
		(AC-FT)	90.	111.	111.	111.

CUMULATIVE AREA = 1.13 SQ MI

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178 KK \*\*\*\*\*  
\* \* \* \* \*  
\* 3C \* CNAME 3R  
\* \* \* \* \*

179 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

180 HC HYDROGRAPH COMBINATION  
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2490.	*	1	JAN	1845	76	146.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	1835.	*	1	JAN	1900	77	142.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1182.	*	1	JAN	1915	78	136.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	820.	*	1	JAN	1930	79	132.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	618.	*	1	JAN	1945	80	127.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	496.	*	1	JAN	2000	81	122.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	416.	*	1	JAN	2015	82	117.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	360.	*	1	JAN	2030	83	113.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	320.	*	1	JAN	2045	84	110.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	293.	*	1	JAN	2100	85	109.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	275.	*	1	JAN	2115	86	108.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	260.	*	1	JAN	2130	87	106.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	246.	*	1	JAN	2145	88	105.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	233.	*	1	JAN	2200	89	104.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	0.	*	1	JAN	1600	65	219.	*	1	JAN	2215	90	104.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	0.	*	1	JAN	1615	66	207.	*	1	JAN	2230	91	102.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1.	*	1	JAN	1630	67	196.	*	1	JAN	2245	92	101.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	5.	*	1	JAN	1645	68	187.	*	1	JAN	2300	93	101.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	14.	*	1	JAN	1700	69	181.	*	1	JAN	2315	94	100.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	30.	*	1	JAN	1715	70	176.	*	1	JAN	2330	95	99.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	55.	*	1	JAN	1730	71	170.	*	1	JAN	2345	96	98.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	96.	*	1	JAN	1745	72	166.	*	2	JAN	0000	97	97.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	282.	*	1	JAN	1800	73	161.	*	2	JAN	0015	98	85.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1194.	*	1	JAN	1815	74	156.	*	2	JAN	0030	99	57.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	2361.	*	1	JAN	1830	75	151.	*	2	JAN	0045	100	29.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)			
+	2490.	12.50	624.	193.	187.
			1.475	1.820	1.820
			(INCHES)		
			310.	382.	382.
			(AC-FT)		

CUMULATIVE AREA = 3.93 SQ MI

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181 KK 3R \* CNAME 3C  
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182 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

183 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.08 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 3R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2557.	*	1	JAN	1845	76	148.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2094.	*	1	JAN	1900	77	143.	*

25yr.out

1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	1379.	*	1 JAN 1915	78	138.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	912.	*	1 JAN 1930	79	133.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	674.	*	1 JAN 1945	80	129.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	530.	*	1 JAN 2000	81	124.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	440.	*	1 JAN 2015	82	119.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	377.	*	1 JAN 2030	83	114.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	332.	*	1 JAN 2045	84	111.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	301.	*	1 JAN 2100	85	109.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	280.	*	1 JAN 2115	86	108.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	264.	*	1 JAN 2130	87	107.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	250.	*	1 JAN 2145	88	105.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	237.	*	1 JAN 2200	89	104.
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	224.	*	1 JAN 2215	90	104.
1 JAN 0345	16	0.	*	1 JAN 1000	41	0.	*	1 JAN 1615	66	211.	*	1 JAN 2230	91	103.
1 JAN 0400	17	0.	*	1 JAN 1015	42	1.	*	1 JAN 1630	67	199.	*	1 JAN 2245	92	102.
1 JAN 0415	18	0.	*	1 JAN 1030	43	4.	*	1 JAN 1645	68	190.	*	1 JAN 2300	93	101.
1 JAN 0430	19	0.	*	1 JAN 1045	44	11.	*	1 JAN 1700	69	183.	*	1 JAN 2315	94	100.
1 JAN 0445	20	0.	*	1 JAN 1100	45	24.	*	1 JAN 1715	70	177.	*	1 JAN 2330	95	99.
1 JAN 0500	21	0.	*	1 JAN 1115	46	46.	*	1 JAN 1730	71	172.	*	1 JAN 2345	96	98.
1 JAN 0515	22	0.	*	1 JAN 1130	47	81.	*	1 JAN 1745	72	167.	*	2 JAN 0000	97	97.
1 JAN 0530	23	0.	*	1 JAN 1145	48	207.	*	1 JAN 1800	73	162.	*	2 JAN 0015	98	90.
1 JAN 0545	24	0.	*	1 JAN 1200	49	828.	*	1 JAN 1815	74	158.	*	2 JAN 0030	99	68.
1 JAN 0600	25	0.	*	1 JAN 1215	50	1979.	*	1 JAN 1830	75	153.	*	2 JAN 0045	100	38.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
2557.	12.50	(CFS)	624.	192.	187.	187.
		(INCHES)	1.474	1.819	1.819	1.819
		(AC-FT)	309.	382.	382.	382.
CUMULATIVE AREA =			3.93 SQ MI			

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 184 KK \* 2B \*  
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185 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

188 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

186 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.71 SUBBASIN AREA

PRECIPITATION DATA

187 PB STORM 4.65 BASIN TOTAL PRECIPITATION

189 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

214 LS SCS LOSS RATE  
 STRL 0.82 INITIAL ABSTRACTION  
 CRVNR 70.88 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

215 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.24 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH

742. 737. 236. 77. 25. 9. 2.

HYDROGRAPH AT STATION 2B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.08	305.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.03	0.06	184.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	126.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	98.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	81.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	70.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	62.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	56.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	52.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	49.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	47.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	44.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	42.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	39.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	37.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	35.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	34.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	33.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	32.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	31.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	30.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	29.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.01	28.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	27.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	26.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	26.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.01	25.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.01	24.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	23.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	22.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	21.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	20.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	20.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.01	0.00	0.01	20.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.01	0.00	0.01	20.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	19.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	19.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	19.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	19.
1	JAN	0945	40	0.04	0.04	0.00	0.	*	1	JAN	2215	90	0.01	0.00	0.01	19.
1	JAN	1000	41	0.04	0.04	0.00	0.	*	1	JAN	2230	91	0.01	0.00	0.01	18.
1	JAN	1015	42	0.05	0.05	0.00	1.	*	1	JAN	2245	92	0.01	0.00	0.01	18.
1	JAN	1030	43	0.06	0.05	0.00	3.	*	1	JAN	2300	93	0.01	0.00	0.01	18.
1	JAN	1045	44	0.07	0.06	0.00	6.	*	1	JAN	2315	94	0.01	0.00	0.01	18.
1	JAN	1100	45	0.08	0.07	0.01	10.	*	1	JAN	2330	95	0.01	0.00	0.01	18.
1	JAN	1115	46	0.10	0.08	0.01	17.	*	1	JAN	2345	96	0.01	0.00	0.01	18.
1	JAN	1130	47	0.13	0.10	0.02	29.	*	2	JAN	0000	97	0.01	0.00	0.01	17.
1	JAN	1145	48	0.51	0.37	0.14	128.	*	2	JAN	0015	98	0.00	0.00	0.00	10.
1	JAN	1200	49	1.26	0.65	0.61	562.	*	2	JAN	0030	99	0.00	0.00	0.00	3.
1	JAN	1215	50	0.20	0.08	0.12	571.	*	2	JAN	0045	100	0.00	0.00	0.00	1.

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.80, TOTAL EXCESS = 1.85

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
571.	12.25	114.	35.	34.	34.	34.
		(INCHES)	1.501	1.846	1.846	1.846
		(AC-FT)	57.	70.	70.	70.

CUMULATIVE AREA = 0.71 SQ MI

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216 KK \* 2C \* CNAME 2R  
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217 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

218 HC HYDROGRAPH COMBINATION ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2C  
SUM OF 2 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 columns for two hydrographs. Rows list data for various dates in January from 0000 to 0600.

Summary statistics table with columns: PEAK FLOW (CFS), TIME (HR), MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR), and CUMULATIVE AREA (SQ MI).

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219 KK \*\*\*\*\*  
\* \*  
\* 2R \* CNAME 2C  
\* \*  
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220 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

221 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.12 MUSKINGUM K  
X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 2R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 columns for two hydrographs. Rows list data for various dates in January from 0000 to 0030.

25yr.out														
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1227.	*	1 JAN 1930	79	159.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	863.	*	1 JAN 1945	80	153.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	669.	*	1 JAN 2000	81	148.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	546.	*	1 JAN 2015	82	142.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	464.	*	1 JAN 2030	83	136.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	406.	*	1 JAN 2045	84	132.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	365.	*	1 JAN 2100	85	129.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	337.	*	1 JAN 2115	86	128.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	317.	*	1 JAN 2130	87	126.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	300.	*	1 JAN 2145	88	125.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	284.	*	1 JAN 2200	89	124.
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	268.	*	1 JAN 2215	90	123.
1 JAN 0345	16	0.	*	1 JAN 1000	41	0.	*	1 JAN 1615	66	253.	*	1 JAN 2230	91	122.
1 JAN 0400	17	0.	*	1 JAN 1015	42	1.	*	1 JAN 1630	67	239.	*	1 JAN 2245	92	120.
1 JAN 0415	18	0.	*	1 JAN 1030	43	4.	*	1 JAN 1645	68	227.	*	1 JAN 2300	93	119.
1 JAN 0430	19	0.	*	1 JAN 1045	44	11.	*	1 JAN 1700	69	218.	*	1 JAN 2315	94	119.
1 JAN 0445	20	0.	*	1 JAN 1100	45	26.	*	1 JAN 1715	70	211.	*	1 JAN 2330	95	117.
1 JAN 0500	21	0.	*	1 JAN 1115	46	49.	*	1 JAN 1730	71	205.	*	1 JAN 2345	96	116.
1 JAN 0515	22	0.	*	1 JAN 1130	47	87.	*	1 JAN 1745	72	199.	*	2 JAN 0000	97	115.
1 JAN 0530	23	0.	*	1 JAN 1145	48	217.	*	1 JAN 1800	73	193.	*	2 JAN 0015	98	108.
1 JAN 0545	24	0.	*	1 JAN 1200	49	836.	*	1 JAN 1815	74	187.	*	2 JAN 0030	99	86.
1 JAN 0600	25	0.	*	1 JAN 1215	50	1998.	*	1 JAN 1830	75	182.	*	2 JAN 0045	100	54.

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PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
2768.	12.50	737.	227.	220.	220.
		(INCHES)	1.476	1.821	1.821
		(AC-FT)	366.	451.	451.
CUMULATIVE AREA =		4.64 SQ MI			

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 222 KK 1B \*  
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223 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

226 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

224 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

225 PB STORM 4.65 BASIN TOTAL PRECIPITATION

227 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

252 LS SCS LOSS RATE  
 STRTL 0.81 INITIAL ABSTRACTION  
 CRVNR 71.15 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

253 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.28 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES

592. 779. 308. 114. 42. 25yr.out 15. 6. 0.

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HYDROGRAPH AT STATION 1B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.14	0.05	0.08	350.	*
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.09	0.03	0.06	214.	*
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.08	0.03	0.05	144.	*
1	JAN	0045	4	0.01	0.01	0.00	0.	*		1	JAN	1315	54	0.07	0.02	0.04	108.	*
1	JAN	0100	5	0.01	0.01	0.00	0.	*		1	JAN	1330	55	0.06	0.02	0.04	88.	*
1	JAN	0115	6	0.01	0.01	0.00	0.	*		1	JAN	1345	56	0.05	0.02	0.03	74.	*
1	JAN	0130	7	0.01	0.01	0.00	0.	*		1	JAN	1400	57	0.05	0.02	0.03	65.	*
1	JAN	0145	8	0.01	0.01	0.00	0.	*		1	JAN	1415	58	0.04	0.01	0.03	59.	*
1	JAN	0200	9	0.01	0.01	0.00	0.	*		1	JAN	1430	59	0.04	0.01	0.03	54.	*
1	JAN	0215	10	0.01	0.01	0.00	0.	*		1	JAN	1445	60	0.04	0.01	0.03	51.	*
1	JAN	0230	11	0.01	0.01	0.00	0.	*		1	JAN	1500	61	0.04	0.01	0.02	48.	*
1	JAN	0245	12	0.01	0.01	0.00	0.	*		1	JAN	1515	62	0.03	0.01	0.02	46.	*
1	JAN	0300	13	0.01	0.01	0.00	0.	*		1	JAN	1530	63	0.03	0.01	0.02	43.	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.03	0.01	0.02	41.	*
1	JAN	0330	15	0.02	0.02	0.00	0.	*		1	JAN	1600	65	0.03	0.01	0.02	38.	*
1	JAN	0345	16	0.02	0.02	0.00	0.	*		1	JAN	1615	66	0.03	0.01	0.02	36.	*
1	JAN	0400	17	0.02	0.02	0.00	0.	*		1	JAN	1630	67	0.03	0.01	0.02	35.	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.02	0.01	0.02	34.	*
1	JAN	0430	19	0.02	0.02	0.00	0.	*		1	JAN	1700	69	0.02	0.01	0.02	33.	*
1	JAN	0445	20	0.02	0.02	0.00	0.	*		1	JAN	1715	70	0.02	0.01	0.02	32.	*
1	JAN	0500	21	0.02	0.02	0.00	0.	*		1	JAN	1730	71	0.02	0.01	0.02	31.	*
1	JAN	0515	22	0.02	0.02	0.00	0.	*		1	JAN	1745	72	0.02	0.01	0.02	30.	*
1	JAN	0530	23	0.02	0.02	0.00	0.	*		1	JAN	1800	73	0.02	0.01	0.01	29.	*
1	JAN	0545	24	0.02	0.02	0.00	0.	*		1	JAN	1815	74	0.02	0.01	0.01	28.	*
1	JAN	0600	25	0.02	0.02	0.00	0.	*		1	JAN	1830	75	0.02	0.01	0.01	27.	*
1	JAN	0615	26	0.02	0.02	0.00	0.	*		1	JAN	1845	76	0.02	0.01	0.01	26.	*
1	JAN	0630	27	0.02	0.02	0.00	0.	*		1	JAN	1900	77	0.02	0.01	0.01	25.	*
1	JAN	0645	28	0.02	0.02	0.00	0.	*		1	JAN	1915	78	0.02	0.01	0.01	24.	*
1	JAN	0700	29	0.02	0.02	0.00	0.	*		1	JAN	1930	79	0.02	0.00	0.01	24.	*
1	JAN	0715	30	0.02	0.02	0.00	0.	*		1	JAN	1945	80	0.02	0.00	0.01	23.	*
1	JAN	0730	31	0.02	0.02	0.00	0.	*		1	JAN	2000	81	0.02	0.00	0.01	22.	*
1	JAN	0745	32	0.02	0.02	0.00	0.	*		1	JAN	2015	82	0.02	0.00	0.01	21.	*
1	JAN	0800	33	0.03	0.03	0.00	0.	*		1	JAN	2030	83	0.01	0.00	0.01	20.	*
1	JAN	0815	34	0.03	0.03	0.00	0.	*		1	JAN	2045	84	0.01	0.00	0.01	20.	*
1	JAN	0830	35	0.03	0.03	0.00	0.	*		1	JAN	2100	85	0.01	0.00	0.01	20.	*
1	JAN	0845	36	0.03	0.03	0.00	0.	*		1	JAN	2115	86	0.01	0.00	0.01	20.	*
1	JAN	0900	37	0.04	0.04	0.00	0.	*		1	JAN	2130	87	0.01	0.00	0.01	19.	*
1	JAN	0915	38	0.04	0.04	0.00	0.	*		1	JAN	2145	88	0.01	0.00	0.01	19.	*
1	JAN	0930	39	0.04	0.04	0.00	0.	*		1	JAN	2200	89	0.01	0.00	0.01	19.	*
1	JAN	0945	40	0.04	0.04	0.00	0.	*		1	JAN	2215	90	0.01	0.00	0.01	19.	*
1	JAN	1000	41	0.04	0.04	0.00	0.	*		1	JAN	2230	91	0.01	0.00	0.01	19.	*
1	JAN	1015	42	0.05	0.05	0.00	1.	*		1	JAN	2245	92	0.01	0.00	0.01	19.	*
1	JAN	1030	43	0.06	0.05	0.00	3.	*		1	JAN	2300	93	0.01	0.00	0.01	19.	*
1	JAN	1045	44	0.07	0.06	0.01	6.	*		1	JAN	2315	94	0.01	0.00	0.01	18.	*
1	JAN	1100	45	0.08	0.07	0.01	10.	*		1	JAN	2330	95	0.01	0.00	0.01	18.	*
1	JAN	1115	46	0.10	0.08	0.01	17.	*		1	JAN	2345	96	0.01	0.00	0.01	18.	*
1	JAN	1130	47	0.13	0.10	0.02	28.	*		2	JAN	0000	97	0.01	0.00	0.01	18.	*
1	JAN	1145	48	0.51	0.36	0.15	111.	*		2	JAN	0015	98	0.00	0.00	0.00	12.	*
1	JAN	1200	49	1.26	0.64	0.61	487.	*		2	JAN	0030	99	0.00	0.00	0.00	5.	*
1	JAN	1215	50	0.20	0.08	0.12	597.	*		2	JAN	0045	100	0.00	0.00	0.00	2.	*

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.78, TOTAL EXCESS = 1.87

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
+	597.	12.25	117.	36.	35.	35.
		(INCHES)	1.517	1.866	1.866	1.866
		(AC-FT)	58.	72.	72.	72.

CUMULATIVE AREA = 0.72 SQ MI

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*****
*      *
254 KK *      1C *      CNAME      1C
*      *
*****

255 KO  OUTPUT CONTROL VARIABLES
        IPRINT      0  PRINT CONTROL
        IPLOT       0  PLOT CONTROL
        QSCAL       0. HYDROGRAPH PLOT SCALE
        IPNCH       0  PUNCH COMPUTED HYDROGRAPH
        IOUT        22 SAVE HYDROGRAPH ON THIS UNIT
        ISAV1       1  FIRST ORDINATE PUNCHED OR SAVED
        ISAV2      100 LAST ORDINATE PUNCHED OR SAVED
        TIMINT      0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH AT STATION 1C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3118.	*	1	JAN	1845	76	202.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2820.	*	1	JAN	1900	77	196.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2022.	*	1	JAN	1915	78	189.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1335.	*	1	JAN	1930	79	183.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	952.	*	1	JAN	1945	80	176.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	744.	*	1	JAN	2000	81	169.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	611.	*	1	JAN	2015	82	163.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	523.	*	1	JAN	2030	83	157.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	460.	*	1	JAN	2045	84	152.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	416.	*	1	JAN	2100	85	149.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	386.	*	1	JAN	2115	86	147.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	363.	*	1	JAN	2130	87	146.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	343.	*	1	JAN	2145	88	144.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	325.	*	1	JAN	2200	89	143.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	0.	*	1	JAN	1600	65	307.	*	1	JAN	2215	90	142.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	0.	*	1	JAN	1615	66	289.	*	1	JAN	2230	91	141.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	2.	*	1	JAN	1630	67	273.	*	1	JAN	2245	92	139.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	7.	*	1	JAN	1645	68	260.	*	1	JAN	2300	93	138.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	17.	*	1	JAN	1700	69	251.	*	1	JAN	2315	94	137.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	36.	*	1	JAN	1715	70	243.	*	1	JAN	2330	95	135.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	66.	*	1	JAN	1730	71	236.	*	1	JAN	2345	96	134.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	116.	*	1	JAN	1745	72	229.	*	2	JAN	0000	97	133.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	328.	*	1	JAN	1800	73	222.	*	2	JAN	0015	98	120.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1323.	*	1	JAN	1815	74	215.	*	2	JAN	0030	99	91.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	2595.	*	1	JAN	1830	75	209.	*	2	JAN	0045	100	56.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
3118.	12.50	853.	263.	255.	255.
		(INCHES)	1,479	1,827	1,827
		(AC-FT)	423.	523.	523.
CUMULATIVE AREA =		5.36 SQ MI			

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 \* \*  
 257 KK 1C \* CNAME 1C  
 \* \*  
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258 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

259 RN NO ROUTING

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HYDROGRAPH AT STATION 1C

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3118.	*	1	JAN	1845	76	202.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2820.	*	1	JAN	1900	77	196.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2022.	*	1	JAN	1915	78	189.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1335.	*	1	JAN	1930	79	183.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	952.	*	1	JAN	1945	80	176.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	744.	*	1	JAN	2000	81	169.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	611.	*	1	JAN	2015	82	163.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	523.	*	1	JAN	2030	83	157.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	460.	*	1	JAN	2045	84	152.	*

						25yr.out								
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	416.	*	1 JAN 2100	85	149.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	386.	*	1 JAN 2115	86	147.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	363.	*	1 JAN 2130	87	146.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	343.	*	1 JAN 2145	88	144.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	325.	*	1 JAN 2200	89	143.
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	307.	*	1 JAN 2215	90	142.
1 JAN 0345	16	0.	*	1 JAN 1000	41	0.	*	1 JAN 1615	66	289.	*	1 JAN 2230	91	141.
1 JAN 0400	17	0.	*	1 JAN 1015	42	2.	*	1 JAN 1630	67	273.	*	1 JAN 2245	92	139.
1 JAN 0415	18	0.	*	1 JAN 1030	43	7.	*	1 JAN 1645	68	260.	*	1 JAN 2300	93	138.
1 JAN 0430	19	0.	*	1 JAN 1045	44	17.	*	1 JAN 1700	69	251.	*	1 JAN 2315	94	137.
1 JAN 0445	20	0.	*	1 JAN 1100	45	36.	*	1 JAN 1715	70	243.	*	1 JAN 2330	95	135.
1 JAN 0500	21	0.	*	1 JAN 1115	46	66.	*	1 JAN 1730	71	236.	*	1 JAN 2345	96	134.
1 JAN 0515	22	0.	*	1 JAN 1130	47	116.	*	1 JAN 1745	72	229.	*	2 JAN 0000	97	133.
1 JAN 0530	23	0.	*	1 JAN 1145	48	328.	*	1 JAN 1800	73	222.	*	2 JAN 0015	98	120.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1323.	*	1 JAN 1815	74	215.	*	2 JAN 0030	99	91.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2595.	*	1 JAN 1830	75	209.	*	2 JAN 0045	100	56.

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PEAK FLOW (CFS)	TIME (HR)	(CFS)	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.75-HR
3118.	12.50		853.	263.	255.	255.
		(INCHES)	1.479	1.827	1.827	1.827
		(AC-FT)	423.	523.	523.	523.

CUMULATIVE AREA = 5.36 SQ MI

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
+									
+	HYDROGRAPH AT								
+	5bB	497.	12.25	114.	35.	34.	0.72		
+	HYDROGRAPH AT								
+	5aB	464.	12.25	96.	29.	29.	0.60		
+	2 COMBINED AT								
+	5C	961.	12.25	210.	65.	63.	1.32		
+	ROUTED TO								
+	5R	897.	12.50	209.	65.	63.	1.32		
+	HYDROGRAPH AT								
+	4aB	660.	12.25	139.	43.	42.	0.88		
+	HYDROGRAPH AT								
+	4bB	435.	12.25	95.	29.	28.	0.60		
+	3 COMBINED AT								
+	4C	1864.	12.25	444.	137.	133.	2.80		
+	ROUTED TO								
+	4R	1876.	12.50	443.	137.	133.	2.80		
+	HYDROGRAPH AT								
+	3B	895.	12.25	182.	56.	54.	1.13		
+	2 COMBINED AT								
+	3C	2490.	12.50	624.	193.	187.	3.93		
+	ROUTED TO								
+	3R	2557.	12.50	624.	192.	187.	3.93		
+	HYDROGRAPH AT								
+	2B	571.	12.25	114.	35.	34.	0.71		
+	2 COMBINED AT								
+	2C	2861.	12.50	737.	228.	221.	4.64		
+	ROUTED TO								
+	2R	2768.	12.50	737.	227.	220.	4.64		
+	HYDROGRAPH AT								
+	1B	597.	12.25	117.	36.	35.	0.72		
+	2 COMBINED AT								
+	1C	3118.	12.50	853.	263.	255.	5.36		
+	ROUTED TO								
+	1C	3118.	12.50	853.	263.	255.	5.36		

\*\*\* NORMAL END OF HEC-1 \*\*\*

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1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
*****

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*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1G5, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	Seng Creek									
2	ID	w Reclaimed Mining & wo Logging (Scenario 3), LIDAR Data									
3	ID	100 yr Storm									
4	IT	15	1JAN94	0	100						
5	IO	0									
6	KK	5bB									
7	KO	0	0	0.0	1	22					
8	BA	0.7209									
9	PB	5.45									
10	IN	6	1JAN94	0							
	* typeII-24hour										
11	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
12	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
13	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
14	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
15	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
16	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
17	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
18	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
19	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
20	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
21	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
22	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
23	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
24	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
25	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
26	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
27	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
28	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
29	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
30	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
31	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
32	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
33	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
34	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
35	PC	1.0									
36	LS	0.0	70.5	0.0							
37	UD	0.4104									
38	KK	5aB									
39	KO	0	0	0.0	1	22					
40	BA	0.6039									
41	PB	5.45									
42	IN	6	1JAN94	0							
	* typeII-24hour										
43	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
44	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
45	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
46	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
47	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
48	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
49	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
50	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
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100yr.out											
51	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
52	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
53	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
54	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
55	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
56	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
57	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
58	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
59	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
60	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
61	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
62	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
63	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
64	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
65	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
66	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
67	PC	1.0									
68	LS	0.0	70.5	0.0							
69	UD	0.344									
70	KK	5C	CNAME	5R							
71	KO	0	0	0.0	0	22					
72	HC	2									
73	KK	5R	CNAME	5C							
74	KO	0	0	0.0	0	22					
75	RM	1	0.124	0.2							
76	KK	4aB									
77	KO	0	0	0.0	1	22					
78	BA	0.8767									
79	PB	5.45									
80	IN	6	1JAN94	0							
		* typeII-24hour									
81	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
82	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
83	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
84	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
85	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
86	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
87	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
88	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
89	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
90	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
91	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
92	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
93	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
94	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
95	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
96	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
97	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
98	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
99	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
100	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
101	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635

HEC-1 INPUT

PAGE 3

LINE	ID	1	2	3	4	5	6	7	8	9	10
102	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
103	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
104	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
105	PC	1.0									
106	LS	0.0	70.52	0.0							
107	UD	0.358									
108	KK	4bB									
109	KO	0	0	0.0	1	22					
110	BA	0.6014									
111	PB	5.45									
112	IN	6	1JAN94	0							
		* typeII-24hour									
113	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
114	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
115	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
116	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
117	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
118	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
119	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
120	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
121	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
122	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
123	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
124	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
125	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
126	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
127	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
128	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
129	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
130	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
131	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
132	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
133	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
134	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
135	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
136	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
137	PC	1.0									

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138      LS      0.0   70.5   0.0
139      UD      0.383

140      KK      4C   CNAME   4R
141      KO      0     0     0.0   0     22
142      HC      3

143      KK      4R   CNAME   4C
144      KO      0     0     0.0   0     22
145      RM      1   0.112   0.2

146      KK      3B
147      KO      0     0     0.0   1     22
148      BA      1.1321
149      PB      5.45
150      IN      6   1JAN94   0
* typeII-24hour

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HEC-1 INPUT

PAGE 4

LINE	ID	1	2	3	4	5	6	7	8	9	10
151	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
152	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
153	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
154	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
155	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
156	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
157	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
158	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
159	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
160	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
161	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
162	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
163	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
164	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
165	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
166	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
167	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
168	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
169	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
170	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
171	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
172	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
173	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
174	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
175	PC	1.0									
176	LS	0.0	70.75	0.0							
177	UD	0.3323									
178	KK	3C	CNAME	3R							
179	KO	0	0	0.0	0	22					
180	HC	2									
181	KK	3R	CNAME	3C							
182	KO	0	0	0.0	0	22					
183	RM	1	0.081	0.2							
184	KK	2B									
185	KO	0	0	0.0	1	22					
186	BA	0.7082									
187	PB	5.45									
188	IN	6	1JAN94	0							
189	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
190	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
191	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
192	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
193	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
194	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
195	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
196	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
197	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
198	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
199	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
200	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
201	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656

HEC-1 INPUT

PAGE 5

LINE	ID	1	2	3	4	5	6	7	8	9	10
202	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
203	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
204	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
205	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
206	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
207	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
208	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
209	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
210	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
211	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
212	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
213	PC	1.0									
214	LS	0.0	70.88	0.0							
215	UD	0.2379									
216	KK	2C	CNAME	2R							

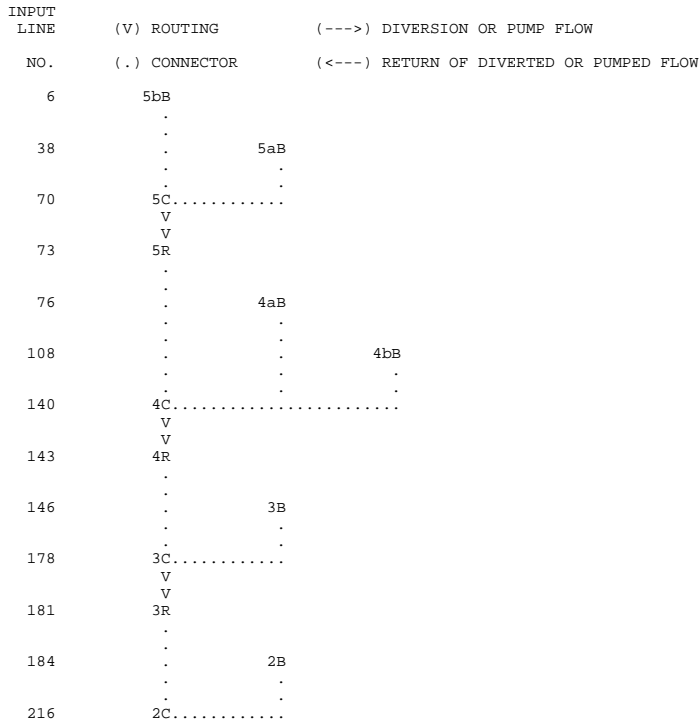
LINE	CODE	VALUE	UNIT	DATE	TIME	100yr.out
217	KO	0		0.0	0	
218	HC	2				22
219	KK	2R	CNAME	2C		
220	KO	0		0.0	0	22
221	RM	1	0.119	0.2		
222	KK	1B				
223	KO	0		0.0	1	22
224	BA	0.7193				
225	PB	5.45				
226	IN	6	1JAN94	0		
* typeII-24hour						
227	PC	0.0	0.001	0.002	0.0031	0.0041
228	PC	0.0105	0.0116	0.0127	0.0138	0.015
229	PC	0.022	0.0232	0.0244	0.0256	0.0269
230	PC	0.0345	0.0358	0.0371	0.0384	0.0398
231	PC	0.048	0.0494	0.0508	0.0523	0.0538
232	PC	0.063	0.0646	0.0662	0.0679	0.0696
233	PC	0.08	0.0818	0.0836	0.0855	0.0874
234	PC	0.099	0.101	0.103	0.1051	0.1072
235	PC	0.12	0.1223	0.1246	0.1271	0.1296
236	PC	0.147	0.1502	0.1534	0.1566	0.1598
237	PC	0.181	0.1851	0.1895	0.1941	0.1989
238	PC	0.235	0.2427	0.2513	0.2609	0.2715
239	PC	0.663	0.682	0.6986	0.713	0.7252
240	PC	0.772	0.778	0.7836	0.789	0.7942
241	PC	0.82	0.8237	0.8273	0.8308	0.8342
242	PC	0.8535	0.8565	0.8594	0.8622	0.8649
243	PC	0.88	0.8823	0.8845	0.8868	0.889
244	PC	0.9018	0.9038	0.9058	0.9078	0.9097
245	PC	0.921	0.9228	0.9245	0.9263	0.928
246	PC	0.9377	0.9393	0.9408	0.9423	0.9437
247	PC	0.952	0.9533	0.9546	0.9559	0.9572
248	PC	0.9648	0.966	0.9672	0.9685	0.9697
249	PC	0.977	0.9782	0.9794	0.9806	0.9818
250	PC	0.9888	0.9899	0.991	0.9922	0.9933
251	PC	1.0				
252	LS	0.0	71.15	0.0		

HEC-1 INPUT

PAGE 6

LINE	ID	1	2	3	4	5	6	7	8	9	10
253	UD	0.2797									
254	KK	1C	CNAME	1C							
255	KO	0	0	0.0	0	0	22				
256	HC	2									
257	KK	1C	CNAME	1C							
258	KO	0	0	0.0	0	0	22				
259	RN	1C									
260	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK



219 V  
V  
2R  
. .  
222 . 1B  
. .  
254 1C.....  
V  
V  
257 1C

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1\*\*\*\*\*  
\*  
\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*  
\* MAY 1991 \*  
\* VERSION 4.0.1E \*  
\* RUN DATE TIME \*  
\*  
\*\*\*\*\*

\*\*\*\*\*  
\*  
\* U.S. ARMY CORPS OF ENGINEERS \*  
\* HYDROLOGIC ENGINEERING CENTER \*  
\* 609 SECOND STREET \*  
\* DAVIS, CALIFORNIA 95616 \*  
\* (916) 551-1748 \*  
\*  
\*\*\*\*\*

Seng Creek  
w Reclaimed Mining & wo Logging (Scenario 3), LIDAR Data  
100 yr Storm

5 IO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
  
IT HYDROGRAPH TIME DATA  
NMIN 15 MINUTES IN COMPUTATION INTERVAL  
IDATE 1JAN94 STARTING DATE  
ITIME 0000 STARTING TIME  
NQ, 100 NUMBER OF HYDROGRAPH ORDINATES  
NDDATE 2JAN94 ENDING DATE  
NDTIME 0045 ENDING TIME  
ICENT 19 CENTURY MARK  
  
COMPUTATION INTERVAL 0.25 HOURS  
TOTAL TIME BASE 24.75 HOURS

ENGLISH UNITS  
DRAINAGE AREA SQUARE MILES  
PRECIPITATION DEPTH INCHES  
LENGTH, ELEVATION FEET  
FLOW CUBIC FEET PER SECOND  
STORAGE VOLUME ACRE-FEET  
SURFACE AREA ACRES  
TEMPERATURE DEGREES FAHRENHEIT

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6 KK \* 5bB \*  
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7 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

10 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

8 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.72 SUBBASIN AREA

PRECIPITATION DATA

9 PB STORM 5.45 BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01

0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

36 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

37 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.41 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES  
 273. 649. 509. 228. 109. 50. 24. 11. 6. 2.

HYDROGRAPH AT STATION 5bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	587.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.07	374.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.06	253.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.05	180.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	138.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	112.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.04	95.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	82.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	73.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	67.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	63.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	59.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	56.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	53.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	50.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	47.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	45.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	43.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	41.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	40.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	39.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	38.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	37.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	36.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	34.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	33.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.02	32.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.02	31.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	30.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	29.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	28.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	27.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	26.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	25.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	25.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	25.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.02	0.00	0.01	24.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.02	0.00	0.01	24.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.02	0.00	0.01	24.
1	JAN	0945	40	0.05	0.04	0.00	1.	*	1	JAN	2215	90	0.02	0.00	0.01	24.
1	JAN	1000	41	0.05	0.05	0.00	2.	*	1	JAN	2230	91	0.02	0.00	0.01	23.
1	JAN	1015	42	0.06	0.05	0.00	4.	*	1	JAN	2245	92	0.02	0.00	0.01	23.
1	JAN	1030	43	0.07	0.06	0.01	7.	*	1	JAN	2300	93	0.02	0.00	0.01	23.
1	JAN	1045	44	0.08	0.07	0.01	11.	*	1	JAN	2315	94	0.02	0.00	0.01	23.
1	JAN	1100	45	0.09	0.08	0.02	16.	*	1	JAN	2330	95	0.02	0.00	0.01	22.
1	JAN	1115	46	0.11	0.09	0.02	24.	*	1	JAN	2345	96	0.02	0.00	0.01	22.
1	JAN	1130	47	0.15	0.11	0.04	36.	*	2	JAN	0000	97	0.01	0.00	0.01	22.
1	JAN	1145	48	0.60	0.39	0.21	97.	*	2	JAN	0015	98	0.00	0.00	0.00	19.
1	JAN	1200	49	1.47	0.68	0.80	378.	*	2	JAN	0030	99	0.00	0.00	0.00	11.
1	JAN	1215	50	0.23	0.08	0.15	677.	*	2	JAN	0045	100	0.00	0.00	0.00	5.

TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.03, TOTAL EXCESS = 2.42

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(CFS)	(CFS)	(CFS)
677.	12.25	152.	47.	45.	45.
		(INCHES)	1.961	2.415	2.415
		(AC-FT)	75.	93.	93.

CUMULATIVE AREA = 0.72 SQ MI



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 38 KK \* 5aB \*  
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39 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

42 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

40 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

41 PB STORM 5.45 BASIN TOTAL PRECIPITATION

43 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

68 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

69 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.34 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 334. 624. 352. 145. 61. 25. 11. 5. 1.

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HYDROGRAPH AT STATION 5aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	445.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.07	275.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.06	182.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.05	131.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	103.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	86.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.04	73.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	64.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	58.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	55.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	52.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	49.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	46.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	44.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	41.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	39.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	37.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	35.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	34.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	33.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	32.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	31.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	30.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	29.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	29.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	28.

100yr.out												
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.01	0.02	27.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.01	0.02	26.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	25.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	24.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	23.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	22.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	21.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	21.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	21.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	21.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	20.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.02	0.00	0.01	20.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.02	0.00	0.01	20.
1 JAN 0945	40	0.05	0.04	0.00	1.	*	1 JAN 2215	90	0.02	0.00	0.01	20.
1 JAN 1000	41	0.05	0.05	0.00	2.	*	1 JAN 2230	91	0.02	0.00	0.01	20.
1 JAN 1015	42	0.06	0.05	0.00	4.	*	1 JAN 2245	92	0.02	0.00	0.01	19.
1 JAN 1030	43	0.07	0.06	0.01	7.	*	1 JAN 2300	93	0.02	0.00	0.01	19.
1 JAN 1045	44	0.08	0.07	0.01	10.	*	1 JAN 2315	94	0.02	0.00	0.01	19.
1 JAN 1100	45	0.09	0.08	0.02	15.	*	1 JAN 2330	95	0.02	0.00	0.01	19.
1 JAN 1115	46	0.11	0.09	0.02	22.	*	1 JAN 2345	96	0.02	0.00	0.01	19.
1 JAN 1130	47	0.15	0.11	0.04	34.	*	2 JAN 0000	97	0.01	0.00	0.01	18.
1 JAN 1145	48	0.60	0.39	0.21	103.	*	2 JAN 0015	98	0.00	0.00	0.00	14.
1 JAN 1200	49	1.47	0.68	0.80	414.	*	2 JAN 0030	99	0.00	0.00	0.00	7.
1 JAN 1215	50	0.23	0.08	0.15	629.	*	2 JAN 0045	100	0.00	0.00	0.00	3.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.03, TOTAL EXCESS = 2.42

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
629.	12.25	128.	39.	38.	38.
		(INCHES)	1,963	2,417	2,417
		(AC-FT)	63.	78.	78.

CUMULATIVE AREA = 0.60 SQ MI

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 70 KK 5C \* CNAME 5R  
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71 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

72 HC HYDROGRAPH COMBINATION  
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 5C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	1031.	*	1 JAN 1845	76	61.									
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	649.	*	1 JAN 1900	77	59.									
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	435.	*	1 JAN 1915	78	57.									
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	312.	*	1 JAN 1930	79	55.									
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	242.	*	1 JAN 1945	80	53.									
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	198.	*	1 JAN 2000	81	51.									
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	168.	*	1 JAN 2015	82	49.									
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	146.	*	1 JAN 2030	83	47.									
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	131.	*	1 JAN 2045	84	46.									
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	122.	*	1 JAN 2100	85	46.									
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	114.	*	1 JAN 2115	86	45.									
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	108.	*	1 JAN 2130	87	44.									
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	102.	*	1 JAN 2145	88	44.									
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	97.	*	1 JAN 2200	89	44.									
1 JAN 0330	15	0.	*	1 JAN 0945	40	2.	*	1 JAN 1600	65	91.	*	1 JAN 2215	90	43.									
1 JAN 0345	16	0.	*	1 JAN 1000	41	4.	*	1 JAN 1615	66	86.	*	1 JAN 2230	91	43.									
1 JAN 0400	17	0.	*	1 JAN 1015	42	8.	*	1 JAN 1630	67	81.	*	1 JAN 2245	92	42.									
1 JAN 0415	18	0.	*	1 JAN 1030	43	14.	*	1 JAN 1645	68	78.	*	1 JAN 2300	93	42.									
1 JAN 0430	19	0.	*	1 JAN 1045	44	21.	*	1 JAN 1700	69	76.	*	1 JAN 2315	94	42.									
1 JAN 0445	20	0.	*	1 JAN 1100	45	31.	*	1 JAN 1715	70	74.	*	1 JAN 2330	95	41.									
1 JAN 0500	21	0.	*	1 JAN 1115	46	46.	*	1 JAN 1730	71	71.	*	1 JAN 2345	96	41.									
1 JAN 0515	22	0.	*	1 JAN 1130	47	70.	*	1 JAN 1745	72	69.	*	2 JAN 0000	97	41.									

100yr.out  
 1 JAN 0530 23 0. \* 1 JAN 1145 48 200. \* 1 JAN 1800 73 67. \* 2 JAN 0015 98 33.  
 1 JAN 0545 24 0. \* 1 JAN 1200 49 792. \* 1 JAN 1815 74 65. \* 2 JAN 0030 99 18.  
 1 JAN 0600 25 0. \* 1 JAN 1215 50 1306. \* 1 JAN 1830 75 63. \* 2 JAN 0045 100 8.  
 \*

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*****
PEAK FLOW      TIME
+ (CFS)        (HR)
+ 1306.        12.25
              (CFS)
              (INCHES)
              (AC-FT)
              6-HR      MAXIMUM AVERAGE FLOW
              24-HR      72-HR      24.75-HR
              280.      86.      83.      83.
              1.962    2.416    2.416    2.416
              139.      171.     171.     171.
CUMULATIVE AREA = 1.32 SQ MI
  
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*****
73 KK          5R          CNAME      5C
*****
  
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74 KO          OUTPUT CONTROL VARIABLES
IPRNT          0 PRINT CONTROL
IPLOT          0 PLOT CONTROL
QSCAL          0. HYDROGRAPH PLOT SCALE
IPNCH          0 PUNCH COMPUTED HYDROGRAPH
IOUT           22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1          1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2          100 LAST ORDINATE PUNCHED OR SAVED
TIMINT         0.250 TIME INTERVAL IN HOURS
  
```

HYDROGRAPH ROUTING DATA

```

75 RM          MUSKINGUM ROUTING
NSTPS          1 NUMBER OF SUBREACHES
AMSKK          0.12 MUSKINGUM K
X              0.20 MUSKINGUM X
  
```

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 5R

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*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW *
1 JAN 0000 1 0. * 1 JAN 0615 26 0. * 1 JAN 1230 51 1212. * 1 JAN 1845 76 62.
1 JAN 0015 2 0. * 1 JAN 0630 27 0. * 1 JAN 1245 52 840. * 1 JAN 1900 77 60.
1 JAN 0030 3 0. * 1 JAN 0645 28 0. * 1 JAN 1300 53 531. * 1 JAN 1915 78 58.
1 JAN 0045 4 0. * 1 JAN 0700 29 0. * 1 JAN 1315 54 369. * 1 JAN 1930 79 56.
1 JAN 0100 5 0. * 1 JAN 0715 30 0. * 1 JAN 1330 55 274. * 1 JAN 1945 80 54.
1 JAN 0115 6 0. * 1 JAN 0730 31 0. * 1 JAN 1345 56 219. * 1 JAN 2000 81 52.
1 JAN 0130 7 0. * 1 JAN 0745 32 0. * 1 JAN 1400 57 183. * 1 JAN 2015 82 50.
1 JAN 0145 8 0. * 1 JAN 0800 33 0. * 1 JAN 1415 58 157. * 1 JAN 2030 83 48.
1 JAN 0200 9 0. * 1 JAN 0815 34 0. * 1 JAN 1430 59 138. * 1 JAN 2045 84 46.
1 JAN 0215 10 0. * 1 JAN 0830 35 0. * 1 JAN 1445 60 126. * 1 JAN 2100 85 46.
1 JAN 0230 11 0. * 1 JAN 0845 36 0. * 1 JAN 1500 61 118. * 1 JAN 2115 86 45.
1 JAN 0245 12 0. * 1 JAN 0900 37 0. * 1 JAN 1515 62 111. * 1 JAN 2130 87 45.
1 JAN 0300 13 0. * 1 JAN 0915 38 0. * 1 JAN 1530 63 105. * 1 JAN 2145 88 44.
1 JAN 0315 14 0. * 1 JAN 0930 39 0. * 1 JAN 1545 64 99. * 1 JAN 2200 89 44.
1 JAN 0330 15 0. * 1 JAN 0945 40 1. * 1 JAN 1600 65 94. * 1 JAN 2215 90 44.
1 JAN 0345 16 0. * 1 JAN 1000 41 3. * 1 JAN 1615 66 88. * 1 JAN 2230 91 43.
1 JAN 0400 17 0. * 1 JAN 1015 42 6. * 1 JAN 1630 67 83. * 1 JAN 2245 92 43.
1 JAN 0415 18 0. * 1 JAN 1030 43 11. * 1 JAN 1645 68 80. * 1 JAN 2300 93 42.
1 JAN 0430 19 0. * 1 JAN 1045 44 17. * 1 JAN 1700 69 77. * 1 JAN 2315 94 42.
1 JAN 0445 20 0. * 1 JAN 1100 45 26. * 1 JAN 1715 70 75. * 1 JAN 2330 95 42.
1 JAN 0500 21 0. * 1 JAN 1115 46 38. * 1 JAN 1730 71 72. * 1 JAN 2345 96 41.
1 JAN 0515 22 0. * 1 JAN 1130 47 58. * 1 JAN 1745 72 70. * 2 JAN 0000 97 41.
1 JAN 0530 23 0. * 1 JAN 1145 48 130. * 1 JAN 1800 73 68. * 2 JAN 0015 98 37.
1 JAN 0545 24 0. * 1 JAN 1200 49 473. * 1 JAN 1815 74 66. * 2 JAN 0030 99 26.
1 JAN 0600 25 0. * 1 JAN 1215 50 1058. * 1 JAN 1830 75 64. * 2 JAN 0045 100 13.
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PEAK FLOW      TIME
+ (CFS)        (HR)
+ 1212.        12.50
              (CFS)
              (INCHES)
              (AC-FT)
              6-HR      MAXIMUM AVERAGE FLOW
              24-HR      72-HR      24.75-HR
              279.      86.      83.      83.
              1.960    2.414    2.414    2.414
              139.      171.     171.     171.
CUMULATIVE AREA = 1.32 SQ MI
  
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 76 KK 4aB \*  
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77 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

80 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

78 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.88 SUBBASIN AREA

PRECIPITATION DATA

79 PB STORM 5.45 BASIN TOTAL PRECIPITATION

81 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

106 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNR 70.52 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

107 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.36 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 445. 881. 545. 225. 97. 42. 18. 8. 3.

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HYDROGRAPH AT STATION 4aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	668.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.07	411.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.06	273.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.05	197.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	154.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	127.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.04	108.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	94.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	86.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	80.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	75.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	71.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	67.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	64.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	60.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	56.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	53.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	52.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	50.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	49.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	47.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	46.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	44.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	43.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	42.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	40.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.02	39.

100yr.out												
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.01	0.02	37.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	36.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	35.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	33.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	32.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	31.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	30.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	30.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	30.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	29.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.02	0.00	0.01	29.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.02	0.00	0.01	29.
1 JAN 0945	40	0.05	0.04	0.00	1.	*	1 JAN 2215	90	0.02	0.00	0.01	29.
1 JAN 1000	41	0.05	0.05	0.00	3.	*	1 JAN 2230	91	0.02	0.00	0.01	28.
1 JAN 1015	42	0.06	0.05	0.00	6.	*	1 JAN 2245	92	0.02	0.00	0.01	28.
1 JAN 1030	43	0.07	0.06	0.01	9.	*	1 JAN 2300	93	0.02	0.00	0.01	28.
1 JAN 1045	44	0.08	0.07	0.01	14.	*	1 JAN 2315	94	0.02	0.00	0.01	28.
1 JAN 1100	45	0.09	0.08	0.02	21.	*	1 JAN 2330	95	0.02	0.00	0.01	27.
1 JAN 1115	46	0.11	0.09	0.02	32.	*	1 JAN 2345	96	0.02	0.00	0.01	27.
1 JAN 1130	47	0.15	0.11	0.04	48.	*	2 JAN 0000	97	0.01	0.00	0.01	27.
1 JAN 1145	48	0.60	0.39	0.21	142.	*	2 JAN 0015	98	0.00	0.00	0.00	21.
1 JAN 1200	49	1.47	0.67	0.80	565.	*	2 JAN 0030	99	0.00	0.00	0.00	11.
1 JAN 1215	50	0.23	0.08	0.15	896.	*	2 JAN 0045	100	0.00	0.00	0.00	5.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.03, TOTAL EXCESS = 2.42

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
		(CFS)				
896.	12.25		185.	57.	55.	55.
		(INCHES)	1.964	2.418	2.418	2.418
		(AC-FT)	92.	113.	113.	113.

CUMULATIVE AREA = 0.88 SQ MI

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 \* \*  
 108 KK \* 4bB \*  
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109 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

112 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

110 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.60 SUBBASIN AREA

PRECIPITATION DATA

111 PB STORM 5.45 BASIN TOTAL PRECIPITATION

113 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

138 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

139 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.38 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
10 END-OF-PERIOD ORDINATES

263. 575. 405. 170. 78. 35. 16. 7. 3. 0.

HYDROGRAPH AT STATION 4bb

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	478.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.07	296.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.06	199.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.05	142.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	110.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	90.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.04	77.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	66.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	60.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	55.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	52.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	49.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	47.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	44.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	41.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	39.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	37.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	36.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	34.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	33.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	32.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	31.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	31.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	30.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	29.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	28.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.02	27.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.02	26.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	25.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	24.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	23.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	22.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	21.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	21.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	21.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	21.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.02	0.00	0.01	20.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.02	0.00	0.01	20.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.02	0.00	0.01	20.
1	JAN	0945	40	0.05	0.04	0.00	1.	*	1	JAN	2215	90	0.02	0.00	0.01	20.
1	JAN	1000	41	0.05	0.05	0.00	2.	*	1	JAN	2230	91	0.02	0.00	0.01	19.
1	JAN	1015	42	0.06	0.05	0.00	4.	*	1	JAN	2245	92	0.02	0.00	0.01	19.
1	JAN	1030	43	0.07	0.06	0.01	6.	*	1	JAN	2300	93	0.02	0.00	0.01	19.
1	JAN	1045	44	0.08	0.07	0.01	9.	*	1	JAN	2315	94	0.02	0.00	0.01	19.
1	JAN	1100	45	0.09	0.08	0.02	14.	*	1	JAN	2330	95	0.02	0.00	0.01	19.
1	JAN	1115	46	0.11	0.09	0.02	21.	*	1	JAN	2345	96	0.02	0.00	0.01	19.
1	JAN	1130	47	0.15	0.11	0.04	32.	*	2	JAN	0000	97	0.01	0.00	0.01	18.
1	JAN	1145	48	0.60	0.39	0.21	88.	*	2	JAN	0015	98	0.00	0.00	0.00	15.
1	JAN	1200	49	1.47	0.68	0.80	350.	*	2	JAN	0030	99	0.00	0.00	0.00	8.
1	JAN	1215	50	0.23	0.08	0.15	591.	*	2	JAN	0045	100	0.00	0.00	0.00	4.

TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.03, TOTAL EXCESS = 2.42

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)			
591.	12.25	127.	39.	38.	38.
		(INCHES)	2.416	2.416	2.416
		(AC-FT)	63.	77.	77.

CUMULATIVE AREA = 0.60 SQ MI

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*          *
140 KK    4C *      CNAME    4R
*          *
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141 KO    OUTPUT CONTROL VARIABLES
          IPRNT    0    PRINT CONTROL
          IPLOT    0    PLOT CONTROL
          QSCAL    0.   HYDROGRAPH PLOT SCALE
          IPNCH    0    PUNCH COMPUTED HYDROGRAPH
          IOUT     22   SAVE HYDROGRAPH ON THIS UNIT
          ISAV1    1    FIRST ORDINATE PUNCHED OR SAVED
          ISAV2   100   LAST ORDINATE PUNCHED OR SAVED

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100yr.out  
TIMINT 0.250 TIME INTERVAL IN HOURS

142 HC HYDROGRAPH COMBINATION  
ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4C  
SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	2357.	1	JAN	1845	76	130.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	1547.	1	JAN	1900	77	126.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	1003.	1	JAN	1915	78	121.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	708.	1	JAN	1930	79	117.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	538.	1	JAN	1945	80	113.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	436.	1	JAN	2000	81	108.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	368.	1	JAN	2015	82	104.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	317.	1	JAN	2030	83	100.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	283.	1	JAN	2045	84	98.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	261.	1	JAN	2100	85	97.
1	JAN	0230	11	0.	1	JAN	0845	36	0.	1	JAN	1500	61	245.	1	JAN	2115	86	96.
1	JAN	0245	12	0.	1	JAN	0900	37	0.	1	JAN	1515	62	232.	1	JAN	2130	87	94.
1	JAN	0300	13	0.	1	JAN	0915	38	0.	1	JAN	1530	63	219.	1	JAN	2145	88	93.
1	JAN	0315	14	0.	1	JAN	0930	39	1.	1	JAN	1545	64	207.	1	JAN	2200	89	93.
1	JAN	0330	15	0.	1	JAN	0945	40	3.	1	JAN	1600	65	195.	1	JAN	2215	90	92.
1	JAN	0345	16	0.	1	JAN	1000	41	8.	1	JAN	1615	66	183.	1	JAN	2230	91	91.
1	JAN	0400	17	0.	1	JAN	1015	42	16.	1	JAN	1630	67	174.	1	JAN	2245	92	90.
1	JAN	0415	18	0.	1	JAN	1030	43	26.	1	JAN	1645	68	167.	1	JAN	2300	93	89.
1	JAN	0430	19	0.	1	JAN	1045	44	41.	1	JAN	1700	69	161.	1	JAN	2315	94	89.
1	JAN	0445	20	0.	1	JAN	1100	45	61.	1	JAN	1715	70	157.	1	JAN	2330	95	87.
1	JAN	0500	21	0.	1	JAN	1115	46	91.	1	JAN	1730	71	152.	1	JAN	2345	96	86.
1	JAN	0515	22	0.	1	JAN	1130	47	137.	1	JAN	1745	72	147.	2	JAN	0000	97	86.
1	JAN	0530	23	0.	1	JAN	1145	48	360.	1	JAN	1800	73	143.	2	JAN	0015	98	74.
1	JAN	0545	24	0.	1	JAN	1200	49	1388.	1	JAN	1815	74	139.	2	JAN	0030	99	45.
1	JAN	0600	25	0.	1	JAN	1215	50	2545.	1	JAN	1830	75	134.	2	JAN	0045	100	21.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW
(CFS)	(HR)	6-HR 24-HR 72-HR 24.75-HR
2545.	12.25	591. 182. 177. 177.
(INCHES)		1.962 2.416 2.416 2.416
(AC-FT)		293. 361. 361. 361.

CUMULATIVE AREA = 2.80 SQ MI

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143 KK 4R CNAME 4C

144 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

145 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.11 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 4R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	2541.

100yr.out

1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	1940.	*	1 JAN 1900	77	128.
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	1222.	*	1 JAN 1915	78	123.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	825.	*	1 JAN 1930	79	119.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	607.	*	1 JAN 1945	80	115.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	478.	*	1 JAN 2000	81	110.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	397.	*	1 JAN 2015	82	106.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	339.	*	1 JAN 2030	83	102.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	298.	*	1 JAN 2045	84	99.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	270.	*	1 JAN 2100	85	97.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	252.	*	1 JAN 2115	86	96.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	237.	*	1 JAN 2130	87	95.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	225.	*	1 JAN 2145	88	94.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	212.	*	1 JAN 2200	89	93.
1 JAN 0330	15	0.	*	1 JAN 0945	40	2.	*	1 JAN 1600	65	200.	*	1 JAN 2215	90	92.
1 JAN 0345	16	0.	*	1 JAN 1000	41	6.	*	1 JAN 1615	66	189.	*	1 JAN 2230	91	91.
1 JAN 0400	17	0.	*	1 JAN 1015	42	12.	*	1 JAN 1630	67	178.	*	1 JAN 2245	92	90.
1 JAN 0415	18	0.	*	1 JAN 1030	43	21.	*	1 JAN 1645	68	170.	*	1 JAN 2300	93	90.
1 JAN 0430	19	0.	*	1 JAN 1045	44	34.	*	1 JAN 1700	69	164.	*	1 JAN 2315	94	89.
1 JAN 0445	20	0.	*	1 JAN 1100	45	52.	*	1 JAN 1715	70	159.	*	1 JAN 2330	95	88.
1 JAN 0500	21	0.	*	1 JAN 1115	46	77.	*	1 JAN 1730	71	154.	*	1 JAN 2345	96	87.
1 JAN 0515	22	0.	*	1 JAN 1130	47	115.	*	1 JAN 1745	72	149.	*	2 JAN 0000	97	86.
1 JAN 0530	23	0.	*	1 JAN 1145	48	247.	*	1 JAN 1800	73	145.	*	2 JAN 0015	98	80.
1 JAN 0545	24	0.	*	1 JAN 1200	49	870.	*	1 JAN 1815	74	141.	*	2 JAN 0030	99	59.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2027.	*	1 JAN 1830	75	136.	*	2 JAN 0045	100	31.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
2541.	12.50	591.	1,960	182.	176.	176.
		(INCHES)	293.	2,414	2,414	2,414
		(AC-FT)		361.	361.	361.

CUMULATIVE AREA = 2.80 SQ MI

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 146 KK 3B \*  
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147 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

150 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

148 BA SUBBASIN CHARACTERISTICS

TAREA,	1.13	SUBBASIN AREA
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PRECIPITATION DATA

149 PB STORM 5.45 BASIN TOTAL PRECIPITATION

151 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

176 LS SCS LOSS RATE

STRTL	0.83	INITIAL ABSTRACTION
CRVNR	70.75	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

177 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.33	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG



100yr.out  
UNIT HYDROGRAPH  
9 END-OF-PERIOD ORDINATES

673. 1194. 626. 255. 105. 43. 17. 8. 1.

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HYDROGRAPH AT STATION 3B  
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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.16	0.05	0.11	818.	*	
1	JAN	0015	2	0.01	0.01	0.00	0.	*	*	1	JAN	1245	52	0.11	0.03	0.08	504.	*	
1	JAN	0030	3	0.01	0.01	0.00	0.	*	*	1	JAN	1300	53	0.09	0.03	0.06	333.	*	
1	JAN	0045	4	0.01	0.01	0.00	0.	*	*	1	JAN	1315	54	0.08	0.02	0.05	242.	*	
1	JAN	0100	5	0.01	0.01	0.00	0.	*	*	1	JAN	1330	55	0.07	0.02	0.05	191.	*	
1	JAN	0115	6	0.01	0.01	0.00	0.	*	*	1	JAN	1345	56	0.06	0.02	0.04	159.	*	
1	JAN	0130	7	0.02	0.02	0.00	0.	*	*	1	JAN	1400	57	0.05	0.02	0.04	136.	*	
1	JAN	0145	8	0.02	0.02	0.00	0.	*	*	1	JAN	1415	58	0.05	0.01	0.04	120.	*	
1	JAN	0200	9	0.02	0.02	0.00	0.	*	*	1	JAN	1430	59	0.05	0.01	0.03	109.	*	
1	JAN	0215	10	0.02	0.02	0.00	0.	*	*	1	JAN	1445	60	0.04	0.01	0.03	102.	*	
1	JAN	0230	11	0.02	0.02	0.00	0.	*	*	1	JAN	1500	61	0.04	0.01	0.03	97.	*	
1	JAN	0245	12	0.02	0.02	0.00	0.	*	*	1	JAN	1515	62	0.04	0.01	0.03	92.	*	
1	JAN	0300	13	0.02	0.02	0.00	0.	*	*	1	JAN	1530	63	0.04	0.01	0.03	87.	*	
1	JAN	0315	14	0.02	0.02	0.00	0.	*	*	1	JAN	1545	64	0.04	0.01	0.03	82.	*	
1	JAN	0330	15	0.02	0.02	0.00	0.	*	*	1	JAN	1600	65	0.03	0.01	0.02	77.	*	
1	JAN	0345	16	0.02	0.02	0.00	0.	*	*	1	JAN	1615	66	0.03	0.01	0.02	72.	*	
1	JAN	0400	17	0.02	0.02	0.00	0.	*	*	1	JAN	1630	67	0.03	0.01	0.02	69.	*	
1	JAN	0415	18	0.02	0.02	0.00	0.	*	*	1	JAN	1645	68	0.03	0.01	0.02	66.	*	
1	JAN	0430	19	0.02	0.02	0.00	0.	*	*	1	JAN	1700	69	0.03	0.01	0.02	65.	*	
1	JAN	0445	20	0.02	0.02	0.00	0.	*	*	1	JAN	1715	70	0.03	0.01	0.02	63.	*	
1	JAN	0500	21	0.02	0.02	0.00	0.	*	*	1	JAN	1730	71	0.03	0.01	0.02	61.	*	
1	JAN	0515	22	0.02	0.02	0.00	0.	*	*	1	JAN	1745	72	0.03	0.01	0.02	59.	*	
1	JAN	0530	23	0.02	0.02	0.00	0.	*	*	1	JAN	1800	73	0.02	0.01	0.02	57.	*	
1	JAN	0545	24	0.02	0.02	0.00	0.	*	*	1	JAN	1815	74	0.02	0.01	0.02	55.	*	
1	JAN	0600	25	0.02	0.02	0.00	0.	*	*	1	JAN	1830	75	0.02	0.01	0.02	54.	*	
1	JAN	0615	26	0.02	0.02	0.00	0.	*	*	1	JAN	1845	76	0.02	0.01	0.02	52.	*	
1	JAN	0630	27	0.03	0.03	0.00	0.	*	*	1	JAN	1900	77	0.02	0.01	0.02	50.	*	
1	JAN	0645	28	0.03	0.03	0.00	0.	*	*	1	JAN	1915	78	0.02	0.01	0.02	48.	*	
1	JAN	0700	29	0.03	0.03	0.00	0.	*	*	1	JAN	1930	79	0.02	0.00	0.02	47.	*	
1	JAN	0715	30	0.03	0.03	0.00	0.	*	*	1	JAN	1945	80	0.02	0.00	0.01	45.	*	
1	JAN	0730	31	0.03	0.03	0.00	0.	*	*	1	JAN	2000	81	0.02	0.00	0.01	43.	*	
1	JAN	0745	32	0.03	0.03	0.00	0.	*	*	1	JAN	2015	82	0.02	0.00	0.01	41.	*	
1	JAN	0800	33	0.03	0.03	0.00	0.	*	*	1	JAN	2030	83	0.02	0.00	0.01	40.	*	
1	JAN	0815	34	0.03	0.03	0.00	0.	*	*	1	JAN	2045	84	0.02	0.00	0.01	39.	*	
1	JAN	0830	35	0.04	0.04	0.00	0.	*	*	1	JAN	2100	85	0.02	0.00	0.01	39.	*	
1	JAN	0845	36	0.04	0.04	0.00	0.	*	*	1	JAN	2115	86	0.02	0.00	0.01	39.	*	
1	JAN	0900	37	0.04	0.04	0.00	0.	*	*	1	JAN	2130	87	0.02	0.00	0.01	38.	*	
1	JAN	0915	38	0.04	0.04	0.00	0.	*	*	1	JAN	2145	88	0.02	0.00	0.01	38.	*	
1	JAN	0930	39	0.04	0.04	0.00	1.	*	*	1	JAN	2200	89	0.02	0.00	0.01	38.	*	
1	JAN	0945	40	0.05	0.04	0.00	2.	*	*	1	JAN	2215	90	0.02	0.00	0.01	37.	*	
1	JAN	1000	41	0.05	0.05	0.00	5.	*	*	1	JAN	2230	91	0.02	0.00	0.01	37.	*	
1	JAN	1015	42	0.06	0.05	0.01	9.	*	*	1	JAN	2245	92	0.02	0.00	0.01	36.	*	
1	JAN	1030	43	0.07	0.06	0.01	14.	*	*	1	JAN	2300	93	0.02	0.00	0.01	36.	*	
1	JAN	1045	44	0.08	0.07	0.01	20.	*	*	1	JAN	2315	94	0.02	0.00	0.01	36.	*	
1	JAN	1100	45	0.09	0.08	0.02	30.	*	*	1	JAN	2330	95	0.02	0.00	0.01	35.	*	
1	JAN	1115	46	0.11	0.09	0.02	44.	*	*	1	JAN	2345	96	0.02	0.00	0.01	35.	*	
1	JAN	1130	47	0.15	0.11	0.04	67.	*	*	2	JAN	0000	97	0.01	0.00	0.01	35.	*	
1	JAN	1145	48	0.60	0.39	0.21	206.	*	*	2	JAN	0015	98	0.00	0.00	0.00	27.	*	
1	JAN	1200	49	1.47	0.67	0.81	825.	*	*	2	JAN	0030	99	0.00	0.00	0.00	12.	*	
1	JAN	1215	50	0.23	0.08	0.15	1209.	*	*	2	JAN	0045	100	0.00	0.00	0.00	5.	*	

TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.01, TOTAL EXCESS = 2.44

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)				
+	1209.	12.25	241.	74.	72.
		(INCHES)	1.980	2.439	2.439
		(AC-FT)	120.	147.	147.

CUMULATIVE AREA = 1.13 SQ MI

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178 KK *      3C *      CNAME 3R
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179 KO OUTPUT CONTROL VARIABLES
      IPRINT 0 PRINT CONTROL
      IPLOT 0 PLOT CONTROL
      QSCAL 0. HYDROGRAPH PLOT SCALE
      IPNCH 0 PUNCH COMPUTED HYDROGRAPH
      IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
      ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
      ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
      TIMINT 0.250 TIME INTERVAL IN HOURS

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180 HC HYDROGRAPH COMBINATION  
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3359.	*	1	JAN	1845	76	184.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2444.	*	1	JAN	1900	77	178.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1555.	*	1	JAN	1915	78	171.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1067.	*	1	JAN	1930	79	165.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	798.	*	1	JAN	1945	80	160.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	637.	*	1	JAN	2000	81	153.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	532.	*	1	JAN	2015	82	147.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	459.	*	1	JAN	2030	83	142.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	407.	*	1	JAN	2045	84	138.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	372.	*	1	JAN	2100	85	136.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	348.	*	1	JAN	2115	86	135.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	329.	*	1	JAN	2130	87	133.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	311.	*	1	JAN	2145	88	131.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1.	*	1	JAN	1545	64	294.	*	1	JAN	2200	89	131.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	4.	*	1	JAN	1600	65	277.	*	1	JAN	2215	90	130.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	11.	*	1	JAN	1615	66	261.	*	1	JAN	2230	91	128.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	21.	*	1	JAN	1630	67	247.	*	1	JAN	2245	92	127.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	35.	*	1	JAN	1645	68	236.	*	1	JAN	2300	93	126.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	54.	*	1	JAN	1700	69	228.	*	1	JAN	2315	94	125.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	82.	*	1	JAN	1715	70	221.	*	1	JAN	2330	95	123.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	121.	*	1	JAN	1730	71	215.	*	1	JAN	2345	96	122.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	182.	*	1	JAN	1745	72	208.	*	2	JAN	0000	97	121.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	454.	*	1	JAN	1800	73	202.	*	2	JAN	0015	98	107.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1695.	*	1	JAN	1815	74	196.	*	2	JAN	0030	99	72.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3236.	*	1	JAN	1830	75	190.	*	2	JAN	0045	100	36.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR	
+	(CFS)	(HR)	(CFS)			
+	3359.	12.50	832.	256.	248.	248.
			(INCHES)	1.966	2.421	2.421
			(AC-FT)	413.	508.	508.

CUMULATIVE AREA = 3.93 SQ MI

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181 KK 3R \* CNAME 3C  
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182 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

183 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.08 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 3R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3465.	*	1	JAN	1845	76	186.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2801.	*	1	JAN	1900	77	180.	*

100yr.out

1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	1821.	*	1 JAN 1915	78	173.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1191.	*	1 JAN 1930	79	167.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	873.	*	1 JAN 1945	80	162.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	682.	*	1 JAN 2000	81	155.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	563.	*	1 JAN 2015	82	149.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	481.	*	1 JAN 2030	83	143.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	422.	*	1 JAN 2045	84	139.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	382.	*	1 JAN 2100	85	136.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	355.	*	1 JAN 2115	86	135.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	335.	*	1 JAN 2130	87	134.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	317.	*	1 JAN 2145	88	132.
1 JAN 0315	14	0.	*	1 JAN 0930	39	1.	*	1 JAN 1545	64	300.	*	1 JAN 2200	89	131.
1 JAN 0330	15	0.	*	1 JAN 0945	40	3.	*	1 JAN 1600	65	283.	*	1 JAN 2215	90	130.
1 JAN 0345	16	0.	*	1 JAN 1000	41	8.	*	1 JAN 1615	66	266.	*	1 JAN 2230	91	129.
1 JAN 0400	17	0.	*	1 JAN 1015	42	17.	*	1 JAN 1630	67	251.	*	1 JAN 2245	92	127.
1 JAN 0415	18	0.	*	1 JAN 1030	43	30.	*	1 JAN 1645	68	239.	*	1 JAN 2300	93	126.
1 JAN 0430	19	0.	*	1 JAN 1045	44	48.	*	1 JAN 1700	69	231.	*	1 JAN 2315	94	125.
1 JAN 0445	20	0.	*	1 JAN 1100	45	72.	*	1 JAN 1715	70	224.	*	1 JAN 2330	95	124.
1 JAN 0500	21	0.	*	1 JAN 1115	46	107.	*	1 JAN 1730	71	217.	*	1 JAN 2345	96	122.
1 JAN 0515	22	0.	*	1 JAN 1130	47	161.	*	1 JAN 1745	72	210.	*	2 JAN 0000	97	121.
1 JAN 0530	23	0.	*	1 JAN 1145	48	345.	*	1 JAN 1800	73	204.	*	2 JAN 0015	98	113.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1200.	*	1 JAN 1815	74	198.	*	2 JAN 0030	99	85.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2735.	*	1 JAN 1830	75	192.	*	2 JAN 0045	100	47.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
+	3465.	12.50				
		(CFS)	831.	256.	248.	248.
		(INCHES)	1.964	2.420	2.420	2.420
		(AC-FT)	412.	508.	508.	508.
CUMULATIVE AREA =			3.93 SQ MI			

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 184 KK \* 2B \*  
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185 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

188 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

186 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.71 SUBBASIN AREA

PRECIPITATION DATA

187 PB STORM 5.45 BASIN TOTAL PRECIPITATION

189 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

214 LS SCS LOSS RATE  
 STRTL 0.82 INITIAL ABSTRACTION  
 CRVNR 70.88 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

215 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.24 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH

742. 737. 236. 77. 25. 9. 2.

HYDROGRAPH AT STATION 2B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	402.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	240.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.06	163.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.05	125.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	103.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	89.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.04	79.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	71.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	66.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	62.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	59.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	56.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	53.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	50.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	47.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	44.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	42.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	41.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	40.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	39.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	37.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	37.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	35.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	34.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	33.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	32.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.02	31.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.02	30.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	29.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	28.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	26.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	25.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	25.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	24.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	24.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	24.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.02	0.00	0.01	24.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.02	0.00	0.01	24.
1	JAN	0930	39	0.04	0.04	0.00	1.	*	1	JAN	2200	89	0.02	0.00	0.01	23.
1	JAN	0945	40	0.05	0.04	0.00	2.	*	1	JAN	2215	90	0.02	0.00	0.01	23.
1	JAN	1000	41	0.05	0.05	0.00	4.	*	1	JAN	2230	91	0.02	0.00	0.01	23.
1	JAN	1015	42	0.06	0.05	0.01	7.	*	1	JAN	2245	92	0.02	0.00	0.01	23.
1	JAN	1030	43	0.07	0.06	0.01	10.	*	1	JAN	2300	93	0.02	0.00	0.01	23.
1	JAN	1045	44	0.08	0.07	0.01	15.	*	1	JAN	2315	94	0.02	0.00	0.01	22.
1	JAN	1100	45	0.09	0.08	0.02	22.	*	1	JAN	2330	95	0.02	0.00	0.01	22.
1	JAN	1115	46	0.11	0.09	0.02	33.	*	1	JAN	2345	96	0.02	0.00	0.01	22.
1	JAN	1130	47	0.15	0.11	0.04	50.	*	2	JAN	0000	97	0.01	0.00	0.01	22.
1	JAN	1145	48	0.60	0.38	0.21	192.	*	2	JAN	0015	98	0.00	0.00	0.00	13.
1	JAN	1200	49	1.47	0.66	0.81	768.	*	2	JAN	0030	99	0.00	0.00	0.00	4.
1	JAN	1215	50	0.23	0.08	0.15	764.	*	2	JAN	0045	100	0.00	0.00	0.00	1.

TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.00, TOTAL EXCESS = 2.45

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
768.	12.00		152.	47.	45.	45.
		(INCHES)	1.991	2.451	2.451	2.451
		(AC-FT)	75.	93.	93.	93.

CUMULATIVE AREA = 0.71 SQ MI

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\* \*  
216 KK \* 2C \* CNAME 2R  
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217 KO OUTPUT CONTROL VARIABLES  
IPRNT 0 PRINT CONTROL  
IPLT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

218 HC HYDROGRAPH COMBINATION ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2C SUM OF 2 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 12 columns for individual hydrographs (DA MON HRMN ORD FLOW). Rows list hydrographs from 1 JAN 0000 to 1 JAN 0600.

Summary statistics table with columns: PEAK FLOW (CFS), TIME (HR), MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR). Values include 3867. CFS and 12.50 HR.

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219 KK \*\*\*\*\* \* \* CNAME 2C \* \* \*\*\*\*\*

220 KO OUTPUT CONTROL VARIABLES IPRNT 0 PRINT CONTROL IPLOT 0 PLOT CONTROL QSCAL 0. HYDROGRAPH PLOT SCALE IPNCH 0 PUNCH COMPUTED HYDROGRAPH IOUT 22 SAVE HYDROGRAPH ON THIS UNIT ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED ISAV2 100 LAST ORDINATE PUNCHED OR SAVED TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

221 RM MUSKINGUM ROUTING NSTPS 1 NUMBER OF SUBREACHES AMSK 0.12 MUSKINGUM K X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R. REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 2R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 12 columns for individual hydrographs (DA MON HRMN ORD FLOW). Rows list hydrographs from 1 JAN 0000 to 1 JAN 0030.

100yr.out

1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1608.	*	1 JAN 1930	79	199.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	1121.	*	1 JAN 1945	80	192.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	862.	*	1 JAN 2000	81	185.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	699.	*	1 JAN 2015	82	178.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	592.	*	1 JAN 2030	83	171.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	517.	*	1 JAN 2045	84	165.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	464.	*	1 JAN 2100	85	162.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	428.	*	1 JAN 2115	86	160.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	402.	*	1 JAN 2130	87	158.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	380.	*	1 JAN 2145	88	156.
1 JAN 0315	14	0.	*	1 JAN 0930	39	1.	*	1 JAN 1545	64	359.	*	1 JAN 2200	89	155.
1 JAN 0330	15	0.	*	1 JAN 0945	40	3.	*	1 JAN 1600	65	339.	*	1 JAN 2215	90	154.
1 JAN 0345	16	0.	*	1 JAN 1000	41	9.	*	1 JAN 1615	66	319.	*	1 JAN 2230	91	152.
1 JAN 0400	17	0.	*	1 JAN 1015	42	18.	*	1 JAN 1630	67	301.	*	1 JAN 2245	92	151.
1 JAN 0415	18	0.	*	1 JAN 1030	43	32.	*	1 JAN 1645	68	286.	*	1 JAN 2300	93	149.
1 JAN 0430	19	0.	*	1 JAN 1045	44	52.	*	1 JAN 1700	69	275.	*	1 JAN 2315	94	148.
1 JAN 0445	20	0.	*	1 JAN 1100	45	79.	*	1 JAN 1715	70	266.	*	1 JAN 2330	95	147.
1 JAN 0500	21	0.	*	1 JAN 1115	46	118.	*	1 JAN 1730	71	258.	*	1 JAN 2345	96	145.
1 JAN 0515	22	0.	*	1 JAN 1130	47	176.	*	1 JAN 1745	72	250.	*	2 JAN 0000	97	144.
1 JAN 0530	23	0.	*	1 JAN 1145	48	366.	*	1 JAN 1800	73	243.	*	2 JAN 0015	98	135.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1218.	*	1 JAN 1815	74	236.	*	2 JAN 0030	99	107.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2773.	*	1 JAN 1830	75	228.	*	2 JAN 0045	100	68.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
3767.	12.50		981.	302.	293.	293.
		(INCHES)	1,965	2,422	2,422	2,422
		(AC-FT)	487.	600.	600.	600.

CUMULATIVE AREA = 4.64 SQ MI

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222 KK 1B \*  
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223 KO OUTPUT CONTROL VARIABLES

IPRNT	0	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

226 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

224 BA SUBBASIN CHARACTERISTICS

TAREA,	0.72	SUBBASIN AREA
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PRECIPITATION DATA

225 PB STORM 5.45 BASIN TOTAL PRECIPITATION

227 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

252 LS SCS LOSS RATE

STRTL	0.81	INITIAL ABSTRACTION
CRVNR	71.15	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

253 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.28	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
8 END-OF-PERIOD ORDINATES

592. 779. 308. 114. 42. 100yr.out  
15. 6. 0.

HYDROGRAPH AT STATION 1B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.16	0.05	0.11	463.	*	
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.11	0.03	0.08	280.	*	
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.09	0.03	0.06	186.	*	
1	JAN	0045	4	0.01	0.01	0.00	0.	*		1	JAN	1315	54	0.08	0.02	0.06	139.	*	
1	JAN	0100	5	0.01	0.01	0.00	0.	*		1	JAN	1330	55	0.07	0.02	0.05	113.	*	
1	JAN	0115	6	0.01	0.01	0.00	0.	*		1	JAN	1345	56	0.06	0.02	0.04	95.	*	
1	JAN	0130	7	0.02	0.02	0.00	0.	*		1	JAN	1400	57	0.05	0.02	0.04	83.	*	
1	JAN	0145	8	0.02	0.02	0.00	0.	*		1	JAN	1415	58	0.05	0.01	0.04	74.	*	
1	JAN	0200	9	0.02	0.02	0.00	0.	*		1	JAN	1430	59	0.05	0.01	0.03	68.	*	
1	JAN	0215	10	0.02	0.02	0.00	0.	*		1	JAN	1445	60	0.04	0.01	0.03	64.	*	
1	JAN	0230	11	0.02	0.02	0.00	0.	*		1	JAN	1500	61	0.04	0.01	0.03	61.	*	
1	JAN	0245	12	0.02	0.02	0.00	0.	*		1	JAN	1515	62	0.04	0.01	0.03	58.	*	
1	JAN	0300	13	0.02	0.02	0.00	0.	*		1	JAN	1530	63	0.04	0.01	0.03	55.	*	
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.04	0.01	0.03	51.	*	
1	JAN	0330	15	0.02	0.02	0.00	0.	*		1	JAN	1600	65	0.03	0.01	0.02	48.	*	
1	JAN	0345	16	0.02	0.02	0.00	0.	*		1	JAN	1615	66	0.03	0.01	0.02	46.	*	
1	JAN	0400	17	0.02	0.02	0.00	0.	*		1	JAN	1630	67	0.03	0.01	0.02	44.	*	
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.03	0.01	0.02	42.	*	
1	JAN	0430	19	0.02	0.02	0.00	0.	*		1	JAN	1700	69	0.03	0.01	0.02	41.	*	
1	JAN	0445	20	0.02	0.02	0.00	0.	*		1	JAN	1715	70	0.03	0.01	0.02	40.	*	
1	JAN	0500	21	0.02	0.02	0.00	0.	*		1	JAN	1730	71	0.03	0.01	0.02	39.	*	
1	JAN	0515	22	0.02	0.02	0.00	0.	*		1	JAN	1745	72	0.03	0.01	0.02	38.	*	
1	JAN	0530	23	0.02	0.02	0.00	0.	*		1	JAN	1800	73	0.02	0.01	0.02	36.	*	
1	JAN	0545	24	0.02	0.02	0.00	0.	*		1	JAN	1815	74	0.02	0.01	0.02	35.	*	
1	JAN	0600	25	0.02	0.02	0.00	0.	*		1	JAN	1830	75	0.02	0.01	0.02	34.	*	
1	JAN	0615	26	0.02	0.02	0.00	0.	*		1	JAN	1845	76	0.02	0.01	0.02	33.	*	
1	JAN	0630	27	0.03	0.03	0.00	0.	*		1	JAN	1900	77	0.02	0.01	0.02	32.	*	
1	JAN	0645	28	0.03	0.03	0.00	0.	*		1	JAN	1915	78	0.02	0.00	0.02	31.	*	
1	JAN	0700	29	0.03	0.03	0.00	0.	*		1	JAN	1930	79	0.02	0.00	0.02	30.	*	
1	JAN	0715	30	0.03	0.03	0.00	0.	*		1	JAN	1945	80	0.02	0.00	0.01	28.	*	
1	JAN	0730	31	0.03	0.03	0.00	0.	*		1	JAN	2000	81	0.02	0.00	0.01	27.	*	
1	JAN	0745	32	0.03	0.03	0.00	0.	*		1	JAN	2015	82	0.02	0.00	0.01	26.	*	
1	JAN	0800	33	0.03	0.03	0.00	0.	*		1	JAN	2030	83	0.02	0.00	0.01	25.	*	
1	JAN	0815	34	0.03	0.03	0.00	0.	*		1	JAN	2045	84	0.02	0.00	0.01	25.	*	
1	JAN	0830	35	0.04	0.04	0.00	0.	*		1	JAN	2100	85	0.02	0.00	0.01	25.	*	
1	JAN	0845	36	0.04	0.04	0.00	0.	*		1	JAN	2115	86	0.02	0.00	0.01	25.	*	
1	JAN	0900	37	0.04	0.04	0.00	0.	*		1	JAN	2130	87	0.02	0.00	0.01	24.	*	
1	JAN	0915	38	0.04	0.04	0.00	0.	*		1	JAN	2145	88	0.02	0.00	0.01	24.	*	
1	JAN	0930	39	0.04	0.04	0.00	1.	*		1	JAN	2200	89	0.02	0.00	0.01	24.	*	
1	JAN	0945	40	0.05	0.04	0.00	2.	*		1	JAN	2215	90	0.02	0.00	0.01	24.	*	
1	JAN	1000	41	0.05	0.05	0.00	4.	*		1	JAN	2230	91	0.02	0.00	0.01	23.	*	
1	JAN	1015	42	0.06	0.05	0.01	7.	*		1	JAN	2245	92	0.02	0.00	0.01	23.	*	
1	JAN	1030	43	0.07	0.06	0.01	10.	*		1	JAN	2300	93	0.02	0.00	0.01	23.	*	
1	JAN	1045	44	0.08	0.07	0.01	15.	*		1	JAN	2315	94	0.02	0.00	0.01	23.	*	
1	JAN	1100	45	0.09	0.07	0.02	22.	*		1	JAN	2330	95	0.02	0.00	0.01	22.	*	
1	JAN	1115	46	0.11	0.09	0.02	32.	*		1	JAN	2345	96	0.02	0.00	0.01	22.	*	
1	JAN	1130	47	0.15	0.11	0.04	49.	*		2	JAN	0000	97	0.01	0.00	0.01	22.	*	
1	JAN	1145	48	0.60	0.38	0.22	168.	*		2	JAN	0015	98	0.00	0.00	0.00	15.	*	
1	JAN	1200	49	1.47	0.66	0.82	668.	*		2	JAN	0030	99	0.00	0.00	0.00	6.	*	
1	JAN	1215	50	0.23	0.08	0.15	800.	*		2	JAN	0045	100	0.00	0.00	0.00	2.	*	

TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.97, TOTAL EXCESS = 2.48

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
800.	12.25	155.	48.	46.	46.
		(INCHES)	2.009	2.474	2.474
		(AC-FT)	77.	95.	95.

CUMULATIVE AREA = 0.72 SQ MI

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*      *
254 KK *      1C *      CNAME      1C
*      *
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255 KO      OUTPUT CONTROL VARIABLES
            IPRINT      0      PRINT CONTROL
            IPLOT       0      PLOT CONTROL
            QSCAL       0.     HYDROGRAPH PLOT SCALE
            IPNCH       0      PUNCH COMPUTED HYDROGRAPH
            IOUT        22     SAVE HYDROGRAPH ON THIS UNIT
            ISAV1       1      FIRST ORDINATE PUNCHED OR SAVED
            ISAV2      100     LAST ORDINATE PUNCHED OR SAVED
            TIMINT      0.250  TIME INTERVAL IN HOURS

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HYDROGRAPH AT STATION 1C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	4230.	*	1	JAN	1845	76	254.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	3780.	*	1	JAN	1900	77	246.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2678.	*	1	JAN	1915	78	237.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1747.	*	1	JAN	1930	79	229.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	1233.	*	1	JAN	1945	80	221.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	957.	*	1	JAN	2000	81	212.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	782.	*	1	JAN	2015	82	204.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	667.	*	1	JAN	2030	83	196.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	585.	*	1	JAN	2045	84	190.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	528.	*	1	JAN	2100	85	187.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	489.	*	1	JAN	2115	86	185.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	459.	*	1	JAN	2130	87	182.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	434.	*	1	JAN	2145	88	180.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2.	*	1	JAN	1545	64	411.	*	1	JAN	2200	89	179.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	5.	*	1	JAN	1600	65	387.	*	1	JAN	2215	90	177.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	13.	*	1	JAN	1615	66	365.	*	1	JAN	2230	91	176.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	25.	*	1	JAN	1630	67	345.	*	1	JAN	2245	92	174.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	43.	*	1	JAN	1645	68	328.	*	1	JAN	2300	93	172.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	67.	*	1	JAN	1700	69	316.	*	1	JAN	2315	94	171.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	101.	*	1	JAN	1715	70	306.	*	1	JAN	2330	95	169.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	150.	*	1	JAN	1730	71	297.	*	1	JAN	2345	96	167.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	225.	*	1	JAN	1745	72	288.	*	2	JAN	0000	97	166.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	533.	*	1	JAN	1800	73	279.	*	2	JAN	0015	98	150.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1886.	*	1	JAN	1815	74	271.	*	2	JAN	0030	99	113.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3574.	*	1	JAN	1830	75	263.	*	2	JAN	0045	100	70.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
4230.	12.50	1137.	350.	340.	340.
		(INCHES)	1,971	2,429	2,429
		(AC-FT)	564.	695.	695.

CUMULATIVE AREA = 5.36 SQ MI

\*\*\* \*\*

\*\*\*\*\*  
 \* \*  
 257 KK 1C \* CNAME 1C  
 \* \*  
 \*\*\*\*\*

258 KO OUTPUT CONTROL VARIABLES  
 IPRNT 0 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

259 RN NO ROUTING

\*\*\*

HYDROGRAPH AT STATION 1C

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	4230.	*	1	JAN	1845	76	254.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	3780.	*	1	JAN	1900	77	246.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2678.	*	1	JAN	1915	78	237.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1747.	*	1	JAN	1930	79	229.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	1233.	*	1	JAN	1945	80	221.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	957.	*	1	JAN	2000	81	212.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	782.	*	1	JAN	2015	82	204.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	667.	*	1	JAN	2030	83	196.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	585.	*	1	JAN	2045	84	190.	*



100yr.out														
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	528.	*	1 JAN 2100	85	187.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	489.	*	1 JAN 2115	86	185.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	459.	*	1 JAN 2130	87	182.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	434.	*	1 JAN 2145	88	180.
1 JAN 0315	14	0.	*	1 JAN 0930	39	2.	*	1 JAN 1545	64	411.	*	1 JAN 2200	89	179.
1 JAN 0330	15	0.	*	1 JAN 0945	40	5.	*	1 JAN 1600	65	387.	*	1 JAN 2215	90	177.
1 JAN 0345	16	0.	*	1 JAN 1000	41	13.	*	1 JAN 1615	66	365.	*	1 JAN 2230	91	176.
1 JAN 0400	17	0.	*	1 JAN 1015	42	25.	*	1 JAN 1630	67	345.	*	1 JAN 2245	92	174.
1 JAN 0415	18	0.	*	1 JAN 1030	43	43.	*	1 JAN 1645	68	328.	*	1 JAN 2300	93	172.
1 JAN 0430	19	0.	*	1 JAN 1045	44	67.	*	1 JAN 1700	69	316.	*	1 JAN 2315	94	171.
1 JAN 0445	20	0.	*	1 JAN 1100	45	101.	*	1 JAN 1715	70	306.	*	1 JAN 2330	95	169.
1 JAN 0500	21	0.	*	1 JAN 1115	46	150.	*	1 JAN 1730	71	297.	*	1 JAN 2345	96	167.
1 JAN 0515	22	0.	*	1 JAN 1130	47	225.	*	1 JAN 1745	72	288.	*	2 JAN 0000	97	166.
1 JAN 0530	23	0.	*	1 JAN 1145	48	533.	*	1 JAN 1800	73	279.	*	2 JAN 0015	98	150.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1886.	*	1 JAN 1815	74	271.	*	2 JAN 0030	99	113.
1 JAN 0600	25	0.	*	1 JAN 1215	50	3574.	*	1 JAN 1830	75	263.	*	2 JAN 0045	100	70.

\*\*\*\*\*

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.75-HR
4230.	12.50	(CFS)	1137.	350.	340.	340.
		(INCHES)	1.971	2.429	2.429	2.429
		(AC-FT)	564.	695.	695.	695.

CUMULATIVE AREA = 5.36 SQ MI

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
+									
+	HYDROGRAPH AT								
+	5bB	677.	12.25	152.	47.	45.	0.72		
+	HYDROGRAPH AT								
+	5aB	629.	12.25	128.	39.	38.	0.60		
+	2 COMBINED AT								
+	5C	1306.	12.25	280.	86.	83.	1.32		
+	ROUTED TO								
+	5R	1212.	12.50	279.	86.	83.	1.32		
+	HYDROGRAPH AT								
+	4aB	896.	12.25	185.	57.	55.	0.88		
+	HYDROGRAPH AT								
+	4bB	591.	12.25	127.	39.	38.	0.60		
+	3 COMBINED AT								
+	4C	2545.	12.25	591.	182.	177.	2.80		
+	ROUTED TO								
+	4R	2541.	12.50	591.	182.	176.	2.80		
+	HYDROGRAPH AT								
+	3B	1209.	12.25	241.	74.	72.	1.13		
+	2 COMBINED AT								
+	3C	3359.	12.50	832.	256.	248.	3.93		
+	ROUTED TO								
+	3R	3465.	12.50	831.	256.	248.	3.93		
+	HYDROGRAPH AT								
+	2B	768.	12.00	152.	47.	45.	0.71		
+	2 COMBINED AT								
+	2C	3867.	12.50	983.	303.	294.	4.64		
+	ROUTED TO								
+	2R	3767.	12.50	981.	302.	293.	4.64		
+	HYDROGRAPH AT								
+	1B	800.	12.25	155.	48.	46.	0.72		
+	2 COMBINED AT								
+	1C	4230.	12.50	1137.	350.	340.	5.36		
+	ROUTED TO								
+	1C	4230.	12.50	1137.	350.	340.	5.36		

\*\*\* NORMAL END OF HEC-1 \*\*\*

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
*****

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*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
*****

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X X XXXXXXX XXXXX X
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X X X X X
X X X X X
X X XXXXXXX XXXXX XXX

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION

NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID Seng Creek
2 ID wo Mining & wo Logging (Scenario 4), USGS DEM Data
3 ID Storm Event
*DIAGRAM
4 IT 15 1JAN94 0 100
5 IO 1
* Gage XY Position 455909.00000 4205486.00000 1
6 PG Gage 3.9
7 IN 15 1JAN94 0
*Seng Rainfall Distribution
8 PC 0.0 0.0 0.0 0.0 0.025 0.05 0.075 0.1 0.125
9 PC 0.15 0.175 0.2 0.225 0.25 0.275 0.3 0.325 0.35 0.375
10 PC 0.4 0.5875 0.775 0.9625 1.15 1.2125 1.275 1.3375 1.4 1.525
11 PC 1.65 1.775 1.9 2.275 2.65 3.025 3.4 3.525 3.65 3.775
12 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
13 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
14 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
15 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
16 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
17 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
18 KK 5bB
19 KO 0 0 0 1 22
20 BA 0.9747
21 PR Gage
22 PW 1.0
23 PT Gage
24 PW 0.877
25 LS 0.0 70.5 0.0
26 UD 0.4358
27 KK 5aB
28 KO 0 0 0 1 22
29 BA 0.5424
30 PR Gage
31 PW 1.0
32 PT Gage
33 PW 0.877
34 LS 0.0 70.5 0.0
35 UD 0.2908
36 KK 5C CNAME 5R
37 KO 0 0 0 0 22
38 HC 2
39 KK 5R CNAME 5C
40 KO 0 0 0 0 22
41 RM 1 0.126 0.2
42 KK 4aB
43 KO 0 0 0 1 22
44 BA 0.8649
45 PR Gage
46 PW 1.0
47 PT Gage

```

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
48 PW 0.877

```

LINE	TYPE	VALUE	NAME	VALUE	NAME	VALUE	NAME	VALUE
49	LS	0.0		70.5		0.0		
50	UD	0.4078						
51	KK	4bB						
52	KO	0		0		0.0		1 22
53	BA	0.6091						
54	PR	Gage						
55	PW	1.0						
56	PT	Gage						
57	PW	0.877						
58	LS	0.0		70.5		0.0		
59	UD	0.3512						
60	KK	4C	CNAME		4R			
61	KO	0		0		0.0		0 22
62	HC	3						
63	KK	4R	CNAME		4C			
64	KO	0		0		0.0		0 22
65	RM	1	0.091		0.2			
66	KK	3B						
67	KO	0		0		0.0		1 22
68	BA	0.99						
69	PR	Gage						
70	PW	1.0						
71	PT	Gage						
72	PW	0.877						
73	LS	0.0		70.71		0.0		
74	UD	0.3368						
75	KK	3C	CNAME		3R			
76	KO	0		0		0.0		0 22
77	HC	2						
78	KK	3R	CNAME		3C			
79	KO	0		0		0.0		0 22
80	RM	1	0.092		0.2			
81	KK	2B						
82	KO	0		0		0.0		1 22
83	BA	0.8395						
84	PR	Gage						
85	PW	1.0						
86	PT	Gage						
87	PW	0.877						
88	LS	0.0		71.04		0.0		
89	UD	0.3008						

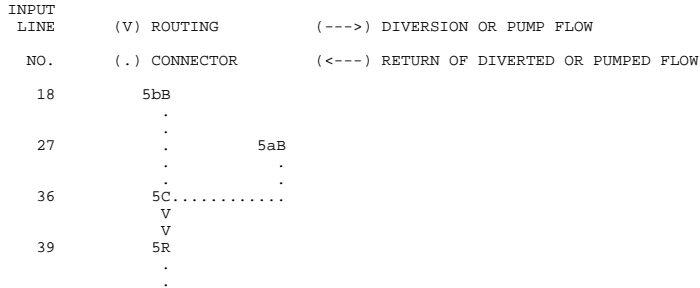
HEC-1 INPUT

PAGE 3

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

90	KK	2C	CNAME		2R			
91	KO	0		0		0.0		0 22
92	HC	2						
93	KK	2R	CNAME		2C			
94	KO	0		0		0.0		0 22
95	RM	1	0.107		0.2			
96	KK	1B						
97	KO	0		0		0.0		1 22
98	BA	0.6967						
99	PR	Gage						
100	PW	1.0						
101	PT	Gage						
102	PW	0.877						
103	LS	0.0		71.35		0.0		
104	UD	0.2942						
105	KK	1C	CNAME		1C			
106	KO	0		0		0.0		0 22
107	HC	2						
108	KK	1C	CNAME		1C			
109	KO	0		0		0.0		0 22
110	RN	1C						
111	ZZ							

SCHEMATIC DIAGRAM OF STREAM NETWORK



```

42      .          4aB
      .
      .
51      .          .          4bB
      .
      .
60      4C.....
      V
      V
63      4R
      .
      .
66      .          3B
      .
      .
75      3C.....
      V
      V
78      3R
      .
      .
81      .          2B
      .
      .
90      2C.....
      V
      V
93      2R
      .
      .
96      .          1B
      .
      .
105     1C.....
      V
      V
108     1C

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE TIME *
*
*****

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```

*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
*
*****

```

Seng Creek  
 wo Mining & wo Logging (Scenario 4), USGS DEM Data  
 Storm Event

```

5 IO      OUTPUT CONTROL VARIABLES
          IPRNT      1 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE

7 IN      TIME DATA FOR INPUT TIME SERIES
          JXMIN      15 TIME INTERVAL IN MINUTES
          JXDATE     1JAN94 STARTING DATE
          JXTIME      0 STARTING TIME

IT        HYDROGRAPH TIME DATA
          NMIN       15 MINUTES IN COMPUTATION INTERVAL
          IDATE      1JAN94 STARTING DATE
          ITIME      0000 STARTING TIME
          NQ         100 NUMBER OF HYDROGRAPH ORDINATES
          NDDATE     2JAN94 ENDING DATE
          NDTIME     0045 ENDING TIME
          ICENT      19 CENTURY MARK

          COMPUTATION INTERVAL 0.25 HOURS
          TOTAL TIME BASE 24.75 HOURS

```

```

ENGLISH UNITS
DRAINAGE AREA      SQUARE MILES
PRECIPITATION DEPTH INCHES
LENGTH, ELEVATION  FEET
FLOW               CUBIC FEET PER SECOND
STORAGE VOLUME    ACRE-FEET
SURFACE AREA      ACRES
TEMPERATURE        DEGREES FAHRENHEIT

```

\*\*\* \*\*

```

*****
*
18 KK    *          5bB *
*
*****

```

19 KO OUTPUT CONTROL VARIABLES Event.out  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

20 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.97 SUBBASIN AREA

PRECIPITATION DATA

23 PT TOTAL STORM STATIONS Gage  
 24 PW WEIGHTS 0.88

21 PR RECORDING STATIONS Gage  
 22 PW WEIGHTS 1.00

25 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

26 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.44 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
 Gage 3.90 0.00 0.88

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
 0.00 0.00 0.00 0.00 0.03 0.03 0.03 0.02 0.02 0.03  
 0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03 0.03  
 0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12 0.12  
 0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH

11 END-OF-PERIOD ORDINATES  
 324. 832. 701. 339. 167. 81. 39. 19. 9. 5.  
 1.

HYDROGRAPH AT STATION 5bb

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.03	0.03	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.03	0.03	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.03	0.03	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.00	1.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.17	0.02	9.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	21.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	25.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	26.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.01	28.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.03	36.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.09	0.04	53.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.09	0.04	71.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.04	86.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.22	0.15	132.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.19	0.18	238.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.17	0.20	348.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.15	0.22	432.	*	1	JAN	2130	87	0.00	0.00	0.00	0.

										Event.out		
1 JAN 1115	38	0.12	0.05	0.08	445.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.12	0.05	0.08	361.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.12	0.04	0.08	278.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.12	0.04	0.08	240.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	196.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	120.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	58.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	28.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	13.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	6.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	3.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	1.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.61, TOTAL EXCESS = 1.29

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
+	445.	136.	34.	33.	33.
+	9.25	1,293	1,295	1,295	1,295
		(INCHES)			
		(AC-FT)	67.	67.	67.

CUMULATIVE AREA = 0.97 SQ MI

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 \* \*  
 27 KK 5aB \*  
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28 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

29 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.54 SUBBASIN AREA

PRECIPITATION DATA

32 PT TOTAL STORM STATIONS Gage  
 33 PW WEIGHTS 0.88

30 PR RECORDING STATIONS Gage  
 31 PW WEIGHTS 1.00

34 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

35 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.29 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	3.90	0.00	0.88

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT = 1.00									
0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.02	0.02	0.03	0.03	
0.02	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	
0.19	0.19	0.19	0.19	0.06	0.06	0.06	0.06	0.12	0.12	0.12	
0.12	0.12	0.38	0.38	0.38	0.38	0.12	0.12	0.12	0.12	0.12	

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES  
 419. 588. 246. 93. 35. 13. 5. 1.

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HYDROGRAPH AT STATION 5aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	Event.out	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.03	0.03	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.03	0.03	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.03	0.03	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.00	2.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.17	0.02	10.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	15.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	15.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	15.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.01	17.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.03	25.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.09	0.04	38.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.09	0.04	47.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.04	54.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.22	0.15	104.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.19	0.18	181.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.17	0.20	235.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.15	0.22	273.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.05	0.08	236.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.05	0.08	161.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.08	131.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.08	121.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	83.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	33.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	12.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	4.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	2.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	1.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.61, TOTAL EXCESS = 1.29

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
273.	9.00	76.	19.	18.	18.
		(INCHES)	1.294	1.295	1.295
		(AC-FT)	37.	37.	37.

CUMULATIVE AREA = 0.54 SQ MI

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36 KK *          5C *          CNAME 5R
*          *
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37 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1  PRINT CONTROL
          IPLOT      0  PLOT CONTROL
          QSCAL      0.  HYDROGRAPH PLOT SCALE
          IPNCH      0  PUNCH COMPUTED HYDROGRAPH
          IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100  LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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38 HC      HYDROGRAPH COMBINATION
          ICOMP      2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 5C  
SUM OF 2 HYDROGRAPHS

Event.out

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	36.	1	JAN	1230	51	0.	1	JAN	1845	76	0.
1	JAN	0015	2	0.	1	JAN	0630	27	40.	1	JAN	1245	52	0.	1	JAN	1900	77	0.
1	JAN	0030	3	0.	1	JAN	0645	28	41.	1	JAN	1300	53	0.	1	JAN	1915	78	0.
1	JAN	0045	4	0.	1	JAN	0700	29	45.	1	JAN	1315	54	0.	1	JAN	1930	79	0.
1	JAN	0100	5	0.	1	JAN	0715	30	61.	1	JAN	1330	55	0.	1	JAN	1945	80	0.
1	JAN	0115	6	0.	1	JAN	0730	31	91.	1	JAN	1345	56	0.	1	JAN	2000	81	0.
1	JAN	0130	7	0.	1	JAN	0745	32	118.	1	JAN	1400	57	0.	1	JAN	2015	82	0.
1	JAN	0145	8	0.	1	JAN	0800	33	139.	1	JAN	1415	58	0.	1	JAN	2030	83	0.
1	JAN	0200	9	0.	1	JAN	0815	34	236.	1	JAN	1430	59	0.	1	JAN	2045	84	0.
1	JAN	0215	10	0.	1	JAN	0830	35	420.	1	JAN	1445	60	0.	1	JAN	2100	85	0.
1	JAN	0230	11	0.	1	JAN	0845	36	583.	1	JAN	1500	61	0.	1	JAN	2115	86	0.
1	JAN	0245	12	0.	1	JAN	0900	37	705.	1	JAN	1515	62	0.	1	JAN	2130	87	0.
1	JAN	0300	13	0.	1	JAN	0915	38	681.	1	JAN	1530	63	0.	1	JAN	2145	88	0.
1	JAN	0315	14	0.	1	JAN	0930	39	522.	1	JAN	1545	64	0.	1	JAN	2200	89	0.
1	JAN	0330	15	0.	1	JAN	0945	40	409.	1	JAN	1600	65	0.	1	JAN	2215	90	0.
1	JAN	0345	16	0.	1	JAN	1000	41	361.	1	JAN	1615	66	0.	1	JAN	2230	91	0.
1	JAN	0400	17	0.	1	JAN	1015	42	279.	1	JAN	1630	67	0.	1	JAN	2245	92	0.
1	JAN	0415	18	0.	1	JAN	1030	43	153.	1	JAN	1645	68	0.	1	JAN	2300	93	0.
1	JAN	0430	19	0.	1	JAN	1045	44	70.	1	JAN	1700	69	0.	1	JAN	2315	94	0.
1	JAN	0445	20	0.	1	JAN	1100	45	33.	1	JAN	1715	70	0.	1	JAN	2330	95	0.
1	JAN	0500	21	0.	1	JAN	1115	46	15.	1	JAN	1730	71	0.	1	JAN	2345	96	0.
1	JAN	0515	22	0.	1	JAN	1130	47	7.	1	JAN	1745	72	0.	2	JAN	0000	97	0.
1	JAN	0530	23	0.	1	JAN	1145	48	3.	1	JAN	1800	73	0.	2	JAN	0015	98	0.
1	JAN	0545	24	3.	1	JAN	1200	49	1.	1	JAN	1815	74	0.	2	JAN	0030	99	0.
1	JAN	0600	25	19.	1	JAN	1215	50	0.	1	JAN	1830	75	0.	2	JAN	0045	100	0.

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PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)	(CFS)			
+	705.	9.00	211.	53.	51.	51.
			(INCHES)	1,293	1,295	1,295
			(AC-FT)	105.	105.	105.
		CUMULATIVE AREA =		1.52 SQ MI		

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 39 KK            5R            CNAME        5C  
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40 KO            OUTPUT CONTROL VARIABLES  
                   IPRNT        1    PRINT CONTROL  
                   IPLOT        0    PLOT CONTROL  
                   QSCAL        0.    HYDROGRAPH PLOT SCALE  
                   IPNCH        0    PUNCH COMPUTED HYDROGRAPH  
                   IOUT        22    SAVE HYDROGRAPH ON THIS UNIT  
                   ISAV1        1    FIRST ORDINATE PUNCHED OR SAVED  
                   ISAV2        100    LAST ORDINATE PUNCHED OR SAVED  
                   TIMINT      0.250    TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

41 RM            MUSKINGUM ROUTING  
                   NSTPS        1    NUMBER OF SUBREACHES  
                   AMSKK        0.13    MUSKINGUM K  
                   X            0.20    MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH    5R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION        5R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	27.	1	JAN	1230	51	0.	1	JAN	1845	76	0.
1	JAN	0015	2	0.	1	JAN	0630	27	39.	1	JAN	1245	52	0.	1	JAN	1900	77	0.
1	JAN	0030	3	0.	1	JAN	0645	28	40.	1	JAN	1300	53	0.	1	JAN	1915	78	0.
1	JAN	0045	4	0.	1	JAN	0700	29	43.	1	JAN	1315	54	0.	1	JAN	1930	79	0.
1	JAN	0100	5	0.	1	JAN	0715	30	52.	1	JAN	1330	55	0.	1	JAN	1945	80	0.
1	JAN	0115	6	0.	1	JAN	0730	31	75.	1	JAN	1345	56	0.	1	JAN	2000	81	0.
1	JAN	0130	7	0.	1	JAN	0745	32	105.	1	JAN	1400	57	0.	1	JAN	2015	82	0.
1	JAN	0145	8	0.	1	JAN	0800	33	129.	1	JAN	1415	58	0.	1	JAN	2030	83	0.
1	JAN	0200	9	0.	1	JAN	0815	34	183.	1	JAN	1430	59	0.	1	JAN	2045	84	0.
1	JAN	0215	10	0.	1	JAN	0830	35	323.	1	JAN	1445	60	0.	1	JAN	2100	85	0.
1	JAN	0230	11	0.	1	JAN	0845	36	502.	1	JAN	1500	61	0.	1	JAN	2115	86	0.
1	JAN	0245	12	0.	1	JAN	0900	37	646.	1	JAN	1515	62	0.	1	JAN	2130	87	0.
1	JAN	0300	13	0.	1	JAN	0915	38	701.	1	JAN	1530	63	0.	1	JAN	2145	88	0.
1	JAN	0315	14	0.	1	JAN	0930	39	609.	1	JAN	1545	64	0.	1	JAN	2200	89	0.



Event.out

1 JAN 0330	15	0.	*	1 JAN 0945	40	462.	*	1 JAN 1600	65	0.	*	1 JAN 2215	90	*****
1 JAN 0345	16	0.	*	1 JAN 1000	41	382.	*	1 JAN 1615	66	0.	*	1 JAN 2230	91	*****
1 JAN 0400	17	0.	*	1 JAN 1015	42	323.	*	1 JAN 1630	67	0.	*	1 JAN 2245	92	*****
1 JAN 0415	18	0.	*	1 JAN 1030	43	219.	*	1 JAN 1645	68	0.	*	1 JAN 2300	93	*****
1 JAN 0430	19	0.	*	1 JAN 1045	44	109.	*	1 JAN 1700	69	0.	*	1 JAN 2315	94	*****
1 JAN 0445	20	0.	*	1 JAN 1100	45	49.	*	1 JAN 1715	70	0.	*	1 JAN 2330	95	*****
1 JAN 0500	21	0.	*	1 JAN 1115	46	23.	*	1 JAN 1730	71	0.	*	1 JAN 2345	96	*****
1 JAN 0515	22	0.	*	1 JAN 1130	47	10.	*	1 JAN 1745	72	0.	*	2 JAN 0000	97	0.
1 JAN 0530	23	0.	*	1 JAN 1145	48	5.	*	1 JAN 1800	73	0.	*	2 JAN 0015	98	0.
1 JAN 0545	24	1.	*	1 JAN 1200	49	2.	*	1 JAN 1815	74	0.	*	2 JAN 0030	99	0.
1 JAN 0600	25	10.	*	1 JAN 1215	50	1.	*	1 JAN 1830	75	0.	*	2 JAN 0045	100	0.

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PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
(CFS)	(HR)					
701.	9.25	211.	53.	51.	51.	51.
		(INCHES)	1.293	1.295	1.295	1.295
		(AC-FT)	105.	105.	105.	105.
CUMULATIVE AREA =		1.52 SQ MI				

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 42 KK            4aB \*  
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43 KO            OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

44 BA            SUBBASIN CHARACTERISTICS

TAREA,	0.86	SUBBASIN AREA
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PRECIPITATION DATA

47 PT	TOTAL STORM STATIONS	Gage
48 PW	WEIGHTS	0.88
45 PR	RECORDING STATIONS	Gage
46 PW	WEIGHTS	1.00

49 LS	SCS LOSS RATE	
	STRTL	0.84 INITIAL ABSTRACTION
	CRVNBR	70.50 CURVE NUMBER
	RTIMP	0.00 PERCENT IMPERVIOUS AREA

50 UD	SCS DIMENSIONLESS UNITGRAPH	
	TLAG	0.41 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	3.90	0.00	0.88

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.02	0.02	0.03	0.03
0.02	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03
0.19	0.19	0.19	0.19	0.06	0.06	0.06	0.06	0.12	0.12	0.12
0.12	0.12	0.38	0.38	0.38	0.38	0.38	0.12	0.12	0.12	0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES

332.	783.	609.	271.	129.	59.	28.	13.	7.	2.
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HYDROGRAPH AT STATION            4aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1 JAN	0000	1	0.00	0.00	0.00	0.00	0.	*		1 JAN	1230	51	0.00	0.00	0.00	0.00	0.	*
1 JAN	0015	2	0.00	0.00	0.00	0.00	0.	*		1 JAN	1245	52	0.00	0.00	0.00	0.00	0.	*

										Event.out			
1 JAN 0030	3	0.00	0.00	0.00	0.	*	1 JAN 1300	53	0.00	0.00	0.00	0.	
1 JAN 0045	4	0.00	0.00	0.00	0.	*	1 JAN 1315	54	0.00	0.00	0.00	0.	
1 JAN 0100	5	0.00	0.00	0.00	0.	*	1 JAN 1330	55	0.00	0.00	0.00	0.	
1 JAN 0115	6	0.03	0.03	0.00	0.	*	1 JAN 1345	56	0.00	0.00	0.00	0.	
1 JAN 0130	7	0.03	0.03	0.00	0.	*	1 JAN 1400	57	0.00	0.00	0.00	0.	
1 JAN 0145	8	0.03	0.03	0.00	0.	*	1 JAN 1415	58	0.00	0.00	0.00	0.	
1 JAN 0200	9	0.02	0.02	0.00	0.	*	1 JAN 1430	59	0.00	0.00	0.00	0.	
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.00	0.00	0.00	0.	
1 JAN 0230	11	0.03	0.03	0.00	0.	*	1 JAN 1500	61	0.00	0.00	0.00	0.	
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.00	0.00	0.00	0.	
1 JAN 0300	13	0.03	0.03	0.00	0.	*	1 JAN 1530	63	0.00	0.00	0.00	0.	
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.00	0.00	0.00	0.	
1 JAN 0330	15	0.03	0.03	0.00	0.	*	1 JAN 1600	65	0.00	0.00	0.00	0.	
1 JAN 0345	16	0.03	0.03	0.00	0.	*	1 JAN 1615	66	0.00	0.00	0.00	0.	
1 JAN 0400	17	0.03	0.03	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.	
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.	
1 JAN 0430	19	0.03	0.03	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.	
1 JAN 0445	20	0.03	0.03	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.	
1 JAN 0500	21	0.03	0.03	0.00	0.	*	1 JAN 1730	71	0.00	0.00	0.00	0.	
1 JAN 0515	22	0.19	0.19	0.00	0.	*	1 JAN 1745	72	0.00	0.00	0.00	0.	
1 JAN 0530	23	0.19	0.19	0.00	0.	*	1 JAN 1800	73	0.00	0.00	0.00	0.	
1 JAN 0545	24	0.19	0.18	0.00	1.	*	1 JAN 1815	74	0.00	0.00	0.00	0.	
1 JAN 0600	25	0.19	0.17	0.02	9.	*	1 JAN 1830	75	0.00	0.00	0.00	0.	
1 JAN 0615	26	0.06	0.05	0.01	19.	*	1 JAN 1845	76	0.00	0.00	0.00	0.	
1 JAN 0630	27	0.06	0.05	0.01	23.	*	1 JAN 1900	77	0.00	0.00	0.00	0.	
1 JAN 0645	28	0.06	0.05	0.01	23.	*	1 JAN 1915	78	0.00	0.00	0.00	0.	
1 JAN 0700	29	0.06	0.05	0.01	25.	*	1 JAN 1930	79	0.00	0.00	0.00	0.	
1 JAN 0715	30	0.12	0.09	0.03	33.	*	1 JAN 1945	80	0.00	0.00	0.00	0.	
1 JAN 0730	31	0.12	0.09	0.04	49.	*	1 JAN 2000	81	0.00	0.00	0.00	0.	
1 JAN 0745	32	0.12	0.09	0.04	65.	*	1 JAN 2015	82	0.00	0.00	0.00	0.	
1 JAN 0800	33	0.12	0.08	0.04	78.	*	1 JAN 2030	83	0.00	0.00	0.00	0.	
1 JAN 0815	34	0.38	0.22	0.15	124.	*	1 JAN 2045	84	0.00	0.00	0.00	0.	
1 JAN 0830	35	0.38	0.19	0.18	223.	*	1 JAN 2100	85	0.00	0.00	0.00	0.	
1 JAN 0845	36	0.38	0.17	0.20	322.	*	1 JAN 2115	86	0.00	0.00	0.00	0.	
1 JAN 0900	37	0.38	0.15	0.22	393.	*	1 JAN 2130	87	0.00	0.00	0.00	0.	
1 JAN 0915	38	0.12	0.05	0.08	396.	*	1 JAN 2145	88	0.00	0.00	0.00	0.	
1 JAN 0930	39	0.12	0.05	0.08	312.	*	1 JAN 2200	89	0.00	0.00	0.00	0.	
1 JAN 0945	40	0.12	0.04	0.08	239.	*	1 JAN 2215	90	0.00	0.00	0.00	0.	
1 JAN 1000	41	0.12	0.04	0.08	208.	*	1 JAN 2230	91	0.00	0.00	0.00	0.	
1 JAN 1015	42	0.00	0.00	0.00	168.	*	1 JAN 2245	92	0.00	0.00	0.00	0.	
1 JAN 1030	43	0.00	0.00	0.00	97.	*	1 JAN 2300	93	0.00	0.00	0.00	0.	
1 JAN 1045	44	0.00	0.00	0.00	44.	*	1 JAN 2315	94	0.00	0.00	0.00	0.	
1 JAN 1100	45	0.00	0.00	0.00	21.	*	1 JAN 2330	95	0.00	0.00	0.00	0.	
1 JAN 1115	46	0.00	0.00	0.00	9.	*	1 JAN 2345	96	0.00	0.00	0.00	0.	
1 JAN 1130	47	0.00	0.00	0.00	4.	*	2 JAN 0000	97	0.00	0.00	0.00	0.	
1 JAN 1145	48	0.00	0.00	0.00	2.	*	2 JAN 0015	98	0.00	0.00	0.00	0.	
1 JAN 1200	49	0.00	0.00	0.00	1.	*	2 JAN 0030	99	0.00	0.00	0.00	0.	
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.	

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TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.61, TOTAL EXCESS = 1.29

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
396.	9.25	(CFS)	120.	30.	29.	29.
		(INCHES)	1.294	1.295	1.295	1.295
		(AC-FT)	60.	60.	60.	60.

CUMULATIVE AREA = 0.86 SQ MI

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51 KK \* 4bB \*  
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52 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

53 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.61 SUBBASIN AREA

PRECIPITATION DATA

56 PT TOTAL STORM STATIONS Gage  
57 PW WEIGHTS 0.88  
54 PR RECORDING STATIONS Gage  
55 PW WEIGHTS 1.00

58 LS SCS LOSS RATE Event.out  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

59 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.35 LAG

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PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
 Gage 3.90 0.00 0.88

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
 0.00 0.00 0.00 0.00 0.03 0.03 0.03 0.02 0.02 0.03  
 0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03 0.03  
 0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12 0.12  
 0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES

322. 620. 368. 152. 64. 27. 12. 5. 2.

HYDROGRAPH AT STATION 4bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.03	0.03	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.03	0.03	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.03	0.03	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.00	1.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.17	0.02	8.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	16.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	16.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	17.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.01	18.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.03	25.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.09	0.04	38.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.09	0.04	49.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.04	57.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.22	0.15	99.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.19	0.18	178.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.17	0.20	244.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.15	0.22	292.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.05	0.08	277.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.05	0.08	203.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.08	158.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.08	141.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	108.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	54.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	22.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	9.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	4.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	2.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	1.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.61, TOTAL EXCESS = 1.29

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
+	292.	9.00	(CFS)			
			(INCHES)			
			(AC-FT)			
			85.	21.	21.	21.
			1.294	1.295	1.295	1.295
			42.	42.	42.	42.

CUMULATIVE AREA = 0.61 SQ MI

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60 KK 4C CNAME 4R

61 KO OUTPUT CONTROL VARIABLES IPRNT 1 PRINT CONTROL IPLOT 0 PLOT CONTROL QSCAL 0. HYDROGRAPH PLOT SCALE IPNCH 0 PUNCH COMPUTED HYDROGRAPH IOUT 22 SAVE HYDROGRAPH ON THIS UNIT ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED ISAV2 100 LAST ORDINATE PUNCHED OR SAVED TIMINT 0.250 TIME INTERVAL IN HOURS

62 HC HYDROGRAPH COMBINATION ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4C SUM OF 3 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 blank columns. Rows list hydrograph data for various dates in January, including flow values and station identifiers.

Summary table with 7 columns: PEAK FLOW, TIME, 6-HR, 24-HR, 72-HR, 24.75-HR. Includes units (CFS, INCHES, AC-FT) and CUMULATIVE AREA = 2.99 SQ MI.

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63 KK 4R CNAME 4C

64 KO OUTPUT CONTROL VARIABLES IPRNT 1 PRINT CONTROL IPLOT 0 PLOT CONTROL QSCAL 0. HYDROGRAPH PLOT SCALE IPNCH 0 PUNCH COMPUTED HYDROGRAPH IOUT 22 SAVE HYDROGRAPH ON THIS UNIT ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED ISAV2 100 LAST ORDINATE PUNCHED OR SAVED TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

65 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.09 MUSKINGUM K  
 X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 4R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	49.	1	JAN	1230	51	0.	1	JAN	1845	76	0.
1	JAN	0015	2	0.	1	JAN	0630	27	74.	1	JAN	1245	52	0.	1	JAN	1900	77	0.
1	JAN	0030	3	0.	1	JAN	0645	28	80.	1	JAN	1300	53	0.	1	JAN	1915	78	0.
1	JAN	0045	4	0.	1	JAN	0700	29	84.	1	JAN	1315	54	0.	1	JAN	1930	79	0.
1	JAN	0100	5	0.	1	JAN	0715	30	100.	1	JAN	1330	55	0.	1	JAN	1945	80	0.
1	JAN	0115	6	0.	1	JAN	0730	31	141.	1	JAN	1345	56	0.	1	JAN	2000	81	0.
1	JAN	0130	7	0.	1	JAN	0745	32	199.	1	JAN	1400	57	0.	1	JAN	2015	82	0.
1	JAN	0145	8	0.	1	JAN	0800	33	249.	1	JAN	1415	58	0.	1	JAN	2030	83	0.
1	JAN	0200	9	0.	1	JAN	0815	34	345.	1	JAN	1430	59	0.	1	JAN	2045	84	0.
1	JAN	0215	10	0.	1	JAN	0830	35	594.	1	JAN	1445	60	0.	1	JAN	2100	85	0.
1	JAN	0230	11	0.	1	JAN	0845	36	944.	1	JAN	1500	61	0.	1	JAN	2115	86	0.
1	JAN	0245	12	0.	1	JAN	0900	37	1242.	1	JAN	1515	62	0.	1	JAN	2130	87	0.
1	JAN	0300	13	0.	1	JAN	0915	38	1377.	1	JAN	1530	63	0.	1	JAN	2145	88	0.
1	JAN	0315	14	0.	1	JAN	0930	39	1238.	1	JAN	1545	64	0.	1	JAN	2200	89	0.
1	JAN	0330	15	0.	1	JAN	0945	40	951.	1	JAN	1600	65	0.	1	JAN	2215	90	0.
1	JAN	0345	16	0.	1	JAN	1000	41	766.	1	JAN	1615	66	0.	1	JAN	2230	91	0.
1	JAN	0400	17	0.	1	JAN	1015	42	650.	1	JAN	1630	67	0.	1	JAN	2245	92	0.
1	JAN	0415	18	0.	1	JAN	1030	43	461.	1	JAN	1645	68	0.	1	JAN	2300	93	0.
1	JAN	0430	19	0.	1	JAN	1045	44	241.	1	JAN	1700	69	0.	1	JAN	2315	94	0.
1	JAN	0445	20	0.	1	JAN	1100	45	107.	1	JAN	1715	70	0.	1	JAN	2330	95	0.
1	JAN	0500	21	0.	1	JAN	1115	46	49.	1	JAN	1730	71	0.	1	JAN	2345	96	0.
1	JAN	0515	22	0.	1	JAN	1130	47	22.	1	JAN	1745	72	0.	2	JAN	0000	97	0.
1	JAN	0530	23	0.	1	JAN	1145	48	9.	1	JAN	1800	73	0.	2	JAN	0015	98	0.
1	JAN	0545	24	2.	1	JAN	1200	49	4.	1	JAN	1815	74	0.	2	JAN	0030	99	0.
1	JAN	0600	25	17.	1	JAN	1215	50	2.	1	JAN	1830	75	0.	2	JAN	0045	100	0.

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
1377.	9.25	416.	104.	101.	101.
		(INCHES)	1.293	1.295	1.295
		(AC-FT)	206.	207.	207.
CUMULATIVE AREA =		2.99 SQ MI			

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66 KK 3B

67 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

68 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.99 SUBBASIN AREA

PRECIPITATION DATA

71 PT TOTAL STORM STATIONS Gage  
 72 PW WEIGHTS 0.88

69 PR RECORDING STATIONS Gage  
 70 PW WEIGHTS 1.00

73 LS SCS LOSS RATE  
 STRTL 0.83 INITIAL ABSTRACTION  
 CRVNBR 70.71 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

74 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.34 LAG

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PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
Gage 3.90 0.00 0.88

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
0.00 0.00 0.00 0.00 0.03 0.03 0.03 0.02 0.02 0.03  
0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03 0.03  
0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12 0.12  
0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
9 END-OF-PERIOD ORDINATES

573. 1035. 560. 229. 95. 39. 16. 7. 1.

HYDROGRAPH AT STATION 3B

Table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and a second set of columns for a different station. Rows list data for various dates from 1 JAN 0000 to 1 JAN 1215.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.59, TOTAL EXCESS = 1.31

Table with columns: PEAK FLOW, TIME, MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR). Includes values in CFS, INCHES, and AC-FT.

CUMULATIVE AREA = 0.99 SQ MI

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*****
*
75 KK *      3C *      CNAME      3R
*
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76 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1  PRINT CONTROL
          IPLOT      0  PLOT CONTROL
          QSCAL      0.  HYDROGRAPH PLOT SCALE
          IPNCH      0  PUNCH COMPUTED HYDROGRAPH
          IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100  LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS
    
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77 HC      HYDROGRAPH COMBINATION
          ICOMP      2  NUMBER OF HYDROGRAPHS TO COMBINE
    
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HYDROGRAPH AT STATION 3C  
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	76.	*	1	JAN	1230	51	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	102.	*	1	JAN	1245	52	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	108.	*	1	JAN	1300	53	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	114.	*	1	JAN	1315	54	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	143.	*	1	JAN	1330	55	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	206.	*	1	JAN	1345	56	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	281.	*	1	JAN	1400	57	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	345.	*	1	JAN	1415	58	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	513.	*	1	JAN	1430	59	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	896.	*	1	JAN	1445	60	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1352.	*	1	JAN	1500	61	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1726.	*	1	JAN	1515	62	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1828.	*	1	JAN	1530	63	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1561.	*	1	JAN	1545	64	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1205.	*	1	JAN	1600	65	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	994.	*	1	JAN	1615	66	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	821.	*	1	JAN	1630	67	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	542.	*	1	JAN	1645	68	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	274.	*	1	JAN	1700	69	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	120.	*	1	JAN	1715	70	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	54.	*	1	JAN	1730	71	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	24.	*	1	JAN	1745	72	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	10.	*	1	JAN	1800	73	0.	*
1	JAN	0545	24	4.	*	1	JAN	1200	49	4.	*	1	JAN	1815	74	0.	*
1	JAN	0600	25	32.	*	1	JAN	1215	50	2.	*	1	JAN	1830	75	0.	*

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PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)				
+	1828.	9.25	555.	139.	135.
			(INCHES)	1.297	1.298
			(AC-FT)	275.	276.
CUMULATIVE AREA =			3.98 SQ MI		

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*****
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78 KK *      3R *      CNAME      3C
*
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79 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1  PRINT CONTROL
          IPLOT      0  PLOT CONTROL
          QSCAL      0.  HYDROGRAPH PLOT SCALE
          IPNCH      0  PUNCH COMPUTED HYDROGRAPH
          IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100  LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS
    
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HYDROGRAPH ROUTING DATA

80 RM MUSKINGUM ROUTING Event.out  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.09 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 3R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	59.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	94.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	107.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	112.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	130.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	180.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	253.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	322.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	441.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	737.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1182.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1597.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1814.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1688.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1337.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1057.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	885.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	655.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	369.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	167.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	72.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	33.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	14.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	2.	*	1	JAN	1200	49	6.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	20.	*	1	JAN	1215	50	2.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
1814.	9.25	555.	139.	135.	135.
		(INCHES)	1.296	1.298	1.298
		(AC-FT)	275.	276.	276.
CUMULATIVE AREA =		3.98 SQ MI			

\*\*\* \*\*

81 KK 2B

82 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0 HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA  
 83 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.84 SUBBASIN AREA

PRECIPITATION DATA  
 86 PT TOTAL STORM STATIONS Gage  
 87 PW WEIGHTS 0.88  
 84 PR RECORDING STATIONS Gage  
 85 PW WEIGHTS 1.00

88 LS SCS LOSS RATE  
 STRTL 0.82 INITIAL ABSTRACTION  
 CRVNBR 71.04 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

89 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.30 LAG



PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
Gage 3.90 0.00 0.88

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
0.00 0.00 0.00 0.00 0.03 0.03 0.03 0.02 0.02 0.03  
0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03 0.03  
0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12 0.12  
0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
8 END-OF-PERIOD ORDINATES

610. 907. 400. 156. 60. 23. 9. 3.

HYDROGRAPH AT STATION 2B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.00	0.00	0.00	0.	*	
1	JAN	0015	2	0.00	0.00	0.00	0.	*		1	JAN	1245	52	0.00	0.00	0.00	0.	*	
1	JAN	0030	3	0.00	0.00	0.00	0.	*		1	JAN	1300	53	0.00	0.00	0.00	0.	*	
1	JAN	0045	4	0.00	0.00	0.00	0.	*		1	JAN	1315	54	0.00	0.00	0.00	0.	*	
1	JAN	0100	5	0.00	0.00	0.00	0.	*		1	JAN	1330	55	0.00	0.00	0.00	0.	*	
1	JAN	0115	6	0.03	0.03	0.00	0.	*		1	JAN	1345	56	0.00	0.00	0.00	0.	*	
1	JAN	0130	7	0.03	0.03	0.00	0.	*		1	JAN	1400	57	0.00	0.00	0.00	0.	*	
1	JAN	0145	8	0.03	0.03	0.00	0.	*		1	JAN	1415	58	0.00	0.00	0.00	0.	*	
1	JAN	0200	9	0.02	0.02	0.00	0.	*		1	JAN	1430	59	0.00	0.00	0.00	0.	*	
1	JAN	0215	10	0.02	0.02	0.00	0.	*		1	JAN	1445	60	0.00	0.00	0.00	0.	*	
1	JAN	0230	11	0.03	0.03	0.00	0.	*		1	JAN	1500	61	0.00	0.00	0.00	0.	*	
1	JAN	0245	12	0.02	0.02	0.00	0.	*		1	JAN	1515	62	0.00	0.00	0.00	0.	*	
1	JAN	0300	13	0.03	0.03	0.00	0.	*		1	JAN	1530	63	0.00	0.00	0.00	0.	*	
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.00	0.00	0.00	0.	*	
1	JAN	0330	15	0.03	0.03	0.00	0.	*		1	JAN	1600	65	0.00	0.00	0.00	0.	*	
1	JAN	0345	16	0.03	0.03	0.00	0.	*		1	JAN	1615	66	0.00	0.00	0.00	0.	*	
1	JAN	0400	17	0.03	0.03	0.00	0.	*		1	JAN	1630	67	0.00	0.00	0.00	0.	*	
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.00	0.00	0.00	0.	*	
1	JAN	0430	19	0.03	0.03	0.00	0.	*		1	JAN	1700	69	0.00	0.00	0.00	0.	*	
1	JAN	0445	20	0.03	0.03	0.00	0.	*		1	JAN	1715	70	0.00	0.00	0.00	0.	*	
1	JAN	0500	21	0.03	0.03	0.00	0.	*		1	JAN	1730	71	0.00	0.00	0.00	0.	*	
1	JAN	0515	22	0.19	0.19	0.00	0.	*		1	JAN	1745	72	0.00	0.00	0.00	0.	*	
1	JAN	0530	23	0.19	0.19	0.00	0.	*		1	JAN	1800	73	0.00	0.00	0.00	0.	*	
1	JAN	0545	24	0.19	0.18	0.01	3.	*		1	JAN	1815	74	0.00	0.00	0.00	0.	*	
1	JAN	0600	25	0.19	0.17	0.02	17.	*		1	JAN	1830	75	0.00	0.00	0.00	0.	*	
1	JAN	0615	26	0.06	0.05	0.01	26.	*		1	JAN	1845	76	0.00	0.00	0.00	0.	*	
1	JAN	0630	27	0.06	0.05	0.01	25.	*		1	JAN	1900	77	0.00	0.00	0.00	0.	*	
1	JAN	0645	28	0.06	0.05	0.01	25.	*		1	JAN	1915	78	0.00	0.00	0.00	0.	*	
1	JAN	0700	29	0.06	0.05	0.01	27.	*		1	JAN	1930	79	0.00	0.00	0.00	0.	*	
1	JAN	0715	30	0.12	0.09	0.03	40.	*		1	JAN	1945	80	0.00	0.00	0.00	0.	*	
1	JAN	0730	31	0.12	0.09	0.04	60.	*		1	JAN	2000	81	0.00	0.00	0.00	0.	*	
1	JAN	0745	32	0.12	0.08	0.04	74.	*		1	JAN	2015	82	0.00	0.00	0.00	0.	*	
1	JAN	0800	33	0.12	0.08	0.05	86.	*		1	JAN	2030	83	0.00	0.00	0.00	0.	*	
1	JAN	0815	34	0.38	0.22	0.16	161.	*		1	JAN	2045	84	0.00	0.00	0.00	0.	*	
1	JAN	0830	35	0.38	0.19	0.18	282.	*		1	JAN	2100	85	0.00	0.00	0.00	0.	*	
1	JAN	0845	36	0.38	0.17	0.21	367.	*		1	JAN	2115	86	0.00	0.00	0.00	0.	*	
1	JAN	0900	37	0.38	0.15	0.23	428.	*		1	JAN	2130	87	0.00	0.00	0.00	0.	*	
1	JAN	0915	38	0.12	0.05	0.08	376.	*		1	JAN	2145	88	0.00	0.00	0.00	0.	*	
1	JAN	0930	39	0.12	0.04	0.08	259.	*		1	JAN	2200	89	0.00	0.00	0.00	0.	*	
1	JAN	0945	40	0.12	0.04	0.08	208.	*		1	JAN	2215	90	0.00	0.00	0.00	0.	*	
1	JAN	1000	41	0.12	0.04	0.08	191.	*		1	JAN	2230	91	0.00	0.00	0.00	0.	*	
1	JAN	1015	42	0.00	0.00	0.00	134.	*		1	JAN	2245	92	0.00	0.00	0.00	0.	*	
1	JAN	1030	43	0.00	0.00	0.00	56.	*		1	JAN	2300	93	0.00	0.00	0.00	0.	*	
1	JAN	1045	44	0.00	0.00	0.00	21.	*		1	JAN	2315	94	0.00	0.00	0.00	0.	*	
1	JAN	1100	45	0.00	0.00	0.00	8.	*		1	JAN	2330	95	0.00	0.00	0.00	0.	*	
1	JAN	1115	46	0.00	0.00	0.00	3.	*		1	JAN	2345	96	0.00	0.00	0.00	0.	*	
1	JAN	1130	47	0.00	0.00	0.00	1.	*		2	JAN	0000	97	0.00	0.00	0.00	0.	*	
1	JAN	1145	48	0.00	0.00	0.00	0.	*		2	JAN	0015	98	0.00	0.00	0.00	0.	*	
1	JAN	1200	49	0.00	0.00	0.00	0.	*		2	JAN	0030	99	0.00	0.00	0.00	0.	*	
1	JAN	1215	50	0.00	0.00	0.00	0.	*		2	JAN	0045	100	0.00	0.00	0.00	0.	*	

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.57, TOTAL EXCESS = 1.33

PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
+ 428. 9.00 (CFS) 120. 30. 29. 29.  
(INCHES) 1.328 1.329 1.329 1.329  
(AC-FT) 59. 59. 59. 59.

CUMULATIVE AREA = 0.84 SQ MI

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*****
*
90 KK *      2C *      CNAME      2R
*
*****
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```
91 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS
```

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92 HC      HYDROGRAPH COMBINATION
          ICOMP      2      NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION 2C  
SUM OF 2 HYDROGRAPHS  
\*\*\*\*\*

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	85.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	119.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	133.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	139.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	170.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	240.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	327.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	408.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	602.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	1020.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1549.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	2025.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2190.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1947.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1545.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1248.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1019.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	711.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	391.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	175.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	75.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	34.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	14.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	5.	*	1	JAN	1200	49	6.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	37.	*	1	JAN	1215	50	2.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

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PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)			
+	2190.	9.25	675.	169.	164.
			(INCHES)	1.302	1.303
			(AC-FT)	335.	335.

CUMULATIVE AREA = 4.82 SQ MI

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*****
*
93 KK *      2R *      CNAME      2C
*
*****
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94 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS
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HYDROGRAPH ROUTING DATA

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95 RM      MUSKINGUM ROUTING
          NSTPS      1      NUMBER OF SUBREACHES
          AMSKK      0.11  MUSKINGUM K
          X           0.20  MUSKINGUM X
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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 2R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	63.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	106.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	128.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	137.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	155.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	208.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	289.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	374.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	510.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	825.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1317.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1827.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2143.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2079.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1725.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1366.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1113.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	850.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	527.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	259.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	110.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	48.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	22.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	3.	*	1	JAN	1200	49	9.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	21.	*	1	JAN	1215	50	4.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

PEAK FLOW	TIME		MAXIMUM	AVERAGE FLOW		
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
2143.	9.25	(CFS)	675.	169.	164.	164.
		(INCHES)	1.301	1.303	1.303	1.303
		(AC-FT)	335.	335.	335.	335.

CUMULATIVE AREA = 4.82 SQ MI

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96 KK 1B

97 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

98 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.70 SUBBASIN AREA

PRECIPITATION DATA

101 PT TOTAL STORM STATIONS Gage  
 102 PW WEIGHTS 0.88  
 99 PR RECORDING STATIONS Gage  
 100 PW WEIGHTS 1.00  
 103 LS SCS LOSS RATE  
 STRTL 0.80 INITIAL ABSTRACTION  
 CRVNBR 71.35 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA  
 104 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.29 LAG

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PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT Event.out  
 Gage 3.90 0.00 0.88

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
 0.00 0.00 0.00 0.03 0.03 0.03 0.02 0.02 0.03  
 0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03  
 0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12  
 0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES

528. 755. 321. 122. 46. 18. 7. 2.

HYDROGRAPH AT STATION 1B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.03	0.03	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.03	0.03	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.03	0.03	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.01	3.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.17	0.02	16.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	24.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	22.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	22.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.01	24.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.03	35.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.09	0.04	52.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.08	0.04	64.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.05	73.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.22	0.16	139.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.19	0.19	241.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.17	0.21	311.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.15	0.23	361.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.05	0.08	313.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.04	0.08	214.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.08	173.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.08	159.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	110.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	44.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	17.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	6.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	2.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	1.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.55, TOTAL EXCESS = 1.35

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(CFS)	(CFS)	(CFS)
361.	9.00	101.	25.	24.	24.
		(INCHES)	1.348	1.348	1.348
		(AC-FT)	50.	50.	50.
CUMULATIVE AREA =		0.70 SQ MI			

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 \* \*  
 105 KK \* 1C \* CNAME 1C

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106 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

107 HC HYDROGRAPH COMBINATION  
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 1C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	87.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	128.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	150.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	160.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	190.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	259.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	353.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	447.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	648.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	1066.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1628.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	2188.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2456.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2293.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1898.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1524.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1223.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	894.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	544.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	265.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	112.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	49.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	22.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	6.	*	1	JAN	1200	49	9.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	37.	*	1	JAN	1215	50	4.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
2456.	9.25	776.	194.	188.	188.	188.
		(INCHES)	1.307	1.309	1.309	1.309
		(AC-FT)	385.	385.	385.	385.

CUMULATIVE AREA = 5.52 SQ MI

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\* \*  
108 KK 1C \* CNAME 1C  
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109 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

110 RN NO ROUTING

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HYDROGRAPH AT STATION 1C

Event.out

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	87.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	128.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	150.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	160.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	190.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	259.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	353.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	447.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	648.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	1066.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1628.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	2188.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2456.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2293.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1898.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1524.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1223.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	894.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	544.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	265.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	112.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	49.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	22.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	6.	*	1	JAN	1200	49	9.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	37.	*	1	JAN	1215	50	4.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)				
+	2456.	776.	194.	188.	188.
	(INCHES)	1.307	1.309	1.309	1.309
	(AC-FT)	385.	385.	385.	385.
CUMULATIVE AREA =		5.52 SQ MI			

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
+	HYDROGRAPH AT			6-HOUR	24-HOUR	72-HOUR	
+		5bB	445.	9.25	136.	34.	33.
+	HYDROGRAPH AT						0.97
+		5aB	273.	9.00	76.	19.	18.
+	2 COMBINED AT						0.54
+		5C	705.	9.00	211.	53.	51.
+	ROUTED TO						1.52
+		5R	701.	9.25	211.	53.	51.
+	HYDROGRAPH AT						1.52
+		4aB	396.	9.25	120.	30.	29.
+	HYDROGRAPH AT						0.86
+		4bB	292.	9.00	85.	21.	21.
+	3 COMBINED AT						0.61
+		4C	1374.	9.25	416.	104.	101.
+	ROUTED TO						2.99
+		4R	1377.	9.25	416.	104.	101.
+	HYDROGRAPH AT						2.99
+		3B	484.	9.00	139.	35.	34.
+	2 COMBINED AT						0.99
+		3C	1828.	9.25	555.	139.	135.
+	ROUTED TO						3.98
+		3R	1814.	9.25	555.	139.	135.
+	HYDROGRAPH AT						3.98
+		2B	428.	9.00	120.	30.	29.
+	2 COMBINED AT						0.84
+		2C	2190.	9.25	675.	169.	164.
+	ROUTED TO						4.82
+		2R	2143.	9.25	675.	169.	164.
+	HYDROGRAPH AT						4.82
+		1B	361.	9.00	101.	25.	24.
+	2 COMBINED AT						0.70
+		1C	2456.	9.25	776.	194.	188.
							5.52

				Event.out				
+	ROUTED TO	1C	2456.	9.25	776.	194.	188.	5.52

\*\*\* NORMAL END OF HEC-1 \*\*\*

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*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
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*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.  
 THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION  
 NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,  
 DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION  
 KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

LINE	ID	.....1	.....2	.....3	.....4	.....5	.....6	.....7	.....8	.....9	.....10
1	ID	Seng Creek									
2	ID	wo Mining & wo Logging (Scenario 4), USGS DEM Data									
3	ID	25 yr Storm									
4	IT	15	1JAN94	0	100						
5	IO	1									
6	KK	5bB									
7	KO	0	0	0.0	1	22					
8	BA	0.9747									
9	PB	4.65									
10	IN	6	1JAN94	0							
		* typeII-24hour									
11	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
12	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
13	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
14	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
15	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
16	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
17	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
18	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
19	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
20	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
21	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
22	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
23	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
24	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
25	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
26	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
27	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
28	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
29	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
30	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
31	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
32	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
33	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
34	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
35	PC	1.0									
36	LS	0.0	70.5	0.0							
37	UD	0.4358									
38	KK	5aB									
39	KO	0	0	0.0	1	22					
40	BA	0.5424									
41	PB	4.65									
42	IN	6	1JAN94	0							
		* typeII-24hour									
43	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
44	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
45	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
46	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
47	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
48	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
49	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
50	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178

HEC-1 INPUT

LINE	ID	.....1	.....2	.....3	.....4	.....5	.....6	.....7	.....8	.....9	.....10
51	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439



25yr.out											
52	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
53	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
54	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
55	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
56	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
57	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
58	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
59	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
60	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
61	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
62	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
63	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
64	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
65	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
66	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
67	PC	1.0									
68	LS	0.0	70.5	0.0							
69	UD	0.2908									
70	KK	5C	CNAME	5R							
71	KO	0	0	0.0	0	22					
72	HC	2									
73	KK	5R	CNAME	5C							
74	KO	0	0	0.0	0	22					
75	RM	1	0.126	0.2							
76	KK	4aB									
77	KO	0	0	0.0	1	22					
78	BA	0.8649									
79	PB	4.65									
80	IN	6	1JAN94	0							
81	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
82	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
83	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
84	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
85	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
86	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
87	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
88	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
89	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
90	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
91	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
92	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
93	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
94	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
95	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
96	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
97	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
98	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
99	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
100	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
101	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635

HEC-1 INPUT

PAGE 3

LINE	ID	1	2	3	4	5	6	7	8	9	10
102	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
103	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
104	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
105	PC	1.0									
106	LS	0.0	70.5	0.0							
107	UD	0.4078									
108	KK	4bB									
109	KO	0	0	0.0	1	22					
110	BA	0.6091									
111	PB	4.65									
112	IN	6	1JAN94	0							
113	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
114	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
115	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
116	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
117	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
118	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
119	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
120	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
121	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
122	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
123	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
124	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
125	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
126	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
127	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
128	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
129	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
130	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
131	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
132	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
133	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
134	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
135	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
136	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
137	PC	1.0									
138	LS	0.0	70.5	0.0							
139	UD	0.3512									

25yr.out

140	KK	4C	CNAME	4R		
141	KO	0	0	0.0	0	22
142	HC	3				
143	KK	4R	CNAME	4C		
144	KO	0	0	0.0	0	22
145	RM	1	0.091	0.2		
146	KK	3B				
147	KO	0	0	0.0	1	22
148	BA	0.99				
149	PB	4.65				
150	IN	6	1JAN94	0		

\* typeII-24hour

HEC-1 INPUT

PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

151	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
152	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
153	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
154	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
155	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
156	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
157	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
158	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
159	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
160	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
161	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
162	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
163	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
164	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
165	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
166	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
167	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
168	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
169	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
170	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
171	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
172	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
173	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
174	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
175	PC	1.0									
176	LS	0.0	70.71	0.0							
177	UD	0.3368									

178	KK	3C	CNAME	3R		
179	KO	0	0	0.0	0	22
180	HC	2				

181	KK	3R	CNAME	3C		
182	KO	0	0	0.0	0	22
183	RM	1	0.092	0.2		

184	KK	2B				
185	KO	0	0	0.0	1	22
186	BA	0.8395				
187	PB	4.65				
188	IN	6	1JAN94	0		

\* typeII-24hour

189	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
190	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
191	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
192	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
193	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
194	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
195	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
196	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
197	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
198	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
199	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
200	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
201	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656

HEC-1 INPUT

PAGE 5

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

202	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
203	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
204	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
205	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
206	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
207	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
208	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
209	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
210	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
211	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
212	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
213	PC	1.0									
214	LS	0.0	71.04	0.0							
215	UD	0.3008									

216	KK	2C	CNAME	2R		
217	KO	0	0	0.0	0	22
218	HC	2				

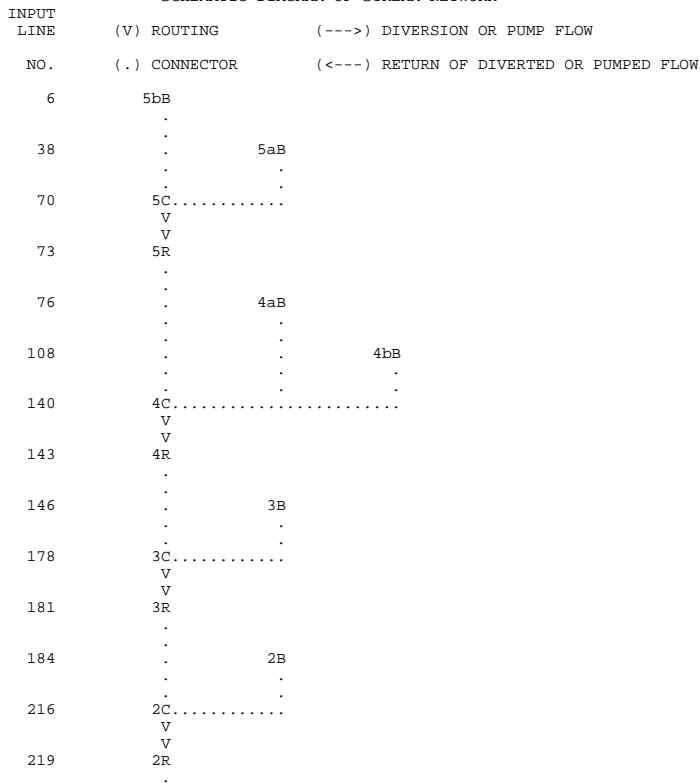
LINE	CODE	TYPE	CNAME	2C	0	22	25yr.out														
219	KK	2R	CNAME	2C																	
220	KO	0	0	0.0	0	22															
221	RM	1	0.107	0.2																	
222	KK	1B																			
223	KO	0	0	0.0	1	22															
224	BA	0.6967																			
225	PB	4.65																			
226	IN	6	1JAN94	0																	
227	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094										
228	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208										
229	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332										
230	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466										
231	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614										
232	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782										
233	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097										
234	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178										
235	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439										
236	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771										
237	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228										
238	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679										
239	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656										
240	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162										
241	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505										
242	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777										
243	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997										
244	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192										
245	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362										
246	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507										
247	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635										
248	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758										
249	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876										
250	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989										
251	PC	1.0																			
252	LS	0.0	71.35	0.0																	

HEC-1 INPUT

PAGE 6

LINE	ID	1	2	3	4	5	6	7	8	9	10
253	UD	0.2942									
254	KK	1C	CNAME	1C							
255	KO	0	0	0.0	0	22					
256	HC	2									
257	KK	1C	CNAME	1C							
258	KO	0	0	0.0	0	22					
259	RN	1C									
260	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK



222 . 1B  
. .  
. .  
254 1C.....  
V  
V  
257 1C

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1\*\*\*\*\*  
\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*  
\* MAY 1991 \*  
\* VERSION 4.0.1E \*  
\* RUN DATE TIME \*  
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\* U.S. ARMY CORPS OF ENGINEERS \*  
\* HYDROLOGIC ENGINEERING CENTER \*  
\* 609 SECOND STREET \*  
\* DAVIS, CALIFORNIA 95616 \*  
\* (916) 551-1748 \*  
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Seng Creek  
wo Mining & wo Logging (Scenario 4), USGS DEM Data  
25 yr Storm

5 IO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
  
IT HYDROGRAPH TIME DATA  
NMIN 15 MINUTES IN COMPUTATION INTERVAL  
IDATE 1JAN94 STARTING DATE  
ITIME 0000 STARTING TIME  
NQ 100 NUMBER OF HYDROGRAPH ORDINATES  
NDDATE 2JAN94 ENDING DATE  
NDTIME 0045 ENDING TIME  
ICENT 19 CENTURY MARK  
  
COMPUTATION INTERVAL 0.25 HOURS  
TOTAL TIME BASE 24.75 HOURS

ENGLISH UNITS  
DRAINAGE AREA SQUARE MILES  
PRECIPITATION DEPTH INCHES  
LENGTH, ELEVATION FEET  
FLOW CUBIC FEET PER SECOND  
STORAGE VOLUME ACRE-FEET  
SURFACE AREA ACRES  
TEMPERATURE DEGREES FAHRENHEIT

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\* 5bB \*  
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7 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

10 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

8 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.97 SUBBASIN AREA

PRECIPITATION DATA

9 PB STORM 4.65 BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

25yr.out  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00

36 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

37 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.44 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 11 END-OF-PERIOD ORDINATES  
 324. 832. 701. 339. 167. 81. 39. 19. 9. 5.  
 1.

HYDROGRAPH AT STATION 5bb

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.08	594.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.04	0.06	398.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	274.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	198.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	152.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	123.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	103.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	90.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	79.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	72.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	68.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	64.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	61.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	57.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	54.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	51.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	48.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	46.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	45.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	43.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	42.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	41.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.01	40.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	38.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	37.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	36.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.01	35.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.01	34.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	33.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	31.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	30.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	29.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	28.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.01	0.00	0.01	27.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.01	0.00	0.01	27.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	27.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	26.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	26.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	26.
1	JAN	0945	40	0.04	0.04	0.00	0.	*	1	JAN	2215	90	0.01	0.00	0.01	26.
1	JAN	1000	41	0.04	0.04	0.00	0.	*	1	JAN	2230	91	0.01	0.00	0.01	25.
1	JAN	1015	42	0.05	0.05	0.00	0.	*	1	JAN	2245	92	0.01	0.00	0.01	25.
1	JAN	1030	43	0.06	0.05	0.00	1.	*	1	JAN	2300	93	0.01	0.00	0.01	25.
1	JAN	1045	44	0.07	0.06	0.00	4.	*	1	JAN	2315	94	0.01	0.00	0.01	25.
1	JAN	1100	45	0.08	0.07	0.01	8.	*	1	JAN	2330	95	0.01	0.00	0.01	24.
1	JAN	1115	46	0.10	0.09	0.01	14.	*	1	JAN	2345	96	0.01	0.00	0.01	24.
1	JAN	1130	47	0.13	0.10	0.02	25.	*	2	JAN	0000	97	0.01	0.00	0.01	24.
1	JAN	1145	48	0.51	0.37	0.14	76.	*	2	JAN	0015	98	0.00	0.00	0.00	21.
1	JAN	1200	49	1.26	0.66	0.60	330.	*	2	JAN	0030	99	0.00	0.00	0.00	13.
1	JAN	1215	50	0.20	0.08	0.12	641.	*	2	JAN	0045	100	0.00	0.00	0.00	6.

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.83, TOTAL EXCESS = 1.82

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
641.	12.25	154.	48.	46.	46.	
		(INCHES)	1.471	1.815	1.815	1.815
		(AC-FT)	76.	94.	94.	94.

CUMULATIVE AREA = 0.97 SQ MI

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\* 5aB \*  
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39 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

42 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

40 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.54 SUBBASIN AREA

PRECIPITATION DATA

41 PB STORM 4.65 BASIN TOTAL PRECIPITATION

43 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

68 LS SCS LOSS RATE  
STRTL 0.84 INITIAL ABSTRACTION  
CRVNR 70.50 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

69 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.29 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
8 END-OF-PERIOD ORDINATES  
419. 588. 246. 93. 35. 13. 5. 1.

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HYDROGRAPH AT STATION 5aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.08	264.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.04	0.06	162.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	109.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	82.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	66.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	56.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	49.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	44.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	40.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	38.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	36.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	34.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	32.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	30.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	29.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	27.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	26.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	25.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	24.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	24.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	23.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	22.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.01	22.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	21.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	20.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	20.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.01	19.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.01	18.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	18.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	17.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	16.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	16.

25yr.out												
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	15.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	15.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	15.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	15.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	14.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	14.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	14.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	14.
1 JAN 1000	41	0.04	0.04	0.00	0.	*	1 JAN 2230	91	0.01	0.00	0.01	14.
1 JAN 1015	42	0.05	0.05	0.00	0.	*	1 JAN 2245	92	0.01	0.00	0.01	14.
1 JAN 1030	43	0.06	0.05	0.00	1.	*	1 JAN 2300	93	0.01	0.00	0.01	14.
1 JAN 1045	44	0.07	0.06	0.00	3.	*	1 JAN 2315	94	0.01	0.00	0.01	14.
1 JAN 1100	45	0.08	0.07	0.01	6.	*	1 JAN 2330	95	0.01	0.00	0.01	13.
1 JAN 1115	46	0.10	0.09	0.01	11.	*	1 JAN 2345	96	0.01	0.00	0.01	13.
1 JAN 1130	47	0.13	0.10	0.02	19.	*	2 JAN 0000	97	0.01	0.00	0.01	13.
1 JAN 1145	48	0.51	0.37	0.14	75.	*	2 JAN 0015	98	0.00	0.00	0.00	9.
1 JAN 1200	49	1.26	0.66	0.60	339.	*	2 JAN 0030	99	0.00	0.00	0.00	4.
1 JAN 1215	50	0.20	0.08	0.12	436.	*	2 JAN 0045	100	0.00	0.00	0.00	1.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.83, TOTAL EXCESS = 1.82

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
436.	12.25	86.	27.	26.	26.	
		(INCHES)	1.477	1.817	1.817	1.817
		(AC-FT)	43.	53.	53.	53.

CUMULATIVE AREA = 0.54 SQ MI

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70 KK * 5C * CNAME 5R
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71 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

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72 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 5C  
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	858.	1	JAN	1845	76	56.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	560.	1	JAN	1900	77	54.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	383.	1	JAN	1915	78	52.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	279.	1	JAN	1930	79	50.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	218.	1	JAN	1945	80	48.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	179.	1	JAN	2000	81	46.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	152.	1	JAN	2015	82	44.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	133.	1	JAN	2030	83	43.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	119.	1	JAN	2045	84	42.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	110.	1	JAN	2100	85	42.
1	JAN	0230	11	0.	1	JAN	0845	36	0.	1	JAN	1500	61	104.	1	JAN	2115	86	41.
1	JAN	0245	12	0.	1	JAN	0900	37	0.	1	JAN	1515	62	98.	1	JAN	2130	87	41.
1	JAN	0300	13	0.	1	JAN	0915	38	0.	1	JAN	1530	63	93.	1	JAN	2145	88	40.
1	JAN	0315	14	0.	1	JAN	0930	39	0.	1	JAN	1545	64	88.	1	JAN	2200	89	40.
1	JAN	0330	15	0.	1	JAN	0945	40	0.	1	JAN	1600	65	83.	1	JAN	2215	90	40.
1	JAN	0345	16	0.	1	JAN	1000	41	0.	1	JAN	1615	66	78.	1	JAN	2230	91	39.
1	JAN	0400	17	0.	1	JAN	1015	42	1.	1	JAN	1630	67	74.	1	JAN	2245	92	39.
1	JAN	0415	18	0.	1	JAN	1030	43	3.	1	JAN	1645	68	71.	1	JAN	2300	93	39.
1	JAN	0430	19	0.	1	JAN	1045	44	7.	1	JAN	1700	69	69.	1	JAN	2315	94	38.
1	JAN	0445	20	0.	1	JAN	1100	45	14.	1	JAN	1715	70	67.	1	JAN	2330	95	38.
1	JAN	0500	21	0.	1	JAN	1115	46	25.	1	JAN	1730	71	65.	1	JAN	2345	96	37.
1	JAN	0515	22	0.	1	JAN	1130	47	44.	1	JAN	1745	72	63.	2	JAN	0000	97	37.
1	JAN	0530	23	0.	1	JAN	1145	48	151.	1	JAN	1800	73	61.	2	JAN	0015	98	30.
1	JAN	0545	24	0.	1	JAN	1200	49	669.	1	JAN	1815	74	59.	2	JAN	0030	99	17.
1	JAN	0600	25	0.	1	JAN	1215	50	1078.	1	JAN	1830	75	57.	2	JAN	0045	100	8.

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW

25yr.out  
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
+ 1078. 12.25 (CFS) 240. 74. 72. 72.  
(INCHES) 1.473 1.815 1.815 1.815  
(AC-FT) 119. 147. 147. 147.  
CUMULATIVE AREA = 1.52 SQ MI

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\* \*  
73 KK \* 5R \* CNAME 5C  
\* \*  
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74 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

75 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.13 MUSKINGUM K  
X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 5R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	1002.	*	1	JAN	1845	76	57.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	711.	*	1	JAN	1900	77	55.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	466.	*	1	JAN	1915	78	53.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	329.	*	1	JAN	1930	79	51.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	247.	*	1	JAN	1945	80	49.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	198.	*	1	JAN	2000	81	47.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	165.	*	1	JAN	2015	82	45.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	143.	*	1	JAN	2030	83	44.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	126.	*	1	JAN	2045	84	42.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	114.	*	1	JAN	2100	85	42.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	107.	*	1	JAN	2115	86	42.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	101.	*	1	JAN	2130	87	41.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	95.	*	1	JAN	2145	88	40.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	90.	*	1	JAN	2200	89	40.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	0.	*	1	JAN	1600	65	85.	*	1	JAN	2215	90	40.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	0.	*	1	JAN	1615	66	80.	*	1	JAN	2230	91	40.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	0.	*	1	JAN	1630	67	76.	*	1	JAN	2245	92	39.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	1.	*	1	JAN	1645	68	72.	*	1	JAN	2300	93	39.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	5.	*	1	JAN	1700	69	70.	*	1	JAN	2315	94	39.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	10.	*	1	JAN	1715	70	68.	*	1	JAN	2330	95	38.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	20.	*	1	JAN	1730	71	66.	*	1	JAN	2345	96	38.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	34.	*	1	JAN	1745	72	64.	*	2	JAN	0000	97	37.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	92.	*	1	JAN	1800	73	62.	*	2	JAN	0015	98	34.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	386.	*	1	JAN	1815	74	60.	*	2	JAN	0030	99	24.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	880.	*	1	JAN	1830	75	58.	*	2	JAN	0045	100	12.	*

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
+ 1002. 12.50 (CFS) 240. 74. 72. 72.  
(INCHES) 1.469 1.814 1.814 1.814  
(AC-FT) 119. 147. 147. 147.  
CUMULATIVE AREA = 1.52 SQ MI

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\* \*  
76 KK \* 4aB \*  
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77 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

80 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

78 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.86 SUBBASIN AREA

PRECIPITATION DATA

79 PB STORM 4.65 BASIN TOTAL PRECIPITATION

81 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

106 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

107 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.41 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES  
 332. 783. 609. 271. 129. 59. 28. 13. 7. 2.

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HYDROGRAPH AT STATION 4aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.14	0.05	0.08	524.	
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.09	0.04	0.06	337.	
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.08	0.03	0.05	230.	
1	JAN	0045	4	0.01	0.01	0.00	0.	*		1	JAN	1315	54	0.07	0.02	0.04	166.	
1	JAN	0100	5	0.01	0.01	0.00	0.	*		1	JAN	1330	55	0.06	0.02	0.04	128.	
1	JAN	0115	6	0.01	0.01	0.00	0.	*		1	JAN	1345	56	0.05	0.02	0.03	105.	
1	JAN	0130	7	0.01	0.01	0.00	0.	*		1	JAN	1400	57	0.05	0.02	0.03	89.	
1	JAN	0145	8	0.01	0.01	0.00	0.	*		1	JAN	1415	58	0.04	0.01	0.03	77.	
1	JAN	0200	9	0.01	0.01	0.00	0.	*		1	JAN	1430	59	0.04	0.01	0.03	68.	
1	JAN	0215	10	0.01	0.01	0.00	0.	*		1	JAN	1445	60	0.04	0.01	0.03	63.	
1	JAN	0230	11	0.01	0.01	0.00	0.	*		1	JAN	1500	61	0.04	0.01	0.02	59.	
1	JAN	0245	12	0.01	0.01	0.00	0.	*		1	JAN	1515	62	0.03	0.01	0.02	56.	
1	JAN	0300	13	0.01	0.01	0.00	0.	*		1	JAN	1530	63	0.03	0.01	0.02	53.	
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.03	0.01	0.02	50.	
1	JAN	0330	15	0.02	0.02	0.00	0.	*		1	JAN	1600	65	0.03	0.01	0.02	47.	
1	JAN	0345	16	0.02	0.02	0.00	0.	*		1	JAN	1615	66	0.03	0.01	0.02	45.	
1	JAN	0400	17	0.02	0.02	0.00	0.	*		1	JAN	1630	67	0.03	0.01	0.02	42.	
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.02	0.01	0.02	41.	
1	JAN	0430	19	0.02	0.02	0.00	0.	*		1	JAN	1700	69	0.02	0.01	0.02	39.	
1	JAN	0445	20	0.02	0.02	0.00	0.	*		1	JAN	1715	70	0.02	0.01	0.02	38.	
1	JAN	0500	21	0.02	0.02	0.00	0.	*		1	JAN	1730	71	0.02	0.01	0.02	37.	
1	JAN	0515	22	0.02	0.02	0.00	0.	*		1	JAN	1745	72	0.02	0.01	0.02	36.	
1	JAN	0530	23	0.02	0.02	0.00	0.	*		1	JAN	1800	73	0.02	0.01	0.01	35.	
1	JAN	0545	24	0.02	0.02	0.00	0.	*		1	JAN	1815	74	0.02	0.01	0.01	34.	
1	JAN	0600	25	0.02	0.02	0.00	0.	*		1	JAN	1830	75	0.02	0.01	0.01	33.	
1	JAN	0615	26	0.02	0.02	0.00	0.	*		1	JAN	1845	76	0.02	0.01	0.01	32.	
1	JAN	0630	27	0.02	0.02	0.00	0.	*		1	JAN	1900	77	0.02	0.01	0.01	31.	
1	JAN	0645	28	0.02	0.02	0.00	0.	*		1	JAN	1915	78	0.02	0.01	0.01	30.	
1	JAN	0700	29	0.02	0.02	0.00	0.	*		1	JAN	1930	79	0.02	0.00	0.01	29.	
1	JAN	0715	30	0.02	0.02	0.00	0.	*		1	JAN	1945	80	0.02	0.00	0.01	28.	
1	JAN	0730	31	0.02	0.02	0.00	0.	*		1	JAN	2000	81	0.02	0.00	0.01	27.	
1	JAN	0745	32	0.02	0.02	0.00	0.	*		1	JAN	2015	82	0.02	0.00	0.01	25.	
1	JAN	0800	33	0.03	0.03	0.00	0.	*		1	JAN	2030	83	0.01	0.00	0.01	25.	
1	JAN	0815	34	0.03	0.03	0.00	0.	*		1	JAN	2045	84	0.01	0.00	0.01	24.	
1	JAN	0830	35	0.03	0.03	0.00	0.	*		1	JAN	2100	85	0.01	0.00	0.01	24.	
1	JAN	0845	36	0.03	0.03	0.00	0.	*		1	JAN	2115	86	0.01	0.00	0.01	24.	

25yr.out												
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	23.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	23.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	23.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	23.
1 JAN 1000	41	0.04	0.04	0.00	0.	*	1 JAN 2230	91	0.01	0.00	0.01	22.
1 JAN 1015	42	0.05	0.05	0.00	0.	*	1 JAN 2245	92	0.01	0.00	0.01	22.
1 JAN 1030	43	0.06	0.05	0.00	1.	*	1 JAN 2300	93	0.01	0.00	0.01	22.
1 JAN 1045	44	0.07	0.06	0.00	4.	*	1 JAN 2315	94	0.01	0.00	0.01	22.
1 JAN 1100	45	0.08	0.07	0.01	7.	*	1 JAN 2330	95	0.01	0.00	0.01	22.
1 JAN 1115	46	0.10	0.09	0.01	13.	*	1 JAN 2345	96	0.01	0.00	0.01	21.
1 JAN 1130	47	0.13	0.10	0.02	23.	*	2 JAN 0000	97	0.01	0.00	0.01	21.
1 JAN 1145	48	0.51	0.37	0.14	74.	*	2 JAN 0015	98	0.00	0.00	0.00	18.
1 JAN 1200	49	1.26	0.66	0.60	325.	*	2 JAN 0030	99	0.00	0.00	0.00	11.
1 JAN 1215	50	0.20	0.08	0.12	599.	*	2 JAN 0045	100	0.00	0.00	0.00	5.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.83, TOTAL EXCESS = 1.82

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
+ 599.	12.25	(CFS)	137.	42.	41.	41.
		(INCHES)	1.472	1.815	1.815	1.815
		(AC-FT)	68.	84.	84.	84.

CUMULATIVE AREA = 0.86 SQ MI

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\* \*  
108 KK \* 4bB \*  
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109 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

112 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

110 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.61 SUBBASIN AREA

PRECIPITATION DATA

111 PB STORM 4.65 BASIN TOTAL PRECIPITATION

113 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

138 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

139 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.35 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES

322.	620.	368.	152.	64.	27.	12.	5.	2.
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HYDROGRAPH AT STATION 4bB

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25yr.out

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.14	0.05	0.08	341.	*
1	JAN	0015	2	0.01	0.01	0.00	0.	*	*	1	JAN	1245	52	0.09	0.04	0.06	213.	*
1	JAN	0030	3	0.01	0.01	0.00	0.	*	*	1	JAN	1300	53	0.08	0.03	0.05	143.	*
1	JAN	0045	4	0.01	0.01	0.00	0.	*	*	1	JAN	1315	54	0.07	0.02	0.04	104.	*
1	JAN	0100	5	0.01	0.01	0.00	0.	*	*	1	JAN	1330	55	0.06	0.02	0.04	82.	*
1	JAN	0115	6	0.01	0.01	0.00	0.	*	*	1	JAN	1345	56	0.05	0.02	0.03	68.	*
1	JAN	0130	7	0.01	0.01	0.00	0.	*	*	1	JAN	1400	57	0.05	0.02	0.03	58.	*
1	JAN	0145	8	0.01	0.01	0.00	0.	*	*	1	JAN	1415	58	0.04	0.01	0.03	51.	*
1	JAN	0200	9	0.01	0.01	0.00	0.	*	*	1	JAN	1430	59	0.04	0.01	0.03	47.	*
1	JAN	0215	10	0.01	0.01	0.00	0.	*	*	1	JAN	1445	60	0.04	0.01	0.03	43.	*
1	JAN	0230	11	0.01	0.01	0.00	0.	*	*	1	JAN	1500	61	0.04	0.01	0.02	41.	*
1	JAN	0245	12	0.01	0.01	0.00	0.	*	*	1	JAN	1515	62	0.03	0.01	0.02	39.	*
1	JAN	0300	13	0.01	0.01	0.00	0.	*	*	1	JAN	1530	63	0.03	0.01	0.02	37.	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*	*	1	JAN	1545	64	0.03	0.01	0.02	35.	*
1	JAN	0330	15	0.02	0.02	0.00	0.	*	*	1	JAN	1600	65	0.03	0.01	0.02	33.	*
1	JAN	0345	16	0.02	0.02	0.00	0.	*	*	1	JAN	1615	66	0.03	0.01	0.02	31.	*
1	JAN	0400	17	0.02	0.02	0.00	0.	*	*	1	JAN	1630	67	0.03	0.01	0.02	29.	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*	*	1	JAN	1645	68	0.02	0.01	0.02	28.	*
1	JAN	0430	19	0.02	0.02	0.00	0.	*	*	1	JAN	1700	69	0.02	0.01	0.02	28.	*
1	JAN	0445	20	0.02	0.02	0.00	0.	*	*	1	JAN	1715	70	0.02	0.01	0.02	27.	*
1	JAN	0500	21	0.02	0.02	0.00	0.	*	*	1	JAN	1730	71	0.02	0.01	0.02	26.	*
1	JAN	0515	22	0.02	0.02	0.00	0.	*	*	1	JAN	1745	72	0.02	0.01	0.02	25.	*
1	JAN	0530	23	0.02	0.02	0.00	0.	*	*	1	JAN	1800	73	0.02	0.01	0.01	24.	*
1	JAN	0545	24	0.02	0.02	0.00	0.	*	*	1	JAN	1815	74	0.02	0.01	0.01	24.	*
1	JAN	0600	25	0.02	0.02	0.00	0.	*	*	1	JAN	1830	75	0.02	0.01	0.01	23.	*
1	JAN	0615	26	0.02	0.02	0.00	0.	*	*	1	JAN	1845	76	0.02	0.01	0.01	22.	*
1	JAN	0630	27	0.02	0.02	0.00	0.	*	*	1	JAN	1900	77	0.02	0.01	0.01	21.	*
1	JAN	0645	28	0.02	0.02	0.00	0.	*	*	1	JAN	1915	78	0.02	0.01	0.01	21.	*
1	JAN	0700	29	0.02	0.02	0.00	0.	*	*	1	JAN	1930	79	0.02	0.00	0.01	20.	*
1	JAN	0715	30	0.02	0.02	0.00	0.	*	*	1	JAN	1945	80	0.02	0.00	0.01	19.	*
1	JAN	0730	31	0.02	0.02	0.00	0.	*	*	1	JAN	2000	81	0.02	0.00	0.01	18.	*
1	JAN	0745	32	0.02	0.02	0.00	0.	*	*	1	JAN	2015	82	0.02	0.00	0.01	18.	*
1	JAN	0800	33	0.03	0.03	0.00	0.	*	*	1	JAN	2030	83	0.01	0.00	0.01	17.	*
1	JAN	0815	34	0.03	0.03	0.00	0.	*	*	1	JAN	2045	84	0.01	0.00	0.01	17.	*
1	JAN	0830	35	0.03	0.03	0.00	0.	*	*	1	JAN	2100	85	0.01	0.00	0.01	17.	*
1	JAN	0845	36	0.03	0.03	0.00	0.	*	*	1	JAN	2115	86	0.01	0.00	0.01	17.	*
1	JAN	0900	37	0.04	0.04	0.00	0.	*	*	1	JAN	2130	87	0.01	0.00	0.01	16.	*
1	JAN	0915	38	0.04	0.04	0.00	0.	*	*	1	JAN	2145	88	0.01	0.00	0.01	16.	*
1	JAN	0930	39	0.04	0.04	0.00	0.	*	*	1	JAN	2200	89	0.01	0.00	0.01	16.	*
1	JAN	0945	40	0.04	0.04	0.00	0.	*	*	1	JAN	2215	90	0.01	0.00	0.01	16.	*
1	JAN	1000	41	0.04	0.04	0.00	0.	*	*	1	JAN	2230	91	0.01	0.00	0.01	16.	*
1	JAN	1015	42	0.05	0.05	0.00	0.	*	*	1	JAN	2245	92	0.01	0.00	0.01	16.	*
1	JAN	1030	43	0.06	0.05	0.00	1.	*	*	1	JAN	2300	93	0.01	0.00	0.01	16.	*
1	JAN	1045	44	0.07	0.06	0.00	3.	*	*	1	JAN	2315	94	0.01	0.00	0.01	15.	*
1	JAN	1100	45	0.08	0.07	0.01	6.	*	*	1	JAN	2330	95	0.01	0.00	0.01	15.	*
1	JAN	1115	46	0.10	0.09	0.01	11.	*	*	1	JAN	2345	96	0.01	0.00	0.01	15.	*
1	JAN	1130	47	0.13	0.10	0.02	19.	*	*	2	JAN	0000	97	0.01	0.00	0.01	15.	*
1	JAN	1145	48	0.51	0.37	0.14	65.	*	*	2	JAN	0015	98	0.00	0.00	0.00	12.	*
1	JAN	1200	49	1.26	0.66	0.60	289.	*	*	2	JAN	0030	99	0.00	0.00	0.00	6.	*
1	JAN	1215	50	0.20	0.08	0.12	463.	*	*	2	JAN	0045	100	0.00	0.00	0.00	2.	*

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.83, TOTAL EXCESS = 1.82

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)					
+	463.	12.25	97.	30.	29.	29.	29.
+			(INCHES)	1.474	1.816	1.816	1.816
			(AC-FT)	48.	59.	59.	59.

CUMULATIVE AREA = 0.61 SQ MI

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*****
* *
140 KK      4C *      CNAME      4R
* *
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141 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0      HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT      22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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142 HC      HYDROGRAPH COMBINATION
          ICOMP      3      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4C

25yr.out  
SUM OF 3 HYDROGRAPHS

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*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
1 JAN 0000 1 0. * 1 JAN 0615 26 0. * 1 JAN 1230 51 1867. * 1 JAN 1845 76 111.
1 JAN 0015 2 0. * 1 JAN 0630 27 0. * 1 JAN 1245 52 1261. * 1 JAN 1900 77 107.
1 JAN 0030 3 0. * 1 JAN 0645 28 0. * 1 JAN 1300 53 838. * 1 JAN 1915 78 103.
1 JAN 0045 4 0. * 1 JAN 0700 29 0. * 1 JAN 1315 54 598. * 1 JAN 1930 79 100.
1 JAN 0100 5 0. * 1 JAN 0715 30 0. * 1 JAN 1330 55 457. * 1 JAN 1945 80 96.
1 JAN 0115 6 0. * 1 JAN 0730 31 0. * 1 JAN 1345 56 371. * 1 JAN 2000 81 92.
1 JAN 0130 7 0. * 1 JAN 0745 32 0. * 1 JAN 1400 57 313. * 1 JAN 2015 82 88.
1 JAN 0145 8 0. * 1 JAN 0800 33 0. * 1 JAN 1415 58 271. * 1 JAN 2030 83 85.
1 JAN 0200 9 0. * 1 JAN 0815 34 0. * 1 JAN 1430 59 241. * 1 JAN 2045 84 83.
1 JAN 0215 10 0. * 1 JAN 0830 35 0. * 1 JAN 1445 60 221. * 1 JAN 2100 85 82.
1 JAN 0230 11 0. * 1 JAN 0845 36 0. * 1 JAN 1500 61 207. * 1 JAN 2115 86 82.
1 JAN 0245 12 0. * 1 JAN 0900 37 0. * 1 JAN 1515 62 196. * 1 JAN 2130 87 80.
1 JAN 0300 13 0. * 1 JAN 0915 38 0. * 1 JAN 1530 63 185. * 1 JAN 2145 88 80.
1 JAN 0315 14 0. * 1 JAN 0930 39 0. * 1 JAN 1545 64 175. * 1 JAN 2200 89 79.
1 JAN 0330 15 0. * 1 JAN 0945 40 0. * 1 JAN 1600 65 165. * 1 JAN 2215 90 79.
1 JAN 0345 16 0. * 1 JAN 1000 41 0. * 1 JAN 1615 66 156. * 1 JAN 2230 91 78.
1 JAN 0400 17 0. * 1 JAN 1015 42 1. * 1 JAN 1630 67 147. * 1 JAN 2245 92 77.
1 JAN 0415 18 0. * 1 JAN 1030 43 4. * 1 JAN 1645 68 141. * 1 JAN 2300 93 76.
1 JAN 0430 19 0. * 1 JAN 1045 44 11. * 1 JAN 1700 69 137. * 1 JAN 2315 94 76.
1 JAN 0445 20 0. * 1 JAN 1100 45 24. * 1 JAN 1715 70 133. * 1 JAN 2330 95 75.
1 JAN 0500 21 0. * 1 JAN 1115 46 44. * 1 JAN 1730 71 129. * 1 JAN 2345 96 74.
1 JAN 0515 22 0. * 1 JAN 1130 47 76. * 1 JAN 1745 72 125. * 2 JAN 0000 97 74.
1 JAN 0530 23 0. * 1 JAN 1145 48 231. * 1 JAN 1800 73 122. * 2 JAN 0015 98 64.
1 JAN 0545 24 0. * 1 JAN 1200 49 1000. * 1 JAN 1815 74 118. * 2 JAN 0030 99 40.
1 JAN 0600 25 0. * 1 JAN 1215 50 1941. * 1 JAN 1830 75 114. * 2 JAN 0045 100 19.
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PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR
+ 1941. 12.25 (CFS) 473. 146. 142. 142.
(INCHES) 1.471 1.815 1.815 1.815
(AC-FT) 235. 290. 290. 290.
CUMULATIVE AREA = 2.99 SQ MI

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*****
*
143 KK * 4R * CNAME 4C
*
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144 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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145 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.09 MUSKINGUM K
X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 4R

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*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
1 JAN 0000 1 0. * 1 JAN 0615 26 0. * 1 JAN 1230 51 1992. * 1 JAN 1845 76 112.
1 JAN 0015 2 0. * 1 JAN 0630 27 0. * 1 JAN 1245 52 1507. * 1 JAN 1900 77 108.
1 JAN 0030 3 0. * 1 JAN 0645 28 0. * 1 JAN 1300 53 968. * 1 JAN 1915 78 104.
1 JAN 0045 4 0. * 1 JAN 0700 29 0. * 1 JAN 1315 54 675. * 1 JAN 1930 79 101.
1 JAN 0100 5 0. * 1 JAN 0715 30 0. * 1 JAN 1330 55 502. * 1 JAN 1945 80 97.
1 JAN 0115 6 0. * 1 JAN 0730 31 0. * 1 JAN 1345 56 399. * 1 JAN 2000 81 94.
1 JAN 0130 7 0. * 1 JAN 0745 32 0. * 1 JAN 1400 57 332. * 1 JAN 2015 82 90.
1 JAN 0145 8 0. * 1 JAN 0800 33 0. * 1 JAN 1415 58 285. * 1 JAN 2030 83 86.
1 JAN 0200 9 0. * 1 JAN 0815 34 0. * 1 JAN 1430 59 251. * 1 JAN 2045 84 84.
1 JAN 0215 10 0. * 1 JAN 0830 35 0. * 1 JAN 1445 60 228. * 1 JAN 2100 85 83.
1 JAN 0230 11 0. * 1 JAN 0845 36 0. * 1 JAN 1500 61 212. * 1 JAN 2115 86 82.
1 JAN 0245 12 0. * 1 JAN 0900 37 0. * 1 JAN 1515 62 200. * 1 JAN 2130 87 81.
1 JAN 0300 13 0. * 1 JAN 0915 38 0. * 1 JAN 1530 63 189. * 1 JAN 2145 88 80.
*****

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25yr.out														
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	179.	*	1 JAN 2200	89	79.
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	169.	*	1 JAN 2215	90	79.
1 JAN 0345	16	0.	*	1 JAN 1000	41	0.	*	1 JAN 1615	66	159.	*	1 JAN 2230	91	78.
1 JAN 0400	17	0.	*	1 JAN 1015	42	0.	*	1 JAN 1630	67	150.	*	1 JAN 2245	92	77.
1 JAN 0415	18	0.	*	1 JAN 1030	43	3.	*	1 JAN 1645	68	143.	*	1 JAN 2300	93	76.
1 JAN 0430	19	0.	*	1 JAN 1045	44	8.	*	1 JAN 1700	69	139.	*	1 JAN 2315	94	76.
1 JAN 0445	20	0.	*	1 JAN 1100	45	19.	*	1 JAN 1715	70	134.	*	1 JAN 2330	95	75.
1 JAN 0500	21	0.	*	1 JAN 1115	46	36.	*	1 JAN 1730	71	130.	*	1 JAN 2345	96	74.
1 JAN 0515	22	0.	*	1 JAN 1130	47	63.	*	1 JAN 1745	72	127.	*	2 JAN 0000	97	74.
1 JAN 0530	23	0.	*	1 JAN 1145	48	163.	*	1 JAN 1800	73	123.	*	2 JAN 0015	98	68.
1 JAN 0545	24	0.	*	1 JAN 1200	49	664.	*	1 JAN 1815	74	119.	*	2 JAN 0030	99	50.
1 JAN 0600	25	0.	*	1 JAN 1215	50	1597.	*	1 JAN 1830	75	115.	*	2 JAN 0045	100	26.

\*\*\*\*\*

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
1992.	12.50	473.	146.	141.	141.
		1.470	1.814	1.814	1.814
		234.	289.	289.	289.

CUMULATIVE AREA = 2.99 SQ MI

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 \* \*  
 146 KK \* 3B \*  
 \* \*  
 \*\*\*\*\*

147 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

150 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

148 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.99 SUBBASIN AREA

PRECIPITATION DATA

149 PB STORM 4.65 BASIN TOTAL PRECIPITATION

151 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

176 LS SCS LOSS RATE  
 STRTL 0.83 INITIAL ABSTRACTION  
 CRVNR 70.71 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

177 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.34 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH											
9 END-OF-PERIOD ORDINATES											
573.	1035.	560.	229.	95.	39.	16.	7.	1.			

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HYDROGRAPH AT STATION 3B

*****																			
DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.14	0.05	0.08	542.	*	

25yr.out												
1 JAN 0015	2	0.01	0.01	0.00	0.	*	1 JAN 1245	52	0.09	0.03	0.06	338.
1 JAN 0030	3	0.01	0.01	0.00	0.	*	1 JAN 1300	53	0.08	0.03	0.05	226.
1 JAN 0045	4	0.01	0.01	0.00	0.	*	1 JAN 1315	54	0.07	0.02	0.04	165.
1 JAN 0100	5	0.01	0.01	0.00	0.	*	1 JAN 1330	55	0.06	0.02	0.04	131.
1 JAN 0115	6	0.01	0.01	0.00	0.	*	1 JAN 1345	56	0.05	0.02	0.03	110.
1 JAN 0130	7	0.01	0.01	0.00	0.	*	1 JAN 1400	57	0.05	0.02	0.03	94.
1 JAN 0145	8	0.01	0.01	0.00	0.	*	1 JAN 1415	58	0.04	0.01	0.03	83.
1 JAN 0200	9	0.01	0.01	0.00	0.	*	1 JAN 1430	59	0.04	0.01	0.03	76.
1 JAN 0215	10	0.01	0.01	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	71.
1 JAN 0230	11	0.01	0.01	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.02	67.
1 JAN 0245	12	0.01	0.01	0.00	0.	*	1 JAN 1515	62	0.03	0.01	0.02	63.
1 JAN 0300	13	0.01	0.01	0.00	0.	*	1 JAN 1530	63	0.03	0.01	0.02	60.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.03	0.01	0.02	57.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	53.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	50.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	48.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.02	0.01	0.02	46.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.02	0.01	0.02	45.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.02	0.01	0.02	44.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.02	0.01	0.02	42.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.02	0.01	0.02	41.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.01	40.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.01	39.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.01	37.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.01	36.
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.01	0.01	35.
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.01	0.01	34.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	33.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	31.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	30.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	29.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	28.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	27.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	27.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	27.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	27.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	26.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	26.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	26.
1 JAN 1000	41	0.04	0.04	0.00	0.	*	1 JAN 2230	91	0.01	0.00	0.01	26.
1 JAN 1015	42	0.05	0.05	0.00	1.	*	1 JAN 2245	92	0.01	0.00	0.01	25.
1 JAN 1030	43	0.06	0.05	0.00	2.	*	1 JAN 2300	93	0.01	0.00	0.01	25.
1 JAN 1045	44	0.07	0.06	0.00	6.	*	1 JAN 2315	94	0.01	0.00	0.01	25.
1 JAN 1100	45	0.08	0.07	0.01	11.	*	1 JAN 2330	95	0.01	0.00	0.01	25.
1 JAN 1115	46	0.10	0.08	0.01	19.	*	1 JAN 2345	96	0.01	0.00	0.01	24.
1 JAN 1130	47	0.13	0.10	0.02	32.	*	2 JAN 0000	97	0.01	0.00	0.01	24.
1 JAN 1145	48	0.51	0.37	0.14	114.	*	2 JAN 0015	98	0.00	0.00	0.00	19.
1 JAN 1200	49	1.26	0.66	0.60	508.	*	2 JAN 0030	99	0.00	0.00	0.00	9.
1 JAN 1215	50	0.20	0.08	0.12	776.	*	2 JAN 0045	100	0.00	0.00	0.00	4.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.82, TOTAL EXCESS = 1.83

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
+	776.	12.25	158.	49.	47.	47.
			1.488	1.832	1.832	1.832
			(AC-FT)	79.	97.	97.

CUMULATIVE AREA = 0.99 SQ MI

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 178 KK 3C \* CNAME 3R  
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179 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

180 HC HYDROGRAPH COMBINATION  
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
 SUM OF 2 HYDROGRAPHS

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				25yr.out													
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2534.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	1845.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1194.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	840.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	633.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	509.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	426.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	368.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	327.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	298.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	279.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	263.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	249.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	236.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	0.	*	1	JAN	1600	65	222.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	0.	*	1	JAN	1615	66	209.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1.	*	1	JAN	1630	67	198.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	5.	*	1	JAN	1645	68	190.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	14.	*	1	JAN	1700	69	183.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	30.	*	1	JAN	1715	70	178.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	55.	*	1	JAN	1730	71	173.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	95.	*	1	JAN	1745	72	168.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	277.	*	1	JAN	1800	73	163.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1172.	*	1	JAN	1815	74	158.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	2374.	*	1	JAN	1830	75	153.	*

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
2534.	12.50	631.	195.	189.	189.
		1.473	1.818	1.818	1.818
		313.	386.	386.	386.

CUMULATIVE AREA = 3.98 SQ MI

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 \* \*  
 181 KK \* 3R \* CNAME 3C  
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182 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

183 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.09 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 3R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2577.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2153.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1416.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	946.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	701.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	548.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	454.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	387.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	341.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	308.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	285.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	269.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	254.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	241.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	0.	*	1	JAN	1600	65	227.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	0.	*	1	JAN	1615	66	214.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1.	*	1	JAN	1630	67	202.	*

25yr.out

1 JAN 0415	18	0.	*	1 JAN 1030	43	3.	*	1 JAN 1645	68	193.	*	1 JAN 2300	93	102.
1 JAN 0430	19	0.	*	1 JAN 1045	44	10.	*	1 JAN 1700	69	185.	*	1 JAN 2315	94	101.
1 JAN 0445	20	0.	*	1 JAN 1100	45	23.	*	1 JAN 1715	70	180.	*	1 JAN 2330	95	100.
1 JAN 0500	21	0.	*	1 JAN 1115	46	45.	*	1 JAN 1730	71	175.	*	1 JAN 2345	96	99.
1 JAN 0515	22	0.	*	1 JAN 1130	47	79.	*	1 JAN 1745	72	169.	*	2 JAN 0000	97	98.
1 JAN 0530	23	0.	*	1 JAN 1145	48	197.	*	1 JAN 1800	73	165.	*	2 JAN 0015	98	92.
1 JAN 0545	24	0.	*	1 JAN 1200	49	778.	*	1 JAN 1815	74	160.	*	2 JAN 0030	99	70.
1 JAN 0600	25	0.	*	1 JAN 1215	50	1919.	*	1 JAN 1830	75	155.	*	2 JAN 0045	100	40.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
2577.	12.50	631.	194.	189.	189.	
		(INCHES)	1.473	1.817	1.817	1.817
		(AC-FT)	313.	386.	386.	386.

CUMULATIVE AREA = 3.98 SQ MI

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 184 KK \* 2B \*  
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185 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

188 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

186 BA SUBBASIN CHARACTERISTICS

TAREA,	0.84	SUBBASIN AREA
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PRECIPITATION DATA

187 PB STORM 4.65 BASIN TOTAL PRECIPITATION

189 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

214 LS SCS LOSS RATE

STRTL	0.82	INITIAL ABSTRACTION
CRVNBR	71.04	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

215 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.30	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES

610.	907.	400.	156.	60.	23.	9.	3.
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HYDROGRAPH AT STATION 2B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 0000	1	0.00	0.00	0.00	0.00	0.	*		1 JAN 1230	51	0.14	0.05	0.08	428.		
1 JAN 0015	2	0.01	0.01	0.00	0.	*			1 JAN 1245	52	0.09	0.03	0.06	264.		
1 JAN 0030	3	0.01	0.01	0.00	0.	*			1 JAN 1300	53	0.08	0.03	0.05	177.		
1 JAN 0045	4	0.01	0.01	0.00	0.	*			1 JAN 1315	54	0.07	0.02	0.04	131.		
1 JAN 0100	5	0.01	0.01	0.00	0.	*			1 JAN 1330	55	0.06	0.02	0.04	106.		



25yr.out												
1 JAN 0115	6	0.01	0.01	0.00	0.	*	1 JAN 1345	56	0.05	0.02	0.03	89.
1 JAN 0130	7	0.01	0.01	0.00	0.	*	1 JAN 1400	57	0.05	0.02	0.03	77.
1 JAN 0145	8	0.01	0.01	0.00	0.	*	1 JAN 1415	58	0.04	0.01	0.03	69.
1 JAN 0200	9	0.01	0.01	0.00	0.	*	1 JAN 1430	59	0.04	0.01	0.03	63.
1 JAN 0215	10	0.01	0.01	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	60.
1 JAN 0230	11	0.01	0.01	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.02	56.
1 JAN 0245	12	0.01	0.01	0.00	0.	*	1 JAN 1515	62	0.03	0.01	0.02	54.
1 JAN 0300	13	0.01	0.01	0.00	0.	*	1 JAN 1530	63	0.03	0.01	0.02	51.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.03	0.01	0.02	48.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	45.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	42.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	40.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.02	0.01	0.02	39.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.02	0.01	0.02	38.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.02	0.01	0.02	37.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.02	0.01	0.02	36.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.02	0.01	0.02	35.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.01	34.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.01	33.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.01	32.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.01	31.
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.01	0.01	30.
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.01	0.01	29.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	28.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	27.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	25.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	24.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	24.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	23.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	23.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	23.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	23.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	22.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	22.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	22.
1 JAN 1000	41	0.04	0.04	0.00	0.	*	1 JAN 2230	91	0.01	0.00	0.01	22.
1 JAN 1015	42	0.05	0.05	0.00	1.	*	1 JAN 2245	92	0.01	0.00	0.01	22.
1 JAN 1030	43	0.06	0.05	0.00	3.	*	1 JAN 2300	93	0.01	0.00	0.01	22.
1 JAN 1045	44	0.07	0.06	0.01	6.	*	1 JAN 2315	94	0.01	0.00	0.01	21.
1 JAN 1100	45	0.08	0.07	0.01	11.	*	1 JAN 2330	95	0.01	0.00	0.01	21.
1 JAN 1115	46	0.10	0.08	0.01	19.	*	1 JAN 2345	96	0.01	0.00	0.01	21.
1 JAN 1130	47	0.13	0.10	0.02	31.	*	2 JAN 0000	97	0.01	0.00	0.01	21.
1 JAN 1145	48	0.51	0.36	0.15	117.	*	2 JAN 0015	98	0.00	0.00	0.00	15.
1 JAN 1200	49	1.26	0.65	0.61	516.	*	2 JAN 0030	99	0.00	0.00	0.00	6.
1 JAN 1215	50	0.20	0.08	0.12	689.	*	2 JAN 0045	100	0.00	0.00	0.00	2.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.79, TOTAL EXCESS = 1.86

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)			
689.	12.25	136.	42.	41.	41.
		(INCHES)	1.510	1.858	1.858
		(AC-FT)	68.	83.	83.

CUMULATIVE AREA = 0.84 SQ MI

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 216 KK            2C            CNAME            2R  
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217 KO            OUTPUT CONTROL VARIABLES  
 IPRNT            1    PRINT CONTROL  
 IPLOT            0    PLOT CONTROL  
 QSCAL            0.    HYDROGRAPH PLOT SCALE  
 IPNCH            0    PUNCH COMPUTED HYDROGRAPH  
 IOUT            22    SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1            1    FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2            100    LAST ORDINATE PUNCHED OR SAVED  
 TIMINT            0.250    TIME INTERVAL IN HOURS

218 HC            HYDROGRAPH COMBINATION  
 ICOMP            2    NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION            2C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	3005.	1	JAN	1845	76	181.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	2417.	1	JAN	1900	77	175.

		25yr.out												
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	1593.	*	1 JAN 1915	78	169.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1078.	*	1 JAN 1930	79	163.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	807.	*	1 JAN 1945	80	157.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	638.	*	1 JAN 2000	81	151.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	531.	*	1 JAN 2015	82	145.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	457.	*	1 JAN 2030	83	140.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	404.	*	1 JAN 2045	84	136.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	367.	*	1 JAN 2100	85	134.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	342.	*	1 JAN 2115	86	132.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	322.	*	1 JAN 2130	87	131.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	305.	*	1 JAN 2145	88	129.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	288.	*	1 JAN 2200	89	128.
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	272.	*	1 JAN 2215	90	127.
1 JAN 0345	16	0.	*	1 JAN 1000	41	0.	*	1 JAN 1615	66	257.	*	1 JAN 2230	91	126.
1 JAN 0400	17	0.	*	1 JAN 1015	42	1.	*	1 JAN 1630	67	243.	*	1 JAN 2245	92	125.
1 JAN 0415	18	0.	*	1 JAN 1030	43	6.	*	1 JAN 1645	68	232.	*	1 JAN 2300	93	124.
1 JAN 0430	19	0.	*	1 JAN 1045	44	16.	*	1 JAN 1700	69	224.	*	1 JAN 2315	94	123.
1 JAN 0445	20	0.	*	1 JAN 1100	45	35.	*	1 JAN 1715	70	217.	*	1 JAN 2330	95	121.
1 JAN 0500	21	0.	*	1 JAN 1115	46	64.	*	1 JAN 1730	71	210.	*	1 JAN 2345	96	120.
1 JAN 0515	22	0.	*	1 JAN 1130	47	110.	*	1 JAN 1745	72	204.	*	2 JAN 0000	97	119.
1 JAN 0530	23	0.	*	1 JAN 1145	48	314.	*	1 JAN 1800	73	198.	*	2 JAN 0015	98	107.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1294.	*	1 JAN 1815	74	192.	*	2 JAN 0030	99	77.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2608.	*	1 JAN 1830	75	186.	*	2 JAN 0045	100	43.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
3005.	12.50	766.	236.	229.	229.
		(INCHES)	1.477	1.824	1.824
		(AC-FT)	380.	469.	469.

CUMULATIVE AREA = 4.82 SQ MI

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219 KK * 2R * CNAME 2C
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220 KO OUTPUT CONTROL VARIABLES
      IPRNT 1 PRINT CONTROL
      IPLOT 0 PLOT CONTROL
      QSCAL 0. HYDROGRAPH PLOT SCALE
      IPNCH 0 PUNCH COMPUTED HYDROGRAPH
      IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
      ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
      ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
      TIMINT 0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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221 RM MUSKINGUM ROUTING
      NSTPS 1 NUMBER OF SUBREACHES
      AMSKK 0.11 MUSKINGUM K
      X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 2R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2911.	*	1	JAN	1845	76	183.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2734.	*	1	JAN	1900	77	177.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1952.	*	1	JAN	1915	78	171.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1272.	*	1	JAN	1930	79	165.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	908.	*	1	JAN	1945	80	160.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	705.	*	1	JAN	2000	81	154.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	573.	*	1	JAN	2015	82	148.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	487.	*	1	JAN	2030	83	142.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	425.	*	1	JAN	2045	84	137.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	382.	*	1	JAN	2100	85	134.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	352.	*	1	JAN	2115	86	133.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	330.	*	1	JAN	2130	87	131.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	312.	*	1	JAN	2145	88	130.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	296.	*	1	JAN	2200	89	128.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	0.	*	1	JAN	1600	65	279.	*	1	JAN	2215	90	128.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	0.	*	1	JAN	1615	66	263.	*	1	JAN	2230	91	127.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1.	*	1	JAN	1630	67	248.	*	1	JAN	2245	92	125.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	4.	*	1	JAN	1645	68	236.	*	1	JAN	2300	93	124.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	12.	*	1	JAN	1700	69	227.	*	1	JAN	2315	94	123.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	26.	*	1	JAN	1715	70	220.	*	1	JAN	2330	95	122.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	50.	*	1	JAN	1730	71	213.	*	1	JAN	2345	96	121.	*

25yr.out  
 1 JAN 0515 22 0. \* 1 JAN 1130 47 89. \* 1 JAN 1745 72 207. \* 2 JAN 0000 97 119.  
 1 JAN 0530 23 0. \* 1 JAN 1145 48 215. \* 1 JAN 1800 73 201. \* 2 JAN 0015 98 113.  
 1 JAN 0545 24 0. \* 1 JAN 1200 49 815. \* 1 JAN 1815 74 195. \* 2 JAN 0030 99 91.  
 1 JAN 0600 25 0. \* 1 JAN 1215 50 2030. \* 1 JAN 1830 75 189. \* 2 JAN 0045 100 57.  
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PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 + (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
 + 2911. 12.50 (CFS) 766. 236. 229. 229.  
 (INCHES) 1.477 1.822 1.822 1.822  
 (AC-FT) 380. 468. 468. 468.

CUMULATIVE AREA = 4.82 SQ MI

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 222 KK 1B \*  
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223 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

226 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

224 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.70 SUBBASIN AREA

PRECIPITATION DATA

225 PB STORM 4.65 BASIN TOTAL PRECIPITATION

227 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

252 LS SCS LOSS RATE  
 STRL 0.80 INITIAL ABSTRACTION  
 CRVNBR 71.35 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

253 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.29 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES  
 528. 755. 321. 122. 46. 18. 7. 2.

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HYDROGRAPH AT STATION 1B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.08	354.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.03	0.06	217.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	145.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	109.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	88.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	74.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	64.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	58.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	53.

25yr.out

1 JAN 0215	10	0.01	0.01	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	50.
1 JAN 0230	11	0.01	0.01	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.02	47.
1 JAN 0245	12	0.01	0.01	0.00	0.	*	1 JAN 1515	62	0.03	0.01	0.02	45.
1 JAN 0300	13	0.01	0.01	0.00	0.	*	1 JAN 1530	63	0.03	0.01	0.02	42.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.03	0.01	0.02	40.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	38.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	35.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	34.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.02	0.01	0.02	33.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.02	0.01	0.02	32.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.02	0.01	0.02	31.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.02	0.01	0.02	30.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.02	0.01	0.02	29.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	28.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.01	27.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.01	27.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.01	26.
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.01	0.01	25.
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.01	0.01	24.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	23.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	22.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	21.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	20.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	20.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	19.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	19.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	19.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	19.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	19.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	19.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	19.
1 JAN 1000	41	0.04	0.04	0.00	0.	*	1 JAN 2230	91	0.01	0.00	0.01	18.
1 JAN 1015	42	0.05	0.05	0.00	1.	*	1 JAN 2245	92	0.01	0.00	0.01	18.
1 JAN 1030	43	0.06	0.05	0.00	3.	*	1 JAN 2300	93	0.01	0.00	0.01	18.
1 JAN 1045	44	0.07	0.06	0.01	6.	*	1 JAN 2315	94	0.01	0.00	0.01	18.
1 JAN 1100	45	0.08	0.07	0.01	10.	*	1 JAN 2330	95	0.01	0.00	0.01	17.
1 JAN 1115	46	0.10	0.08	0.01	17.	*	1 JAN 2345	96	0.01	0.00	0.01	17.
1 JAN 1130	47	0.13	0.10	0.02	27.	*	2 JAN 0000	97	0.01	0.00	0.01	17.
1 JAN 1145	48	0.51	0.36	0.15	103.	*	2 JAN 0015	98	0.00	0.00	0.00	12.
1 JAN 1200	49	1.26	0.64	0.62	449.	*	2 JAN 0030	99	0.00	0.00	0.00	5.
1 JAN 1215	50	0.20	0.08	0.12	582.	*	2 JAN 0045	100	0.00	0.00	0.00	2.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.77, TOTAL EXCESS = 1.88

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(INCHES)	(AC-FT)	
582.	12.25	115.	1.529	57.	34.
			1.881	70.	34.
			1.881	70.	34.

CUMULATIVE AREA = 0.70 SQ MI

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 254 KK      1C      CNAME      1C  
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255 KO      OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMEINT	0.250	TIME INTERVAL IN HOURS

256 HC      HYDROGRAPH COMBINATION  
 ICOMP      2      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION      1C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	3265.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	2951.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	2098.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	1380.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	996.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	779.
										1	JAN	1845	76	209.
										1	JAN	1900	77	202.
										1	JAN	1915	78	195.
										1	JAN	1930	79	188.
										1	JAN	1945	80	182.
										1	JAN	2000	81	175.

												25yr.out		
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	637.	*	1 JAN 2015	82	168.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	544.	*	1 JAN 2030	83	162.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	478.	*	1 JAN 2045	84	157.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	432.	*	1 JAN 2100	85	154.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	399.	*	1 JAN 2115	86	152.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	375.	*	1 JAN 2130	87	150.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	355.	*	1 JAN 2145	88	149.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	335.	*	1 JAN 2200	89	147.
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	317.	*	1 JAN 2215	90	146.
1 JAN 0345	16	0.	*	1 JAN 1000	41	0.	*	1 JAN 1615	66	299.	*	1 JAN 2230	91	145.
1 JAN 0400	17	0.	*	1 JAN 1015	42	2.	*	1 JAN 1630	67	282.	*	1 JAN 2245	92	143.
1 JAN 0415	18	0.	*	1 JAN 1030	43	7.	*	1 JAN 1645	68	269.	*	1 JAN 2300	93	142.
1 JAN 0430	19	0.	*	1 JAN 1045	44	17.	*	1 JAN 1700	69	259.	*	1 JAN 2315	94	141.
1 JAN 0445	20	0.	*	1 JAN 1100	45	36.	*	1 JAN 1715	70	250.	*	1 JAN 2330	95	140.
1 JAN 0500	21	0.	*	1 JAN 1115	46	67.	*	1 JAN 1730	71	243.	*	1 JAN 2345	96	138.
1 JAN 0515	22	0.	*	1 JAN 1130	47	116.	*	1 JAN 1745	72	236.	*	2 JAN 0000	97	137.
1 JAN 0530	23	0.	*	1 JAN 1145	48	318.	*	1 JAN 1800	73	229.	*	2 JAN 0015	98	125.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1264.	*	1 JAN 1815	74	222.	*	2 JAN 0030	99	96.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2612.	*	1 JAN 1830	75	215.	*	2 JAN 0045	100	59.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
3265.	12.50	879.	271.	263.	263.
		(INCHES)	1.481	1.830	1.830
		(AC-FT)	436.	538.	538.

CUMULATIVE AREA = 5.52 SQ MI

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*****
*
257 KK      1C *      CNAME      1C
*
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258 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
          IPNCH      0 PUNCH COMPUTED HYDROGRAPH
          IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

259 RN NO ROUTING

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HYDROGRAPH AT STATION 1C

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	3265.	*	1 JAN 1845	76	209.					
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	2951.	*	1 JAN 1900	77	202.					
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	2098.	*	1 JAN 1915	78	195.					
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1380.	*	1 JAN 1930	79	188.					
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	996.	*	1 JAN 1945	80	182.					
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	779.	*	1 JAN 2000	81	175.					
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	637.	*	1 JAN 2015	82	168.					
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	544.	*	1 JAN 2030	83	162.					
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	478.	*	1 JAN 2045	84	157.					
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	432.	*	1 JAN 2100	85	154.					
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	399.	*	1 JAN 2115	86	152.					
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	375.	*	1 JAN 2130	87	150.					
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	355.	*	1 JAN 2145	88	149.					
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	335.	*	1 JAN 2200	89	147.					
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	317.	*	1 JAN 2215	90	146.					
1 JAN 0345	16	0.	*	1 JAN 1000	41	0.	*	1 JAN 1615	66	299.	*	1 JAN 2230	91	145.					
1 JAN 0400	17	0.	*	1 JAN 1015	42	2.	*	1 JAN 1630	67	282.	*	1 JAN 2245	92	143.					
1 JAN 0415	18	0.	*	1 JAN 1030	43	7.	*	1 JAN 1645	68	269.	*	1 JAN 2300	93	142.					
1 JAN 0430	19	0.	*	1 JAN 1045	44	17.	*	1 JAN 1700	69	259.	*	1 JAN 2315	94	141.					
1 JAN 0445	20	0.	*	1 JAN 1100	45	36.	*	1 JAN 1715	70	250.	*	1 JAN 2330	95	140.					
1 JAN 0500	21	0.	*	1 JAN 1115	46	67.	*	1 JAN 1730	71	243.	*	1 JAN 2345	96	138.					
1 JAN 0515	22	0.	*	1 JAN 1130	47	116.	*	1 JAN 1745	72	236.	*	2 JAN 0000	97	137.					
1 JAN 0530	23	0.	*	1 JAN 1145	48	318.	*	1 JAN 1800	73	229.	*	2 JAN 0015	98	125.					
1 JAN 0545	24	0.	*	1 JAN 1200	49	1264.	*	1 JAN 1815	74	222.	*	2 JAN 0030	99	96.					
1 JAN 0600	25	0.	*	1 JAN 1215	50	2612.	*	1 JAN 1830	75	215.	*	2 JAN 0045	100	59.					

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR

25yr.out

+	(CFS)	(HR)					
+	3265.	12.50	(CFS)	879.	271.	263.	263.
			(INCHES)	1.481	1.830	1.830	1.830
			(AC-FT)	436.	538.	538.	538.

CUMULATIVE AREA = 5.52 SQ MI

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

+	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT	5bB	641.	12.25	154.	48.	46.	0.97		
+	HYDROGRAPH AT	5aB	436.	12.25	86.	27.	26.	0.54		
+	2 COMBINED AT	5C	1078.	12.25	240.	74.	72.	1.52		
+	ROUTED TO	5R	1002.	12.50	240.	74.	72.	1.52		
+	HYDROGRAPH AT	4aB	599.	12.25	137.	42.	41.	0.86		
+	HYDROGRAPH AT	4bB	463.	12.25	97.	30.	29.	0.61		
+	3 COMBINED AT	4C	1941.	12.25	473.	146.	142.	2.99		
+	ROUTED TO	4R	1992.	12.50	473.	146.	141.	2.99		
+	HYDROGRAPH AT	3B	776.	12.25	158.	49.	47.	0.99		
+	2 COMBINED AT	3C	2534.	12.50	631.	195.	189.	3.98		
+	ROUTED TO	3R	2577.	12.50	631.	194.	189.	3.98		
+	HYDROGRAPH AT	2B	689.	12.25	136.	42.	41.	0.84		
+	2 COMBINED AT	2C	3005.	12.50	766.	236.	229.	4.82		
+	ROUTED TO	2R	2911.	12.50	766.	236.	229.	4.82		
+	HYDROGRAPH AT	1B	582.	12.25	115.	35.	34.	0.70		
+	2 COMBINED AT	1C	3265.	12.50	879.	271.	263.	5.52		
+	ROUTED TO	1C	3265.	12.50	879.	271.	263.	5.52		

\*\*\* NORMAL END OF HEC-1 \*\*\*

1\*\*\*\*\*
\*
\* FLOOD HYDROGRAPH PACKAGE (HEC-1)
\* MAY 1991
\* VERSION 4.0.1E
\*
\* RUN DATE TIME
\*\*\*\*\*

\*\*\*\*\*
\*
\* U.S. ARMY CORPS OF ENGINEERS
\* HYDROLOGIC ENGINEERING CENTER
\* 609 SECOND STREET
\* DAVIS, CALIFORNIA 95616
\* (916) 551-1748
\*\*\*\*\*

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

Table with columns: LINE, ID, and numerical values. Includes input parameters like Seng Creek, 100 yr Storm, and various PC values for different scenarios.

HEC-1 INPUT

Table with columns: LINE, ID, and numerical values. Continuation of input parameters from page 1.





100yr.out

140	KK	4C	CNAME	4R		
141	KO	0	0	0.0	0	22
142	HC	3				
143	KK	4R	CNAME	4C		
144	KO	0	0	0.0	0	22
145	RM	1	0.091	0.2		
146	KK	3B				
147	KO	0	0	0.0	1	22
148	BA	0.99				
149	PB	5.45				
150	IN	6	1JAN94	0		

\* typeII-24hour

HEC-1 INPUT

PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

151	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
152	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
153	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
154	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
155	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
156	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
157	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
158	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
159	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
160	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
161	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
162	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
163	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
164	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
165	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
166	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
167	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
168	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
169	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
170	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
171	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
172	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
173	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
174	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
175	PC	1.0									
176	LS	0.0	70.71	0.0							
177	UD	0.3368									

178	KK	3C	CNAME	3R		
179	KO	0	0	0.0	0	22
180	HC	2				

181	KK	3R	CNAME	3C		
182	KO	0	0	0.0	0	22
183	RM	1	0.092	0.2		

184	KK	2B				
185	KO	0	0	0.0	1	22
186	BA	0.8395				
187	PB	5.45				
188	IN	6	1JAN94	0		

\* typeII-24hour

189	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
190	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
191	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
192	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
193	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
194	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
195	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
196	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
197	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
198	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
199	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
200	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
201	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656

HEC-1 INPUT

PAGE 5

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

202	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
203	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
204	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
205	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
206	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
207	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
208	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
209	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
210	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
211	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
212	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
213	PC	1.0									
214	LS	0.0	71.04	0.0							
215	UD	0.3008									

216	KK	2C	CNAME	2R		
217	KO	0	0	0.0	0	22
218	HC	2				

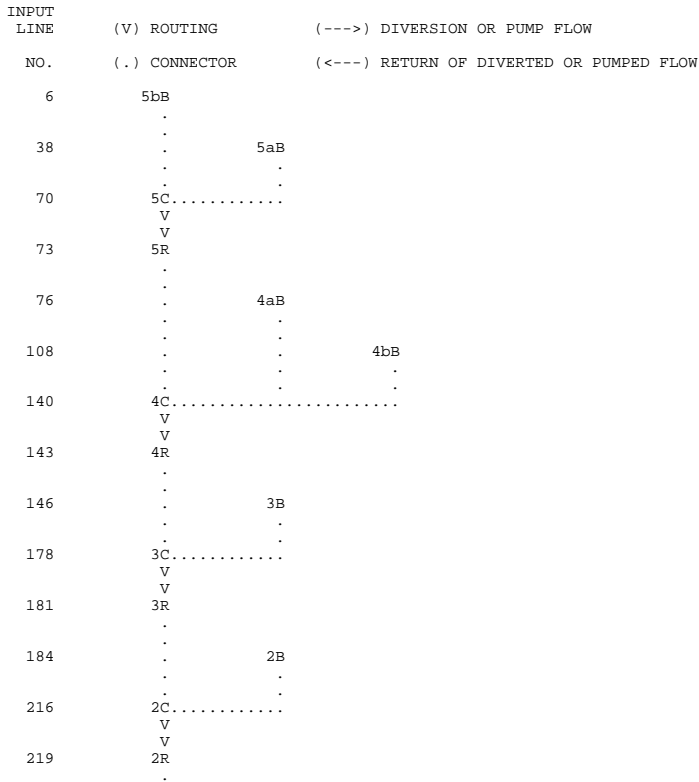
100yr.out											
219	KK	2R	CNAME	2C							
220	KO	0	0	0.0	0	22					
221	RM	1	0.107	0.2							
222	KK	1B									
223	KO	0	0	0.0	1	22					
224	BA	0.6967									
225	PB	5.45									
226	IN	6	1JAN94	0							
227	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
228	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
229	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
230	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
231	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
232	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
233	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
234	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
235	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
236	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
237	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
238	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
239	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
240	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
241	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
242	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
243	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
244	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
245	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
246	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
247	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
248	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
249	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
250	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
251	PC	1.0									
252	LS	0.0	71.35	0.0							

HEC-1 INPUT

PAGE 6

LINE	ID	1	2	3	4	5	6	7	8	9	10
253	UD	0.2942									
254	KK	1C	CNAME	1C							
255	KO	0	0	0.0	0	22					
256	HC	2									
257	KK	1C	CNAME	1C							
258	KO	0	0	0.0	0	22					
259	RN	1C									
260	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK



222 . 1B  
. .  
. .  
254 1C.....  
V  
V  
257 1C

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1\*\*\*\*\*  
\*  
\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*  
\* MAY 1991 \*  
\* VERSION 4.0.1E \*  
\* RUN DATE TIME \*  
\*  
\*\*\*\*\*

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\*  
\* U.S. ARMY CORPS OF ENGINEERS \*  
\* HYDROLOGIC ENGINEERING CENTER \*  
\* 609 SECOND STREET \*  
\* DAVIS, CALIFORNIA 95616 \*  
\* (916) 551-1748 \*  
\*  
\*\*\*\*\*

Seng Creek  
wo Mining & wo Logging (Scenario 4), USGS DEM Data  
100 yr Storm

5 IO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
  
IT HYDROGRAPH TIME DATA  
NMIN 15 MINUTES IN COMPUTATION INTERVAL  
IDATE 1JAN94 STARTING DATE  
ITIME 0000 STARTING TIME  
NQ 100 NUMBER OF HYDROGRAPH ORDINATES  
NDDATE 2JAN94 ENDING DATE  
NDTIME 0045 ENDING TIME  
ICENT 19 CENTURY MARK  
  
COMPUTATION INTERVAL 0.25 HOURS  
TOTAL TIME BASE 24.75 HOURS

ENGLISH UNITS  
DRAINAGE AREA SQUARE MILES  
PRECIPITATION DEPTH INCHES  
LENGTH, ELEVATION FEET  
FLOW CUBIC FEET PER SECOND  
STORAGE VOLUME ACRE-FEET  
SURFACE AREA ACRES  
TEMPERATURE DEGREES FAHRENHEIT

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\* 5bB \*  
\*  
\*\*\*\*\*

7 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

10 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

8 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.97 SUBBASIN AREA

PRECIPITATION DATA

9 PB STORM 5.45 BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

100yr.out  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00

36 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

37 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.44 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 11 END-OF-PERIOD ORDINATES  
 324. 832. 701. 339. 167. 81. 39. 19. 9. 5.  
 1.

HYDROGRAPH AT STATION 5bb

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	799.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.07	529.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.06	361.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.05	258.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	196.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	158.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.04	132.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	114.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	100.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	92.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	86.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	81.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	77.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	72.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	68.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	64.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	61.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	58.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	56.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	55.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	53.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	51.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	50.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	48.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	47.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	45.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.02	44.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.02	42.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	41.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	39.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	38.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	36.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	35.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	34.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	34.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	33.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.02	0.00	0.01	33.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.02	0.00	0.01	32.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.02	0.00	0.01	32.
1	JAN	0945	40	0.05	0.04	0.00	1.	*	1	JAN	2215	90	0.02	0.00	0.01	32.
1	JAN	1000	41	0.05	0.05	0.00	3.	*	1	JAN	2230	91	0.02	0.00	0.01	32.
1	JAN	1015	42	0.06	0.05	0.00	5.	*	1	JAN	2245	92	0.02	0.00	0.01	31.
1	JAN	1030	43	0.07	0.06	0.01	9.	*	1	JAN	2300	93	0.02	0.00	0.01	31.
1	JAN	1045	44	0.08	0.07	0.01	14.	*	1	JAN	2315	94	0.02	0.00	0.01	31.
1	JAN	1100	45	0.09	0.08	0.02	21.	*	1	JAN	2330	95	0.02	0.00	0.01	30.
1	JAN	1115	46	0.11	0.09	0.02	31.	*	1	JAN	2345	96	0.02	0.00	0.01	30.
1	JAN	1130	47	0.15	0.11	0.04	47.	*	2	JAN	0000	97	0.01	0.00	0.01	30.
1	JAN	1145	48	0.60	0.39	0.21	121.	*	2	JAN	0015	98	0.00	0.00	0.00	26.
1	JAN	1200	49	1.47	0.68	0.80	468.	*	2	JAN	0030	99	0.00	0.00	0.00	16.
1	JAN	1215	50	0.23	0.08	0.15	876.	*	2	JAN	0045	100	0.00	0.00	0.00	8.

TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.03, TOTAL EXCESS = 2.42

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
876.	12.25	206.	63.	61.	61.	
		(INCHES)	1.961	2.415	2.415	2.415
		(AC-FT)	102.	126.	126.	126.

CUMULATIVE AREA = 0.97 SQ MI

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\* 5aB \*  
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39 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

42 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

40 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.54 SUBBASIN AREA

PRECIPITATION DATA

41 PB STORM 5.45 BASIN TOTAL PRECIPITATION

43 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

68 LS SCS LOSS RATE  
STRTL 0.84 INITIAL ABSTRACTION  
CRVNR 70.50 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

69 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.29 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
8 END-OF-PERIOD ORDINATES  
419. 588. 246. 93. 35. 13. 5. 1.

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HYDROGRAPH AT STATION 5aB  
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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	351.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.07	213.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.06	141.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.05	105.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	85.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	71.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.04	62.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	56.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	51.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	48.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	45.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	43.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	41.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	38.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	36.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	34.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	32.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	31.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	31.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	30.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	29.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	28.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	27.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	26.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	25.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	25.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.02	24.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.02	23.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	22.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	21.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	20.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	19.

100yr.out												
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	19.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	19.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	19.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	18.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	18.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.02	0.00	0.01	18.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.02	0.00	0.01	18.
1 JAN 0945	40	0.05	0.04	0.00	1.	*	1 JAN 2215	90	0.02	0.00	0.01	18.
1 JAN 1000	41	0.05	0.05	0.00	2.	*	1 JAN 2230	91	0.02	0.00	0.01	17.
1 JAN 1015	42	0.06	0.05	0.00	4.	*	1 JAN 2245	92	0.02	0.00	0.01	17.
1 JAN 1030	43	0.07	0.06	0.01	7.	*	1 JAN 2300	93	0.02	0.00	0.01	17.
1 JAN 1045	44	0.08	0.07	0.01	10.	*	1 JAN 2315	94	0.02	0.00	0.01	17.
1 JAN 1100	45	0.09	0.08	0.02	15.	*	1 JAN 2330	95	0.02	0.00	0.01	17.
1 JAN 1115	46	0.11	0.09	0.02	22.	*	1 JAN 2345	96	0.02	0.00	0.01	17.
1 JAN 1130	47	0.15	0.11	0.04	34.	*	2 JAN 0000	97	0.01	0.00	0.01	17.
1 JAN 1145	48	0.60	0.39	0.21	116.	*	2 JAN 0015	98	0.00	0.00	0.00	12.
1 JAN 1200	49	1.47	0.68	0.80	469.	*	2 JAN 0030	99	0.00	0.00	0.00	5.
1 JAN 1215	50	0.23	0.08	0.15	588.	*	2 JAN 0045	100	0.00	0.00	0.00	2.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.03, TOTAL EXCESS = 2.42

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
588.	12.25		115.	35.	34.	34.
		(INCHES)	1.964	2.418	2.418	2.418
		(AC-FT)	57.	70.	70.	70.

CUMULATIVE AREA = 0.54 SQ MI

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70 KK * 5C * CNAME 5R
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71 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

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72 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 5C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	1150.	*	1	JAN	1845	76	70.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	742.	*	1	JAN	1900	77	67.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	502.	*	1	JAN	1915	78	65.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	363.	*	1	JAN	1930	79	63.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	281.	*	1	JAN	1945	80	61.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	229.	*	1	JAN	2000	81	58.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	195.	*	1	JAN	2015	82	56.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	170.	*	1	JAN	2030	83	54.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	151.	*	1	JAN	2045	84	53.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	140.	*	1	JAN	2100	85	52.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	131.	*	1	JAN	2115	86	52.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	124.	*	1	JAN	2130	87	51.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	117.	*	1	JAN	2145	88	50.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	111.	*	1	JAN	2200	89	50.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	2.	*	1	JAN	1600	65	104.	*	1	JAN	2215	90	50.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	5.	*	1	JAN	1615	66	98.	*	1	JAN	2230	91	49.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	9.	*	1	JAN	1630	67	93.	*	1	JAN	2245	92	49.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	16.	*	1	JAN	1645	68	90.	*	1	JAN	2300	93	48.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	24.	*	1	JAN	1700	69	87.	*	1	JAN	2315	94	48.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	36.	*	1	JAN	1715	70	84.	*	1	JAN	2330	95	47.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	53.	*	1	JAN	1730	71	82.	*	1	JAN	2345	96	47.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	81.	*	1	JAN	1745	72	79.	*	2	JAN	0000	97	47.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	237.	*	1	JAN	1800	73	77.	*	2	JAN	0015	98	37.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	936.	*	1	JAN	1815	74	75.	*	2	JAN	0030	99	21.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	1465.	*	1	JAN	1830	75	72.	*	2	JAN	0045	100	9.	*

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW

100yr.out

			6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
+	1465.	12.25	(CFS)	320.	99.	96.
			(INCHES)	1,962	2,416	2,416
			(AC-FT)	159.	195.	195.

CUMULATIVE AREA = 1.52 SQ MI

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73 KK      *      5R      *      CNAME      5C
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74 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT      22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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75 RM      MUSKINGUM ROUTING
          NSTPS      1      NUMBER OF SUBREACHES
          AMSKK      0.13  MUSKINGUM K
          X          0.20  MUSKINGUM X

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\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 5R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	1353.	*	1	JAN	1845	76	71.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	948.	*	1	JAN	1900	77	69.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	614.	*	1	JAN	1915	78	66.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	429.	*	1	JAN	1930	79	64.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	320.	*	1	JAN	1945	80	62.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	254.	*	1	JAN	2000	81	59.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	211.	*	1	JAN	2015	82	57.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	182.	*	1	JAN	2030	83	55.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	160.	*	1	JAN	2045	84	53.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	145.	*	1	JAN	2100	85	52.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	135.	*	1	JAN	2115	86	52.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	128.	*	1	JAN	2130	87	51.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	121.	*	1	JAN	2145	88	51.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	114.	*	1	JAN	2200	89	50.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1.	*	1	JAN	1600	65	108.	*	1	JAN	2215	90	50.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	3.	*	1	JAN	1615	66	101.	*	1	JAN	2230	91	49.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	7.	*	1	JAN	1630	67	96.	*	1	JAN	2245	92	49.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	12.	*	1	JAN	1645	68	91.	*	1	JAN	2300	93	48.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	20.	*	1	JAN	1700	69	88.	*	1	JAN	2315	94	48.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	30.	*	1	JAN	1715	70	86.	*	1	JAN	2330	95	48.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	44.	*	1	JAN	1730	71	83.	*	1	JAN	2345	96	47.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	66.	*	1	JAN	1745	72	81.	*	2	JAN	0000	97	47.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	151.	*	1	JAN	1800	73	78.	*	2	JAN	0015	98	42.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	555.	*	1	JAN	1815	74	76.	*	2	JAN	0030	99	29.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	1211.	*	1	JAN	1830	75	73.	*	2	JAN	0045	100	15.	*

				6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)					
+	1353.	12.50	(CFS)	320.	98.	95.	95.
			(INCHES)	1,960	2,414	2,414	2,414
			(AC-FT)	159.	195.	195.	195.

CUMULATIVE AREA = 1.52 SQ MI

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76 KK      *      4aB      *
*

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77 KO      OUTPUT CONTROL VARIABLES  
           IPRNT        1    PRINT CONTROL  
           IPLOT        0    PLOT CONTROL  
           QSCAL        0.    HYDROGRAPH PLOT SCALE  
           IPNCH        1    PUNCH COMPUTED HYDROGRAPH  
           IOUT         22    SAVE HYDROGRAPH ON THIS UNIT  
           ISAV1        1    FIRST ORDINATE PUNCHED OR SAVED  
           ISAV2        100   LAST ORDINATE PUNCHED OR SAVED  
           TIMINT       0.250   TIME INTERVAL IN HOURS

80 IN      TIME DATA FOR INPUT TIME SERIES  
           JXMIN        6    TIME INTERVAL IN MINUTES  
           JXDATE       1JAN94   STARTING DATE  
           JXTIME       0    STARTING TIME

SUBBASIN RUNOFF DATA

78 BA      SUBBASIN CHARACTERISTICS  
           TAREA,       0.86   SUBBASIN AREA

PRECIPITATION DATA

79 PB      STORM           5.45   BASIN TOTAL PRECIPITATION

81 PI      INCREMENTAL PRECIPITATION PATTERN  
           0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00  
           0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00  
           0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.01   0.01  
           0.01   0.01   0.01   0.01   0.01   0.01   0.01   0.01   0.01   0.01  
           0.01   0.01   0.01   0.01   0.01   0.01   0.03   0.11   0.27   0.04  
           0.02   0.02   0.01   0.01   0.01   0.01   0.01   0.01   0.01   0.01  
           0.01   0.01   0.01   0.01   0.01   0.01   0.01   0.01   0.01   0.00  
           0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00  
           0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00  
           0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00

106 LS     SCS LOSS RATE  
           STRTL        0.84   INITIAL ABSTRACTION  
           CRVNR        70.50   CURVE NUMBER  
           RTIMP        0.00   PERCENT IMPERVIOUS AREA

107 UD     SCS DIMENSIONLESS UNITGRAPH  
           TLAG         0.41   LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

  UNIT HYDROGRAPH  
                                   10 END-OF-PERIOD ORDINATES  
           332.       783.       609.       271.       129.       59.       28.       13.       7.       2.

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HYDROGRAPH AT STATION       4aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.16	0.05	0.11	703.	*
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.11	0.03	0.07	447.	*
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.09	0.03	0.06	302.	*
1	JAN	0045	4	0.01	0.01	0.00	0.	*		1	JAN	1315	54	0.08	0.02	0.05	215.	*
1	JAN	0100	5	0.01	0.01	0.00	0.	*		1	JAN	1330	55	0.07	0.02	0.05	165.	*
1	JAN	0115	6	0.01	0.01	0.00	0.	*		1	JAN	1345	56	0.06	0.02	0.04	134.	*
1	JAN	0130	7	0.02	0.02	0.00	0.	*		1	JAN	1400	57	0.05	0.02	0.04	114.	*
1	JAN	0145	8	0.02	0.02	0.00	0.	*		1	JAN	1415	58	0.05	0.01	0.04	98.	*
1	JAN	0200	9	0.02	0.02	0.00	0.	*		1	JAN	1430	59	0.05	0.01	0.03	87.	*
1	JAN	0215	10	0.02	0.02	0.00	0.	*		1	JAN	1445	60	0.04	0.01	0.03	80.	*
1	JAN	0230	11	0.02	0.02	0.00	0.	*		1	JAN	1500	61	0.04	0.01	0.03	75.	*
1	JAN	0245	12	0.02	0.02	0.00	0.	*		1	JAN	1515	62	0.04	0.01	0.03	71.	*
1	JAN	0300	13	0.02	0.02	0.00	0.	*		1	JAN	1530	63	0.04	0.01	0.03	67.	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.04	0.01	0.03	64.	*
1	JAN	0330	15	0.02	0.02	0.00	0.	*		1	JAN	1600	65	0.03	0.01	0.02	60.	*
1	JAN	0345	16	0.02	0.02	0.00	0.	*		1	JAN	1615	66	0.03	0.01	0.02	56.	*
1	JAN	0400	17	0.02	0.02	0.00	0.	*		1	JAN	1630	67	0.03	0.01	0.02	53.	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.03	0.01	0.02	51.	*
1	JAN	0430	19	0.02	0.02	0.00	0.	*		1	JAN	1700	69	0.03	0.01	0.02	50.	*
1	JAN	0445	20	0.02	0.02	0.00	0.	*		1	JAN	1715	70	0.03	0.01	0.02	48.	*
1	JAN	0500	21	0.02	0.02	0.00	0.	*		1	JAN	1730	71	0.03	0.01	0.02	47.	*
1	JAN	0515	22	0.02	0.02	0.00	0.	*		1	JAN	1745	72	0.03	0.01	0.02	45.	*
1	JAN	0530	23	0.02	0.02	0.00	0.	*		1	JAN	1800	73	0.02	0.01	0.02	44.	*
1	JAN	0545	24	0.02	0.02	0.00	0.	*		1	JAN	1815	74	0.02	0.01	0.02	43.	*
1	JAN	0600	25	0.02	0.02	0.00	0.	*		1	JAN	1830	75	0.02	0.01	0.02	41.	*
1	JAN	0615	26	0.02	0.02	0.00	0.	*		1	JAN	1845	76	0.02	0.01	0.02	40.	*
1	JAN	0630	27	0.03	0.03	0.00	0.	*		1	JAN	1900	77	0.02	0.01	0.02	39.	*
1	JAN	0645	28	0.03	0.03	0.00	0.	*		1	JAN	1915	78	0.02	0.01	0.02	37.	*
1	JAN	0700	29	0.03	0.03	0.00	0.	*		1	JAN	1930	79	0.02	0.00	0.02	36.	*
1	JAN	0715	30	0.03	0.03	0.00	0.	*		1	JAN	1945	80	0.02	0.00	0.01	35.	*
1	JAN	0730	31	0.03	0.03	0.00	0.	*		1	JAN	2000	81	0.02	0.00	0.01	33.	*
1	JAN	0745	32	0.03	0.03	0.00	0.	*		1	JAN	2015	82	0.02	0.00	0.01	32.	*
1	JAN	0800	33	0.03	0.03	0.00	0.	*		1	JAN	2030	83	0.02	0.00	0.01	31.	*
1	JAN	0815	34	0.03	0.03	0.00	0.	*		1	JAN	2045	84	0.02	0.00	0.01	30.	*
1	JAN	0830	35	0.04	0.04	0.00	0.	*		1	JAN	2100	85	0.02	0.00	0.01	30.	*
1	JAN	0845	36	0.04	0.04	0.00	0.	*		1	JAN	2115	86	0.02	0.00	0.01	30.	*



100yr.out												
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	29.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.02	0.00	0.01	29.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.02	0.00	0.01	29.
1 JAN 0945	40	0.05	0.04	0.00	1.	*	1 JAN 2215	90	0.02	0.00	0.01	28.
1 JAN 1000	41	0.05	0.05	0.00	3.	*	1 JAN 2230	91	0.02	0.00	0.01	28.
1 JAN 1015	42	0.06	0.05	0.00	5.	*	1 JAN 2245	92	0.02	0.00	0.01	28.
1 JAN 1030	43	0.07	0.06	0.01	8.	*	1 JAN 2300	93	0.02	0.00	0.01	28.
1 JAN 1045	44	0.08	0.07	0.01	13.	*	1 JAN 2315	94	0.02	0.00	0.01	27.
1 JAN 1100	45	0.09	0.08	0.02	19.	*	1 JAN 2330	95	0.02	0.00	0.01	27.
1 JAN 1115	46	0.11	0.09	0.02	29.	*	1 JAN 2345	96	0.02	0.00	0.01	27.
1 JAN 1130	47	0.15	0.11	0.04	44.	*	2 JAN 0000	97	0.01	0.00	0.01	27.
1 JAN 1145	48	0.60	0.39	0.21	117.	*	2 JAN 0015	98	0.00	0.00	0.00	22.
1 JAN 1200	49	1.47	0.68	0.80	458.	*	2 JAN 0030	99	0.00	0.00	0.00	13.
1 JAN 1215	50	0.23	0.08	0.15	816.	*	2 JAN 0045	100	0.00	0.00	0.00	6.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.03, TOTAL EXCESS = 2.42

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
+ 816.	12.25	(CFS)	182.	56.	54.	54.
		(INCHES)	1.961	2.415	2.415	2.415
		(AC-FT)	90.	111.	111.	111.
CUMULATIVE AREA =		0.86 SQ MI				

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\* \*  
108 KK \* 4bB \*  
\* \*  
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109 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

112 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

110 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.61 SUBBASIN AREA

PRECIPITATION DATA

111 PB STORM 5.45 BASIN TOTAL PRECIPITATION

113 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

138 LS SCS LOSS RATE  
 STRTL 0.84 INITIAL ABSTRACTION  
 CRVNBR 70.50 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

139 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.35 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH					
9 END-OF-PERIOD ORDINATES					
322.	620.	368.	152.	64.	27.
				12.	5.
					2.

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HYDROGRAPH AT STATION 4bB

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100yr.out

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.16	0.05	0.11	457.	*
1	JAN	0015	2	0.01	0.01	0.00	0.	*	*	1	JAN	1245	52	0.11	0.03	0.07	282.	*
1	JAN	0030	3	0.01	0.01	0.00	0.	*	*	1	JAN	1300	53	0.09	0.03	0.06	186.	*
1	JAN	0045	4	0.01	0.01	0.00	0.	*	*	1	JAN	1315	54	0.08	0.02	0.05	135.	*
1	JAN	0100	5	0.01	0.01	0.00	0.	*	*	1	JAN	1330	55	0.07	0.02	0.05	105.	*
1	JAN	0115	6	0.01	0.01	0.00	0.	*	*	1	JAN	1345	56	0.06	0.02	0.04	88.	*
1	JAN	0130	7	0.02	0.02	0.00	0.	*	*	1	JAN	1400	57	0.05	0.02	0.04	75.	*
1	JAN	0145	8	0.02	0.02	0.00	0.	*	*	1	JAN	1415	58	0.05	0.01	0.04	65.	*
1	JAN	0200	9	0.02	0.02	0.00	0.	*	*	1	JAN	1430	59	0.05	0.01	0.03	59.	*
1	JAN	0215	10	0.02	0.02	0.00	0.	*	*	1	JAN	1445	60	0.04	0.01	0.03	55.	*
1	JAN	0230	11	0.02	0.02	0.00	0.	*	*	1	JAN	1500	61	0.04	0.01	0.03	52.	*
1	JAN	0245	12	0.02	0.02	0.00	0.	*	*	1	JAN	1515	62	0.04	0.01	0.03	49.	*
1	JAN	0300	13	0.02	0.02	0.00	0.	*	*	1	JAN	1530	63	0.04	0.01	0.03	47.	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*	*	1	JAN	1545	64	0.04	0.01	0.03	44.	*
1	JAN	0330	15	0.02	0.02	0.00	0.	*	*	1	JAN	1600	65	0.03	0.01	0.02	41.	*
1	JAN	0345	16	0.02	0.02	0.00	0.	*	*	1	JAN	1615	66	0.03	0.01	0.02	39.	*
1	JAN	0400	17	0.02	0.02	0.00	0.	*	*	1	JAN	1630	67	0.03	0.01	0.02	37.	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*	*	1	JAN	1645	68	0.03	0.01	0.02	36.	*
1	JAN	0430	19	0.02	0.02	0.00	0.	*	*	1	JAN	1700	69	0.03	0.01	0.02	35.	*
1	JAN	0445	20	0.02	0.02	0.00	0.	*	*	1	JAN	1715	70	0.03	0.01	0.02	34.	*
1	JAN	0500	21	0.02	0.02	0.00	0.	*	*	1	JAN	1730	71	0.03	0.01	0.02	33.	*
1	JAN	0515	22	0.02	0.02	0.00	0.	*	*	1	JAN	1745	72	0.03	0.01	0.02	32.	*
1	JAN	0530	23	0.02	0.02	0.00	0.	*	*	1	JAN	1800	73	0.02	0.01	0.02	31.	*
1	JAN	0545	24	0.02	0.02	0.00	0.	*	*	1	JAN	1815	74	0.02	0.01	0.02	30.	*
1	JAN	0600	25	0.02	0.02	0.00	0.	*	*	1	JAN	1830	75	0.02	0.01	0.02	29.	*
1	JAN	0615	26	0.02	0.02	0.00	0.	*	*	1	JAN	1845	76	0.02	0.01	0.02	28.	*
1	JAN	0630	27	0.03	0.03	0.00	0.	*	*	1	JAN	1900	77	0.02	0.01	0.02	27.	*
1	JAN	0645	28	0.03	0.03	0.00	0.	*	*	1	JAN	1915	78	0.02	0.01	0.02	26.	*
1	JAN	0700	29	0.03	0.03	0.00	0.	*	*	1	JAN	1930	79	0.02	0.00	0.02	25.	*
1	JAN	0715	30	0.03	0.03	0.00	0.	*	*	1	JAN	1945	80	0.02	0.00	0.01	24.	*
1	JAN	0730	31	0.03	0.03	0.00	0.	*	*	1	JAN	2000	81	0.02	0.00	0.01	23.	*
1	JAN	0745	32	0.03	0.03	0.00	0.	*	*	1	JAN	2015	82	0.02	0.00	0.01	22.	*
1	JAN	0800	33	0.03	0.03	0.00	0.	*	*	1	JAN	2030	83	0.02	0.00	0.01	21.	*
1	JAN	0815	34	0.03	0.03	0.00	0.	*	*	1	JAN	2045	84	0.02	0.00	0.01	21.	*
1	JAN	0830	35	0.04	0.04	0.00	0.	*	*	1	JAN	2100	85	0.02	0.00	0.01	21.	*
1	JAN	0845	36	0.04	0.04	0.00	0.	*	*	1	JAN	2115	86	0.02	0.00	0.01	21.	*
1	JAN	0900	37	0.04	0.04	0.00	0.	*	*	1	JAN	2130	87	0.02	0.00	0.01	20.	*
1	JAN	0915	38	0.04	0.04	0.00	0.	*	*	1	JAN	2145	88	0.02	0.00	0.01	20.	*
1	JAN	0930	39	0.04	0.04	0.00	0.	*	*	1	JAN	2200	89	0.02	0.00	0.01	20.	*
1	JAN	0945	40	0.05	0.04	0.00	1.	*	*	1	JAN	2215	90	0.02	0.00	0.01	20.	*
1	JAN	1000	41	0.05	0.05	0.00	2.	*	*	1	JAN	2230	91	0.02	0.00	0.01	20.	*
1	JAN	1015	42	0.06	0.05	0.00	4.	*	*	1	JAN	2245	92	0.02	0.00	0.01	19.	*
1	JAN	1030	43	0.07	0.06	0.01	7.	*	*	1	JAN	2300	93	0.02	0.00	0.01	19.	*
1	JAN	1045	44	0.08	0.07	0.01	10.	*	*	1	JAN	2315	94	0.02	0.00	0.01	19.	*
1	JAN	1100	45	0.09	0.08	0.02	15.	*	*	1	JAN	2330	95	0.02	0.00	0.01	19.	*
1	JAN	1115	46	0.11	0.09	0.02	22.	*	*	1	JAN	2345	96	0.02	0.00	0.01	19.	*
1	JAN	1130	47	0.15	0.11	0.04	34.	*	*	2	JAN	0000	97	0.01	0.00	0.01	19.	*
1	JAN	1145	48	0.60	0.39	0.21	101.	*	*	2	JAN	0015	98	0.00	0.00	0.00	15.	*
1	JAN	1200	49	1.47	0.68	0.80	404.	*	*	2	JAN	0030	99	0.00	0.00	0.00	7.	*
1	JAN	1215	50	0.23	0.08	0.15	628.	*	*	2	JAN	0045	100	0.00	0.00	0.00	3.	*

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.03, TOTAL EXCESS = 2.42

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)					
628.	12.25		129.	40.	38.	38.	
		(INCHES)	1.963	2.417	2.417	2.417	
		(AC-FT)	64.	79.	79.	79.	

CUMULATIVE AREA = 0.61 SQ MI

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*****
*
*
140 KK      4C *      CNAME      4R
*
*
*****

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141 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0      HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT      22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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142 HC      HYDROGRAPH COMBINATION
          ICOMP      3      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4C

100yr.out  
SUM OF 3 HYDROGRAPHS

```

*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
1 JAN 0000 1 0. * 1 JAN 0615 26 0. * 1 JAN 1230 51 2512. * 1 JAN 1845 76 139.
1 JAN 0015 2 0. * 1 JAN 0630 27 0. * 1 JAN 1245 52 1676. * 1 JAN 1900 77 134.
1 JAN 0030 3 0. * 1 JAN 0645 28 0. * 1 JAN 1300 53 1102. * 1 JAN 1915 78 129.
1 JAN 0045 4 0. * 1 JAN 0700 29 0. * 1 JAN 1315 54 779. * 1 JAN 1930 79 125.
1 JAN 0100 5 0. * 1 JAN 0715 30 0. * 1 JAN 1330 55 591. * 1 JAN 1945 80 121.
1 JAN 0115 6 0. * 1 JAN 0730 31 0. * 1 JAN 1345 56 476. * 1 JAN 2000 81 116.
1 JAN 0130 7 0. * 1 JAN 0745 32 0. * 1 JAN 1400 57 400. * 1 JAN 2015 82 111.
1 JAN 0145 8 0. * 1 JAN 0800 33 0. * 1 JAN 1415 58 345. * 1 JAN 2030 83 107.
1 JAN 0200 9 0. * 1 JAN 0815 34 0. * 1 JAN 1430 59 307. * 1 JAN 2045 84 104.
1 JAN 0215 10 0. * 1 JAN 0830 35 0. * 1 JAN 1445 60 281. * 1 JAN 2100 85 103.
1 JAN 0230 11 0. * 1 JAN 0845 36 0. * 1 JAN 1500 61 263. * 1 JAN 2115 86 102.
1 JAN 0245 12 0. * 1 JAN 0900 37 0. * 1 JAN 1515 62 248. * 1 JAN 2130 87 101.
1 JAN 0300 13 0. * 1 JAN 0915 38 0. * 1 JAN 1530 63 235. * 1 JAN 2145 88 100.
1 JAN 0315 14 0. * 1 JAN 0930 39 1. * 1 JAN 1545 64 222. * 1 JAN 2200 89 99.
1 JAN 0330 15 0. * 1 JAN 0945 40 3. * 1 JAN 1600 65 209. * 1 JAN 2215 90 98.
1 JAN 0345 16 0. * 1 JAN 1000 41 8. * 1 JAN 1615 66 197. * 1 JAN 2230 91 97.
1 JAN 0400 17 0. * 1 JAN 1015 42 16. * 1 JAN 1630 67 186. * 1 JAN 2245 92 96.
1 JAN 0415 18 0. * 1 JAN 1030 43 27. * 1 JAN 1645 68 178. * 1 JAN 2300 93 96.
1 JAN 0430 19 0. * 1 JAN 1045 44 43. * 1 JAN 1700 69 173. * 1 JAN 2315 94 95.
1 JAN 0445 20 0. * 1 JAN 1100 45 64. * 1 JAN 1715 70 167. * 1 JAN 2330 95 93.
1 JAN 0500 21 0. * 1 JAN 1115 46 95. * 1 JAN 1730 71 162. * 1 JAN 2345 96 92.
1 JAN 0515 22 0. * 1 JAN 1130 47 144. * 1 JAN 1745 72 158. * 2 JAN 0000 97 92.
1 JAN 0530 23 0. * 1 JAN 1145 48 369. * 1 JAN 1800 73 153. * 2 JAN 0015 98 80.
1 JAN 0545 24 0. * 1 JAN 1200 49 1418. * 1 JAN 1815 74 148. * 2 JAN 0030 99 50.
1 JAN 0600 25 0. * 1 JAN 1215 50 2654. * 1 JAN 1830 75 144. * 2 JAN 0045 100 24.
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PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR
+ 2654. 12.25 (CFS) 631. 194. 188. 188.
(INCHES) 1.961 2.415 2.415 2.415
(AC-FT) 313. 385. 385. 385.
CUMULATIVE AREA = 2.99 SQ MI

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*****
* *
143 KK * 4R * CNAME 4C
* *
*****

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144 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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145 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.09 MUSKINGUM K
X 0.20 MUSKINGUM X

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\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 4R

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*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
1 JAN 0000 1 0. * 1 JAN 0615 26 0. * 1 JAN 1230 51 2696. * 1 JAN 1845 76 141.
1 JAN 0015 2 0. * 1 JAN 0630 27 0. * 1 JAN 1245 52 2012. * 1 JAN 1900 77 136.
1 JAN 0030 3 0. * 1 JAN 0645 28 0. * 1 JAN 1300 53 1277. * 1 JAN 1915 78 131.
1 JAN 0045 4 0. * 1 JAN 0700 29 0. * 1 JAN 1315 54 881. * 1 JAN 1930 79 127.
1 JAN 0100 5 0. * 1 JAN 0715 30 0. * 1 JAN 1330 55 650. * 1 JAN 1945 80 122.
1 JAN 0115 6 0. * 1 JAN 0730 31 0. * 1 JAN 1345 56 513. * 1 JAN 2000 81 118.
1 JAN 0130 7 0. * 1 JAN 0745 32 0. * 1 JAN 1400 57 425. * 1 JAN 2015 82 113.
1 JAN 0145 8 0. * 1 JAN 0800 33 0. * 1 JAN 1415 58 364. * 1 JAN 2030 83 108.
1 JAN 0200 9 0. * 1 JAN 0815 34 0. * 1 JAN 1430 59 319. * 1 JAN 2045 84 105.
1 JAN 0215 10 0. * 1 JAN 0830 35 0. * 1 JAN 1445 60 289. * 1 JAN 2100 85 104.
1 JAN 0230 11 0. * 1 JAN 0845 36 0. * 1 JAN 1500 61 269. * 1 JAN 2115 86 103.
1 JAN 0245 12 0. * 1 JAN 0900 37 0. * 1 JAN 1515 62 254. * 1 JAN 2130 87 101.
1 JAN 0300 13 0. * 1 JAN 0915 38 0. * 1 JAN 1530 63 240. * 1 JAN 2145 88 100.
*****

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100yr.out														
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	226.	*	1 JAN 2200	89	99.
1 JAN 0330	15	0.	*	1 JAN 0945	40	2.	*	1 JAN 1600	65	214.	*	1 JAN 2215	90	99.
1 JAN 0345	16	0.	*	1 JAN 1000	41	6.	*	1 JAN 1615	66	201.	*	1 JAN 2230	91	98.
1 JAN 0400	17	0.	*	1 JAN 1015	42	13.	*	1 JAN 1630	67	190.	*	1 JAN 2245	92	96.
1 JAN 0415	18	0.	*	1 JAN 1030	43	23.	*	1 JAN 1645	68	181.	*	1 JAN 2300	93	96.
1 JAN 0430	19	0.	*	1 JAN 1045	44	37.	*	1 JAN 1700	69	175.	*	1 JAN 2315	94	95.
1 JAN 0445	20	0.	*	1 JAN 1100	45	56.	*	1 JAN 1715	70	169.	*	1 JAN 2330	95	94.
1 JAN 0500	21	0.	*	1 JAN 1115	46	83.	*	1 JAN 1730	71	164.	*	1 JAN 2345	96	93.
1 JAN 0515	22	0.	*	1 JAN 1130	47	124.	*	1 JAN 1745	72	159.	*	2 JAN 0000	97	92.
1 JAN 0530	23	0.	*	1 JAN 1145	48	271.	*	1 JAN 1800	73	155.	*	2 JAN 0015	98	85.
1 JAN 0545	24	0.	*	1 JAN 1200	49	961.	*	1 JAN 1815	74	150.	*	2 JAN 0030	99	62.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2206.	*	1 JAN 1830	75	145.	*	2 JAN 0045	100	33.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
2696.	12.50	630.	194.	188.	188.	
		(INCHES)	1.959	2.413	2.413	2.413
		(AC-FT)	313.	385.	385.	385.

CUMULATIVE AREA = 2.99 SQ MI

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 \* \*  
 146 KK \* 3B \*  
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147 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

150 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

148 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.99 SUBBASIN AREA

PRECIPITATION DATA

149 PB STORM 5.45 BASIN TOTAL PRECIPITATION

151 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

176 LS SCS LOSS RATE  
 STRTL 0.83 INITIAL ABSTRACTION  
 CRVNBR 70.71 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

177 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.34 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH											
9 END-OF-PERIOD ORDINATES											
573.	1035.	560.	229.	95.	39.	16.	7.	1.			

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HYDROGRAPH AT STATION 3B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	722.

100yr.out												
1 JAN 0015	2	0.01	0.01	0.00	0.	*	1 JAN 1245	52	0.11	0.03	0.07	445.
1 JAN 0030	3	0.01	0.01	0.00	0.	*	1 JAN 1300	53	0.09	0.03	0.06	294.
1 JAN 0045	4	0.01	0.01	0.00	0.	*	1 JAN 1315	54	0.08	0.02	0.05	213.
1 JAN 0100	5	0.01	0.01	0.00	0.	*	1 JAN 1330	55	0.07	0.02	0.05	168.
1 JAN 0115	6	0.01	0.01	0.00	0.	*	1 JAN 1345	56	0.06	0.02	0.04	140.
1 JAN 0130	7	0.02	0.02	0.00	0.	*	1 JAN 1400	57	0.05	0.02	0.04	119.
1 JAN 0145	8	0.02	0.02	0.00	0.	*	1 JAN 1415	58	0.05	0.01	0.04	105.
1 JAN 0200	9	0.02	0.02	0.00	0.	*	1 JAN 1430	59	0.05	0.01	0.03	96.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	89.
1 JAN 0230	11	0.02	0.02	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	85.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.04	0.01	0.03	80.
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.04	0.01	0.03	76.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.04	0.01	0.03	72.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	67.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	63.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	60.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	58.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.03	0.01	0.02	56.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.03	0.01	0.02	55.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.03	0.01	0.02	53.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.03	0.01	0.02	52.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	50.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.02	48.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.02	47.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.02	46.
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.01	0.02	44.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.01	0.02	42.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	41.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	39.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	38.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	36.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	35.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	34.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	34.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	34.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	33.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.02	0.00	0.01	33.
1 JAN 0930	39	0.04	0.04	0.00	1.	*	1 JAN 2200	89	0.02	0.00	0.01	33.
1 JAN 0945	40	0.05	0.04	0.00	2.	*	1 JAN 2215	90	0.02	0.00	0.01	32.
1 JAN 1000	41	0.05	0.05	0.00	4.	*	1 JAN 2230	91	0.02	0.00	0.01	32.
1 JAN 1015	42	0.06	0.05	0.00	7.	*	1 JAN 2245	92	0.02	0.00	0.01	32.
1 JAN 1030	43	0.07	0.06	0.01	12.	*	1 JAN 2300	93	0.02	0.00	0.01	32.
1 JAN 1045	44	0.08	0.07	0.01	18.	*	1 JAN 2315	94	0.02	0.00	0.01	31.
1 JAN 1100	45	0.09	0.08	0.02	26.	*	1 JAN 2330	95	0.02	0.00	0.01	31.
1 JAN 1115	46	0.11	0.09	0.02	38.	*	1 JAN 2345	96	0.02	0.00	0.01	31.
1 JAN 1130	47	0.15	0.11	0.04	58.	*	2 JAN 0000	97	0.01	0.00	0.01	30.
1 JAN 1145	48	0.60	0.39	0.21	177.	*	2 JAN 0015	98	0.00	0.00	0.00	23.
1 JAN 1200	49	1.47	0.67	0.80	706.	*	2 JAN 0030	99	0.00	0.00	0.00	11.
1 JAN 1215	50	0.23	0.08	0.15	1049.	*	2 JAN 0045	100	0.00	0.00	0.00	5.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.01, TOTAL EXCESS = 2.44

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(INCHES)	(AC-FT)	(AC-FT)
1049.	12.25	211.	1.978	104.	63.
			2.435	129.	2.435
			2.435	129.	2.435

CUMULATIVE AREA = 0.99 SQ MI

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*          *
178 KK    3C *      CNAME    3R
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179 KO      OUTPUT CONTROL VARIABLES
            IPRNT    1  PRINT CONTROL
            IPLOT    0  PLOT CONTROL
            QSCAL    0. HYDROGRAPH PLOT SCALE
            IPNCH    0  PUNCH COMPUTED HYDROGRAPH
            IOUT     22 SAVE HYDROGRAPH ON THIS UNIT
            ISAV1    1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2    100 LAST ORDINATE PUNCHED OR SAVED
            TIMINT   0.250 TIME INTERVAL IN HOURS

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180 HC      HYDROGRAPH COMBINATION
            ICOMP    2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
SUM OF 2 HYDROGRAPHS

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				100yr.out													
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3418.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2458.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1572.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1095.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	818.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	653.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	544.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	469.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	415.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	379.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	353.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	334.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	315.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1.	*	1	JAN	1545	64	298.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	4.	*	1	JAN	1600	65	281.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	10.	*	1	JAN	1615	66	264.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	20.	*	1	JAN	1630	67	250.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	35.	*	1	JAN	1645	68	239.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	54.	*	1	JAN	1700	69	231.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	81.	*	1	JAN	1715	70	224.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	121.	*	1	JAN	1730	71	217.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	182.	*	1	JAN	1745	72	211.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	447.	*	1	JAN	1800	73	205.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1668.	*	1	JAN	1815	74	198.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3255.	*	1	JAN	1830	75	192.	*

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
3418.	12.50	841.	259.	251.	251.
		(INCHES)	1.964	2.419	2.419
		(AC-FT)	417.	514.	514.
CUMULATIVE AREA =		3.98 SQ MI			

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*****
*
181 KK *      3R *      CNAME      3C
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182 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
          IPNCH      0 PUNCH COMPUTED HYDROGRAPH
          IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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183 RM      MUSKINGUM ROUTING
          NSTPS      1 NUMBER OF SUBREACHES
          AMSKK      0.09 MUSKINGUM K
          X          0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 3R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3497.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2882.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1872.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1238.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	909.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	706.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	581.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	494.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	434.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	391.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	362.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	341.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	322.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	304.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	3.	*	1	JAN	1600	65	287.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	8.	*	1	JAN	1615	66	270.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	16.	*	1	JAN	1630	67	255.	*

100yr.out

1 JAN 0415	18	0.	*	1 JAN 1030	43	29.	*	1 JAN 1645	68	243.	*	1 JAN 2300	93	128.
1 JAN 0430	19	0.	*	1 JAN 1045	44	47.	*	1 JAN 1700	69	234.	*	1 JAN 2315	94	127.
1 JAN 0445	20	0.	*	1 JAN 1100	45	71.	*	1 JAN 1715	70	227.	*	1 JAN 2330	95	126.
1 JAN 0500	21	0.	*	1 JAN 1115	46	105.	*	1 JAN 1730	71	220.	*	1 JAN 2345	96	124.
1 JAN 0515	22	0.	*	1 JAN 1130	47	158.	*	1 JAN 1745	72	213.	*	2 JAN 0000	97	123.
1 JAN 0530	23	0.	*	1 JAN 1145	48	331.	*	1 JAN 1800	73	207.	*	2 JAN 0015	98	115.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1133.	*	1 JAN 1815	74	201.	*	2 JAN 0030	99	88.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2658.	*	1 JAN 1830	75	194.	*	2 JAN 0045	100	50.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
3497.	12.50		840.	259.	251.	251.
		(INCHES)	1.962	2.417	2.417	2.417
		(AC-FT)	417.	513.	513.	513.

CUMULATIVE AREA = 3.98 SQ MI

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 \* \*  
 184 KK \* 2B \*  
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185 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

188 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

186 BA SUBBASIN CHARACTERISTICS

TAREA,	0.84	SUBBASIN AREA
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PRECIPITATION DATA

187 PB STORM 5.45 BASIN TOTAL PRECIPITATION

189 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

214 LS SCS LOSS RATE

STRTL	0.82	INITIAL ABSTRACTION
CRVNBR	71.04	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

215 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.30	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES

610.	907.	400.	156.	60.	23.	9.	3.
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HYDROGRAPH AT STATION 2B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 0000	1	0.00	0.00	0.00	0.00	0.00	0.	*	1 JAN 1230	51	0.16	0.05	0.11	0.11	567.	
1 JAN 0015	2	0.01	0.01	0.00	0.00	0.00	0.	*	1 JAN 1245	52	0.11	0.03	0.08	0.08	346.	
1 JAN 0030	3	0.01	0.01	0.00	0.00	0.00	0.	*	1 JAN 1300	53	0.09	0.03	0.06	0.06	229.	
1 JAN 0045	4	0.01	0.01	0.00	0.00	0.00	0.	*	1 JAN 1315	54	0.08	0.02	0.05	0.05	169.	
1 JAN 0100	5	0.01	0.01	0.00	0.00	0.00	0.	*	1 JAN 1330	55	0.07	0.02	0.05	0.05	135.	

100yr.out

1 JAN 0115	6	0.01	0.01	0.00	0.	*	1 JAN 1345	56	0.06	0.02	0.04	114.
1 JAN 0130	7	0.02	0.02	0.00	0.	*	1 JAN 1400	57	0.05	0.02	0.04	98.
1 JAN 0145	8	0.02	0.02	0.00	0.	*	1 JAN 1415	58	0.05	0.01	0.04	88.
1 JAN 0200	9	0.02	0.02	0.00	0.	*	1 JAN 1430	59	0.05	0.01	0.03	80.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	75.
1 JAN 0230	11	0.02	0.02	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	71.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.04	0.01	0.03	68.
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.04	0.01	0.03	64.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.04	0.01	0.03	60.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	57.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	53.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	51.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	49.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.03	0.01	0.02	48.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.03	0.01	0.02	46.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.03	0.01	0.02	45.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.03	0.01	0.02	44.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	42.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.02	41.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.02	40.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.02	39.
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.01	0.02	37.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	36.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	35.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	33.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	32.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	31.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	30.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	29.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	29.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	29.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	28.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.02	0.00	0.01	28.
1 JAN 0930	39	0.04	0.04	0.00	1.	*	1 JAN 2200	89	0.02	0.00	0.01	28.
1 JAN 0945	40	0.05	0.04	0.00	2.	*	1 JAN 2215	90	0.02	0.00	0.01	28.
1 JAN 1000	41	0.05	0.05	0.00	5.	*	1 JAN 2230	91	0.02	0.00	0.01	27.
1 JAN 1015	42	0.06	0.05	0.01	7.	*	1 JAN 2245	92	0.02	0.00	0.01	27.
1 JAN 1030	43	0.07	0.06	0.01	11.	*	1 JAN 2300	93	0.02	0.00	0.01	27.
1 JAN 1045	44	0.08	0.07	0.01	17.	*	1 JAN 2315	94	0.02	0.00	0.01	27.
1 JAN 1100	45	0.09	0.07	0.02	24.	*	1 JAN 2330	95	0.02	0.00	0.01	26.
1 JAN 1115	46	0.11	0.09	0.02	36.	*	1 JAN 2345	96	0.02	0.00	0.01	26.
1 JAN 1130	47	0.15	0.11	0.04	54.	*	2 JAN 0000	97	0.01	0.00	0.01	26.
1 JAN 1145	48	0.60	0.38	0.21	178.	*	2 JAN 0015	98	0.00	0.00	0.00	18.
1 JAN 1200	49	1.47	0.66	0.81	711.	*	2 JAN 0030	99	0.00	0.00	0.00	8.
1 JAN 1215	50	0.23	0.08	0.15	926.	*	2 JAN 0045	100	0.00	0.00	0.00	3.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.98, TOTAL EXCESS = 2.47

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
926.	12.25	181.	56.	54.	54.
		(INCHES)	2.001	2.464	2.464
		(AC-FT)	90.	110.	110.

CUMULATIVE AREA = 0.84 SQ MI

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 216 KK            2C            CNAME            2R  
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217 KO            OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

218 HC            HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION            2C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	4064.	1	JAN	1845	76	227.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	3229.	1	JAN	1900	77	219.



100yr.out

1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	2101.	*	1 JAN 1915	78	212.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1407.	*	1 JAN 1930	79	204.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	1045.	*	1 JAN 1945	80	197.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	820.	*	1 JAN 2000	81	189.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	679.	*	1 JAN 2015	82	182.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	582.	*	1 JAN 2030	83	175.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	514.	*	1 JAN 2045	84	170.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	466.	*	1 JAN 2100	85	167.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	433.	*	1 JAN 2115	86	166.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	408.	*	1 JAN 2130	87	163.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	386.	*	1 JAN 2145	88	162.
1 JAN 0315	14	0.	*	1 JAN 0930	39	1.	*	1 JAN 1545	64	365.	*	1 JAN 2200	89	160.
1 JAN 0330	15	0.	*	1 JAN 0945	40	5.	*	1 JAN 1600	65	344.	*	1 JAN 2215	90	159.
1 JAN 0345	16	0.	*	1 JAN 1000	41	12.	*	1 JAN 1615	66	324.	*	1 JAN 2230	91	158.
1 JAN 0400	17	0.	*	1 JAN 1015	42	24.	*	1 JAN 1630	67	306.	*	1 JAN 2245	92	156.
1 JAN 0415	18	0.	*	1 JAN 1030	43	41.	*	1 JAN 1645	68	292.	*	1 JAN 2300	93	155.
1 JAN 0430	19	0.	*	1 JAN 1045	44	63.	*	1 JAN 1700	69	282.	*	1 JAN 2315	94	154.
1 JAN 0445	20	0.	*	1 JAN 1100	45	95.	*	1 JAN 1715	70	273.	*	1 JAN 2330	95	152.
1 JAN 0500	21	0.	*	1 JAN 1115	46	141.	*	1 JAN 1730	71	265.	*	1 JAN 2345	96	150.
1 JAN 0515	22	0.	*	1 JAN 1130	47	212.	*	1 JAN 1745	72	257.	*	2 JAN 0000	97	149.
1 JAN 0530	23	0.	*	1 JAN 1145	48	509.	*	1 JAN 1800	73	250.	*	2 JAN 0015	98	133.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1844.	*	1 JAN 1815	74	242.	*	2 JAN 0030	99	96.
1 JAN 0600	25	0.	*	1 JAN 1215	50	3584.	*	1 JAN 1830	75	234.	*	2 JAN 0045	100	53.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
4064.	12.50		1021.	314.	305.	305.
		(INCHES)	1.969	2.425	2.425	2.425
		(AC-FT)	506.	624.	624.	624.

CUMULATIVE AREA = 4.82 SQ MI

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219 KK      *      2R      *      CNAME      2C
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220 KO      OUTPUT CONTROL VARIABLES
            IPRNT      1      PRINT CONTROL
            IPLOT      0      PLOT CONTROL
            QSCAL      0.    HYDROGRAPH PLOT SCALE
            IPNCH      0      PUNCH COMPUTED HYDROGRAPH
            IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250  TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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221 RM      MUSKINGUM ROUTING
            NSTPS      1      NUMBER OF SUBREACHES
            AMSKK      0.11   MUSKINGUM K
            X          0.20   MUSKINGUM X

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\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 2R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3963.	*	1	JAN	1845	76	230.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	3672.	*	1	JAN	1900	77	223.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2591.	*	1	JAN	1915	78	215.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1668.	*	1	JAN	1930	79	207.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	1180.	*	1	JAN	1945	80	200.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	909.	*	1	JAN	2000	81	193.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	734.	*	1	JAN	2015	82	185.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	621.	*	1	JAN	2030	83	178.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	541.	*	1	JAN	2045	84	172.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	485.	*	1	JAN	2100	85	168.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	446.	*	1	JAN	2115	86	166.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	419.	*	1	JAN	2130	87	164.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	395.	*	1	JAN	2145	88	162.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1.	*	1	JAN	1545	64	374.	*	1	JAN	2200	89	161.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	3.	*	1	JAN	1600	65	353.	*	1	JAN	2215	90	160.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	9.	*	1	JAN	1615	66	332.	*	1	JAN	2230	91	158.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	19.	*	1	JAN	1630	67	314.	*	1	JAN	2245	92	157.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	33.	*	1	JAN	1645	68	298.	*	1	JAN	2300	93	155.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	53.	*	1	JAN	1700	69	286.	*	1	JAN	2315	94	154.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	81.	*	1	JAN	1715	70	277.	*	1	JAN	2330	95	153.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	121.	*	1	JAN	1730	71	268.	*	1	JAN	2345	96	151.	*

100yr.out  
 1 JAN 0515 22 0. \* 1 JAN 1130 47 180. \* 1 JAN 1745 72 260. \* 2 JAN 0000 97 149.  
 1 JAN 0530 23 0. \* 1 JAN 1145 48 364. \* 1 JAN 1800 73 253. \* 2 JAN 0015 98 141.  
 1 JAN 0545 24 0. \* 1 JAN 1200 49 1193. \* 1 JAN 1815 74 245. \* 2 JAN 0030 99 113.  
 1 JAN 0600 25 0. \* 1 JAN 1215 50 2822. \* 1 JAN 1830 75 238. \* 2 JAN 0045 100 71.  
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PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 + (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
 + 3963. 12.50 (CFS) 1019. 314. 305. 305.  
 (INCHES) 1.966 2.423 2.423 2.423  
 (AC-FT) 505. 623. 623. 623.

CUMULATIVE AREA = 4.82 SQ MI

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 222 KK 1B \*  
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223 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

226 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

224 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.70 SUBBASIN AREA

PRECIPITATION DATA

225 PB STORM 5.45 BASIN TOTAL PRECIPITATION

227 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

252 LS SCS LOSS RATE  
 STRTL 0.80 INITIAL ABSTRACTION  
 CRVNBR 71.35 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

253 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.29 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES  
 528. 755. 321. 122. 46. 18. 7. 2.

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HYDROGRAPH AT STATION 1B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	468.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	284.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.06	188.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	139.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	112.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	94.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.04	82.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	73.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	67.

100yr.out

1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	63.
1 JAN 0230	11	0.02	0.02	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	59.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.04	0.01	0.03	56.
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.04	0.01	0.03	53.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.04	0.01	0.03	50.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	47.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	44.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	42.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	41.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.03	0.01	0.02	40.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.03	0.01	0.02	39.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.03	0.01	0.02	38.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.03	0.01	0.02	37.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	35.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.02	34.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.02	33.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.02	32.
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.02	31.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	30.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	29.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	28.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	26.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	25.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	25.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	24.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	24.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	24.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	24.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.02	0.00	0.01	23.
1 JAN 0930	39	0.04	0.04	0.00	1.	*	1 JAN 2200	89	0.02	0.00	0.01	23.
1 JAN 0945	40	0.05	0.04	0.00	2.	*	1 JAN 2215	90	0.02	0.00	0.01	23.
1 JAN 1000	41	0.05	0.05	0.00	4.	*	1 JAN 2230	91	0.02	0.00	0.01	23.
1 JAN 1015	42	0.06	0.05	0.01	7.	*	1 JAN 2245	92	0.02	0.00	0.01	23.
1 JAN 1030	43	0.07	0.06	0.01	10.	*	1 JAN 2300	93	0.02	0.00	0.01	23.
1 JAN 1045	44	0.08	0.07	0.01	15.	*	1 JAN 2315	94	0.02	0.00	0.01	22.
1 JAN 1100	45	0.09	0.07	0.02	21.	*	1 JAN 2330	95	0.02	0.00	0.01	22.
1 JAN 1115	46	0.11	0.09	0.03	31.	*	1 JAN 2345	96	0.02	0.00	0.01	22.
1 JAN 1130	47	0.15	0.11	0.04	47.	*	2 JAN 0000	97	0.01	0.00	0.01	22.
1 JAN 1145	48	0.60	0.38	0.22	156.	*	2 JAN 0015	98	0.00	0.00	0.00	15.
1 JAN 1200	49	1.47	0.65	0.82	616.	*	2 JAN 0030	99	0.00	0.00	0.00	6.
1 JAN 1215	50	0.23	0.08	0.16	780.	*	2 JAN 0045	100	0.00	0.00	0.00	2.

\*\*\*\*\*

TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.96, TOTAL EXCESS = 2.49

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(INCHES)	(AC-FT)	
780.	12.25	152.	2.023	75.	
		47.	2.491	93.	24.75-HR
		45.	2.491	93.	24.75-HR
		45.	2.491	93.	24.75-HR

CUMULATIVE AREA = 0.70 SQ MI

\*\*\* \*\*

\*\*\*\*\*  
 254 KK 1C \* CNAME 1C  
 \* \*  
 \*\*\*\*\*

255 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

256 HC HYDROGRAPH COMBINATION  
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

\*\*\*

\*\*\*\*\*

HYDROGRAPH AT STATION 1C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	4431.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	3956.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	2779.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	1807.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	1292.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	1003.
										1	JAN	1845	76	262.
										1	JAN	1900	77	254.
										1	JAN	1915	78	245.
										1	JAN	1930	79	236.
										1	JAN	1945	80	228.
										1	JAN	2000	81	219.

100yr.out

1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	816.	*	1 JAN 2015	82	210.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	694.	*	1 JAN 2030	83	202.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	608.	*	1 JAN 2045	84	196.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	548.	*	1 JAN 2100	85	193.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	506.	*	1 JAN 2115	86	190.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	475.	*	1 JAN 2130	87	188.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	449.	*	1 JAN 2145	88	186.
1 JAN 0315	14	0.	*	1 JAN 0930	39	2.	*	1 JAN 1545	64	424.	*	1 JAN 2200	89	184.
1 JAN 0330	15	0.	*	1 JAN 0945	40	6.	*	1 JAN 1600	65	400.	*	1 JAN 2215	90	183.
1 JAN 0345	16	0.	*	1 JAN 1000	41	13.	*	1 JAN 1615	66	377.	*	1 JAN 2230	91	181.
1 JAN 0400	17	0.	*	1 JAN 1015	42	25.	*	1 JAN 1630	67	356.	*	1 JAN 2245	92	179.
1 JAN 0415	18	0.	*	1 JAN 1030	43	43.	*	1 JAN 1645	68	339.	*	1 JAN 2300	93	178.
1 JAN 0430	19	0.	*	1 JAN 1045	44	68.	*	1 JAN 1700	69	326.	*	1 JAN 2315	94	176.
1 JAN 0445	20	0.	*	1 JAN 1100	45	102.	*	1 JAN 1715	70	315.	*	1 JAN 2330	95	174.
1 JAN 0500	21	0.	*	1 JAN 1115	46	152.	*	1 JAN 1730	71	306.	*	1 JAN 2345	96	172.
1 JAN 0515	22	0.	*	1 JAN 1130	47	227.	*	1 JAN 1745	72	297.	*	2 JAN 0000	97	171.
1 JAN 0530	23	0.	*	1 JAN 1145	48	520.	*	1 JAN 1800	73	288.	*	2 JAN 0015	98	156.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1809.	*	1 JAN 1815	74	279.	*	2 JAN 0030	99	120.
1 JAN 0600	25	0.	*	1 JAN 1215	50	3601.	*	1 JAN 1830	75	271.	*	2 JAN 0045	100	74.

\*\*\*\*\*

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
4431.	12.50		1171.	361.	350.	350.
		(INCHES)	1.973	2.432	2.432	2.432
		(AC-FT)	581.	716.	716.	716.

CUMULATIVE AREA = 5.52 SQ MI

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*****
*
257 KK      1C *      CNAME      1C
*
*****

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```

258 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
          IPNCH      0 PUNCH COMPUTED HYDROGRAPH
          IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250 TIME INTERVAL IN HOURS

```

HYDROGRAPH ROUTING DATA

259 RN NO ROUTING

\*\*\*

HYDROGRAPH AT STATION 1C

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	4431.	*	1 JAN 1845	76	262.															
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	3956.	*	1 JAN 1900	77	254.															
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	2779.	*	1 JAN 1915	78	245.															
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1807.	*	1 JAN 1930	79	236.															
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	1292.	*	1 JAN 1945	80	228.															
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	1003.	*	1 JAN 2000	81	219.															
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	816.	*	1 JAN 2015	82	210.															
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	694.	*	1 JAN 2030	83	202.															
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	608.	*	1 JAN 2045	84	196.															
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	548.	*	1 JAN 2100	85	193.															
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	506.	*	1 JAN 2115	86	190.															
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	475.	*	1 JAN 2130	87	188.															
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	449.	*	1 JAN 2145	88	186.															
1 JAN 0315	14	0.	*	1 JAN 0930	39	2.	*	1 JAN 1545	64	424.	*	1 JAN 2200	89	184.															
1 JAN 0330	15	0.	*	1 JAN 0945	40	6.	*	1 JAN 1600	65	400.	*	1 JAN 2215	90	183.															
1 JAN 0345	16	0.	*	1 JAN 1000	41	13.	*	1 JAN 1615	66	377.	*	1 JAN 2230	91	181.															
1 JAN 0400	17	0.	*	1 JAN 1015	42	25.	*	1 JAN 1630	67	356.	*	1 JAN 2245	92	179.															
1 JAN 0415	18	0.	*	1 JAN 1030	43	43.	*	1 JAN 1645	68	339.	*	1 JAN 2300	93	178.															
1 JAN 0430	19	0.	*	1 JAN 1045	44	68.	*	1 JAN 1700	69	326.	*	1 JAN 2315	94	176.															
1 JAN 0445	20	0.	*	1 JAN 1100	45	102.	*	1 JAN 1715	70	315.	*	1 JAN 2330	95	174.															
1 JAN 0500	21	0.	*	1 JAN 1115	46	152.	*	1 JAN 1730	71	306.	*	1 JAN 2345	96	172.															
1 JAN 0515	22	0.	*	1 JAN 1130	47	227.	*	1 JAN 1745	72	297.	*	2 JAN 0000	97	171.															
1 JAN 0530	23	0.	*	1 JAN 1145	48	520.	*	1 JAN 1800	73	288.	*	2 JAN 0015	98	156.															
1 JAN 0545	24	0.	*	1 JAN 1200	49	1809.	*	1 JAN 1815	74	279.	*	2 JAN 0030	99	120.															
1 JAN 0600	25	0.	*	1 JAN 1215	50	3601.	*	1 JAN 1830	75	271.	*	2 JAN 0045	100	74.															

\*\*\*\*\*

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
4431.	12.50		1171.	361.	350.	350.
		(INCHES)	1.973	2.432	2.432	2.432
		(AC-FT)	581.	716.	716.	716.

100yr.out

+	(CFS)	(HR)					
+	4431.	12.50	(CFS)	1171.	361.	350.	350.
			(INCHES)	1.973	2.432	2.432	2.432
			(AC-FT)	581.	716.	716.	716.
			CUMULATIVE AREA =	5.52 SQ MI			

RUNOFF SUMMARY  
 FLOW IN CUBIC FEET PER SECOND  
 TIME IN HOURS, AREA IN SQUARE MILES

+	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT	5bB	876.	12.25	206.	63.	61.	0.97		
+	HYDROGRAPH AT	5aB	588.	12.25	115.	35.	34.	0.54		
+	2 COMBINED AT	5C	1465.	12.25	320.	99.	96.	1.52		
+	ROUTED TO	5R	1353.	12.50	320.	98.	95.	1.52		
+	HYDROGRAPH AT	4aB	816.	12.25	182.	56.	54.	0.86		
+	HYDROGRAPH AT	4bB	628.	12.25	129.	40.	38.	0.61		
+	3 COMBINED AT	4C	2654.	12.25	631.	194.	188.	2.99		
+	ROUTED TO	4R	2696.	12.50	630.	194.	188.	2.99		
+	HYDROGRAPH AT	3B	1049.	12.25	211.	65.	63.	0.99		
+	2 COMBINED AT	3C	3418.	12.50	841.	259.	251.	3.98		
+	ROUTED TO	3R	3497.	12.50	840.	259.	251.	3.98		
+	HYDROGRAPH AT	2B	926.	12.25	181.	56.	54.	0.84		
+	2 COMBINED AT	2C	4064.	12.50	1021.	314.	305.	4.82		
+	ROUTED TO	2R	3963.	12.50	1019.	314.	305.	4.82		
+	HYDROGRAPH AT	1B	780.	12.25	152.	47.	45.	0.70		
+	2 COMBINED AT	1C	4431.	12.50	1171.	361.	350.	5.52		
+	ROUTED TO	1C	4431.	12.50	1171.	361.	350.	5.52		

\*\*\* NORMAL END OF HEC-1 \*\*\*

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
*****

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*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
*****

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X X XXXXXXX XXXXX X
X X X X X XX
X X X X X
XXXXXXXX XXXX X XXXXX X
X X X X X
X X X X X
X X XXXXXXX XXXXX XXX

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID Seng Creek
2 ID wo Mining & w Logging (Scenario 5), USGS DEM Data
3 ID Storm Event
*DIAGRAM
4 IT 15 1JAN94 0 100
5 IO 1
* Gage XY Position 455909.00000 4205486.00000 1
6 PG Gage 3.9
7 IN 15 1JAN94 0
* Seng Rainfall Distribution
8 PC 0.0 0.0 0.0 0.0 0.025 0.05 0.075 0.1 0.125
9 PC 0.15 0.175 0.2 0.225 0.25 0.275 0.3 0.325 0.35 0.375
10 PC 0.4 0.5875 0.775 0.9625 1.15 1.2125 1.275 1.3375 1.4 1.525
11 PC 1.65 1.775 1.9 2.275 2.65 3.025 3.4 3.525 3.65 3.775
12 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
13 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
14 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
15 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
16 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
17 PC 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
18 KK 5bB
19 KO 0 0 0 1 22
20 BA 0.9747
21 PR Gage
22 PW 1.0
23 PT Gage
24 PW 0.877
25 LS 0.0 70.86 0.0
26 UD 0.4358
27 KK 5aB
28 KO 0 0 0 1 22
29 BA 0.5424
30 PR Gage
31 PW 1.0
32 PT Gage
33 PW 0.877
34 LS 0.0 72.53 0.0
35 UD 0.2908
36 KK 5C CNAME 5R
37 KO 0 0 0 0 22
38 HC 2
39 KK 5R CNAME 5C
40 KO 0 0 0 0 22
41 RM 0 0.122 0.2
42 KK 4aB
43 KO 0 0 0 1 22
44 BA 0.8649
45 PR Gage
46 PW 1.0
47 PT Gage

```

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
48 PW 0.877

```

LINE	TYPE	VALUE	NAME	VALUE	NAME	VALUE	NAME
49	LS	0.0	73.51	0.0			Event.out
50	UD	0.4078					
51	KK	4bB					
52	KO	0	0	0.0	1	22	
53	BA	0.6091					
54	PR	Gage					
55	PW	1.0					
56	PT	Gage					
57	PW	0.877					
58	LS	0.0	71.37	0.0			
59	UD	0.3512					
60	KK	4C	CNAME	4R			
61	KO	0	0	0.0	0	22	
62	HC	3					
63	KK	4R	CNAME	4C			
64	KO	0	0	0.0	0	22	
65	RM	0	0.088	0.2			
66	KK	3B					
67	KO	0	0	0.0	1	22	
68	BA	0.99					
69	PR	Gage					
70	PW	1.0					
71	PT	Gage					
72	PW	0.877					
73	LS	0.0	72.67	0.0			
74	UD	0.3368					
75	KK	3C	CNAME	3R			
76	KO	0	0	0.0	0	22	
77	HC	2					
78	KK	3R	CNAME	3C			
79	KO	0	0	0.0	0	22	
80	RM	0	0.089	0.2			
81	KK	2B					
82	KO	0	0	0.0	1	22	
83	BA	0.8395					
84	PR	Gage					
85	PW	1.0					
86	PT	Gage					
87	PW	0.877					
88	LS	0.0	71.81	0.0			
89	UD	0.3008					

HEC-1 INPUT

PAGE 3

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

90	KK	2C	CNAME	2R			
91	KO	0	0	0.0	0	22	
92	HC	2					
93	KK	2R	CNAME	2C			
94	KO	0	0	0.0	0	22	
95	RM	0	0.103	0.2			
96	KK	1B					
97	KO	0	0	0.0	1	22	
98	BA	0.6967					
99	PR	Gage					
100	PW	1.0					
101	PT	Gage					
102	PW	0.877					
103	LS	0.0	72.29	0.0			
104	UD	0.2942					
105	KK	1C	CNAME	1C			
106	KO	0	0	0.0	0	22	
107	HC	2					
108	KK	1C	CNAME	1C			
109	KO	0	0	0.0	0	22	
110	RN	1C					
111	ZZ						

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW  
 NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

18 5bB  
 .  
 27 . 5aB  
 .  
 36 5C.....  
 V  
 V  
 39 5R  
 .  
 .

```

42      .      4aB
      .
      .
51      .      .      4bB
      .
      .
60      4C.....
      V
      V
63      4R
      .
      .
66      .      3B
      .
      .
75      3C.....
      V
      V
78      3R
      .
      .
81      .      2B
      .
      .
90      2C.....
      V
      V
93      2R
      .
      .
96      .      1B
      .
      .
105     1C.....
      V
      V
108     1C

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE TIME *
*
*****

```

```

*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
*
*****

```

Seng Creek  
wo Mining & w Logging (Scenario 5), USGS DEM Data  
Storm Event

```

5 IO      OUTPUT CONTROL VARIABLES
      IPRNT      1 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE

7 IN      TIME DATA FOR INPUT TIME SERIES
      JXMIN      15 TIME INTERVAL IN MINUTES
      JXDATE      1JAN94 STARTING DATE
      JXTIME      0 STARTING TIME

IT        HYDROGRAPH TIME DATA
      NMN        15 MINUTES IN COMPUTATION INTERVAL
      IDATE      1JAN94 STARTING DATE
      ITIME      0000 STARTING TIME
      NQ         100 NUMBER OF HYDROGRAPH ORDINATES
      NDDATE     2JAN94 ENDING DATE
      NDTIME     0045 ENDING TIME
      ICENT      19 CENTURY MARK

      COMPUTATION INTERVAL 0.25 HOURS
      TOTAL TIME BASE 24.75 HOURS

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```

ENGLISH UNITS
DRAINAGE AREA      SQUARE MILES
PRECIPITATION DEPTH INCHES
LENGTH, ELEVATION  FEET
FLOW                CUBIC FEET PER SECOND
STORAGE VOLUME     ACRE-FEET
SURFACE AREA        ACRES
TEMPERATURE         DEGREES FAHRENHEIT

```

\*\*\* \*\*

```

*****
*
*      5bB *
*
*****

```



19 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

20 BA SUBBASIN CHARACTERISTICS
TAREA, 0.97 SUBBASIN AREA

PRECIPITATION DATA

23 PT TOTAL STORM STATIONS Gage
24 PW WEIGHTS 0.88

21 PR RECORDING STATIONS Gage
22 PW WEIGHTS 1.00

25 LS SCS LOSS RATE
STRTL 0.82 INITIAL ABSTRACTION
CRVNBR 70.86 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

26 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.44 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT
Gage 3.90 0.00 0.88

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00
0.00 0.00 0.00 0.00 0.03 0.03 0.03 0.02 0.02 0.03
0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03 0.03
0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12 0.12
0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH

11 END-OF-PERIOD ORDINATES
324. 832. 701. 339. 167. 81. 39. 19. 9. 5.
1.

\*\*\*\*\*

HYDROGRAPH AT STATION 5bb

\*\*\*\*\*

Table with 17 columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q. Contains hydrograph data for station 5bb from 1 JAN 0000 to 1 JAN 0900.

										Event.out		
1 JAN 1115	38	0.12	0.05	0.08	451.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.12	0.04	0.08	365.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.12	0.04	0.08	281.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.12	0.04	0.08	243.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	198.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	121.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	59.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	28.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	13.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	6.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	3.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	1.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.58, TOTAL EXCESS = 1.32

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
+	451.	138.	35.	33.	33.
	9.25	1.316	1.317	1.317	1.317
		(INCHES)			
		(AC-FT)	68.	68.	68.
		CUMULATIVE AREA = 0.97 SQ MI			

\*\*\* \*\*

\*\*\*\*\*  
\* \*  
27 KK 5aB \*  
\* \*  
\*\*\*\*\*

28 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

29 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.54 SUBBASIN AREA

PRECIPITATION DATA

32 PT TOTAL STORM STATIONS Gage  
 33 PW WEIGHTS 0.88

30 PR RECORDING STATIONS Gage  
 31 PW WEIGHTS 1.00

34 LS SCS LOSS RATE  
 STRTL 0.76 INITIAL ABSTRACTION  
 CRVNR 72.53 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

35 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.29 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	3.90	0.00	0.88

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT = 1.00									
	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.02	0.02	0.03	0.03
	0.02	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03
	0.19	0.19	0.19	0.19	0.06	0.06	0.06	0.06	0.12	0.12	0.12
	0.12	0.12	0.38	0.38	0.38	0.38	0.12	0.12	0.12	0.12	0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES  
 419. 588. 246. 93. 35. 13. 5. 1.

\*\*\*\*\*

HYDROGRAPH AT STATION 5aB

\*\*\*\*\*

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	Event.out	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.03	0.03	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.03	0.03	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.03	0.03	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.01	4.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.16	0.03	17.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	23.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	20.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	20.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.02	21.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.04	30.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.08	0.04	45.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.08	0.05	54.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.05	62.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.21	0.17	116.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.18	0.20	200.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.16	0.22	256.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.14	0.24	294.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.04	0.08	253.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.04	0.08	171.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.09	139.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.09	127.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	87.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	35.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	13.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	5.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	2.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	1.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.47, TOTAL EXCESS = 1.43

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
294.	9.00	83.	21.	20.	20.	
		(INCHES)	1.425	1.425	1.425	1.425
		(AC-FT)	41.	41.	41.	41.

CUMULATIVE AREA = 0.54 SQ MI

\*\*\* \*\*

```

*****
*
36 KK *          5C *          CNAME      5R
*          *
*****

```

```

37 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1  PRINT CONTROL
          IPLOT      0  PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
          IPNCH      0  PUNCH COMPUTED HYDROGRAPH
          IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250 TIME INTERVAL IN HOURS

```

```

38 HC      HYDROGRAPH COMBINATION
          ICOMP      2  NUMBER OF HYDROGRAPHS TO COMBINE

```

\*\*\*

\*\*\*\*\*

HYDROGRAPH AT STATION 5C  
SUM OF 2 HYDROGRAPHS

Event.out

```

*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
* * * * *
1 JAN 0000 1 0. * 1 JAN 0615 26 46. * 1 JAN 1230 51 0. * 1 JAN 1845 76 0.
1 JAN 0015 2 0. * 1 JAN 0630 27 47. * 1 JAN 1245 52 0. * 1 JAN 1900 77 0.
1 JAN 0030 3 0. * 1 JAN 0645 28 47. * 1 JAN 1300 53 0. * 1 JAN 1915 78 0.
1 JAN 0045 4 0. * 1 JAN 0700 29 50. * 1 JAN 1315 54 0. * 1 JAN 1930 79 0.
1 JAN 0100 5 0. * 1 JAN 0715 30 68. * 1 JAN 1330 55 0. * 1 JAN 1945 80 0.
1 JAN 0115 6 0. * 1 JAN 0730 31 100. * 1 JAN 1345 56 0. * 1 JAN 2000 81 0.
1 JAN 0130 7 0. * 1 JAN 0745 32 128. * 1 JAN 1400 57 0. * 1 JAN 2015 82 0.
1 JAN 0145 8 0. * 1 JAN 0800 33 150. * 1 JAN 1415 58 0. * 1 JAN 2030 83 0.
1 JAN 0200 9 0. * 1 JAN 0815 34 252. * 1 JAN 1430 59 0. * 1 JAN 2045 84 0.
1 JAN 0215 10 0. * 1 JAN 0830 35 443. * 1 JAN 1445 60 0. * 1 JAN 2100 85 0.
1 JAN 0230 11 0. * 1 JAN 0845 36 610. * 1 JAN 1500 61 0. * 1 JAN 2115 86 0.
1 JAN 0245 12 0. * 1 JAN 0900 37 732. * 1 JAN 1515 62 0. * 1 JAN 2130 87 0.
1 JAN 0300 13 0. * 1 JAN 0915 38 704. * 1 JAN 1530 63 0. * 1 JAN 2145 88 0.
1 JAN 0315 14 0. * 1 JAN 0930 39 537. * 1 JAN 1545 64 0. * 1 JAN 2200 89 0.
1 JAN 0330 15 0. * 1 JAN 0945 40 420. * 1 JAN 1600 65 0. * 1 JAN 2215 90 0.
1 JAN 0345 16 0. * 1 JAN 1000 41 370. * 1 JAN 1615 66 0. * 1 JAN 2230 91 0.
1 JAN 0400 17 0. * 1 JAN 1015 42 286. * 1 JAN 1630 67 0. * 1 JAN 2245 92 0.
1 JAN 0415 18 0. * 1 JAN 1030 43 156. * 1 JAN 1645 68 0. * 1 JAN 2300 93 0.
1 JAN 0430 19 0. * 1 JAN 1045 44 71. * 1 JAN 1700 69 0. * 1 JAN 2315 94 0.
1 JAN 0445 20 0. * 1 JAN 1100 45 33. * 1 JAN 1715 70 0. * 1 JAN 2330 95 0.
1 JAN 0500 21 0. * 1 JAN 1115 46 15. * 1 JAN 1730 71 0. * 1 JAN 2345 96 0.
1 JAN 0515 22 0. * 1 JAN 1130 47 7. * 1 JAN 1745 72 0. * 2 JAN 0000 97 0.
1 JAN 0530 23 0. * 1 JAN 1145 48 3. * 1 JAN 1800 73 0. * 2 JAN 0015 98 0.
1 JAN 0545 24 6. * 1 JAN 1200 49 1. * 1 JAN 1815 74 0. * 2 JAN 0030 99 0.
1 JAN 0600 25 27. * 1 JAN 1215 50 0. * 1 JAN 1830 75 0. * 2 JAN 0045 100 0.
* * * * *

```

```

*****
PEAK FLOW      TIME          MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)          6-HR      24-HR      72-HR      24.75-HR
+ 732.         9.00          221.     55.       54.       54.
                (INCHES)      1.354   1.356   1.356   1.356
                (AC-FT)      110.    110.    110.    110.
CUMULATIVE AREA = 1.52 SQ MI

```

\*\*\* \*\*

```

*****
39 KK          5R          CNAME          5C
* * * * *

```

```

40 KO          OUTPUT CONTROL VARIABLES
                IPRNT          1          PRINT CONTROL
                IPLOT          0          PLOT CONTROL
                QSCAL          0.        HYDROGRAPH PLOT SCALE
                IPNCH          0          PUNCH COMPUTED HYDROGRAPH
                IOUT           22        SAVE HYDROGRAPH ON THIS UNIT
                ISAV1          1          FIRST ORDINATE PUNCHED OR SAVED
                ISAV2          100       LAST ORDINATE PUNCHED OR SAVED
                TIMINT         0.250    TIME INTERVAL IN HOURS

```

HYDROGRAPH ROUTING DATA

```

41 RM          MUSKINGUM ROUTING
                NSTPS          1          NUMBER OF SUBREACHES
                AMSKK          0.12     MUSKINGUM K
                X              0.20     MUSKINGUM X

```

\*\*\*

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

\*\*\*\*\*

HYDROGRAPH AT STATION 5R

```

*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
* * * * *
1 JAN 0000 1 0. * 1 JAN 0615 26 37. * 1 JAN 1230 51 0. * 1 JAN 1845 76 0.
1 JAN 0015 2 0. * 1 JAN 0630 27 47. * 1 JAN 1245 52 0. * 1 JAN 1900 77 0.
1 JAN 0030 3 0. * 1 JAN 0645 28 47. * 1 JAN 1300 53 0. * 1 JAN 1915 78 0.
1 JAN 0045 4 0. * 1 JAN 0700 29 49. * 1 JAN 1315 54 0. * 1 JAN 1930 79 0.
1 JAN 0100 5 0. * 1 JAN 0715 30 59. * 1 JAN 1330 55 0. * 1 JAN 1945 80 0.
1 JAN 0115 6 0. * 1 JAN 0730 31 83. * 1 JAN 1345 56 0. * 1 JAN 2000 81 0.
1 JAN 0130 7 0. * 1 JAN 0745 32 114. * 1 JAN 1400 57 0. * 1 JAN 2015 82 0.
1 JAN 0145 8 0. * 1 JAN 0800 33 139. * 1 JAN 1415 58 0. * 1 JAN 2030 83 0.
1 JAN 0200 9 0. * 1 JAN 0815 34 197. * 1 JAN 1430 59 0. * 1 JAN 2045 84 0.
1 JAN 0215 10 0. * 1 JAN 0830 35 345. * 1 JAN 1445 60 0. * 1 JAN 2100 85 0.
1 JAN 0230 11 0. * 1 JAN 0845 36 531. * 1 JAN 1500 61 0. * 1 JAN 2115 86 0.
1 JAN 0245 12 0. * 1 JAN 0900 37 675. * 1 JAN 1515 62 0. * 1 JAN 2130 87 0.
1 JAN 0300 13 0. * 1 JAN 0915 38 727. * 1 JAN 1530 63 0. * 1 JAN 2145 88 0.
1 JAN 0315 14 0. * 1 JAN 0930 39 625. * 1 JAN 1545 64 0. * 1 JAN 2200 89 0.

```

```

Event.out
1 JAN 0330 15 0. * 1 JAN 0945 40 473. * 1 JAN 1600 65 0. * 1 JAN 2215 90 0.
1 JAN 0345 16 0. * 1 JAN 1000 41 391. * 1 JAN 1615 66 0. * 1 JAN 2230 91 0.
1 JAN 0400 17 0. * 1 JAN 1015 42 330. * 1 JAN 1630 67 0. * 1 JAN 2245 92*****
1 JAN 0415 18 0. * 1 JAN 1030 43 222. * 1 JAN 1645 68 0. * 1 JAN 2300 93*****
1 JAN 0430 19 0. * 1 JAN 1045 44 110. * 1 JAN 1700 69 0. * 1 JAN 2315 94*****
1 JAN 0445 20 0. * 1 JAN 1100 45 49. * 1 JAN 1715 70 0. * 1 JAN 2330 95*****
1 JAN 0500 21 0. * 1 JAN 1115 46 23. * 1 JAN 1730 71 0. * 1 JAN 2345 96*****
1 JAN 0515 22 0. * 1 JAN 1130 47 10. * 1 JAN 1745 72 0. * 2 JAN 0000 97*****
1 JAN 0530 23 0. * 1 JAN 1145 48 4. * 1 JAN 1800 73 0. * 2 JAN 0015 98*****
1 JAN 0545 24 3. * 1 JAN 1200 49 2. * 1 JAN 1815 74 0. * 2 JAN 0030 99*****
1 JAN 0600 25 16. * 1 JAN 1215 50 1. * 1 JAN 1830 75 0. * 2 JAN 0045 100 0.

```

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```

PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)          6-HR      24-HR      72-HR      24.75-HR
+ 727.         9.25          221.     55.       54.       54.
              (INCHES)     1.354    1.356    1.356    1.356
              (AC-FT)     110.     110.     110.     110.
              CUMULATIVE AREA = 1.52 SQ MI

```

\*\*\* \*\*

```

*****
*
42 KK          4aB *
*
*****

```

```

43 KO          OUTPUT CONTROL VARIABLES
              IPRNT          1 PRINT CONTROL
              IPILOT         0 PLOT CONTROL
              QSCAL          0. HYDROGRAPH PLOT SCALE
              IPNCH          1 PUNCH COMPUTED HYDROGRAPH
              IOUT           22 SAVE HYDROGRAPH ON THIS UNIT
              ISAV1          1 FIRST ORDINATE PUNCHED OR SAVED
              ISAV2          100 LAST ORDINATE PUNCHED OR SAVED
              TIMINT         0.250 TIME INTERVAL IN HOURS

```

SUBBASIN RUNOFF DATA

```

44 BA          SUBBASIN CHARACTERISTICS
              TAREA,        0.86 SUBBASIN AREA

```

PRECIPITATION DATA

```

47 PT          TOTAL STORM STATIONS      Gage
48 PW          WEIGHTS                    0.88

45 PR          RECORDING STATIONS        Gage
46 PW          WEIGHTS                    1.00

```

```

49 LS          SCS LOSS RATE
              STRTL         0.72 INITIAL ABSTRACTION
              CRVNBR        73.51 CURVE NUMBER
              RTIMP         0.00 PERCENT IMPERVIOUS AREA

```

```

50 UD          SCS DIMENSIONLESS UNITGRAPH
              TLAG          0.41 LAG

```

\*\*\*

PRECIPITATION STATION DATA

```

              STATION  TOTAL  AVG. ANNUAL  WEIGHT
              Gage     3.90    0.00        0.88

```

TEMPORAL DISTRIBUTIONS

```

STATION      Gage,  WEIGHT = 1.00
0.00         0.00   0.00   0.00   0.03   0.03   0.03   0.02   0.02   0.03
0.02         0.03   0.02   0.03   0.03   0.03   0.02   0.03   0.03   0.03
0.19         0.19   0.19   0.19   0.06   0.06   0.06   0.06   0.12   0.12
0.12         0.12   0.38   0.38   0.38   0.38   0.12   0.12   0.12   0.12

```

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
10 END-OF-PERIOD ORDINATES

```

332.    783.    609.    271.    129.    59.    28.    13.    7.    2.

```

\*\*\*\*\*

HYDROGRAPH AT STATION 4aB

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              *
              *
              *
DA MON HRMN  ORD  RAIN  LOSS  EXCESS  COMP Q  *  DA MON HRMN  ORD  RAIN  LOSS  EXCESS  COMP Q
1 JAN 0000   1   0.00  0.00  0.00   0.    *  1 JAN 1230  51  0.00  0.00  0.00   0.
1 JAN 0015   2   0.00  0.00  0.00   0.    *  1 JAN 1245  52  0.00  0.00  0.00   0.

```

Event.out												
1 JAN 0030	3	0.00	0.00	0.00	0.	*	1 JAN 1300	53	0.00	0.00	0.00	0.
1 JAN 0045	4	0.00	0.00	0.00	0.	*	1 JAN 1315	54	0.00	0.00	0.00	0.
1 JAN 0100	5	0.00	0.00	0.00	0.	*	1 JAN 1330	55	0.00	0.00	0.00	0.
1 JAN 0115	6	0.03	0.03	0.00	0.	*	1 JAN 1345	56	0.00	0.00	0.00	0.
1 JAN 0130	7	0.03	0.03	0.00	0.	*	1 JAN 1400	57	0.00	0.00	0.00	0.
1 JAN 0145	8	0.03	0.03	0.00	0.	*	1 JAN 1415	58	0.00	0.00	0.00	0.
1 JAN 0200	9	0.02	0.02	0.00	0.	*	1 JAN 1430	59	0.00	0.00	0.00	0.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.00	0.00	0.00	0.
1 JAN 0230	11	0.03	0.03	0.00	0.	*	1 JAN 1500	61	0.00	0.00	0.00	0.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.00	0.00	0.00	0.
1 JAN 0300	13	0.03	0.03	0.00	0.	*	1 JAN 1530	63	0.00	0.00	0.00	0.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.00	0.00	0.00	0.
1 JAN 0330	15	0.03	0.03	0.00	0.	*	1 JAN 1600	65	0.00	0.00	0.00	0.
1 JAN 0345	16	0.03	0.03	0.00	0.	*	1 JAN 1615	66	0.00	0.00	0.00	0.
1 JAN 0400	17	0.03	0.03	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.
1 JAN 0430	19	0.03	0.03	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.
1 JAN 0445	20	0.03	0.03	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.
1 JAN 0500	21	0.03	0.03	0.00	0.	*	1 JAN 1730	71	0.00	0.00	0.00	0.
1 JAN 0515	22	0.19	0.19	0.00	0.	*	1 JAN 1745	72	0.00	0.00	0.00	0.
1 JAN 0530	23	0.19	0.19	0.00	0.	*	1 JAN 1800	73	0.00	0.00	0.00	0.
1 JAN 0545	24	0.19	0.17	0.01	5.	*	1 JAN 1815	74	0.00	0.00	0.00	0.
1 JAN 0600	25	0.19	0.16	0.03	22.	*	1 JAN 1830	75	0.00	0.00	0.00	0.
1 JAN 0615	26	0.06	0.05	0.01	37.	*	1 JAN 1845	76	0.00	0.00	0.00	0.
1 JAN 0630	27	0.06	0.05	0.01	38.	*	1 JAN 1900	77	0.00	0.00	0.00	0.
1 JAN 0645	28	0.06	0.05	0.02	35.	*	1 JAN 1915	78	0.00	0.00	0.00	0.
1 JAN 0700	29	0.06	0.04	0.02	36.	*	1 JAN 1930	79	0.00	0.00	0.00	0.
1 JAN 0715	30	0.12	0.09	0.04	45.	*	1 JAN 1945	80	0.00	0.00	0.00	0.
1 JAN 0730	31	0.12	0.08	0.04	64.	*	1 JAN 2000	81	0.00	0.00	0.00	0.
1 JAN 0745	32	0.12	0.08	0.05	83.	*	1 JAN 2015	82	0.00	0.00	0.00	0.
1 JAN 0800	33	0.12	0.07	0.05	96.	*	1 JAN 2030	83	0.00	0.00	0.00	0.
1 JAN 0815	34	0.38	0.20	0.18	148.	*	1 JAN 2045	84	0.00	0.00	0.00	0.
1 JAN 0830	35	0.38	0.17	0.20	260.	*	1 JAN 2100	85	0.00	0.00	0.00	0.
1 JAN 0845	36	0.38	0.15	0.23	368.	*	1 JAN 2115	86	0.00	0.00	0.00	0.
1 JAN 0900	37	0.38	0.13	0.24	442.	*	1 JAN 2130	87	0.00	0.00	0.00	0.
1 JAN 0915	38	0.12	0.04	0.08	440.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.12	0.04	0.09	344.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.12	0.04	0.09	262.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.12	0.04	0.09	227.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	182.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	106.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	48.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	22.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	10.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	4.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	2.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	1.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.41, TOTAL EXCESS = 1.49

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
442.	9.00	138.	35.	34.	34.	
		(INCHES)	1.488	1.490	1.490	1.490
		(AC-FT)	69.	69.	69.	69.

CUMULATIVE AREA = 0.86 SQ MI

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\* \*  
51 KK \* 4bB \*  
\* \*  
\*\*\*\*\*

52 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

53 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.61 SUBBASIN AREA

PRECIPITATION DATA

56 PT TOTAL STORM STATIONS Gage  
57 PW WEIGHTS 0.88  
54 PR RECORDING STATIONS Gage  
55 PW WEIGHTS 1.00

58 LS SCS LOSS RATE Event.out  
 STRTL 0.80 INITIAL ABSTRACTION  
 CRVNBR 71.37 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

59 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.35 LAG

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PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
 Gage 3.90 0.00 0.88

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
 0.00 0.00 0.00 0.00 0.03 0.03 0.03 0.02 0.02 0.03  
 0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03 0.03  
 0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12 0.12  
 0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES

322. 620. 368. 152. 64. 27. 12. 5. 2.

HYDROGRAPH AT STATION 4bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.03	0.03	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.03	0.03	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.03	0.03	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.01	2.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.17	0.02	11.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	19.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	19.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	19.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.01	20.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.03	28.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.09	0.04	41.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.08	0.04	52.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.05	61.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.22	0.16	104.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.19	0.19	186.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.17	0.21	254.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.15	0.23	302.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.05	0.08	285.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.04	0.08	209.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.08	162.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.08	144.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	110.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	55.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	23.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	9.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	4.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	2.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	1.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.55, TOTAL EXCESS = 1.35

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
+	302.	9.00	88.	22.	21.	21.
		(INCHES)	1.349	1.350	1.350	1.350
		(AC-FT)	44.	44.	44.	44.

CUMULATIVE AREA = 0.61 SQ MI

\*\*\* \*\*

60 KK 4C CNAME 4R

61 KO OUTPUT CONTROL VARIABLES IPRNT 1 PRINT CONTROL IPLOT 0 PLOT CONTROL QSCAL 0. HYDROGRAPH PLOT SCALE IPNCH 0 PUNCH COMPUTED HYDROGRAPH IOUT 22 SAVE HYDROGRAPH ON THIS UNIT ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED ISAV2 100 LAST ORDINATE PUNCHED OR SAVED TIMINT 0.250 TIME INTERVAL IN HOURS

62 HC HYDROGRAPH COMBINATION ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

\*\*\*

HYDROGRAPH AT STATION 4C SUM OF 3 HYDROGRAPHS

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Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 empty columns. Rows contain hydrograph data for various dates in January, such as 1 JAN 0000, 1 JAN 0015, etc.

\*\*\*\*\*

Summary table with columns: PEAK FLOW (CFS), TIME (HR), MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR). Values include 1452 CFS, 9.25 HR, and 2.99 SQ MI CUMULATIVE AREA.

\*\*\* \*\*

63 KK 4R CNAME 4C

64 KO OUTPUT CONTROL VARIABLES IPRNT 1 PRINT CONTROL IPLOT 0 PLOT CONTROL QSCAL 0. HYDROGRAPH PLOT SCALE IPNCH 0 PUNCH COMPUTED HYDROGRAPH IOUT 22 SAVE HYDROGRAPH ON THIS UNIT ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED ISAV2 100 LAST ORDINATE PUNCHED OR SAVED TIMINT 0.250 TIME INTERVAL IN HOURS



HYDROGRAPH ROUTING DATA

65 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.09 MUSKINGUM K
X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 4R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 11 columns for station 4R. It lists hydrograph data for various dates in January, including flow rates and ordinates.

Summary table for peak flow and maximum average flow. Columns include PEAK FLOW (CFS), TIME (HR), and MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR) in both CFS and INCHES (AC-FT). CUMULATIVE AREA = 2.99 SQ MI.

\*\*\*\*\*

66 KK 3B

67 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

68 BA SUBBASIN CHARACTERISTICS
TAREA, 0.99 SUBBASIN AREA

PRECIPITATION DATA

71 PT TOTAL STORM STATIONS Gage
72 PW WEIGHTS 0.88

69 PR RECORDING STATIONS Gage
70 PW WEIGHTS 1.00

73 LS SCS LOSS RATE
STRTL 0.75 INITIAL ABSTRACTION
CRVNBR 72.67 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

74 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.34 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
Gage 3.90 0.00 0.88

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
0.00 0.00 0.00 0.00 0.03 0.03 0.03 0.02 0.02 0.03  
0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03 0.03  
0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12 0.12  
0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
9 END-OF-PERIOD ORDINATES

573. 1035. 560. 229. 95. 39. 16. 7. 1.

HYDROGRAPH AT STATION 3B

Table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and a second set of columns for a different station. Rows list data for various dates from 1 JAN 0000 to 1 JAN 1215.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.47, TOTAL EXCESS = 1.43

Table with columns: PEAK FLOW, TIME, MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR). Includes values in CFS and INCHES (AC-FT).

CUMULATIVE AREA = 0.99 SQ MI

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\*
75 KK \* 3C \* CNAME 3R
\*
\*\*\*\*\*

76 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

77 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

\*\*\*

HYDROGRAPH AT STATION 3C
SUM OF 2 HYDROGRAPHS

\*\*\*\*\*

Table with 15 columns: DA, MON, HRMN, ORD, FLOW, DA, MON, HRMN, ORD, FLOW, DA, MON, HRMN, ORD, FLOW, DA, MON, HRMN, ORD, FLOW. It lists hydrograph data for various dates in January, including flow rates and ordinates.

\*\*\*\*\*

PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR
+ 1942. 9.25 (CFS) 600. 150. 146. 146.
(INCHES) 1.402 1.404 1.404 1.404
(AC-FT) 298. 298. 298. 298.
CUMULATIVE AREA = 3.98 SQ MI

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\*
78 KK \* 3R \* CNAME 3C
\*
\*\*\*\*\*

79 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

80 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.09 MUSKINGUM K  
 X 0.20 MUSKINGUM X

Event.out

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 3R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	97.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	137.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	142.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	140.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	158.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	214.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	294.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	369.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	497.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	821.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1299.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1728.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1937.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1780.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1395.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1100.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	921.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	677.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	376.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	167.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	73.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	33.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	14.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	7.	*	1	JAN	1200	49	6.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	39.	*	1	JAN	1215	50	2.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
1937.	9.25	600.	150.	146.	146.
		(INCHES)	1.402	1.404	1.404
		(AC-FT)	298.	298.	298.
CUMULATIVE AREA =		3.98 SQ MI			

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81 KK \* 2B \*

82 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0 HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA  
 83 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.84 SUBBASIN AREA

PRECIPITATION DATA  
 86 PT TOTAL STORM STATIONS Gage  
 87 PW WEIGHTS 0.88  
 84 PR RECORDING STATIONS Gage  
 85 PW WEIGHTS 1.00

88 LS SCS LOSS RATE  
 STRTL 0.79 INITIAL ABSTRACTION  
 CRVNBR 71.81 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

89 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.30 LAG

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
Gage 3.90 0.00 0.88

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
0.00 0.00 0.00 0.00 0.03 0.03 0.03 0.02 0.02 0.03  
0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03 0.03  
0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12 0.12  
0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
8 END-OF-PERIOD ORDINATES

610. 907. 400. 156. 60. 23. 9. 3.

HYDROGRAPH AT STATION 2B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.03	0.03	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.03	0.03	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.03	0.03	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.01	5.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.16	0.02	21.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	31.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	28.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	28.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.02	30.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.03	43.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.09	0.04	64.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.08	0.04	79.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.05	90.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.21	0.16	168.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.18	0.19	293.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.16	0.21	379.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.14	0.23	441.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.04	0.08	386.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.04	0.08	265.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.08	213.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.09	195.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	137.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	57.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	22.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	8.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	3.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	1.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.52, TOTAL EXCESS = 1.38

PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
+ 441. 9.00 (CFS) 124. 31. 30. 30.  
(INCHES) 1.378 1.378 1.378 1.378  
(AC-FT) 62. 62. 62. 62.

CUMULATIVE AREA = 0.84 SQ MI

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90 KK \* 2C \* CNAME 2R
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91 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

92 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2C
SUM OF 2 HYDROGRAPHS

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 12 columns for specific dates (1 JAN 0000 to 1 JAN 1830). Each row shows flow values for two hydrographs combined.

Summary statistics table: PEAK FLOW (CFS), TIME (HR), MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR), and CUMULATIVE AREA = 4.82 SQ MI.

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\*
93 KK \* 2R \* CNAME 2C
\*
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94 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

95 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.10 MUSKINGUM K
X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 2R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	99.	*	1	JAN	1230	51	1.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	153.	*	1	JAN	1245	52	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	170.	*	1	JAN	1300	53	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	170.	*	1	JAN	1315	54	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	186.	*	1	JAN	1330	55	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	243.	*	1	JAN	1345	56	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	333.	*	1	JAN	1400	57	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	425.	*	1	JAN	1415	58	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	570.	*	1	JAN	1430	59	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	911.	*	1	JAN	1445	60	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1440.	*	1	JAN	1500	61	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1974.	*	1	JAN	1515	62	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2286.	*	1	JAN	1530	63	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2190.	*	1	JAN	1545	64	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1796.	*	1	JAN	1600	65	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1412.	*	1	JAN	1615	66	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1151.	*	1	JAN	1630	67	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	875.	*	1	JAN	1645	68	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	535.	*	1	JAN	1700	69	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	257.	*	1	JAN	1715	70	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	108.	*	1	JAN	1730	71	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	48.	*	1	JAN	1745	72	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	21.	*	1	JAN	1800	73	0.	*
1	JAN	0545	24	6.	*	1	JAN	1200	49	9.	*	1	JAN	1815	74	0.	*
1	JAN	0600	25	37.	*	1	JAN	1215	50	3.	*	1	JAN	1830	75	0.	*

PEAK FLOW	TIME		MAXIMUM	AVERAGE FLOW		
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
2286.	9.25	(CFS)	724.	181.	176.	176.
		(INCHES)	1.397	1.399	1.399	1.399
		(AC-FT)	359.	360.	360.	360.

CUMULATIVE AREA = 4.82 SQ MI

\*\*\* \*\*

96 KK 1B

97 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

98 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.70 SUBBASIN AREA

PRECIPITATION DATA

101 PT	TOTAL STORM STATIONS	Gage
102 PW	WEIGHTS	0.88
99 PR	RECORDING STATIONS	Gage
100 PW	WEIGHTS	1.00
103 LS	SCS LOSS RATE	
	STRTL	0.77 INITIAL ABSTRACTION
	CRVNBR	72.29 CURVE NUMBER
	RTIMP	0.00 PERCENT IMPERVIOUS AREA
104 UD	SCS DIMENSIONLESS UNITGRAPH	
	TLAG	0.29 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT Event.out  
 Gage 3.90 0.00 0.88

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
 0.00 0.00 0.00 0.03 0.03 0.03 0.02 0.02 0.03  
 0.02 0.03 0.02 0.03 0.03 0.03 0.02 0.03 0.03  
 0.19 0.19 0.19 0.19 0.06 0.06 0.06 0.06 0.12  
 0.12 0.12 0.38 0.38 0.38 0.38 0.12 0.12 0.12

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES

528. 755. 321. 122. 46. 18. 7. 2.

HYDROGRAPH AT STATION 1B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.03	0.03	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.03	0.03	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.03	0.03	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.03	0.03	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.03	0.03	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.03	0.03	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.03	0.03	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.03	0.03	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.03	0.03	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.03	0.03	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.19	0.19	0.00	0.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.19	0.19	0.00	0.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.19	0.18	0.01	5.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.19	0.16	0.03	21.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	28.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	25.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	25.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.02	26.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.12	0.09	0.04	38.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.12	0.08	0.04	56.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.12	0.08	0.04	68.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.12	0.08	0.05	78.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.38	0.21	0.17	146.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.38	0.18	0.19	253.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.38	0.16	0.22	324.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.38	0.14	0.24	374.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.12	0.04	0.08	323.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.12	0.04	0.08	220.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.12	0.04	0.09	178.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.12	0.04	0.09	163.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	113.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	46.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	17.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	6.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	2.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	1.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 3.90, TOTAL LOSS = 2.49, TOTAL EXCESS = 1.41

PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 + (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
 + 374. 9.00 106. 26. 26. 26.  
 (INCHES) 1.409 1.409 1.409 1.409  
 (AC-FT) 52. 52. 52. 52.  
 CUMULATIVE AREA = 0.70 SQ MI

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 105 KK \* 1C \* CNAME 1C



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106 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

107 HC HYDROGRAPH COMBINATION  
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 1C  
SUM OF 2 HYDROGRAPHS  
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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	128.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	178.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	195.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	196.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	224.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	299.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	401.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	502.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	716.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	1163.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1764.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	2348.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2609.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2410.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1973.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	1575.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	1264.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	921.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	552.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	264.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	111.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	49.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	22.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	11.	*	1	JAN	1200	49	9.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	58.	*	1	JAN	1215	50	3.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
2609.	9.25	830.	208.	201.	201.	
		(INCHES)	1.398	1.400	1.400	1.400
		(AC-FT)	411.	412.	412.	412.

CUMULATIVE AREA = 5.52 SQ MI

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108 KK 1C \* CNAME 1C  
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109 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

110 RN NO ROUTING

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HYDROGRAPH AT STATION 1C  
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Event.out

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	*	1	JAN	0615	26	128.	*	1	JAN	1230	51	1.	*	1	JAN	1845	76	0.
1	JAN	0015	2	0.	*	1	JAN	0630	27	178.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.
1	JAN	0030	3	0.	*	1	JAN	0645	28	195.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.
1	JAN	0045	4	0.	*	1	JAN	0700	29	196.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.
1	JAN	0100	5	0.	*	1	JAN	0715	30	224.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.
1	JAN	0115	6	0.	*	1	JAN	0730	31	299.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.
1	JAN	0130	7	0.	*	1	JAN	0745	32	401.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.
1	JAN	0145	8	0.	*	1	JAN	0800	33	502.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.
1	JAN	0200	9	0.	*	1	JAN	0815	34	716.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.
1	JAN	0215	10	0.	*	1	JAN	0830	35	1163.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.
1	JAN	0230	11	0.	*	1	JAN	0845	36	1764.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.
1	JAN	0245	12	0.	*	1	JAN	0900	37	2348.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.
1	JAN	0300	13	0.	*	1	JAN	0915	38	2609.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.
1	JAN	0315	14	0.	*	1	JAN	0930	39	2410.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.
1	JAN	0330	15	0.	*	1	JAN	0945	40	1973.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.
1	JAN	0345	16	0.	*	1	JAN	1000	41	1575.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.
1	JAN	0400	17	0.	*	1	JAN	1015	42	1264.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.
1	JAN	0415	18	0.	*	1	JAN	1030	43	921.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.
1	JAN	0430	19	0.	*	1	JAN	1045	44	552.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.
1	JAN	0445	20	0.	*	1	JAN	1100	45	264.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.
1	JAN	0500	21	0.	*	1	JAN	1115	46	111.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.
1	JAN	0515	22	0.	*	1	JAN	1130	47	49.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.
1	JAN	0530	23	0.	*	1	JAN	1145	48	22.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.
1	JAN	0545	24	11.	*	1	JAN	1200	49	9.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.
1	JAN	0600	25	58.	*	1	JAN	1215	50	3.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
		(CFS)				
+	2609.	9.25	830.	208.	201.	201.
		(INCHES)	1.398	1.400	1.400	1.400
		(AC-FT)	411.	412.	412.	412.
		CUMULATIVE AREA =	5.52 SQ MI			

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT								
+		5bB	451.	9.25	138.	35.	33.	0.97	
+	HYDROGRAPH AT								
+		5aB	294.	9.00	83.	21.	20.	0.54	
+	2 COMBINED AT								
+		5C	732.	9.00	221.	55.	54.	1.52	
+	ROUTED TO								
+		5R	727.	9.25	221.	55.	54.	1.52	
+	HYDROGRAPH AT								
+		4aB	442.	9.00	138.	35.	34.	0.86	
+	HYDROGRAPH AT								
+		4bB	302.	9.00	88.	22.	21.	0.61	
+	3 COMBINED AT								
+		4C	1452.	9.25	448.	112.	109.	2.99	
+	ROUTED TO								
+		4R	1461.	9.25	448.	112.	109.	2.99	
+	HYDROGRAPH AT								
+		3B	521.	9.00	153.	38.	37.	0.99	
+	2 COMBINED AT								
+		3C	1942.	9.25	600.	150.	146.	3.98	
+	ROUTED TO								
+		3R	1937.	9.25	600.	150.	146.	3.98	
+	HYDROGRAPH AT								
+		2B	441.	9.00	124.	31.	30.	0.84	
+	2 COMBINED AT								
+		2C	2322.	9.25	725.	181.	176.	4.82	
+	ROUTED TO								
+		2R	2286.	9.25	724.	181.	176.	4.82	
+	HYDROGRAPH AT								
+		1B	374.	9.00	106.	26.	26.	0.70	
+	2 COMBINED AT								
+		1C	2609.	9.25	830.	208.	201.	5.52	

					Event.out		
+	ROUTED TO	1C	2609.	9.25	830.	208.	201. 5.52

\*\*\* NORMAL END OF HEC-1 \*\*\*

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\*
\* FLOOD HYDROGRAPH PACKAGE (HEC-1)
\* MAY 1991
\* VERSION 4.0.1E
\*
\* RUN DATE TIME
\*\*\*\*\*

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\*
\* U.S. ARMY CORPS OF ENGINEERS
\* HYDROLOGIC ENGINEERING CENTER
\* 609 SECOND STREET
\* DAVIS, CALIFORNIA 95616
\* (916) 551-1748
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

Table with columns: LINE, ID, and numerical values. Includes entries for Seng Creek, 5bB, and 5aB with various parameters like IT, IO, KK, KO, BA, PB, IN, PC, LS, UD.

HEC-1 INPUT

Table with columns: LINE, ID, and numerical values. Includes entry for PC with values 0.12, 0.1223, 0.1246, 0.1271, 0.1296, 0.1323, 0.135, 0.1379, 0.1408, 0.1439.

25yr.out											
52	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
53	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
54	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
55	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
56	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
57	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
58	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
59	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
60	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
61	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
62	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
63	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
64	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
65	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
66	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
67	PC	1.0									
68	LS	0.0	72.53	0.0							
69	UD	0.2908									
70	KK	5C	CNAME	5R							
71	KO	0	0	0.0	0	22					
72	HC	2									
73	KK	5R	CNAME	5C							
74	KO	0	0	0.0	0	22					
75	RM	0	0.122	0.2							
76	KK	4aB									
77	KO	0	0	0.0	1	22					
78	BA	0.8649									
79	PB	4.65									
80	IN	6	1JAN94	0							
81	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
82	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
83	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
84	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
85	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
86	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
87	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
88	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
89	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
90	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
91	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
92	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
93	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
94	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
95	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
96	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
97	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
98	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
99	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
100	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
101	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635

HEC-1 INPUT

PAGE 3

LINE	ID	1	2	3	4	5	6	7	8	9	10
102	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
103	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
104	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
105	PC	1.0									
106	LS	0.0	73.51	0.0							
107	UD	0.4078									
108	KK	4bB									
109	KO	0	0	0.0	1	22					
110	BA	0.6091									
111	PB	4.65									
112	IN	6	1JAN94	0							
113	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
114	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
115	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
116	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
117	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
118	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
119	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
120	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
121	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
122	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
123	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
124	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
125	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
126	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
127	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
128	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
129	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
130	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
131	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
132	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
133	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
134	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
135	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
136	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
137	PC	1.0									
138	LS	0.0	71.37	0.0							
139	UD	0.3512									

25yr.out

140	KK	4C	CNAME	4R		
141	KO	0	0	0.0	0	22
142	HC	3				
143	KK	4R	CNAME	4C		
144	KO	0	0	0.0	0	22
145	RM	0	0.088	0.2		
146	KK	3B				
147	KO	0	0	0.0	1	22
148	BA	0.99				
149	PB	4.65				
150	IN	6	1JAN94	0		

\* typeII-24hour

HEC-1 INPUT

PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

151	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
152	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
153	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
154	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
155	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
156	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
157	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
158	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
159	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
160	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
161	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
162	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
163	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
164	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
165	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
166	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
167	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
168	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
169	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
170	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
171	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
172	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
173	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
174	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
175	PC	1.0									
176	LS	0.0	72.67	0.0							
177	UD	0.3368									

178	KK	3C	CNAME	3R		
179	KO	0	0	0.0	0	22
180	HC	2				

181	KK	3R	CNAME	3C		
182	KO	0	0	0.0	0	22
183	RM	0	0.089	0.2		

184	KK	2B				
185	KO	0	0	0.0	1	22
186	BA	0.8395				
187	PB	4.65				
188	IN	6	1JAN94	0		

\* typeII-24hour

189	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
190	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
191	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
192	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
193	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
194	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
195	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
196	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
197	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
198	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
199	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
200	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
201	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656

HEC-1 INPUT

PAGE 5

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

202	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
203	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
204	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
205	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
206	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
207	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
208	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
209	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
210	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
211	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
212	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
213	PC	1.0									
214	LS	0.0	71.81	0.0							
215	UD	0.3008									

216	KK	2C	CNAME	2R		
217	KO	0	0	0.0	0	22
218	HC	2				

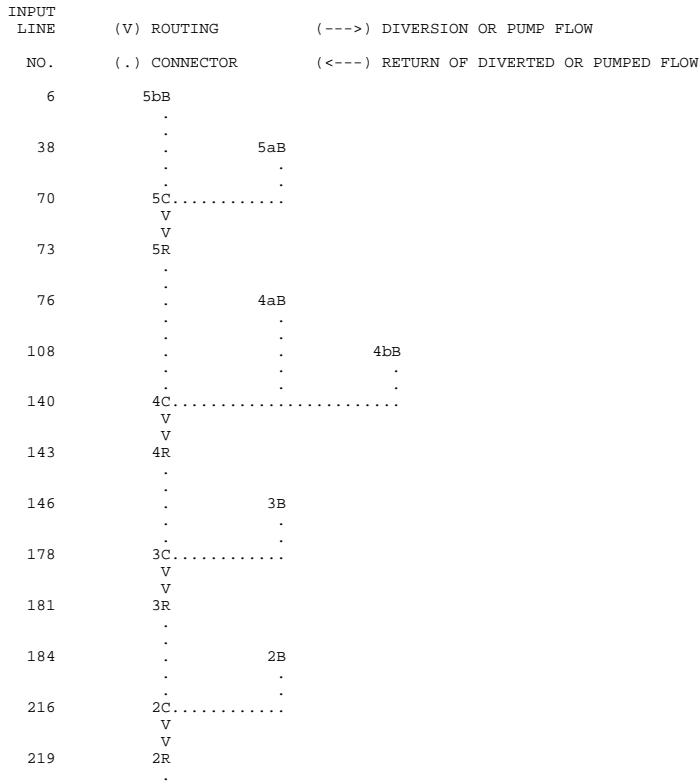
LINE	TYPE	CODE	NAME	VALUE	UNIT	DATE	25yr.out									
219	KK	2R	CNAME	2C												
220	KO	0	0	0.0	0	22										
221	RM	0	0.103	0.2												
222	KK	1B														
223	KO	0	0	0.0	1	22										
224	BA	0.6967														
225	PB	4.65														
226	IN	6	1JAN94	0												
* typeII-24hour																
227	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094					
228	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208					
229	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332					
230	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466					
231	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614					
232	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782					
233	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097					
234	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178					
235	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439					
236	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771					
237	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228					
238	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679					
239	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656					
240	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162					
241	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505					
242	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777					
243	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997					
244	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192					
245	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362					
246	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507					
247	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635					
248	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758					
249	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876					
250	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989					
251	PC	1.0														
252	LS	0.0	72.29	0.0												

HEC-1 INPUT

PAGE 6

LINE	ID	1	2	3	4	5	6	7	8	9	10
253	UD	0.2942									
254	KK	1C	CNAME	1C							
255	KO	0	0	0.0	0	22					
256	HC	2									
257	KK	1C	CNAME	1C							
258	KO	0	0	0.0	0	22					
259	RN	1C									
260	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK



222 . 1B  
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. .  
254 1C.....  
V  
V  
257 1C

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1\*\*\*\*\*  
\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*  
\* MAY 1991 \*  
\* VERSION 4.0.1E \*  
\* RUN DATE TIME \*  
\*\*\*\*\*

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\* U.S. ARMY CORPS OF ENGINEERS \*  
\* HYDROLOGIC ENGINEERING CENTER \*  
\* 609 SECOND STREET \*  
\* DAVIS, CALIFORNIA 95616 \*  
\* (916) 551-1748 \*  
\*\*\*\*\*

Seng Creek  
wo Mining & w Logging (Scenario 5), USGS DEM Data  
25 yr Storm

5 IO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
  
IT HYDROGRAPH TIME DATA  
NMIN 15 MINUTES IN COMPUTATION INTERVAL  
IDATE 1JAN94 STARTING DATE  
ITIME 0000 STARTING TIME  
NQ 100 NUMBER OF HYDROGRAPH ORDINATES  
NDDATE 2JAN94 ENDING DATE  
NDTIME 0045 ENDING TIME  
ICENT 19 CENTURY MARK  
  
COMPUTATION INTERVAL 0.25 HOURS  
TOTAL TIME BASE 24.75 HOURS

ENGLISH UNITS  
DRAINAGE AREA SQUARE MILES  
PRECIPITATION DEPTH INCHES  
LENGTH, ELEVATION FEET  
FLOW CUBIC FEET PER SECOND  
STORAGE VOLUME ACRE-FEET  
SURFACE AREA ACRES  
TEMPERATURE DEGREES FAHRENHEIT

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\* 5bB \*  
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7 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

10 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

8 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.97 SUBBASIN AREA

PRECIPITATION DATA

9 PB STORM 4.65 BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00



25yr.out  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00

36 LS SCS LOSS RATE  
 STRTL 0.82 INITIAL ABSTRACTION  
 CRVNBR 70.86 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

37 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.44 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 11 END-OF-PERIOD ORDINATES  
 324. 832. 701. 339. 167. 81. 39. 19. 9. 5.  
 1.

HYDROGRAPH AT STATION 5bb

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.08	604.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.03	0.06	404.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	278.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	200.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	153.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.03	124.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	105.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	90.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	80.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	73.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.02	68.
1	JAN	0245	12	0.01	0.01	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	65.
1	JAN	0300	13	0.01	0.01	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	61.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	58.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	54.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	51.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	49.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.02	0.01	0.02	47.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	45.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	44.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	42.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	41.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.01	40.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	39.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	38.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	36.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.01	35.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.01	34.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	33.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	32.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	30.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	29.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	28.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.01	0.00	0.01	27.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.01	0.00	0.01	27.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	27.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	26.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	26.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	26.
1	JAN	0945	40	0.04	0.04	0.00	0.	*	1	JAN	2215	90	0.01	0.00	0.01	26.
1	JAN	1000	41	0.04	0.04	0.00	0.	*	1	JAN	2230	91	0.01	0.00	0.01	26.
1	JAN	1015	42	0.05	0.05	0.00	0.	*	1	JAN	2245	92	0.01	0.00	0.01	25.
1	JAN	1030	43	0.06	0.05	0.00	2.	*	1	JAN	2300	93	0.01	0.00	0.01	25.
1	JAN	1045	44	0.07	0.06	0.00	5.	*	1	JAN	2315	94	0.01	0.00	0.01	25.
1	JAN	1100	45	0.08	0.07	0.01	9.	*	1	JAN	2330	95	0.01	0.00	0.01	25.
1	JAN	1115	46	0.10	0.08	0.01	16.	*	1	JAN	2345	96	0.01	0.00	0.01	24.
1	JAN	1130	47	0.13	0.10	0.02	26.	*	2	JAN	0000	97	0.01	0.00	0.01	24.
1	JAN	1145	48	0.51	0.37	0.14	79.	*	2	JAN	0015	98	0.00	0.00	0.00	21.
1	JAN	1200	49	1.26	0.65	0.61	338.	*	2	JAN	0030	99	0.00	0.00	0.00	13.
1	JAN	1215	50	0.20	0.08	0.12	653.	*	2	JAN	0045	100	0.00	0.00	0.00	6.

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.80, TOTAL EXCESS = 1.85

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
653.	12.25	157.	48.	47.	47.	
		(INCHES)	1.493	1.842	1.842	1.842
		(AC-FT)	78.	96.	96.	96.

CUMULATIVE AREA = 0.97 SQ MI

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\* 5aB \*  
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39 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

42 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

40 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.54 SUBBASIN AREA

PRECIPITATION DATA

41 PB STORM 4.65 BASIN TOTAL PRECIPITATION

43 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

68 LS SCS LOSS RATE  
STRTL 0.76 INITIAL ABSTRACTION  
CRVNR 72.53 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

69 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.29 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
8 END-OF-PERIOD ORDINATES

419. 588. 246. 93. 35. 13. 5. 1.

HYDROGRAPH AT STATION 5aB

Table with 17 columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and 8 additional columns for data points. The table contains 17 rows of data for various time intervals from 1 JAN 0000 to 1 JAN 0745.

25yr.out												
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	16.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	16.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	16.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	15.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	15.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	15.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	15.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	15.
1 JAN 1000	41	0.04	0.04	0.00	1.	*	1 JAN 2230	91	0.01	0.00	0.01	15.
1 JAN 1015	42	0.05	0.05	0.00	2.	*	1 JAN 2245	92	0.01	0.00	0.01	14.
1 JAN 1030	43	0.06	0.05	0.00	4.	*	1 JAN 2300	93	0.01	0.00	0.01	14.
1 JAN 1045	44	0.07	0.06	0.01	7.	*	1 JAN 2315	94	0.01	0.00	0.01	14.
1 JAN 1100	45	0.08	0.07	0.01	10.	*	1 JAN 2330	95	0.01	0.00	0.01	14.
1 JAN 1115	46	0.10	0.08	0.02	16.	*	1 JAN 2345	96	0.01	0.00	0.01	14.
1 JAN 1130	47	0.13	0.10	0.03	25.	*	2 JAN 0000	97	0.01	0.00	0.01	14.
1 JAN 1145	48	0.51	0.35	0.16	90.	*	2 JAN 0015	98	0.00	0.00	0.00	10.
1 JAN 1200	49	1.26	0.61	0.65	377.	*	2 JAN 0030	99	0.00	0.00	0.00	4.
1 JAN 1215	50	0.20	0.07	0.13	478.	*	2 JAN 0045	100	0.00	0.00	0.00	1.

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.68, TOTAL EXCESS = 1.97

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
478.	12.25	93.	29.	28.	28.	
		(INCHES)	1.603	1.972	1.972	1.972
		(AC-FT)	46.	57.	57.	57.

CUMULATIVE AREA = 0.54 SQ MI

70 KK \* 5C \* CNAME 5R \*

71 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

72 HC HYDROGRAPH COMBINATION  
 ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION 5C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	890.	*	1 JAN 1845	76	57.					
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	578.	*	1 JAN 1900	77	55.					
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	395.	*	1 JAN 1915	78	53.					
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	287.	*	1 JAN 1930	79	51.					
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	224.	*	1 JAN 1945	80	49.					
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	183.	*	1 JAN 2000	81	47.					
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	156.	*	1 JAN 2015	82	45.					
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	137.	*	1 JAN 2030	83	44.					
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	122.	*	1 JAN 2045	84	43.					
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	113.	*	1 JAN 2100	85	43.					
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	106.	*	1 JAN 2115	86	42.					
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	100.	*	1 JAN 2130	87	41.					
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	95.	*	1 JAN 2145	88	41.					
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	90.	*	1 JAN 2200	89	41.					
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	84.	*	1 JAN 2215	90	41.					
1 JAN 0345	16	0.	*	1 JAN 1000	41	1.	*	1 JAN 1615	66	79.	*	1 JAN 2230	91	40.					
1 JAN 0400	17	0.	*	1 JAN 1015	42	3.	*	1 JAN 1630	67	76.	*	1 JAN 2245	92	40.					
1 JAN 0415	18	0.	*	1 JAN 1030	43	6.	*	1 JAN 1645	68	73.	*	1 JAN 2300	93	40.					
1 JAN 0430	19	0.	*	1 JAN 1045	44	11.	*	1 JAN 1700	69	70.	*	1 JAN 2315	94	39.					
1 JAN 0445	20	0.	*	1 JAN 1100	45	19.	*	1 JAN 1715	70	68.	*	1 JAN 2330	95	38.					
1 JAN 0500	21	0.	*	1 JAN 1115	46	32.	*	1 JAN 1730	71	66.	*	1 JAN 2345	96	38.					
1 JAN 0515	22	0.	*	1 JAN 1130	47	52.	*	1 JAN 1745	72	64.	*	2 JAN 0000	97	38.					
1 JAN 0530	23	0.	*	1 JAN 1145	48	169.	*	1 JAN 1800	73	63.	*	2 JAN 0015	98	31.					
1 JAN 0545	24	0.	*	1 JAN 1200	49	715.	*	1 JAN 1815	74	61.	*	2 JAN 0030	99	17.					
1 JAN 0600	25	0.	*	1 JAN 1215	50	1131.	*	1 JAN 1830	75	59.	*	2 JAN 0045	100	8.					

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

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                25yr.out
+ (CFS)      (HR)      6-HR      24-HR      72-HR      24.75-HR
+ 1131.      12.25      (CFS)      250.      77.      75.      75.
                (INCHES) 1,532      1,888      1,888      1,888
                (AC-FT) 124.      153.      153.      153.
                CUMULATIVE AREA = 1.52 SQ MI

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*
73 KK      5R      *      CNAME      5C
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74 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.      HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT      22      SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2      100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250   TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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75 RM      MUSKINGUM ROUTING
          NSTPS      1      NUMBER OF SUBREACHES
          AMSKK      0.12   MUSKINGUM K
          X          0.20   MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 5R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	1046.	*	1	JAN	1845	76	58.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	730.	*	1	JAN	1900	77	56.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	477.	*	1	JAN	1915	78	54.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	336.	*	1	JAN	1930	79	52.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	252.	*	1	JAN	1945	80	50.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	202.	*	1	JAN	2000	81	48.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	169.	*	1	JAN	2015	82	46.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	146.	*	1	JAN	2030	83	45.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	129.	*	1	JAN	2045	84	43.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	117.	*	1	JAN	2100	85	43.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	109.	*	1	JAN	2115	86	42.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	103.	*	1	JAN	2130	87	42.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	98.	*	1	JAN	2145	88	41.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	92.	*	1	JAN	2200	89	41.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	0.	*	1	JAN	1600	65	87.	*	1	JAN	2215	90	41.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	0.	*	1	JAN	1615	66	82.	*	1	JAN	2230	91	40.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	2.	*	1	JAN	1630	67	77.	*	1	JAN	2245	92	40.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	4.	*	1	JAN	1645	68	74.	*	1	JAN	2300	93	40.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	8.	*	1	JAN	1700	69	72.	*	1	JAN	2315	94	39.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	15.	*	1	JAN	1715	70	69.	*	1	JAN	2330	95	39.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	25.	*	1	JAN	1730	71	67.	*	1	JAN	2345	96	38.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	41.	*	1	JAN	1745	72	65.	*	2	JAN	0000	97	38.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	106.	*	1	JAN	1800	73	63.	*	2	JAN	0015	98	35.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	423.	*	1	JAN	1815	74	62.	*	2	JAN	0030	99	24.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	939.	*	1	JAN	1830	75	60.	*	2	JAN	0045	100	12.	*

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PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)      (HR)      6-HR      24-HR      72-HR      24.75-HR
+ 1046.      12.50      (CFS)      250.      77.      75.      75.
                (INCHES) 1,529      1,887      1,887      1,887
                (AC-FT) 124.      153.      153.      153.
                CUMULATIVE AREA = 1.52 SQ MI

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76 KK      4aB      *
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77 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL     0. HYDROGRAPH PLOT SCALE
          IPNCH     1 PUNCH COMPUTED HYDROGRAPH
          IOUT      22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1     1 FIRST ORDINATE PUNCHED OR SAVED
          ISAV2    100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT    0.250 TIME INTERVAL IN HOURS

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80 IN      TIME DATA FOR INPUT TIME SERIES
          JXMIN     6 TIME INTERVAL IN MINUTES
          JXDATE    1JAN94 STARTING DATE
          JXTIME    0 STARTING TIME

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SUBBASIN RUNOFF DATA

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78 BA      SUBBASIN CHARACTERISTICS
          TAREA,    0.86 SUBBASIN AREA

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PRECIPITATION DATA

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79 PB      STORM      4.65 BASIN TOTAL PRECIPITATION

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81 PI      INCREMENTAL PRECIPITATION PATTERN
          0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
          0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01
          0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
          0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03
          0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
          0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00
          0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
          0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
          0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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106 LS     SCS LOSS RATE
          STRTL    0.72 INITIAL ABSTRACTION
          CRVNR    73.51 CURVE NUMBER
          RTIMP    0.00 PERCENT IMPERVIOUS AREA

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107 UD     SCS DIMENSIONLESS UNITGRAPH
          TLAG     0.41 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

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                                UNIT HYDROGRAPH
                                10 END-OF-PERIOD ORDINATES
          332.      783.      609.      271.      129.      59.      28.      13.      7.      2.

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HYDROGRAPH AT STATION 4aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.14	0.05	0.09	595.	*	
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.09	0.03	0.06	379.	*	
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.08	0.02	0.05	256.	*	
1	JAN	0045	4	0.01	0.01	0.00	0.	*		1	JAN	1315	54	0.07	0.02	0.05	183.	*	
1	JAN	0100	5	0.01	0.01	0.00	0.	*		1	JAN	1330	55	0.06	0.02	0.04	140.	*	
1	JAN	0115	6	0.01	0.01	0.00	0.	*		1	JAN	1345	56	0.05	0.02	0.04	114.	*	
1	JAN	0130	7	0.01	0.01	0.00	0.	*		1	JAN	1400	57	0.05	0.01	0.03	97.	*	
1	JAN	0145	8	0.01	0.01	0.00	0.	*		1	JAN	1415	58	0.04	0.01	0.03	83.	*	
1	JAN	0200	9	0.01	0.01	0.00	0.	*		1	JAN	1430	59	0.04	0.01	0.03	74.	*	
1	JAN	0215	10	0.01	0.01	0.00	0.	*		1	JAN	1445	60	0.04	0.01	0.03	68.	*	
1	JAN	0230	11	0.01	0.01	0.00	0.	*		1	JAN	1500	61	0.04	0.01	0.03	64.	*	
1	JAN	0245	12	0.01	0.01	0.00	0.	*		1	JAN	1515	62	0.03	0.01	0.02	61.	*	
1	JAN	0300	13	0.01	0.01	0.00	0.	*		1	JAN	1530	63	0.03	0.01	0.02	57.	*	
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.03	0.01	0.02	54.	*	
1	JAN	0330	15	0.02	0.02	0.00	0.	*		1	JAN	1600	65	0.03	0.01	0.02	51.	*	
1	JAN	0345	16	0.02	0.02	0.00	0.	*		1	JAN	1615	66	0.03	0.01	0.02	48.	*	
1	JAN	0400	17	0.02	0.02	0.00	0.	*		1	JAN	1630	67	0.03	0.01	0.02	45.	*	
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.02	0.01	0.02	44.	*	
1	JAN	0430	19	0.02	0.02	0.00	0.	*		1	JAN	1700	69	0.02	0.01	0.02	42.	*	
1	JAN	0445	20	0.02	0.02	0.00	0.	*		1	JAN	1715	70	0.02	0.01	0.02	41.	*	
1	JAN	0500	21	0.02	0.02	0.00	0.	*		1	JAN	1730	71	0.02	0.01	0.02	40.	*	
1	JAN	0515	22	0.02	0.02	0.00	0.	*		1	JAN	1745	72	0.02	0.01	0.02	39.	*	
1	JAN	0530	23	0.02	0.02	0.00	0.	*		1	JAN	1800	73	0.02	0.01	0.02	37.	*	
1	JAN	0545	24	0.02	0.02	0.00	0.	*		1	JAN	1815	74	0.02	0.01	0.02	36.	*	
1	JAN	0600	25	0.02	0.02	0.00	0.	*		1	JAN	1830	75	0.02	0.01	0.01	35.	*	
1	JAN	0615	26	0.02	0.02	0.00	0.	*		1	JAN	1845	76	0.02	0.00	0.01	34.	*	
1	JAN	0630	27	0.02	0.02	0.00	0.	*		1	JAN	1900	77	0.02	0.00	0.01	33.	*	
1	JAN	0645	28	0.02	0.02	0.00	0.	*		1	JAN	1915	78	0.02	0.00	0.01	32.	*	
1	JAN	0700	29	0.02	0.02	0.00	0.	*		1	JAN	1930	79	0.02	0.00	0.01	31.	*	
1	JAN	0715	30	0.02	0.02	0.00	0.	*		1	JAN	1945	80	0.02	0.00	0.01	30.	*	
1	JAN	0730	31	0.02	0.02	0.00	0.	*		1	JAN	2000	81	0.02	0.00	0.01	28.	*	
1	JAN	0745	32	0.02	0.02	0.00	0.	*		1	JAN	2015	82	0.02	0.00	0.01	27.	*	
1	JAN	0800	33	0.03	0.03	0.00	0.	*		1	JAN	2030	83	0.01	0.00	0.01	26.	*	
1	JAN	0815	34	0.03	0.03	0.00	0.	*		1	JAN	2045	84	0.01	0.00	0.01	26.	*	
1	JAN	0830	35	0.03	0.03	0.00	0.	*		1	JAN	2100	85	0.01	0.00	0.01	25.	*	
1	JAN	0845	36	0.03	0.03	0.00	0.	*		1	JAN	2115	86	0.01	0.00	0.01	25.	*	

25yr.out												
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	25.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	24.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	24.
1 JAN 0945	40	0.04	0.04	0.00	1.	*	1 JAN 2215	90	0.01	0.00	0.01	24.
1 JAN 1000	41	0.04	0.04	0.00	2.	*	1 JAN 2230	91	0.01	0.00	0.01	24.
1 JAN 1015	42	0.05	0.05	0.00	4.	*	1 JAN 2245	92	0.01	0.00	0.01	24.
1 JAN 1030	43	0.06	0.05	0.01	7.	*	1 JAN 2300	93	0.01	0.00	0.01	23.
1 JAN 1045	44	0.07	0.06	0.01	11.	*	1 JAN 2315	94	0.01	0.00	0.01	23.
1 JAN 1100	45	0.08	0.07	0.01	16.	*	1 JAN 2330	95	0.01	0.00	0.01	23.
1 JAN 1115	46	0.10	0.08	0.02	24.	*	1 JAN 2345	96	0.01	0.00	0.01	23.
1 JAN 1130	47	0.13	0.09	0.03	36.	*	2 JAN 0000	97	0.01	0.00	0.01	23.
1 JAN 1145	48	0.51	0.33	0.17	98.	*	2 JAN 0015	98	0.00	0.00	0.00	19.
1 JAN 1200	49	1.26	0.58	0.68	387.	*	2 JAN 0030	99	0.00	0.00	0.00	11.
1 JAN 1215	50	0.20	0.07	0.13	691.	*	2 JAN 0045	100	0.00	0.00	0.00	5.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.60, TOTAL EXCESS = 2.05

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW				
+	(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR	
+	691.	12.25	(CFS)				
			155.	48.	46.	46.	
			(INCHES)	1.662	2.047	2.047	2.047
			(AC-FT)	77.	94.	94.	94.
			CUMULATIVE AREA =	0.86 SQ MI			

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 \* \*  
 108 KK \* 4bB \*  
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109 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

112 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

110 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.61 SUBBASIN AREA

PRECIPITATION DATA

111 PB STORM 4.65 BASIN TOTAL PRECIPITATION

113 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

138 LS SCS LOSS RATE  
 STRTL 0.80 INITIAL ABSTRACTION  
 CRVNBR 71.37 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

139 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.35 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH										
9 END-OF-PERIOD ORDINATES										
322.	620.	368.	152.	64.	27.	12.	5.	2.		

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HYDROGRAPH AT STATION 4bB

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25yr.out

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.14	0.05	0.08	354.	*
1	JAN	0015	2	0.01	0.01	0.00	0.	*	*	1	JAN	1245	52	0.09	0.03	0.06	221.	*
1	JAN	0030	3	0.01	0.01	0.00	0.	*	*	1	JAN	1300	53	0.08	0.03	0.05	147.	*
1	JAN	0045	4	0.01	0.01	0.00	0.	*	*	1	JAN	1315	54	0.07	0.02	0.04	107.	*
1	JAN	0100	5	0.01	0.01	0.00	0.	*	*	1	JAN	1330	55	0.06	0.02	0.04	84.	*
1	JAN	0115	6	0.01	0.01	0.00	0.	*	*	1	JAN	1345	56	0.05	0.02	0.03	70.	*
1	JAN	0130	7	0.01	0.01	0.00	0.	*	*	1	JAN	1400	57	0.05	0.02	0.03	60.	*
1	JAN	0145	8	0.01	0.01	0.00	0.	*	*	1	JAN	1415	58	0.04	0.01	0.03	52.	*
1	JAN	0200	9	0.01	0.01	0.00	0.	*	*	1	JAN	1430	59	0.04	0.01	0.03	48.	*
1	JAN	0215	10	0.01	0.01	0.00	0.	*	*	1	JAN	1445	60	0.04	0.01	0.03	44.	*
1	JAN	0230	11	0.01	0.01	0.00	0.	*	*	1	JAN	1500	61	0.04	0.01	0.02	42.	*
1	JAN	0245	12	0.01	0.01	0.00	0.	*	*	1	JAN	1515	62	0.03	0.01	0.02	40.	*
1	JAN	0300	13	0.01	0.01	0.00	0.	*	*	1	JAN	1530	63	0.03	0.01	0.02	38.	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*	*	1	JAN	1545	64	0.03	0.01	0.02	36.	*
1	JAN	0330	15	0.02	0.02	0.00	0.	*	*	1	JAN	1600	65	0.03	0.01	0.02	34.	*
1	JAN	0345	16	0.02	0.02	0.00	0.	*	*	1	JAN	1615	66	0.03	0.01	0.02	32.	*
1	JAN	0400	17	0.02	0.02	0.00	0.	*	*	1	JAN	1630	67	0.03	0.01	0.02	30.	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*	*	1	JAN	1645	68	0.02	0.01	0.02	29.	*
1	JAN	0430	19	0.02	0.02	0.00	0.	*	*	1	JAN	1700	69	0.02	0.01	0.02	28.	*
1	JAN	0445	20	0.02	0.02	0.00	0.	*	*	1	JAN	1715	70	0.02	0.01	0.02	27.	*
1	JAN	0500	21	0.02	0.02	0.00	0.	*	*	1	JAN	1730	71	0.02	0.01	0.02	26.	*
1	JAN	0515	22	0.02	0.02	0.00	0.	*	*	1	JAN	1745	72	0.02	0.01	0.02	25.	*
1	JAN	0530	23	0.02	0.02	0.00	0.	*	*	1	JAN	1800	73	0.02	0.01	0.02	25.	*
1	JAN	0545	24	0.02	0.02	0.00	0.	*	*	1	JAN	1815	74	0.02	0.01	0.01	24.	*
1	JAN	0600	25	0.02	0.02	0.00	0.	*	*	1	JAN	1830	75	0.02	0.01	0.01	23.	*
1	JAN	0615	26	0.02	0.02	0.00	0.	*	*	1	JAN	1845	76	0.02	0.01	0.01	23.	*
1	JAN	0630	27	0.02	0.02	0.00	0.	*	*	1	JAN	1900	77	0.02	0.01	0.01	22.	*
1	JAN	0645	28	0.02	0.02	0.00	0.	*	*	1	JAN	1915	78	0.02	0.01	0.01	21.	*
1	JAN	0700	29	0.02	0.02	0.00	0.	*	*	1	JAN	1930	79	0.02	0.00	0.01	20.	*
1	JAN	0715	30	0.02	0.02	0.00	0.	*	*	1	JAN	1945	80	0.02	0.00	0.01	20.	*
1	JAN	0730	31	0.02	0.02	0.00	0.	*	*	1	JAN	2000	81	0.02	0.00	0.01	19.	*
1	JAN	0745	32	0.02	0.02	0.00	0.	*	*	1	JAN	2015	82	0.02	0.00	0.01	18.	*
1	JAN	0800	33	0.03	0.03	0.00	0.	*	*	1	JAN	2030	83	0.01	0.00	0.01	17.	*
1	JAN	0815	34	0.03	0.03	0.00	0.	*	*	1	JAN	2045	84	0.01	0.00	0.01	17.	*
1	JAN	0830	35	0.03	0.03	0.00	0.	*	*	1	JAN	2100	85	0.01	0.00	0.01	17.	*
1	JAN	0845	36	0.03	0.03	0.00	0.	*	*	1	JAN	2115	86	0.01	0.00	0.01	17.	*
1	JAN	0900	37	0.04	0.04	0.00	0.	*	*	1	JAN	2130	87	0.01	0.00	0.01	17.	*
1	JAN	0915	38	0.04	0.04	0.00	0.	*	*	1	JAN	2145	88	0.01	0.00	0.01	16.	*
1	JAN	0930	39	0.04	0.04	0.00	0.	*	*	1	JAN	2200	89	0.01	0.00	0.01	16.	*
1	JAN	0945	40	0.04	0.04	0.00	0.	*	*	1	JAN	2215	90	0.01	0.00	0.01	16.	*
1	JAN	1000	41	0.04	0.04	0.00	0.	*	*	1	JAN	2230	91	0.01	0.00	0.01	16.	*
1	JAN	1015	42	0.05	0.05	0.00	1.	*	*	1	JAN	2245	92	0.01	0.00	0.01	16.	*
1	JAN	1030	43	0.06	0.05	0.00	2.	*	*	1	JAN	2300	93	0.01	0.00	0.01	16.	*
1	JAN	1045	44	0.07	0.06	0.01	4.	*	*	1	JAN	2315	94	0.01	0.00	0.01	16.	*
1	JAN	1100	45	0.08	0.07	0.01	8.	*	*	1	JAN	2330	95	0.01	0.00	0.01	15.	*
1	JAN	1115	46	0.10	0.08	0.01	13.	*	*	1	JAN	2345	96	0.01	0.00	0.01	15.	*
1	JAN	1130	47	0.13	0.10	0.02	21.	*	*	2	JAN	0000	97	0.01	0.00	0.01	15.	*
1	JAN	1145	48	0.51	0.36	0.15	70.	*	*	2	JAN	0015	98	0.00	0.00	0.00	12.	*
1	JAN	1200	49	1.26	0.64	0.62	304.	*	*	2	JAN	0030	99	0.00	0.00	0.00	6.	*
1	JAN	1215	50	0.20	0.08	0.12	482.	*	*	2	JAN	0045	100	0.00	0.00	0.00	3.	*

\*\*\*\*\*

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.77, TOTAL EXCESS = 1.88

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)		(INCHES)			
+	482.	12.25	100.	1.529	31.	30.	30.
+			50.	61.	1.882	1.882	1.882
				50.	61.	61.	61.

CUMULATIVE AREA = 0.61 SQ MI

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*****
* *
140 KK      4C *      CNAME      4R
* *
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141 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0      HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT      22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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142 HC      HYDROGRAPH COMBINATION
          ICOMP      3      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4C

25yr.out  
SUM OF 3 HYDROGRAPHS

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*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
1 JAN 0000 1 0. * 1 JAN 0615 26 0. * 1 JAN 1230 51 1996. * 1 JAN 1845 76 115.
1 JAN 0015 2 0. * 1 JAN 0630 27 0. * 1 JAN 1245 52 1329. * 1 JAN 1900 77 111.
1 JAN 0030 3 0. * 1 JAN 0645 28 0. * 1 JAN 1300 53 880. * 1 JAN 1915 78 107.
1 JAN 0045 4 0. * 1 JAN 0700 29 0. * 1 JAN 1315 54 626. * 1 JAN 1930 79 103.
1 JAN 0100 5 0. * 1 JAN 0715 30 0. * 1 JAN 1330 55 477. * 1 JAN 1945 80 99.
1 JAN 0115 6 0. * 1 JAN 0730 31 0. * 1 JAN 1345 56 386. * 1 JAN 2000 81 95.
1 JAN 0130 7 0. * 1 JAN 0745 32 0. * 1 JAN 1400 57 325. * 1 JAN 2015 82 91.
1 JAN 0145 8 0. * 1 JAN 0800 33 0. * 1 JAN 1415 58 282. * 1 JAN 2030 83 88.
1 JAN 0200 9 0. * 1 JAN 0815 34 0. * 1 JAN 1430 59 250. * 1 JAN 2045 84 86.
1 JAN 0215 10 0. * 1 JAN 0830 35 0. * 1 JAN 1445 60 230. * 1 JAN 2100 85 85.
1 JAN 0230 11 0. * 1 JAN 0845 36 0. * 1 JAN 1500 61 215. * 1 JAN 2115 86 84.
1 JAN 0245 12 0. * 1 JAN 0900 37 0. * 1 JAN 1515 62 204. * 1 JAN 2130 87 83.
1 JAN 0300 13 0. * 1 JAN 0915 38 0. * 1 JAN 1530 63 192. * 1 JAN 2145 88 82.
1 JAN 0315 14 0. * 1 JAN 0930 39 0. * 1 JAN 1545 64 182. * 1 JAN 2200 89 82.
1 JAN 0330 15 0. * 1 JAN 0945 40 1. * 1 JAN 1600 65 172. * 1 JAN 2215 90 81.
1 JAN 0345 16 0. * 1 JAN 1000 41 3. * 1 JAN 1615 66 161. * 1 JAN 2230 91 80.
1 JAN 0400 17 0. * 1 JAN 1015 42 6. * 1 JAN 1630 67 153. * 1 JAN 2245 92 79.
1 JAN 0415 18 0. * 1 JAN 1030 43 13. * 1 JAN 1645 68 147. * 1 JAN 2300 93 79.
1 JAN 0430 19 0. * 1 JAN 1045 44 23. * 1 JAN 1700 69 142. * 1 JAN 2315 94 78.
1 JAN 0445 20 0. * 1 JAN 1100 45 39. * 1 JAN 1715 70 138. * 1 JAN 2330 95 77.
1 JAN 0500 21 0. * 1 JAN 1115 46 62. * 1 JAN 1730 71 133. * 1 JAN 2345 96 76.
1 JAN 0515 22 0. * 1 JAN 1130 47 99. * 1 JAN 1745 72 130. * 2 JAN 0000 97 76.
1 JAN 0530 23 0. * 1 JAN 1145 48 275. * 1 JAN 1800 73 126. * 2 JAN 0015 98 66.
1 JAN 0545 24 0. * 1 JAN 1200 49 1115. * 1 JAN 1815 74 122. * 2 JAN 0030 99 41.
1 JAN 0600 25 0. * 1 JAN 1215 50 2112. * 1 JAN 1830 75 118. * 2 JAN 0045 100 19.
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PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR
+ 2112. 12.25 (CFS) 504. 155. 151. 151.
(INCHES) 1.568 1.932 1.932 1.932
(AC-FT) 250. 308. 308. 308.
CUMULATIVE AREA = 2.99 SQ MI

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*****
* *
143 KK * 4R * CNAME 4C
* *
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144 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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145 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.09 MUSKINGUM K
X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 4R

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*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
1 JAN 0000 1 0. * 1 JAN 0615 26 0. * 1 JAN 1230 51 2146. * 1 JAN 1845 76 116.
1 JAN 0015 2 0. * 1 JAN 0630 27 0. * 1 JAN 1245 52 1588. * 1 JAN 1900 77 112.
1 JAN 0030 3 0. * 1 JAN 0645 28 0. * 1 JAN 1300 53 1010. * 1 JAN 1915 78 108.
1 JAN 0045 4 0. * 1 JAN 0700 29 0. * 1 JAN 1315 54 704. * 1 JAN 1930 79 104.
1 JAN 0100 5 0. * 1 JAN 0715 30 0. * 1 JAN 1330 55 522. * 1 JAN 1945 80 101.
1 JAN 0115 6 0. * 1 JAN 0730 31 0. * 1 JAN 1345 56 415. * 1 JAN 2000 81 97.
1 JAN 0130 7 0. * 1 JAN 0745 32 0. * 1 JAN 1400 57 345. * 1 JAN 2015 82 93.
1 JAN 0145 8 0. * 1 JAN 0800 33 0. * 1 JAN 1415 58 296. * 1 JAN 2030 83 89.
1 JAN 0200 9 0. * 1 JAN 0815 34 0. * 1 JAN 1430 59 260. * 1 JAN 2045 84 87.
1 JAN 0215 10 0. * 1 JAN 0830 35 0. * 1 JAN 1445 60 236. * 1 JAN 2100 85 85.
1 JAN 0230 11 0. * 1 JAN 0845 36 0. * 1 JAN 1500 61 220. * 1 JAN 2115 86 85.
1 JAN 0245 12 0. * 1 JAN 0900 37 0. * 1 JAN 1515 62 208. * 1 JAN 2130 87 84.
1 JAN 0300 13 0. * 1 JAN 0915 38 0. * 1 JAN 1530 63 196. * 1 JAN 2145 88 82.
*****

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25yr.out														
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	186.	*	1 JAN 2200	89	82.
1 JAN 0330	15	0.	*	1 JAN 0945	40	1.	*	1 JAN 1600	65	175.	*	1 JAN 2215	90	81.
1 JAN 0345	16	0.	*	1 JAN 1000	41	2.	*	1 JAN 1615	66	165.	*	1 JAN 2230	91	81.
1 JAN 0400	17	0.	*	1 JAN 1015	42	5.	*	1 JAN 1630	67	156.	*	1 JAN 2245	92	80.
1 JAN 0415	18	0.	*	1 JAN 1030	43	10.	*	1 JAN 1645	68	149.	*	1 JAN 2300	93	79.
1 JAN 0430	19	0.	*	1 JAN 1045	44	19.	*	1 JAN 1700	69	143.	*	1 JAN 2315	94	79.
1 JAN 0445	20	0.	*	1 JAN 1100	45	33.	*	1 JAN 1715	70	139.	*	1 JAN 2330	95	78.
1 JAN 0500	21	0.	*	1 JAN 1115	46	53.	*	1 JAN 1730	71	135.	*	1 JAN 2345	96	77.
1 JAN 0515	22	0.	*	1 JAN 1130	47	85.	*	1 JAN 1745	72	131.	*	2 JAN 0000	97	76.
1 JAN 0530	23	0.	*	1 JAN 1145	48	199.	*	1 JAN 1800	73	127.	*	2 JAN 0015	98	70.
1 JAN 0545	24	0.	*	1 JAN 1200	49	757.	*	1 JAN 1815	74	123.	*	2 JAN 0030	99	51.
1 JAN 0600	25	0.	*	1 JAN 1215	50	1763.	*	1 JAN 1830	75	119.	*	2 JAN 0045	100	26.

\*\*\*\*\*

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
2146.	12.50	504.	155.	151.	151.
		1.565	1.931	1.931	1.931
		250.	308.	308.	308.

CUMULATIVE AREA = 2.99 SQ MI

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 \* \*  
 146 KK \* 3B \*  
 \* \*  
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147 KO OUTPUT CONTROL VARIABLES  
 IPRT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

150 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

148 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.99 SUBBASIN AREA

PRECIPITATION DATA

149 PB STORM 4.65 BASIN TOTAL PRECIPITATION

151 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

176 LS SCS LOSS RATE  
 STRTL 0.75 INITIAL ABSTRACTION  
 CRVNBR 72.67 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

177 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.34 LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH											
9 END-OF-PERIOD ORDINATES											
573.	1035.	560.	229.	95.	39.	16.	7.	1.			

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HYDROGRAPH AT STATION 3B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.09	588.

25yr.out												
1 JAN 0015	2	0.01	0.01	0.00	0.	*	1 JAN 1245	52	0.09	0.03	0.06	364.
1 JAN 0030	3	0.01	0.01	0.00	0.	*	1 JAN 1300	53	0.08	0.03	0.05	242.
1 JAN 0045	4	0.01	0.01	0.00	0.	*	1 JAN 1315	54	0.07	0.02	0.05	176.
1 JAN 0100	5	0.01	0.01	0.00	0.	*	1 JAN 1330	55	0.06	0.02	0.04	139.
1 JAN 0115	6	0.01	0.01	0.00	0.	*	1 JAN 1345	56	0.05	0.02	0.04	116.
1 JAN 0130	7	0.01	0.01	0.00	0.	*	1 JAN 1400	57	0.05	0.01	0.03	99.
1 JAN 0145	8	0.01	0.01	0.00	0.	*	1 JAN 1415	58	0.04	0.01	0.03	87.
1 JAN 0200	9	0.01	0.01	0.00	0.	*	1 JAN 1430	59	0.04	0.01	0.03	79.
1 JAN 0215	10	0.01	0.01	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	74.
1 JAN 0230	11	0.01	0.01	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	70.
1 JAN 0245	12	0.01	0.01	0.00	0.	*	1 JAN 1515	62	0.03	0.01	0.02	66.
1 JAN 0300	13	0.01	0.01	0.00	0.	*	1 JAN 1530	63	0.03	0.01	0.02	63.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.03	0.01	0.02	59.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	56.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	53.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	50.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.02	0.01	0.02	48.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.02	0.01	0.02	47.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.02	0.01	0.02	46.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.02	0.01	0.02	44.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.02	0.01	0.02	43.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	42.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.02	40.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.01	39.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.01	38.
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.01	36.
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.01	35.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	34.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	33.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	31.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	30.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	29.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	29.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	28.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	28.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	28.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	27.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	27.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	27.
1 JAN 1000	41	0.04	0.04	0.00	1.	*	1 JAN 2230	91	0.01	0.00	0.01	27.
1 JAN 1015	42	0.05	0.05	0.00	4.	*	1 JAN 2245	92	0.01	0.00	0.01	26.
1 JAN 1030	43	0.06	0.05	0.00	7.	*	1 JAN 2300	93	0.01	0.00	0.01	26.
1 JAN 1045	44	0.07	0.06	0.01	11.	*	1 JAN 2315	94	0.01	0.00	0.01	26.
1 JAN 1100	45	0.08	0.07	0.01	18.	*	1 JAN 2330	95	0.01	0.00	0.01	26.
1 JAN 1115	46	0.10	0.08	0.02	27.	*	1 JAN 2345	96	0.01	0.00	0.01	25.
1 JAN 1130	47	0.13	0.10	0.03	43.	*	2 JAN 0000	97	0.01	0.00	0.01	25.
1 JAN 1145	48	0.51	0.34	0.16	136.	*	2 JAN 0015	98	0.00	0.00	0.00	20.
1 JAN 1200	49	1.26	0.60	0.65	566.	*	2 JAN 0030	99	0.00	0.00	0.00	9.
1 JAN 1215	50	0.20	0.07	0.13	849.	*	2 JAN 0045	100	0.00	0.00	0.00	4.

\*\*\*\*\*

TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.67, TOTAL EXCESS = 1.98

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
849.	12.25		171.	53.	51.	51.
		(INCHES)	1.611	1.982	1.982	1.982
		(AC-FT)	85.	105.	105.	105.

CUMULATIVE AREA = 0.99 SQ MI

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*****
*
178 KK      3C *      CNAME      3R
*
*****

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179 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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180 HC      HYDROGRAPH COMBINATION
          ICOMP      2      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
SUM OF 2 HYDROGRAPHS

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				25yr.out													
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2733.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	1952.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1252.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	879.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	661.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	531.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	444.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	383.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	340.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	310.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	290.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	274.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	259.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	245.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1.	*	1	JAN	1600	65	231.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	3.	*	1	JAN	1615	66	217.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	8.	*	1	JAN	1630	67	206.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	17.	*	1	JAN	1645	68	197.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	31.	*	1	JAN	1700	69	190.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	50.	*	1	JAN	1715	70	185.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	80.	*	1	JAN	1730	71	179.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	127.	*	1	JAN	1745	72	174.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	336.	*	1	JAN	1800	73	169.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1323.	*	1	JAN	1815	74	164.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	2612.	*	1	JAN	1830	75	159.	*

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
2733.	12.50	675.	208.	202.	202.
		1.577	1.944	1.944	1.944
		335.	413.	413.	413.
CUMULATIVE AREA =		3.98 SQ MI			

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181 KK *      3R *      CNAME      3C
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182 KO      OUTPUT CONTROL VARIABLES
      IPRNT      1 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
      IPNCH      0 PUNCH COMPUTED HYDROGRAPH
      IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
      ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
      ISAV2      100 LAST ORDINATE PUNCHED OR SAVED
      TIMINT     0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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183 RM      MUSKINGUM ROUTING
      NSTPS      1 NUMBER OF SUBREACHES
      AMSKK      0.09 MUSKINGUM K
      X          0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 3R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2807.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2286.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1477.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	986.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	730.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	570.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	472.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	403.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	354.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	320.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	297.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	279.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	1530	63	264.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	0.	*	1	JAN	1545	64	250.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	0.	*	1	JAN	1600	65	236.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	2.	*	1	JAN	1615	66	222.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	6.	*	1	JAN	1630	67	210.	*

25yr.out

1 JAN 0415	18	0.	*	1 JAN 1030	43	14.	*	1 JAN 1645	68	200.	*	1 JAN 2300	93	106.
1 JAN 0430	19	0.	*	1 JAN 1045	44	25.	*	1 JAN 1700	69	193.	*	1 JAN 2315	94	105.
1 JAN 0445	20	0.	*	1 JAN 1100	45	43.	*	1 JAN 1715	70	187.	*	1 JAN 2330	95	104.
1 JAN 0500	21	0.	*	1 JAN 1115	46	69.	*	1 JAN 1730	71	181.	*	1 JAN 2345	96	102.
1 JAN 0515	22	0.	*	1 JAN 1130	47	109.	*	1 JAN 1745	72	176.	*	2 JAN 0000	97	101.
1 JAN 0530	23	0.	*	1 JAN 1145	48	246.	*	1 JAN 1800	73	171.	*	2 JAN 0015	98	95.
1 JAN 0545	24	0.	*	1 JAN 1200	49	900.	*	1 JAN 1815	74	166.	*	2 JAN 0030	99	72.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2144.	*	1 JAN 1830	75	160.	*	2 JAN 0045	100	40.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
2807.	12.50	674.	208.	202.	202.	
		(INCHES)	1.574	1.942	1.942	1.942
		(AC-FT)	334.	412.	412.	412.

CUMULATIVE AREA = 3.98 SQ MI

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 184 KK \* 2B \*  
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185 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

188 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

186 BA SUBBASIN CHARACTERISTICS

TAREA,	0.84	SUBBASIN AREA
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PRECIPITATION DATA

187 PB STORM 4.65 BASIN TOTAL PRECIPITATION

189 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

214 LS SCS LOSS RATE

STRTL	0.79	INITIAL ABSTRACTION
CRVNR	71.81	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

215 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.30	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES

610.	907.	400.	156.	60.	23.	9.	3.
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HYDROGRAPH AT STATION 2B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN	0000	1	0.00	0.00	0.00	0.	*		1 JAN	1230	51	0.14	0.05	0.09	442.	
1 JAN	0015	2	0.01	0.01	0.00	0.	*		1 JAN	1245	52	0.09	0.03	0.06	272.	
1 JAN	0030	3	0.01	0.01	0.00	0.	*		1 JAN	1300	53	0.08	0.03	0.05	181.	
1 JAN	0045	4	0.01	0.01	0.00	0.	*		1 JAN	1315	54	0.07	0.02	0.04	135.	
1 JAN	0100	5	0.01	0.01	0.00	0.	*		1 JAN	1330	55	0.06	0.02	0.04	108.	

25yr.out

1 JAN 0115	6	0.01	0.01	0.00	0.	*	1 JAN 1345	56	0.05	0.02	0.03	91.
1 JAN 0130	7	0.01	0.01	0.00	0.	*	1 JAN 1400	57	0.05	0.01	0.03	79.
1 JAN 0145	8	0.01	0.01	0.00	0.	*	1 JAN 1415	58	0.04	0.01	0.03	71.
1 JAN 0200	9	0.01	0.01	0.00	0.	*	1 JAN 1430	59	0.04	0.01	0.03	65.
1 JAN 0215	10	0.01	0.01	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	61.
1 JAN 0230	11	0.01	0.01	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.02	58.
1 JAN 0245	12	0.01	0.01	0.00	0.	*	1 JAN 1515	62	0.03	0.01	0.02	55.
1 JAN 0300	13	0.01	0.01	0.00	0.	*	1 JAN 1530	63	0.03	0.01	0.02	52.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.03	0.01	0.02	49.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	46.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	43.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	41.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.02	0.01	0.02	40.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.02	0.01	0.02	39.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.02	0.01	0.02	38.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.02	0.01	0.02	36.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.02	0.01	0.02	36.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	34.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.01	33.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.01	32.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.01	31.
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.01	30.
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.01	29.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	28.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	27.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	26.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	25.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	24.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	24.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	24.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	23.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	23.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	23.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	23.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	23.
1 JAN 1000	41	0.04	0.04	0.00	1.	*	1 JAN 2230	91	0.01	0.00	0.01	22.
1 JAN 1015	42	0.05	0.05	0.00	2.	*	1 JAN 2245	92	0.01	0.00	0.01	22.
1 JAN 1030	43	0.06	0.05	0.00	4.	*	1 JAN 2300	93	0.01	0.00	0.01	22.
1 JAN 1045	44	0.07	0.06	0.01	8.	*	1 JAN 2315	94	0.01	0.00	0.01	22.
1 JAN 1100	45	0.08	0.07	0.01	13.	*	1 JAN 2330	95	0.01	0.00	0.01	21.
1 JAN 1115	46	0.10	0.08	0.02	21.	*	1 JAN 2345	96	0.01	0.00	0.01	21.
1 JAN 1130	47	0.13	0.10	0.03	35.	*	2 JAN 0000	97	0.01	0.00	0.01	21.
1 JAN 1145	48	0.51	0.35	0.15	125.	*	2 JAN 0015	98	0.00	0.00	0.00	15.
1 JAN 1200	49	1.26	0.63	0.63	538.	*	2 JAN 0030	99	0.00	0.00	0.00	6.
1 JAN 1215	50	0.20	0.08	0.12	713.	*	2 JAN 0045	100	0.00	0.00	0.00	2.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.73, TOTAL EXCESS = 1.92

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)			
713.	12.25	141.	43.	42.	42.
		(INCHES)	1.558	1.916	1.916
		(AC-FT)	70.	86.	86.

CUMULATIVE AREA = 0.84 SQ MI

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 216 KK            2C            CNAME            2R  
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217 KO            OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

218 HC            HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION            2C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	3248.	1	JAN	1845	76	187.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	2558.	1	JAN	1900	77	180.

		25yr.out												
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	1659.	*	1 JAN 1915	78	174.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1121.	*	1 JAN 1930	79	168.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	839.	*	1 JAN 1945	80	162.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	662.	*	1 JAN 2000	81	156.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	551.	*	1 JAN 2015	82	150.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	473.	*	1 JAN 2030	83	144.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	419.	*	1 JAN 2045	84	140.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	381.	*	1 JAN 2100	85	138.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	354.	*	1 JAN 2115	86	136.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	334.	*	1 JAN 2130	87	135.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	316.	*	1 JAN 2145	88	133.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	299.	*	1 JAN 2200	89	132.
1 JAN 0330	15	0.	*	1 JAN 0945	40	1.	*	1 JAN 1600	65	282.	*	1 JAN 2215	90	131.
1 JAN 0345	16	0.	*	1 JAN 1000	41	3.	*	1 JAN 1615	66	265.	*	1 JAN 2230	91	130.
1 JAN 0400	17	0.	*	1 JAN 1015	42	8.	*	1 JAN 1630	67	251.	*	1 JAN 2245	92	128.
1 JAN 0415	18	0.	*	1 JAN 1030	43	18.	*	1 JAN 1645	68	240.	*	1 JAN 2300	93	128.
1 JAN 0430	19	0.	*	1 JAN 1045	44	33.	*	1 JAN 1700	69	231.	*	1 JAN 2315	94	127.
1 JAN 0445	20	0.	*	1 JAN 1100	45	56.	*	1 JAN 1715	70	224.	*	1 JAN 2330	95	125.
1 JAN 0500	21	0.	*	1 JAN 1115	46	90.	*	1 JAN 1730	71	218.	*	1 JAN 2345	96	124.
1 JAN 0515	22	0.	*	1 JAN 1130	47	144.	*	1 JAN 1745	72	211.	*	2 JAN 0000	97	123.
1 JAN 0530	23	0.	*	1 JAN 1145	48	372.	*	1 JAN 1800	73	205.	*	2 JAN 0015	98	110.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1438.	*	1 JAN 1815	74	199.	*	2 JAN 0030	99	78.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2857.	*	1 JAN 1830	75	193.	*	2 JAN 0045	100	43.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
3248.	12.50	815.	251.	244.	244.
		(INCHES)	1.571	1.938	1.938
		(AC-FT)	404.	498.	498.

CUMULATIVE AREA = 4.82 SQ MI

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219 KK      *      2R      *      CNAME      2C
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220 KO      OUTPUT CONTROL VARIABLES
            IPRNT      1      PRINT CONTROL
            IPLOT      0      PLOT CONTROL
            QSCAL      0.    HYDROGRAPH PLOT SCALE
            IPNCH      0      PUNCH COMPUTED HYDROGRAPH
            IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250  TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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221 RM      MUSKINGUM ROUTING
            NSTPS      1      NUMBER OF SUBREACHES
            AMSKK     0.10    MUSKINGUM K
            X          0.20    MUSKINGUM X

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\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 2R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN 0000			1	0.	*	1 JAN 0615			26	0.	*	1 JAN 1230			51	3177.	*	1 JAN 1845			76	189.	*
1 JAN 0015			2	0.	*	1 JAN 0630			27	0.	*	1 JAN 1245			52	2916.	*	1 JAN 1900			77	183.	*
1 JAN 0030			3	0.	*	1 JAN 0645			28	0.	*	1 JAN 1300			53	2032.	*	1 JAN 1915			78	177.	*
1 JAN 0045			4	0.	*	1 JAN 0700			29	0.	*	1 JAN 1315			54	1311.	*	1 JAN 1930			79	171.	*
1 JAN 0100			5	0.	*	1 JAN 0715			30	0.	*	1 JAN 1330			55	940.	*	1 JAN 1945			80	165.	*
1 JAN 0115			6	0.	*	1 JAN 0730			31	0.	*	1 JAN 1345			56	729.	*	1 JAN 2000			81	159.	*
1 JAN 0130			7	0.	*	1 JAN 0745			32	0.	*	1 JAN 1400			57	592.	*	1 JAN 2015			82	152.	*
1 JAN 0145			8	0.	*	1 JAN 0800			33	0.	*	1 JAN 1415			58	503.	*	1 JAN 2030			83	146.	*
1 JAN 0200			9	0.	*	1 JAN 0815			34	0.	*	1 JAN 1430			59	440.	*	1 JAN 2045			84	141.	*
1 JAN 0215			10	0.	*	1 JAN 0830			35	0.	*	1 JAN 1445			60	395.	*	1 JAN 2100			85	139.	*
1 JAN 0230			11	0.	*	1 JAN 0845			36	0.	*	1 JAN 1500			61	364.	*	1 JAN 2115			86	137.	*
1 JAN 0245			12	0.	*	1 JAN 0900			37	0.	*	1 JAN 1515			62	342.	*	1 JAN 2130			87	136.	*
1 JAN 0300			13	0.	*	1 JAN 0915			38	0.	*	1 JAN 1530			63	323.	*	1 JAN 2145			88	134.	*
1 JAN 0315			14	0.	*	1 JAN 0930			39	0.	*	1 JAN 1545			64	306.	*	1 JAN 2200			89	133.	*
1 JAN 0330			15	0.	*	1 JAN 0945			40	0.	*	1 JAN 1600			65	289.	*	1 JAN 2215			90	132.	*
1 JAN 0345			16	0.	*	1 JAN 1000			41	2.	*	1 JAN 1615			66	272.	*	1 JAN 2230			91	131.	*
1 JAN 0400			17	0.	*	1 JAN 1015			42	6.	*	1 JAN 1630			67	257.	*	1 JAN 2245			92	129.	*
1 JAN 0415			18	0.	*	1 JAN 1030			43	14.	*	1 JAN 1645			68	244.	*	1 JAN 2300			93	128.	*
1 JAN 0430			19	0.	*	1 JAN 1045			44	27.	*	1 JAN 1700			69	235.	*	1 JAN 2315			94	127.	*
1 JAN 0445			20	0.	*	1 JAN 1100			45	46.	*	1 JAN 1715			70	227.	*	1 JAN 2330			95	126.	*
1 JAN 0500			21	0.	*	1 JAN 1115			46	75.	*	1 JAN 1730			71	220.	*	1 JAN 2345			96	124.	*

25yr.out  
 1 JAN 0515 22 0. \* 1 JAN 1130 47 120. \* 1 JAN 1745 72 214. \* 2 JAN 0000 97 123.  
 1 JAN 0530 23 0. \* 1 JAN 1145 48 263. \* 1 JAN 1800 73 208. \* 2 JAN 0015 98 116.  
 1 JAN 0545 24 0. \* 1 JAN 1200 49 931. \* 1 JAN 1815 74 201. \* 2 JAN 0030 99 93.  
 1 JAN 0600 25 0. \* 1 JAN 1215 50 2256. \* 1 JAN 1830 75 195. \* 2 JAN 0045 100 58.  
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PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 + (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
 + 3177. 12.50 (CFS) 814. 251. 243. 243.  
 (INCHES) 1.570 1.936 1.936 1.936  
 (AC-FT) 404. 498. 498. 498.

CUMULATIVE AREA = 4.82 SQ MI

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 222 KK 1B \*  
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223 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

226 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

224 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.70 SUBBASIN AREA

PRECIPITATION DATA

225 PB STORM 4.65 BASIN TOTAL PRECIPITATION

227 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

252 LS SCS LOSS RATE  
 STRTL 0.77 INITIAL ABSTRACTION  
 CRVNBR 72.29 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

253 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.29 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES  
 528. 755. 321. 122. 46. 18. 7. 2.

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HYDROGRAPH AT STATION 1B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.09	368.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.09	0.03	0.06	225.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	150.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	112.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	90.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.04	76.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	66.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	59.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	54.

25yr.out

1 JAN 0215	10	0.01	0.01	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	51.
1 JAN 0230	11	0.01	0.01	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	48.
1 JAN 0245	12	0.01	0.01	0.00	0.	*	1 JAN 1515	62	0.03	0.01	0.02	46.
1 JAN 0300	13	0.01	0.01	0.00	0.	*	1 JAN 1530	63	0.03	0.01	0.02	43.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.03	0.01	0.02	41.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	38.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	36.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	35.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.02	0.01	0.02	33.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.02	0.01	0.02	32.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.02	0.01	0.02	32.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.02	0.01	0.02	31.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.02	0.01	0.02	30.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	29.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.01	28.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.01	27.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.01	26.
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.01	25.
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.01	24.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	24.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	23.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	22.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	21.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	20.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.01	0.00	0.01	20.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.01	0.00	0.01	20.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	20.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	19.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	19.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	19.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	19.
1 JAN 1000	41	0.04	0.04	0.00	1.	*	1 JAN 2230	91	0.01	0.00	0.01	19.
1 JAN 1015	42	0.05	0.05	0.00	2.	*	1 JAN 2245	92	0.01	0.00	0.01	18.
1 JAN 1030	43	0.06	0.05	0.00	5.	*	1 JAN 2300	93	0.01	0.00	0.01	18.
1 JAN 1045	44	0.07	0.06	0.01	8.	*	1 JAN 2315	94	0.01	0.00	0.01	18.
1 JAN 1100	45	0.08	0.07	0.01	12.	*	1 JAN 2330	95	0.01	0.00	0.01	18.
1 JAN 1115	46	0.10	0.08	0.02	20.	*	1 JAN 2345	96	0.01	0.00	0.01	18.
1 JAN 1130	47	0.13	0.10	0.03	31.	*	2 JAN 0000	97	0.01	0.00	0.01	18.
1 JAN 1145	48	0.51	0.35	0.16	112.	*	2 JAN 0015	98	0.00	0.00	0.00	12.
1 JAN 1200	49	1.26	0.61	0.64	472.	*	2 JAN 0030	99	0.00	0.00	0.00	5.
1 JAN 1215	50	0.20	0.07	0.12	607.	*	2 JAN 0045	100	0.00	0.00	0.00	2.

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TOTAL RAINFALL = 4.65, TOTAL LOSS = 2.70, TOTAL EXCESS = 1.95

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(INCHES)	(AC-FT)	
607.	12.25	119.	1.588	59.	
		37.	1.953	73.	35.
		35.	1.953	73.	35.

CUMULATIVE AREA = 0.70 SQ MI

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\*\*\*\*\*  
 254 KK            1C            CNAME            1C  
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255 KO            OUTPUT CONTROL VARIABLES  
 IPRENT            1    PRINT CONTROL  
 IPLOT             0    PLOT CONTROL  
 QSCAL            0.    HYDROGRAPH PLOT SCALE  
 IPNCH            0    PUNCH COMPUTED HYDROGRAPH  
 IOUT             22    SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1            1    FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2            100    LAST ORDINATE PUNCHED OR SAVED  
 TIMINT           0.250    TIME INTERVAL IN HOURS

256 HC            HYDROGRAPH COMBINATION  
 ICOMP            2    NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION    1C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	3545.	1	JAN	1845	76	215.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	3140.	1	JAN	1900	77	208.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	2182.	1	JAN	1915	78	201.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	1423.	1	JAN	1930	79	194.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	1030.	1	JAN	1945	80	187.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	805.	1	JAN	2000	81	180.



												25yr.out		
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	658.	*	1 JAN 2015	82	173.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	562.	*	1 JAN 2030	83	166.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	494.	*	1 JAN 2045	84	161.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	446.	*	1 JAN 2100	85	158.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	413.	*	1 JAN 2115	86	157.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	388.	*	1 JAN 2130	87	155.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	367.	*	1 JAN 2145	88	153.
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	347.	*	1 JAN 2200	89	152.
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	327.	*	1 JAN 2215	90	150.
1 JAN 0345	16	0.	*	1 JAN 1000	41	3.	*	1 JAN 1615	66	308.	*	1 JAN 2230	91	149.
1 JAN 0400	17	0.	*	1 JAN 1015	42	8.	*	1 JAN 1630	67	291.	*	1 JAN 2245	92	147.
1 JAN 0415	18	0.	*	1 JAN 1030	43	18.	*	1 JAN 1645	68	277.	*	1 JAN 2300	93	146.
1 JAN 0430	19	0.	*	1 JAN 1045	44	35.	*	1 JAN 1700	69	267.	*	1 JAN 2315	94	145.
1 JAN 0445	20	0.	*	1 JAN 1100	45	59.	*	1 JAN 1715	70	259.	*	1 JAN 2330	95	144.
1 JAN 0500	21	0.	*	1 JAN 1115	46	95.	*	1 JAN 1730	71	251.	*	1 JAN 2345	96	142.
1 JAN 0515	22	0.	*	1 JAN 1130	47	151.	*	1 JAN 1745	72	244.	*	2 JAN 0000	97	141.
1 JAN 0530	23	0.	*	1 JAN 1145	48	375.	*	1 JAN 1800	73	236.	*	2 JAN 0015	98	129.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1402.	*	1 JAN 1815	74	229.	*	2 JAN 0030	99	98.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2863.	*	1 JAN 1830	75	222.	*	2 JAN 0045	100	59.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
3545.	12.50	932.	288.	279.	279.
		(INCHES)	1.571	1.938	1.938
		(AC-FT)	462.	570.	570.

CUMULATIVE AREA = 5.52 SQ MI

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*****
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257 KK      1C *      CNAME      1C
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258 KO      OUTPUT CONTROL VARIABLES
            IPRNT      1 PRINT CONTROL
            IPLOT      0 PLOT CONTROL
            QSCAL      0. HYDROGRAPH PLOT SCALE
            IPNCH      0 PUNCH COMPUTED HYDROGRAPH
            IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     100 LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

259 RN NO ROUTING

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HYDROGRAPH AT STATION 1C

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	3545.	*	1 JAN 1845	76	215.															
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	3140.	*	1 JAN 1900	77	208.															
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	2182.	*	1 JAN 1915	78	201.															
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1423.	*	1 JAN 1930	79	194.															
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	1030.	*	1 JAN 1945	80	187.															
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	805.	*	1 JAN 2000	81	180.															
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	658.	*	1 JAN 2015	82	173.															
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	562.	*	1 JAN 2030	83	166.															
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	494.	*	1 JAN 2045	84	161.															
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	446.	*	1 JAN 2100	85	158.															
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	413.	*	1 JAN 2115	86	157.															
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	388.	*	1 JAN 2130	87	155.															
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	367.	*	1 JAN 2145	88	153.															
1 JAN 0315	14	0.	*	1 JAN 0930	39	0.	*	1 JAN 1545	64	347.	*	1 JAN 2200	89	152.															
1 JAN 0330	15	0.	*	1 JAN 0945	40	0.	*	1 JAN 1600	65	327.	*	1 JAN 2215	90	150.															
1 JAN 0345	16	0.	*	1 JAN 1000	41	3.	*	1 JAN 1615	66	308.	*	1 JAN 2230	91	149.															
1 JAN 0400	17	0.	*	1 JAN 1015	42	8.	*	1 JAN 1630	67	291.	*	1 JAN 2245	92	147.															
1 JAN 0415	18	0.	*	1 JAN 1030	43	18.	*	1 JAN 1645	68	277.	*	1 JAN 2300	93	146.															
1 JAN 0430	19	0.	*	1 JAN 1045	44	35.	*	1 JAN 1700	69	267.	*	1 JAN 2315	94	145.															
1 JAN 0445	20	0.	*	1 JAN 1100	45	59.	*	1 JAN 1715	70	259.	*	1 JAN 2330	95	144.															
1 JAN 0500	21	0.	*	1 JAN 1115	46	95.	*	1 JAN 1730	71	251.	*	1 JAN 2345	96	142.															
1 JAN 0515	22	0.	*	1 JAN 1130	47	151.	*	1 JAN 1745	72	244.	*	2 JAN 0000	97	141.															
1 JAN 0530	23	0.	*	1 JAN 1145	48	375.	*	1 JAN 1800	73	236.	*	2 JAN 0015	98	129.															
1 JAN 0545	24	0.	*	1 JAN 1200	49	1402.	*	1 JAN 1815	74	229.	*	2 JAN 0030	99	98.															
1 JAN 0600	25	0.	*	1 JAN 1215	50	2863.	*	1 JAN 1830	75	222.	*	2 JAN 0045	100	59.															

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
3545.	12.50	932.	288.	279.	279.
		(INCHES)	1.571	1.938	1.938
		(AC-FT)	462.	570.	570.

25yr.out

+	(CFS)	(HR)					
+	3545.	12.50	(CFS)	932.	288.	279.	279.
			(INCHES)	1.571	1.938	1.938	1.938
			(AC-FT)	462.	570.	570.	570.

CUMULATIVE AREA = 5.52 SQ MI

RUNOFF SUMMARY  
 FLOW IN CUBIC FEET PER SECOND  
 TIME IN HOURS, AREA IN SQUARE MILES

+	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT	5bB	653.	12.25	157.	48.	47.	0.97		
+	HYDROGRAPH AT	5aB	478.	12.25	93.	29.	28.	0.54		
+	2 COMBINED AT	5C	1131.	12.25	250.	77.	75.	1.52		
+	ROUTED TO	5R	1046.	12.50	250.	77.	75.	1.52		
+	HYDROGRAPH AT	4aB	691.	12.25	155.	48.	46.	0.86		
+	HYDROGRAPH AT	4bB	482.	12.25	100.	31.	30.	0.61		
+	3 COMBINED AT	4C	2112.	12.25	504.	155.	151.	2.99		
+	ROUTED TO	4R	2146.	12.50	504.	155.	151.	2.99		
+	HYDROGRAPH AT	3B	849.	12.25	171.	53.	51.	0.99		
+	2 COMBINED AT	3C	2733.	12.50	675.	208.	202.	3.98		
+	ROUTED TO	3R	2807.	12.50	674.	208.	202.	3.98		
+	HYDROGRAPH AT	2B	713.	12.25	141.	43.	42.	0.84		
+	2 COMBINED AT	2C	3248.	12.50	815.	251.	244.	4.82		
+	ROUTED TO	2R	3177.	12.50	814.	251.	243.	4.82		
+	HYDROGRAPH AT	1B	607.	12.25	119.	37.	35.	0.70		
+	2 COMBINED AT	1C	3545.	12.50	932.	288.	279.	5.52		
+	ROUTED TO	1C	3545.	12.50	932.	288.	279.	5.52		

\*\*\* NORMAL END OF HEC-1 \*\*\*

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1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
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*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HECL (JAN 73), HECLGS, HECLDB, AND HECLKW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION  
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,  
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION  
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

LINE	ID	.....1	.....2	.....3	.....4	.....5	.....6	.....7	.....8	.....9	.....10
1	ID	Seng Creek									
2	ID	wo Mining & w Logging (Scenario 5), USGS DEM Data									
3	ID	100 yr Storm									
4	IT	15	1JAN94	0	100						
5	IO	1									
6	KK	5bB									
7	KO	0	0	0.0	1	22					
8	BA	0.9747									
9	PB	5.45									
10	IN	6	1JAN94	0							
		* typeII-24hour									
11	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
12	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
13	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
14	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
15	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
16	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
17	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
18	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
19	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
20	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
21	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
22	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
23	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
24	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
25	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
26	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
27	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
28	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
29	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
30	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
31	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
32	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
33	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
34	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
35	PC	1.0									
36	LS	0.0	70.86	0.0							
37	UD	0.4358									
38	KK	5aB									
39	KO	0	0	0.0	1	22					
40	BA	0.5424									
41	PB	5.45									
42	IN	6	1JAN94	0							
		* typeII-24hour									
43	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
44	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
45	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
46	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
47	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
48	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
49	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
50	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178

HEC-1 INPUT

LINE	ID	.....1	.....2	.....3	.....4	.....5	.....6	.....7	.....8	.....9	.....10
51	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439

100yr.out

52	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
53	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
54	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
55	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
56	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
57	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
58	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
59	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
60	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
61	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
62	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
63	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
64	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
65	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
66	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
67	PC	1.0									
68	LS	0.0	72.53	0.0							
69	UD	0.2908									
70	KK	5C	CNAME	5R							
71	KO	0	0	0.0	0	22					
72	HC	2									
73	KK	5R	CNAME	5C							
74	KO	0	0	0.0	0	22					
75	RM	0	0.122	0.2							
76	KK	4aB									
77	KO	0	0	0.0	1	22					
78	BA	0.8649									
79	PB	5.45									
80	IN	6	1JAN94	0							
			* typeII-24hour								
81	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
82	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
83	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
84	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
85	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
86	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
87	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
88	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
89	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
90	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
91	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
92	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
93	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
94	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
95	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
96	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
97	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
98	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
99	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
100	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
101	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
102	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
103	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
104	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
105	PC	1.0									
106	LS	0.0	73.51	0.0							
107	UD	0.4078									
108	KK	4bB									
109	KO	0	0	0.0	1	22					
110	BA	0.6091									
111	PB	5.45									
112	IN	6	1JAN94	0							
			* typeII-24hour								
113	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
114	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
115	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
116	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
117	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
118	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
119	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
120	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
121	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
122	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
123	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
124	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
125	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
126	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
127	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
128	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
129	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
130	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
131	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
132	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
133	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
134	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
135	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
136	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
137	PC	1.0									
138	LS	0.0	71.37	0.0							
139	UD	0.3512									

```

140 KK      4C      CNAME      4R
141 KO      0      0      0.0      0      22
142 HC      3

143 KK      4R      CNAME      4C
144 KO      0      0      0.0      0      22
145 RM      0      0.088      0.2

146 KK      3B
147 KO      0      0      0.0      1      22
148 BA      0.99
149 PB      5.45
150 IN      6      1JAN94      0
    * typeII-24hour

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HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
151	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
152	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
153	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
154	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
155	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
156	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
157	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
158	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
159	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
160	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
161	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
162	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
163	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
164	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
165	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
166	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
167	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
168	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
169	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
170	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
171	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
172	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
173	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
174	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
175	PC	1.0									
176	LS	0.0	72.67	0.0							
177	UD	0.3368									

```

178 KK      3C      CNAME      3R
179 KO      0      0      0.0      0      22
180 HC      2

181 KK      3R      CNAME      3C
182 KO      0      0      0.0      0      22
183 RM      0      0.089      0.2

184 KK      2B
185 KO      0      0      0.0      1      22
186 BA      0.8395
187 PB      5.45
188 IN      6      1JAN94      0
    * typeII-24hour

```

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
202	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
203	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
204	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
205	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
206	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
207	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
208	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
209	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
210	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
211	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
212	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
213	PC	1.0									
214	LS	0.0	71.81	0.0							
215	UD	0.3008									

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216 KK      2C      CNAME      2R
217 KO      0      0      0.0      0      22
218 HC      2

```

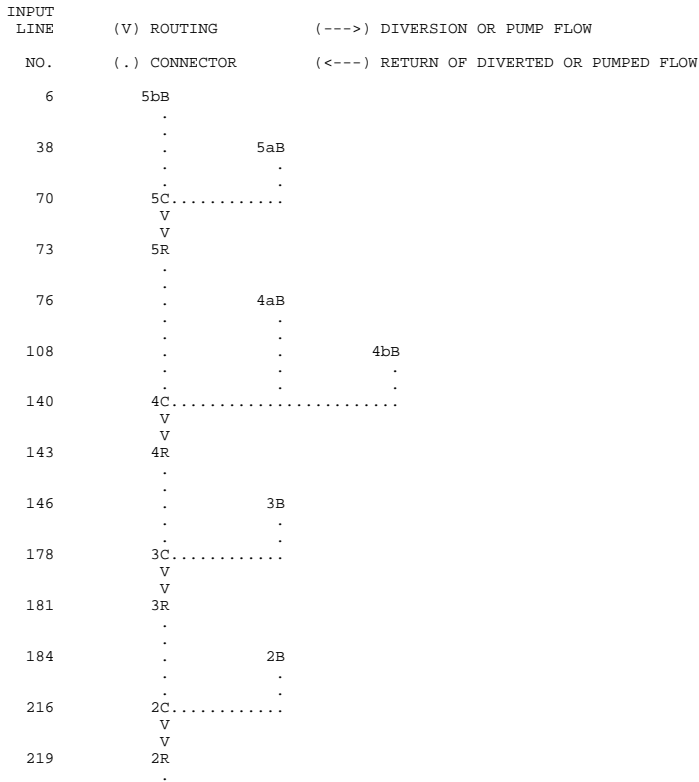
100yr.out											
219	KK	2R	CNAME	2C							
220	KO	0	0	0.0	0	22					
221	RM	0	0.103	0.2							
222	KK	1B									
223	KO	0	0	0.0	1	22					
224	BA	0.6967									
225	PB	5.45									
226	IN	6	1JAN94	0							
227	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
228	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
229	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
230	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
231	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
232	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
233	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
234	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
235	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
236	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
237	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
238	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
239	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
240	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
241	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
242	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
243	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
244	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
245	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
246	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
247	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
248	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
249	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
250	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
251	PC	1.0									
252	LS	0.0	72.29	0.0							

HEC-1 INPUT

PAGE 6

LINE	ID	1	2	3	4	5	6	7	8	9	10
253	UD	0.2942									
254	KK	1C	CNAME	1C							
255	KO	0	0	0.0	0	22					
256	HC	2									
257	KK	1C	CNAME	1C							
258	KO	0	0	0.0	0	22					
259	RN	1C									
260	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK



222 . 1B  
. .  
. .  
254 1C.....  
V  
V  
257 1C

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1\*\*\*\*\*  
\*  
\* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*  
\* MAY 1991 \*  
\* VERSION 4.0.1E \*  
\* RUN DATE TIME \*  
\*  
\*\*\*\*\*

\*\*\*\*\*  
\*  
\* U.S. ARMY CORPS OF ENGINEERS \*  
\* HYDROLOGIC ENGINEERING CENTER \*  
\* 609 SECOND STREET \*  
\* DAVIS, CALIFORNIA 95616 \*  
\* (916) 551-1748 \*  
\*  
\*\*\*\*\*

Seng Creek  
w/ Mining & w Logging (Scenario 5), USGS DEM Data  
100 yr Storm

5 IO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
  
IT HYDROGRAPH TIME DATA  
NMIN 15 MINUTES IN COMPUTATION INTERVAL  
IDATE 1JAN94 STARTING DATE  
ITIME 0000 STARTING TIME  
NQ 100 NUMBER OF HYDROGRAPH ORDINATES  
NDDATE 2JAN94 ENDING DATE  
NDTIME 0045 ENDING TIME  
ICENT 19 CENTURY MARK  
  
COMPUTATION INTERVAL 0.25 HOURS  
TOTAL TIME BASE 24.75 HOURS

ENGLISH UNITS  
DRAINAGE AREA SQUARE MILES  
PRECIPITATION DEPTH INCHES  
LENGTH, ELEVATION FEET  
FLOW CUBIC FEET PER SECOND  
STORAGE VOLUME ACRE-FEET  
SURFACE AREA ACRES  
TEMPERATURE DEGREES FAHRENHEIT

\*\*\* \*\*

\*\*\*\*\*  
\* \*  
6 KK \* 5bB \*  
\* \*  
\*\*\*\*\*

7 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

10 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

8 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.97 SUBBASIN AREA

PRECIPITATION DATA

9 PB STORM 5.45 BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

100yr.out  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00

36 LS SCS LOSS RATE  
 STRTL 0.82 INITIAL ABSTRACTION  
 CRVNBR 70.86 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

37 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.44 LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 11 END-OF-PERIOD ORDINATES  
 324. 832. 701. 339. 167. 81. 39. 19. 9. 5.  
 1.

HYDROGRAPH AT STATION 5bb

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	810.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	535.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.06	365.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.05	260.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	198.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	159.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.04	134.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	115.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	101.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	92.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	87.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	82.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	77.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	73.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	69.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	65.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	61.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	59.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	57.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	55.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	53.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	52.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	50.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	49.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	47.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	46.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.02	44.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.02	42.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	41.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	40.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	38.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	36.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	35.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	34.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	34.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	34.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.02	0.00	0.01	33.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.02	0.00	0.01	33.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.02	0.00	0.01	33.
1	JAN	0945	40	0.05	0.04	0.00	1.	*	1	JAN	2215	90	0.02	0.00	0.01	32.
1	JAN	1000	41	0.05	0.05	0.00	3.	*	1	JAN	2230	91	0.02	0.00	0.01	32.
1	JAN	1015	42	0.06	0.05	0.01	6.	*	1	JAN	2245	92	0.02	0.00	0.01	31.
1	JAN	1030	43	0.07	0.06	0.01	10.	*	1	JAN	2300	93	0.02	0.00	0.01	31.
1	JAN	1045	44	0.08	0.07	0.01	15.	*	1	JAN	2315	94	0.02	0.00	0.01	31.
1	JAN	1100	45	0.09	0.08	0.02	22.	*	1	JAN	2330	95	0.02	0.00	0.01	31.
1	JAN	1115	46	0.11	0.09	0.02	33.	*	1	JAN	2345	96	0.02	0.00	0.01	30.
1	JAN	1130	47	0.15	0.11	0.04	49.	*	2	JAN	0000	97	0.01	0.00	0.01	30.
1	JAN	1145	48	0.60	0.39	0.21	125.	*	2	JAN	0015	98	0.00	0.00	0.00	26.
1	JAN	1200	49	1.47	0.66	0.81	476.	*	2	JAN	0030	99	0.00	0.00	0.00	16.
1	JAN	1215	50	0.23	0.08	0.15	890.	*	2	JAN	0045	100	0.00	0.00	0.00	8.

TOTAL RAINFALL = 5.45, TOTAL LOSS = 3.00, TOTAL EXCESS = 2.45

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
890.	12.25	208.	64.	62.	62.	
		(INCHES)	1.986	2.446	2.446	2.446
		(AC-FT)	103.	127.	127.	127.

CUMULATIVE AREA = 0.97 SQ MI

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\* 5aB \*  
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39 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

42 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

40 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.54 SUBBASIN AREA

PRECIPITATION DATA

41 PB STORM 5.45 BASIN TOTAL PRECIPITATION

43 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

68 LS SCS LOSS RATE  
STRTL 0.76 INITIAL ABSTRACTION  
CRVNR 72.53 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

69 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.29 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
8 END-OF-PERIOD ORDINATES  
419. 588. 246. 93. 35. 13. 5. 1.

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HYDROGRAPH AT STATION 5aB  
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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	376.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	226.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.07	149.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	111.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	89.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	75.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.04	65.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	58.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	53.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	50.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	47.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	45.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	42.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	40.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	38.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	35.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	34.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	33.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	32.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	31.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	30.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	29.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	28.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	27.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	26.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	26.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	25.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	24.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	23.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	22.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	21.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	20.

										100yr.out		
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	20.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	19.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	19.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	19.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	19.
1 JAN 0915	38	0.04	0.04	0.00	1.	*	1 JAN 2145	88	0.02	0.00	0.01	19.
1 JAN 0930	39	0.04	0.04	0.00	2.	*	1 JAN 2200	89	0.02	0.00	0.01	19.
1 JAN 0945	40	0.05	0.04	0.00	3.	*	1 JAN 2215	90	0.02	0.00	0.01	18.
1 JAN 1000	41	0.05	0.05	0.01	5.	*	1 JAN 2230	91	0.02	0.00	0.01	18.
1 JAN 1015	42	0.06	0.05	0.01	7.	*	1 JAN 2245	92	0.02	0.00	0.01	18.
1 JAN 1030	43	0.07	0.06	0.01	10.	*	1 JAN 2300	93	0.02	0.00	0.01	18.
1 JAN 1045	44	0.08	0.06	0.01	14.	*	1 JAN 2315	94	0.02	0.00	0.01	18.
1 JAN 1100	45	0.09	0.07	0.02	20.	*	1 JAN 2330	95	0.02	0.00	0.01	17.
1 JAN 1115	46	0.11	0.09	0.03	28.	*	1 JAN 2345	96	0.02	0.00	0.01	17.
1 JAN 1130	47	0.15	0.10	0.04	41.	*	2 JAN 0000	97	0.01	0.00	0.01	17.
1 JAN 1145	48	0.60	0.36	0.23	133.	*	2 JAN 0015	98	0.00	0.00	0.00	12.
1 JAN 1200	49	1.47	0.62	0.86	512.	*	2 JAN 0030	99	0.00	0.00	0.00	5.
1 JAN 1215	50	0.23	0.07	0.16	635.	*	2 JAN 0045	100	0.00	0.00	0.00	2.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.85, TOTAL EXCESS = 2.60

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
635.	12.25	123.	38.	37.	37.	
		(INCHES)	2.106	2.595	2.595	2.595
		(AC-FT)	61.	75.	75.	75.

CUMULATIVE AREA = 0.54 SQ MI

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*****
*
70 KK *      5C *      CNAME      5R
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71 KO      OUTPUT CONTROL VARIABLES
      IPRNT      1  PRINT CONTROL
      IPLOT      0  PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
      IPNCH      0  PUNCH COMPUTED HYDROGRAPH
      IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
      ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
      ISAV2     100 LAST ORDINATE PUNCHED OR SAVED
      TIMINT     0.250 TIME INTERVAL IN HOURS

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72 HC      HYDROGRAPH COMBINATION
      ICOMP      2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 5C  
SUM OF 2 HYDROGRAPHS

*****																	
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	1186.	*	1 JAN 1845	76	71.			
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	762.	*	1 JAN 1900	77	69.			
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	515.	*	1 JAN 1915	78	66.			
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	371.	*	1 JAN 1930	79	64.			
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	287.	*	1 JAN 1945	80	62.			
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	234.	*	1 JAN 2000	81	59.			
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	199.	*	1 JAN 2015	82	57.			
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	173.	*	1 JAN 2030	83	55.			
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	154.	*	1 JAN 2045	84	54.			
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	142.	*	1 JAN 2100	85	53.			
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	134.	*	1 JAN 2115	86	53.			
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	127.	*	1 JAN 2130	87	52.			
1 JAN 0300	13	0.	*	1 JAN 0915	38	1.	*	1 JAN 1530	63	120.	*	1 JAN 2145	88	51.			
1 JAN 0315	14	0.	*	1 JAN 0930	39	2.	*	1 JAN 1545	64	113.	*	1 JAN 2200	89	51.			
1 JAN 0330	15	0.	*	1 JAN 0945	40	5.	*	1 JAN 1600	65	106.	*	1 JAN 2215	90	51.			
1 JAN 0345	16	0.	*	1 JAN 1000	41	8.	*	1 JAN 1615	66	100.	*	1 JAN 2230	91	50.			
1 JAN 0400	17	0.	*	1 JAN 1015	42	13.	*	1 JAN 1630	67	95.	*	1 JAN 2245	92	49.			
1 JAN 0415	18	0.	*	1 JAN 1030	43	20.	*	1 JAN 1645	68	91.	*	1 JAN 2300	93	49.			
1 JAN 0430	19	0.	*	1 JAN 1045	44	29.	*	1 JAN 1700	69	89.	*	1 JAN 2315	94	49.			
1 JAN 0445	20	0.	*	1 JAN 1100	45	42.	*	1 JAN 1715	70	86.	*	1 JAN 2330	95	48.			
1 JAN 0500	21	0.	*	1 JAN 1115	46	61.	*	1 JAN 1730	71	83.	*	1 JAN 2345	96	48.			
1 JAN 0515	22	0.	*	1 JAN 1130	47	90.	*	1 JAN 1745	72	81.	*	2 JAN 0000	97	47.			
1 JAN 0530	23	0.	*	1 JAN 1145	48	258.	*	1 JAN 1800	73	78.	*	2 JAN 0015	98	38.			
1 JAN 0545	24	0.	*	1 JAN 1200	49	989.	*	1 JAN 1815	74	76.	*	2 JAN 0030	99	21.			
1 JAN 0600	25	0.	*	1 JAN 1215	50	1524.	*	1 JAN 1830	75	74.	*	2 JAN 0045	100	10.			

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW

100yr.out

			6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
			(CFS)			
+	1524.	12.25	331.	102.	99.	99.
			(INCHES)	2,028	2,499	2,499
			(AC-FT)	164.	202.	202.

CUMULATIVE AREA = 1.52 SQ MI

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73 KK      *      5R      *      CNAME      5C
*
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74 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT      22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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75 RM      MUSKINGUM ROUTING
          NSTPS      1      NUMBER OF SUBREACHES
          AMSKK      0.12  MUSKINGUM K
          X          0.20  MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 5R

*****																							
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
*****																							
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	1402.	*	1	JAN	1845	76	72.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	968.	*	1	JAN	1900	77	70.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	625.	*	1	JAN	1915	78	67.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	436.	*	1	JAN	1930	79	65.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	325.	*	1	JAN	1945	80	63.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	259.	*	1	JAN	2000	81	60.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	215.	*	1	JAN	2015	82	58.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	185.	*	1	JAN	2030	83	56.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	163.	*	1	JAN	2045	84	54.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	148.	*	1	JAN	2100	85	53.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	138.	*	1	JAN	2115	86	53.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	130.	*	1	JAN	2130	87	52.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1.	*	1	JAN	1530	63	123.	*	1	JAN	2145	88	51.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2.	*	1	JAN	1545	64	116.	*	1	JAN	2200	89	51.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	4.	*	1	JAN	1600	65	110.	*	1	JAN	2215	90	51.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	7.	*	1	JAN	1615	66	103.	*	1	JAN	2230	91	50.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	11.	*	1	JAN	1630	67	97.	*	1	JAN	2245	92	50.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	17.	*	1	JAN	1645	68	93.	*	1	JAN	2300	93	49.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	25.	*	1	JAN	1700	69	90.	*	1	JAN	2315	94	49.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	35.	*	1	JAN	1715	70	87.	*	1	JAN	2330	95	48.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	51.	*	1	JAN	1730	71	84.	*	1	JAN	2345	96	48.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	75.	*	1	JAN	1745	72	82.	*	2	JAN	0000	97	47.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	168.	*	1	JAN	1800	73	80.	*	2	JAN	0015	98	43.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	599.	*	1	JAN	1815	74	77.	*	2	JAN	0030	99	30.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	1279.	*	1	JAN	1830	75	75.	*	2	JAN	0045	100	15.	*
*****																							

				6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)					
			(CFS)				
+	1402.	12.50	331.	102.	99.	99.	
			(INCHES)	2,027	2,498	2,498	2,498
			(AC-FT)	164.	202.	202.	202.

CUMULATIVE AREA = 1.52 SQ MI

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*****
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76 KK      *      4aB      *
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77 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

80 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

78 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.86 SUBBASIN AREA

PRECIPITATION DATA

79 PB STORM 5.45 BASIN TOTAL PRECIPITATION

81 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

106 LS SCS LOSS RATE  
 STRTL 0.72 INITIAL ABSTRACTION  
 CRVNR 73.51 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

107 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.41 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 10 END-OF-PERIOD ORDINATES

332. 783. 609. 271. 129. 59. 28. 13. 7. 2.

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HYDROGRAPH AT STATION 4aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.16	0.04	0.11	782.	
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.11	0.03	0.08	493.	
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.09	0.02	0.07	330.	
1	JAN	0045	4	0.01	0.01	0.00	0.	*		1	JAN	1315	54	0.08	0.02	0.06	234.	
1	JAN	0100	5	0.01	0.01	0.00	0.	*		1	JAN	1330	55	0.07	0.02	0.05	179.	
1	JAN	0115	6	0.01	0.01	0.00	0.	*		1	JAN	1345	56	0.06	0.01	0.05	144.	
1	JAN	0130	7	0.02	0.02	0.00	0.	*		1	JAN	1400	57	0.05	0.01	0.04	122.	
1	JAN	0145	8	0.02	0.02	0.00	0.	*		1	JAN	1415	58	0.05	0.01	0.04	105.	
1	JAN	0200	9	0.02	0.02	0.00	0.	*		1	JAN	1430	59	0.05	0.01	0.04	93.	
1	JAN	0215	10	0.02	0.02	0.00	0.	*		1	JAN	1445	60	0.04	0.01	0.03	85.	
1	JAN	0230	11	0.02	0.02	0.00	0.	*		1	JAN	1500	61	0.04	0.01	0.03	80.	
1	JAN	0245	12	0.02	0.02	0.00	0.	*		1	JAN	1515	62	0.04	0.01	0.03	76.	
1	JAN	0300	13	0.02	0.02	0.00	0.	*		1	JAN	1530	63	0.04	0.01	0.03	72.	
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.04	0.01	0.03	68.	
1	JAN	0330	15	0.02	0.02	0.00	0.	*		1	JAN	1600	65	0.03	0.01	0.03	64.	
1	JAN	0345	16	0.02	0.02	0.00	0.	*		1	JAN	1615	66	0.03	0.01	0.02	60.	
1	JAN	0400	17	0.02	0.02	0.00	0.	*		1	JAN	1630	67	0.03	0.01	0.02	57.	
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.03	0.01	0.02	54.	
1	JAN	0430	19	0.02	0.02	0.00	0.	*		1	JAN	1700	69	0.03	0.01	0.02	53.	
1	JAN	0445	20	0.02	0.02	0.00	0.	*		1	JAN	1715	70	0.03	0.01	0.02	51.	
1	JAN	0500	21	0.02	0.02	0.00	0.	*		1	JAN	1730	71	0.03	0.01	0.02	49.	
1	JAN	0515	22	0.02	0.02	0.00	0.	*		1	JAN	1745	72	0.03	0.01	0.02	48.	
1	JAN	0530	23	0.02	0.02	0.00	0.	*		1	JAN	1800	73	0.02	0.01	0.02	47.	
1	JAN	0545	24	0.02	0.02	0.00	0.	*		1	JAN	1815	74	0.02	0.00	0.02	45.	
1	JAN	0600	25	0.02	0.02	0.00	0.	*		1	JAN	1830	75	0.02	0.00	0.02	44.	
1	JAN	0615	26	0.02	0.02	0.00	0.	*		1	JAN	1845	76	0.02	0.00	0.02	42.	
1	JAN	0630	27	0.03	0.03	0.00	0.	*		1	JAN	1900	77	0.02	0.00	0.02	41.	
1	JAN	0645	28	0.03	0.03	0.00	0.	*		1	JAN	1915	78	0.02	0.00	0.02	39.	
1	JAN	0700	29	0.03	0.03	0.00	0.	*		1	JAN	1930	79	0.02	0.00	0.02	38.	
1	JAN	0715	30	0.03	0.03	0.00	0.	*		1	JAN	1945	80	0.02	0.00	0.02	37.	
1	JAN	0730	31	0.03	0.03	0.00	0.	*		1	JAN	2000	81	0.02	0.00	0.01	35.	
1	JAN	0745	32	0.03	0.03	0.00	0.	*		1	JAN	2015	82	0.02	0.00	0.01	34.	
1	JAN	0800	33	0.03	0.03	0.00	0.	*		1	JAN	2030	83	0.02	0.00	0.01	32.	
1	JAN	0815	34	0.03	0.03	0.00	0.	*		1	JAN	2045	84	0.02	0.00	0.01	32.	
1	JAN	0830	35	0.04	0.04	0.00	0.	*		1	JAN	2100	85	0.02	0.00	0.01	31.	
1	JAN	0845	36	0.04	0.04	0.00	0.	*		1	JAN	2115	86	0.02	0.00	0.01	31.	

100yr.out												
1 JAN 0900	37	0.04	0.04	0.00	1.	*	1 JAN 2130	87	0.02	0.00	0.01	31.
1 JAN 0915	38	0.04	0.04	0.00	2.	*	1 JAN 2145	88	0.02	0.00	0.01	30.
1 JAN 0930	39	0.04	0.04	0.00	4.	*	1 JAN 2200	89	0.02	0.00	0.01	30.
1 JAN 0945	40	0.05	0.04	0.00	6.	*	1 JAN 2215	90	0.02	0.00	0.01	30.
1 JAN 1000	41	0.05	0.05	0.01	8.	*	1 JAN 2230	91	0.02	0.00	0.01	30.
1 JAN 1015	42	0.06	0.05	0.01	12.	*	1 JAN 2245	92	0.02	0.00	0.01	29.
1 JAN 1030	43	0.07	0.06	0.01	16.	*	1 JAN 2300	93	0.02	0.00	0.01	29.
1 JAN 1045	44	0.08	0.06	0.02	22.	*	1 JAN 2315	94	0.02	0.00	0.01	29.
1 JAN 1100	45	0.09	0.07	0.02	30.	*	1 JAN 2330	95	0.02	0.00	0.01	28.
1 JAN 1115	46	0.11	0.08	0.03	41.	*	1 JAN 2345	96	0.02	0.00	0.01	28.
1 JAN 1130	47	0.15	0.10	0.05	59.	*	2 JAN 0000	97	0.01	0.00	0.01	28.
1 JAN 1145	48	0.60	0.35	0.25	146.	*	2 JAN 0015	98	0.00	0.00	0.00	24.
1 JAN 1200	49	1.47	0.59	0.89	529.	*	2 JAN 0030	99	0.00	0.00	0.00	14.
1 JAN 1215	50	0.23	0.07	0.16	919.	*	2 JAN 0045	100	0.00	0.00	0.00	6.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.77, TOTAL EXCESS = 2.68

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
919.	12.25	202.	62.	60.	60.	
		(INCHES)	2.172	2.680	2.680	2.680
		(AC-FT)	100.	124.	124.	124.

CUMULATIVE AREA = 0.86 SQ MI

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108 KK \* 4bB \*  
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109 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

112 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

110 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.61 SUBBASIN AREA

PRECIPITATION DATA

111 PB STORM 5.45 BASIN TOTAL PRECIPITATION

113 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

138 LS SCS LOSS RATE  
 STRTL 0.80 INITIAL ABSTRACTION  
 CRVNBR 71.37 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

139 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.35 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 9 END-OF-PERIOD ORDINATES  
 322. 620. 368. 152. 64. 27. 12. 5. 2.

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HYDROGRAPH AT STATION 4bB

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100yr.out

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.16	0.05	0.11	471.	*
1	JAN	0015	2	0.01	0.01	0.00	0.	*	*	1	JAN	1245	52	0.11	0.03	0.08	290.	*
1	JAN	0030	3	0.01	0.01	0.00	0.	*	*	1	JAN	1300	53	0.09	0.03	0.06	191.	*
1	JAN	0045	4	0.01	0.01	0.00	0.	*	*	1	JAN	1315	54	0.08	0.02	0.06	138.	*
1	JAN	0100	5	0.01	0.01	0.00	0.	*	*	1	JAN	1330	55	0.07	0.02	0.05	108.	*
1	JAN	0115	6	0.01	0.01	0.00	0.	*	*	1	JAN	1345	56	0.06	0.02	0.04	89.	*
1	JAN	0130	7	0.02	0.02	0.00	0.	*	*	1	JAN	1400	57	0.05	0.01	0.04	76.	*
1	JAN	0145	8	0.02	0.02	0.00	0.	*	*	1	JAN	1415	58	0.05	0.01	0.04	66.	*
1	JAN	0200	9	0.02	0.02	0.00	0.	*	*	1	JAN	1430	59	0.05	0.01	0.03	60.	*
1	JAN	0215	10	0.02	0.02	0.00	0.	*	*	1	JAN	1445	60	0.04	0.01	0.03	56.	*
1	JAN	0230	11	0.02	0.02	0.00	0.	*	*	1	JAN	1500	61	0.04	0.01	0.03	53.	*
1	JAN	0245	12	0.02	0.02	0.00	0.	*	*	1	JAN	1515	62	0.04	0.01	0.03	50.	*
1	JAN	0300	13	0.02	0.02	0.00	0.	*	*	1	JAN	1530	63	0.04	0.01	0.03	47.	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*	*	1	JAN	1545	64	0.04	0.01	0.03	45.	*
1	JAN	0330	15	0.02	0.02	0.00	0.	*	*	1	JAN	1600	65	0.03	0.01	0.02	42.	*
1	JAN	0345	16	0.02	0.02	0.00	0.	*	*	1	JAN	1615	66	0.03	0.01	0.02	40.	*
1	JAN	0400	17	0.02	0.02	0.00	0.	*	*	1	JAN	1630	67	0.03	0.01	0.02	38.	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*	*	1	JAN	1645	68	0.03	0.01	0.02	36.	*
1	JAN	0430	19	0.02	0.02	0.00	0.	*	*	1	JAN	1700	69	0.03	0.01	0.02	35.	*
1	JAN	0445	20	0.02	0.02	0.00	0.	*	*	1	JAN	1715	70	0.03	0.01	0.02	34.	*
1	JAN	0500	21	0.02	0.02	0.00	0.	*	*	1	JAN	1730	71	0.03	0.01	0.02	33.	*
1	JAN	0515	22	0.02	0.02	0.00	0.	*	*	1	JAN	1745	72	0.03	0.01	0.02	32.	*
1	JAN	0530	23	0.02	0.02	0.00	0.	*	*	1	JAN	1800	73	0.02	0.01	0.02	31.	*
1	JAN	0545	24	0.02	0.02	0.00	0.	*	*	1	JAN	1815	74	0.02	0.01	0.02	30.	*
1	JAN	0600	25	0.02	0.02	0.00	0.	*	*	1	JAN	1830	75	0.02	0.01	0.02	29.	*
1	JAN	0615	26	0.02	0.02	0.00	0.	*	*	1	JAN	1845	76	0.02	0.01	0.02	28.	*
1	JAN	0630	27	0.03	0.03	0.00	0.	*	*	1	JAN	1900	77	0.02	0.00	0.02	27.	*
1	JAN	0645	28	0.03	0.03	0.00	0.	*	*	1	JAN	1915	78	0.02	0.00	0.02	26.	*
1	JAN	0700	29	0.03	0.03	0.00	0.	*	*	1	JAN	1930	79	0.02	0.00	0.02	26.	*
1	JAN	0715	30	0.03	0.03	0.00	0.	*	*	1	JAN	1945	80	0.02	0.00	0.01	25.	*
1	JAN	0730	31	0.03	0.03	0.00	0.	*	*	1	JAN	2000	81	0.02	0.00	0.01	24.	*
1	JAN	0745	32	0.03	0.03	0.00	0.	*	*	1	JAN	2015	82	0.02	0.00	0.01	23.	*
1	JAN	0800	33	0.03	0.03	0.00	0.	*	*	1	JAN	2030	83	0.02	0.00	0.01	22.	*
1	JAN	0815	34	0.03	0.03	0.00	0.	*	*	1	JAN	2045	84	0.02	0.00	0.01	21.	*
1	JAN	0830	35	0.04	0.04	0.00	0.	*	*	1	JAN	2100	85	0.02	0.00	0.01	21.	*
1	JAN	0845	36	0.04	0.04	0.00	0.	*	*	1	JAN	2115	86	0.02	0.00	0.01	21.	*
1	JAN	0900	37	0.04	0.04	0.00	0.	*	*	1	JAN	2130	87	0.02	0.00	0.01	21.	*
1	JAN	0915	38	0.04	0.04	0.00	0.	*	*	1	JAN	2145	88	0.02	0.00	0.01	21.	*
1	JAN	0930	39	0.04	0.04	0.00	1.	*	*	1	JAN	2200	89	0.02	0.00	0.01	20.	*
1	JAN	0945	40	0.05	0.04	0.00	2.	*	*	1	JAN	2215	90	0.02	0.00	0.01	20.	*
1	JAN	1000	41	0.05	0.05	0.00	3.	*	*	1	JAN	2230	91	0.02	0.00	0.01	20.	*
1	JAN	1015	42	0.06	0.05	0.01	5.	*	*	1	JAN	2245	92	0.02	0.00	0.01	20.	*
1	JAN	1030	43	0.07	0.06	0.01	8.	*	*	1	JAN	2300	93	0.02	0.00	0.01	20.	*
1	JAN	1045	44	0.08	0.07	0.01	12.	*	*	1	JAN	2315	94	0.02	0.00	0.01	20.	*
1	JAN	1100	45	0.09	0.07	0.02	17.	*	*	1	JAN	2330	95	0.02	0.00	0.01	19.	*
1	JAN	1115	46	0.11	0.09	0.03	25.	*	*	1	JAN	2345	96	0.02	0.00	0.01	19.	*
1	JAN	1130	47	0.15	0.11	0.04	37.	*	*	2	JAN	0000	97	0.01	0.00	0.01	19.	*
1	JAN	1145	48	0.60	0.38	0.22	108.	*	*	2	JAN	0015	98	0.00	0.00	0.00	15.	*
1	JAN	1200	49	1.47	0.65	0.82	421.	*	*	2	JAN	0030	99	0.00	0.00	0.00	8.	*
1	JAN	1215	50	0.23	0.08	0.16	650.	*	*	2	JAN	0045	100	0.00	0.00	0.00	3.	*

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.96, TOTAL EXCESS = 2.49

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)					
650.	12.25		133.	41.	40.	40.	
		(INCHES)	2.023	2.492	2.492	2.492	
		(AC-FT)	66.	81.	81.	81.	

CUMULATIVE AREA = 0.61 SQ MI

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* *
140 KK      4C *      CNAME      4R
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141 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0      HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT      22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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142 HC      HYDROGRAPH COMBINATION
          ICOMP      3      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 4C

100yr.out  
SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	2655.	1	JAN	1845	76	143.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	1750.	1	JAN	1900	77	138.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	1146.	1	JAN	1915	78	133.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	808.	1	JAN	1930	79	129.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	612.	1	JAN	1945	80	124.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	492.	1	JAN	2000	81	119.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	413.	1	JAN	2015	82	114.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	356.	1	JAN	2030	83	110.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	316.	1	JAN	2045	84	107.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	290.	1	JAN	2100	85	106.
1	JAN	0230	11	0.	1	JAN	0845	36	0.	1	JAN	1500	61	271.	1	JAN	2115	86	105.
1	JAN	0245	12	0.	1	JAN	0900	37	1.	1	JAN	1515	62	256.	1	JAN	2130	87	103.
1	JAN	0300	13	0.	1	JAN	0915	38	3.	1	JAN	1530	63	242.	1	JAN	2145	88	102.
1	JAN	0315	14	0.	1	JAN	0930	39	6.	1	JAN	1545	64	229.	1	JAN	2200	89	102.
1	JAN	0330	15	0.	1	JAN	0945	40	11.	1	JAN	1600	65	215.	1	JAN	2215	90	101.
1	JAN	0345	16	0.	1	JAN	1000	41	18.	1	JAN	1615	66	203.	1	JAN	2230	91	100.
1	JAN	0400	17	0.	1	JAN	1015	42	28.	1	JAN	1630	67	192.	1	JAN	2245	92	99.
1	JAN	0415	18	0.	1	JAN	1030	43	41.	1	JAN	1645	68	184.	1	JAN	2300	93	98.
1	JAN	0430	19	0.	1	JAN	1045	44	58.	1	JAN	1700	69	178.	1	JAN	2315	94	97.
1	JAN	0445	20	0.	1	JAN	1100	45	82.	1	JAN	1715	70	172.	1	JAN	2330	95	96.
1	JAN	0500	21	0.	1	JAN	1115	46	117.	1	JAN	1730	71	167.	1	JAN	2345	96	95.
1	JAN	0515	22	0.	1	JAN	1130	47	171.	1	JAN	1745	72	162.	2	JAN	0000	97	94.
1	JAN	0530	23	0.	1	JAN	1145	48	422.	1	JAN	1800	73	158.	2	JAN	0015	98	82.
1	JAN	0545	24	0.	1	JAN	1200	49	1550.	1	JAN	1815	74	152.	2	JAN	0030	99	51.
1	JAN	0600	25	0.	1	JAN	1215	50	2847.	1	JAN	1830	75	148.	2	JAN	0045	100	24.

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)				
+	2847.	12.25	665.	205.	199.
		(INCHES)	2.068	2.549	2.549
		(AC-FT)	330.	407.	407.
CUMULATIVE AREA =		2.99 SQ MI			

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143 KK \*\*\*\*\*  
\* \*  
\* 4R \* CNAME 4C  
\* \*  
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144 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

145 RM MUSKINGUM ROUTING  
NSTPS 1 NUMBER OF SUBREACHES  
AMSKK 0.09 MUSKINGUM K  
X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

\*\*\*\*\*

HYDROGRAPH AT STATION 4R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	2868.	1	JAN	1845	76	145.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	2098.	1	JAN	1900	77	140.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	1321.	1	JAN	1915	78	135.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	911.	1	JAN	1930	79	130.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	671.	1	JAN	1945	80	126.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	530.	1	JAN	2000	81	121.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	438.	1	JAN	2015	82	116.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	375.	1	JAN	2030	83	111.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	329.	1	JAN	2045	84	108.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	298.	1	JAN	2100	85	106.
1	JAN	0230	11	0.	1	JAN	0845	36	0.	1	JAN	1500	61	277.	1	JAN	2115	86	105.
1	JAN	0245	12	0.	1	JAN	0900	37	1.	1	JAN	1515	62	261.	1	JAN	2130	87	104.
1	JAN	0300	13	0.	1	JAN	0915	38	2.	1	JAN	1530	63	247.	1	JAN	2145	88	103.

100yr.out

1 JAN 0315	14	0.	*	1 JAN 0930	39	5.	*	1 JAN 1545	64	233.	*	1 JAN 2200	89	102.
1 JAN 0330	15	0.	*	1 JAN 0945	40	9.	*	1 JAN 1600	65	220.	*	1 JAN 2215	90	101.
1 JAN 0345	16	0.	*	1 JAN 1000	41	16.	*	1 JAN 1615	66	207.	*	1 JAN 2230	91	100.
1 JAN 0400	17	0.	*	1 JAN 1015	42	24.	*	1 JAN 1630	67	195.	*	1 JAN 2245	92	99.
1 JAN 0415	18	0.	*	1 JAN 1030	43	36.	*	1 JAN 1645	68	186.	*	1 JAN 2300	93	98.
1 JAN 0430	19	0.	*	1 JAN 1045	44	52.	*	1 JAN 1700	69	180.	*	1 JAN 2315	94	98.
1 JAN 0445	20	0.	*	1 JAN 1100	45	73.	*	1 JAN 1715	70	174.	*	1 JAN 2330	95	97.
1 JAN 0500	21	0.	*	1 JAN 1115	46	104.	*	1 JAN 1730	71	169.	*	1 JAN 2345	96	95.
1 JAN 0515	22	0.	*	1 JAN 1130	47	151.	*	1 JAN 1745	72	164.	*	2 JAN 0000	97	94.
1 JAN 0530	23	0.	*	1 JAN 1145	48	315.	*	1 JAN 1800	73	159.	*	2 JAN 0015	98	87.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1072.	*	1 JAN 1815	74	154.	*	2 JAN 0030	99	63.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2396.	*	1 JAN 1830	75	149.	*	2 JAN 0045	100	33.

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
2868.	12.50	665.	205.	199.	199.	
		(INCHES)	2.067	2.548	2.548	2.548
		(AC-FT)	330.	406.	406.	406.

CUMULATIVE AREA = 2.99 SQ MI

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\* \*  
146 KK \* 3B \*  
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147 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPILOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

150 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

148 BA SUBBASIN CHARACTERISTICS

TAREA,	0.99	SUBBASIN AREA
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PRECIPITATION DATA

149 PB STORM 5.45 BASIN TOTAL PRECIPITATION

151 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.01	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

176 LS SCS LOSS RATE

STRTL	0.75	INITIAL ABSTRACTION
CRVNBR	72.67	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

177 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.34	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
9 END-OF-PERIOD ORDINATES

573.	1035.	560.	229.	95.	39.	16.	7.	1.
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HYDROGRAPH AT STATION 3B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	773.

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100yr.out												
1 JAN 0015	2	0.01	0.01	0.00	0.	*	1 JAN 1245	52	0.11	0.03	0.08	474.
1 JAN 0030	3	0.01	0.01	0.00	0.	*	1 JAN 1300	53	0.09	0.03	0.07	311.
1 JAN 0045	4	0.01	0.01	0.00	0.	*	1 JAN 1315	54	0.08	0.02	0.06	224.
1 JAN 0100	5	0.01	0.01	0.00	0.	*	1 JAN 1330	55	0.07	0.02	0.05	176.
1 JAN 0115	6	0.01	0.01	0.00	0.	*	1 JAN 1345	56	0.06	0.02	0.04	147.
1 JAN 0130	7	0.02	0.02	0.00	0.	*	1 JAN 1400	57	0.05	0.01	0.04	125.
1 JAN 0145	8	0.02	0.02	0.00	0.	*	1 JAN 1415	58	0.05	0.01	0.04	110.
1 JAN 0200	9	0.02	0.02	0.00	0.	*	1 JAN 1430	59	0.05	0.01	0.04	100.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	93.
1 JAN 0230	11	0.02	0.02	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	88.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.04	0.01	0.03	83.
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.04	0.01	0.03	79.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.04	0.01	0.03	74.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	70.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	66.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	63.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	60.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.03	0.01	0.02	59.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.03	0.01	0.02	57.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.03	0.01	0.02	55.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.03	0.01	0.02	54.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	52.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.02	50.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.02	49.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.00	0.02	47.
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.02	45.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	44.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	42.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.02	41.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	39.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	37.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	36.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	35.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	35.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	35.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	34.
1 JAN 0915	38	0.04	0.04	0.00	2.	*	1 JAN 2145	88	0.02	0.00	0.01	34.
1 JAN 0930	39	0.04	0.04	0.00	3.	*	1 JAN 2200	89	0.02	0.00	0.01	34.
1 JAN 0945	40	0.05	0.04	0.00	6.	*	1 JAN 2215	90	0.02	0.00	0.01	34.
1 JAN 1000	41	0.05	0.05	0.01	9.	*	1 JAN 2230	91	0.02	0.00	0.01	33.
1 JAN 1015	42	0.06	0.05	0.01	13.	*	1 JAN 2245	92	0.02	0.00	0.01	33.
1 JAN 1030	43	0.07	0.06	0.01	18.	*	1 JAN 2300	93	0.02	0.00	0.01	33.
1 JAN 1045	44	0.08	0.06	0.01	25.	*	1 JAN 2315	94	0.02	0.00	0.01	32.
1 JAN 1100	45	0.09	0.07	0.02	34.	*	1 JAN 2330	95	0.02	0.00	0.01	32.
1 JAN 1115	46	0.11	0.09	0.03	48.	*	1 JAN 2345	96	0.02	0.00	0.01	32.
1 JAN 1130	47	0.15	0.10	0.04	70.	*	2 JAN 0000	97	0.01	0.00	0.01	31.
1 JAN 1145	48	0.60	0.36	0.24	203.	*	2 JAN 0015	98	0.00	0.00	0.00	24.
1 JAN 1200	49	1.47	0.61	0.86	772.	*	2 JAN 0030	99	0.00	0.00	0.00	12.
1 JAN 1215	50	0.23	0.07	0.16	1131.	*	2 JAN 0045	100	0.00	0.00	0.00	5.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.84, TOTAL EXCESS = 2.61

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(INCHES)	(AC-FT)	(CFS)
+	1131.	12.25	225.	69.	67.
+			2.115	2.607	2.607
			112.	138.	138.

CUMULATIVE AREA = 0.99 SQ MI

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*      *
178 KK  3C *      CNAME  3R
*      *
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179 KO  OUTPUT CONTROL VARIABLES
        IPRNT  1  PRINT CONTROL
        IPLOT  0  PLOT CONTROL
        QSCAL  0. HYDROGRAPH PLOT SCALE
        IPNCH  0  PUNCH COMPUTED HYDROGRAPH
        IOUT   22 SAVE HYDROGRAPH ON THIS UNIT
        ISAV1  1  FIRST ORDINATE PUNCHED OR SAVED
        ISAV2  100 LAST ORDINATE PUNCHED OR SAVED
        TIMINT 0.250 TIME INTERVAL IN HOURS

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180 HC  HYDROGRAPH COMBINATION
        ICOMP  2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
SUM OF 2 HYDROGRAPHS

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				100yr.out													
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3641.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2572.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1632.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1136.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	847.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	676.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	563.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	485.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	429.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	391.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	365.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1.	*	1	JAN	1515	62	345.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	4.	*	1	JAN	1530	63	326.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	8.	*	1	JAN	1545	64	308.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	15.	*	1	JAN	1600	65	290.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	24.	*	1	JAN	1615	66	273.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	37.	*	1	JAN	1630	67	258.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	54.	*	1	JAN	1645	68	247.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	77.	*	1	JAN	1700	69	238.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	107.	*	1	JAN	1715	70	231.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	152.	*	1	JAN	1730	71	224.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	221.	*	1	JAN	1745	72	217.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	517.	*	1	JAN	1800	73	211.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1844.	*	1	JAN	1815	74	204.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3527.	*	1	JAN	1830	75	198.	*

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
3641.	12.50	890.	274.	266.	266.
		(INCHES)	2.079	2.563	2.563
		(AC-FT)	441.	544.	544.

CUMULATIVE AREA = 3.98 SQ MI

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 \* \*  
 181 KK \* 3R \* CNAME 3C  
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182 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

183 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.09 MUSKINGUM K  
 X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 3R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3756.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	3025.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1934.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1278.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	939.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	729.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	600.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	510.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	447.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	403.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	374.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1.	*	1	JAN	1515	62	352.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2.	*	1	JAN	1530	63	332.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	6.	*	1	JAN	1545	64	314.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	13.	*	1	JAN	1600	65	296.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	21.	*	1	JAN	1615	66	279.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	32.	*	1	JAN	1630	67	263.	*

100yr.out

1 JAN 0415	18	0.	*	1 JAN 1030	43	47.	*	1 JAN 1645	68	250.	*	1 JAN 2300	93	131.
1 JAN 0430	19	0.	*	1 JAN 1045	44	68.	*	1 JAN 1700	69	241.	*	1 JAN 2315	94	130.
1 JAN 0445	20	0.	*	1 JAN 1100	45	96.	*	1 JAN 1715	70	234.	*	1 JAN 2330	95	129.
1 JAN 0500	21	0.	*	1 JAN 1115	46	135.	*	1 JAN 1730	71	227.	*	1 JAN 2345	96	127.
1 JAN 0515	22	0.	*	1 JAN 1130	47	194.	*	1 JAN 1745	72	220.	*	2 JAN 0000	97	126.
1 JAN 0530	23	0.	*	1 JAN 1145	48	390.	*	1 JAN 1800	73	213.	*	2 JAN 0015	98	118.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1277.	*	1 JAN 1815	74	207.	*	2 JAN 0030	99	90.
1 JAN 0600	25	0.	*	1 JAN 1215	50	2919.	*	1 JAN 1830	75	200.	*	2 JAN 0045	100	50.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
3756.	12.50		890.	274.	266.	266.
		(INCHES)	2.078	2.561	2.561	2.561
		(AC-FT)	441.	544.	544.	544.

CUMULATIVE AREA = 3.98 SQ MI

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 184 KK \* 2B \*  
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185 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

188 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

186 BA SUBBASIN CHARACTERISTICS

TAREA,	0.84	SUBBASIN AREA
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PRECIPITATION DATA

187 PB STORM 5.45 BASIN TOTAL PRECIPITATION

189 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

214 LS SCS LOSS RATE

STRTL	0.79	INITIAL ABSTRACTION
CRVNBR	71.81	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

215 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.30	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES

610.	907.	400.	156.	60.	23.	9.	3.
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HYDROGRAPH AT STATION 2B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN 0000	1	0.00	0.00	0.00	0.00	0.00	0.	*	1 JAN 1230	51	0.16	0.05	0.11	0.11	583.	
1 JAN 0015	2	0.01	0.01	0.00	0.00	0.00	0.	*	1 JAN 1245	52	0.11	0.03	0.08	0.08	355.	
1 JAN 0030	3	0.01	0.01	0.00	0.00	0.00	0.	*	1 JAN 1300	53	0.09	0.03	0.07	0.07	234.	
1 JAN 0045	4	0.01	0.01	0.00	0.00	0.00	0.	*	1 JAN 1315	54	0.08	0.02	0.06	0.06	172.	
1 JAN 0100	5	0.01	0.01	0.00	0.00	0.00	0.	*	1 JAN 1330	55	0.07	0.02	0.05	0.05	138.	

100yr.out

1 JAN 0115	6	0.01	0.01	0.00	0.	*	1 JAN 1345	56	0.06	0.02	0.04	116.
1 JAN 0130	7	0.02	0.02	0.00	0.	*	1 JAN 1400	57	0.05	0.01	0.04	100.
1 JAN 0145	8	0.02	0.02	0.00	0.	*	1 JAN 1415	58	0.05	0.01	0.04	89.
1 JAN 0200	9	0.02	0.02	0.00	0.	*	1 JAN 1430	59	0.05	0.01	0.03	82.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	77.
1 JAN 0230	11	0.02	0.02	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	73.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.04	0.01	0.03	69.
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.04	0.01	0.03	65.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.04	0.01	0.03	61.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	58.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	54.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	52.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	50.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.03	0.01	0.02	49.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.03	0.01	0.02	47.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.03	0.01	0.02	46.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.03	0.01	0.02	44.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	43.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.02	42.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.02	40.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.02	39.
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.02	38.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	36.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	35.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	34.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	32.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	31.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	30.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	30.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	30.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	29.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	29.
1 JAN 0915	38	0.04	0.04	0.00	1.	*	1 JAN 2145	88	0.02	0.00	0.01	28.
1 JAN 0930	39	0.04	0.04	0.00	2.	*	1 JAN 2200	89	0.02	0.00	0.01	28.
1 JAN 0945	40	0.05	0.04	0.00	4.	*	1 JAN 2215	90	0.02	0.00	0.01	28.
1 JAN 1000	41	0.05	0.05	0.00	6.	*	1 JAN 2230	91	0.02	0.00	0.01	28.
1 JAN 1015	42	0.06	0.05	0.01	9.	*	1 JAN 2245	92	0.02	0.00	0.01	27.
1 JAN 1030	43	0.07	0.06	0.01	13.	*	1 JAN 2300	93	0.02	0.00	0.01	27.
1 JAN 1045	44	0.08	0.07	0.01	19.	*	1 JAN 2315	94	0.02	0.00	0.01	27.
1 JAN 1100	45	0.09	0.07	0.02	27.	*	1 JAN 2330	95	0.02	0.00	0.01	26.
1 JAN 1115	46	0.11	0.09	0.03	39.	*	1 JAN 2345	96	0.02	0.00	0.01	26.
1 JAN 1130	47	0.15	0.11	0.04	58.	*	2 JAN 0000	97	0.01	0.00	0.01	26.
1 JAN 1145	48	0.60	0.37	0.23	188.	*	2 JAN 0015	98	0.00	0.00	0.00	19.
1 JAN 1200	49	1.47	0.64	0.84	736.	*	2 JAN 0030	99	0.00	0.00	0.00	8.
1 JAN 1215	50	0.23	0.08	0.16	953.	*	2 JAN 0045	100	0.00	0.00	0.00	3.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.92, TOTAL EXCESS = 2.53

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
953.	12.25	186.	57.	55.	55.
		(INCHES)	2.055	2.532	2.532
		(AC-FT)	92.	113.	113.

CUMULATIVE AREA = 0.84 SQ MI

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 216 KK            2C            CNAME            2R  
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217 KO            OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

218 HC            HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION            2C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	4339.	1	JAN	1845	76	233.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	3379.	1	JAN	1900	77	225.

100yr.out

1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	2168.	*	1 JAN 1915	78	217.
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1450.	*	1 JAN 1930	79	210.
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	1077.	*	1 JAN 1945	80	202.
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	844.	*	1 JAN 2000	81	194.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	700.	*	1 JAN 2015	82	186.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	599.	*	1 JAN 2030	83	179.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	529.	*	1 JAN 2045	84	174.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	480.	*	1 JAN 2100	85	172.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	446.	*	1 JAN 2115	86	170.
1 JAN 0245	12	0.	*	1 JAN 0900	37	1.	*	1 JAN 1515	62	420.	*	1 JAN 2130	87	168.
1 JAN 0300	13	0.	*	1 JAN 0915	38	3.	*	1 JAN 1530	63	397.	*	1 JAN 2145	88	166.
1 JAN 0315	14	0.	*	1 JAN 0930	39	8.	*	1 JAN 1545	64	375.	*	1 JAN 2200	89	164.
1 JAN 0330	15	0.	*	1 JAN 0945	40	16.	*	1 JAN 1600	65	354.	*	1 JAN 2215	90	163.
1 JAN 0345	16	0.	*	1 JAN 1000	41	27.	*	1 JAN 1615	66	333.	*	1 JAN 2230	91	162.
1 JAN 0400	17	0.	*	1 JAN 1015	42	41.	*	1 JAN 1630	67	315.	*	1 JAN 2245	92	160.
1 JAN 0415	18	0.	*	1 JAN 1030	43	61.	*	1 JAN 1645	68	300.	*	1 JAN 2300	93	159.
1 JAN 0430	19	0.	*	1 JAN 1045	44	87.	*	1 JAN 1700	69	290.	*	1 JAN 2315	94	157.
1 JAN 0445	20	0.	*	1 JAN 1100	45	123.	*	1 JAN 1715	70	281.	*	1 JAN 2330	95	156.
1 JAN 0500	21	0.	*	1 JAN 1115	46	174.	*	1 JAN 1730	71	272.	*	1 JAN 2345	96	154.
1 JAN 0515	22	0.	*	1 JAN 1130	47	253.	*	1 JAN 1745	72	264.	*	2 JAN 0000	97	152.
1 JAN 0530	23	0.	*	1 JAN 1145	48	578.	*	1 JAN 1800	73	256.	*	2 JAN 0015	98	137.
1 JAN 0545	24	0.	*	1 JAN 1200	49	2013.	*	1 JAN 1815	74	249.	*	2 JAN 0030	99	97.
1 JAN 0600	25	0.	*	1 JAN 1215	50	3872.	*	1 JAN 1830	75	241.	*	2 JAN 0045	100	53.

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW 6-HR (CFS)	24-HR (INCHES)	72-HR (AC-FT)	24.75-HR (AC-FT)
+ 4339.	12.50	1075.	2.074	321.	321.
		533.	2.556	657.	657.

CUMULATIVE AREA = 4.82 SQ MI

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219 KK    *      2R    *      CNAME    2C
*          *
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220 KO      OUTPUT CONTROL VARIABLES
            IPRNT    1  PRINT CONTROL
            IPLOT    0  PLOT CONTROL
            QSCAL    0. HYDROGRAPH PLOT SCALE
            IPNCH    0  PUNCH COMPUTED HYDROGRAPH
            IOUT     22 SAVE HYDROGRAPH ON THIS UNIT
            ISAV1    1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2    100 LAST ORDINATE PUNCHED OR SAVED
            TIMINT   0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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221 RM      MUSKINGUM ROUTING
            NSTPS    1  NUMBER OF SUBREACHES
            AMSKK    0.10 MUSKINGUM K
            X        0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 2R

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW			
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	4268.	*	1	JAN	1845	76	236.
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	3870.	*	1	JAN	1900	77	229.
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	2669.	*	1	JAN	1915	78	221.
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	1704.	*	1	JAN	1930	79	213.
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	1210.	*	1	JAN	1945	80	205.
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	933.	*	1	JAN	2000	81	198.
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	754.	*	1	JAN	2015	82	190.
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	638.	*	1	JAN	2030	83	182.
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	556.	*	1	JAN	2045	84	176.
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	499.	*	1	JAN	2100	85	173.
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	459.	*	1	JAN	2115	86	171.
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	431.	*	1	JAN	2130	87	169.
1	JAN	0300	13	0.	*	1	JAN	0915	38	2.	*	1	JAN	1530	63	407.	*	1	JAN	2145	88	167.
1	JAN	0315	14	0.	*	1	JAN	0930	39	6.	*	1	JAN	1545	64	384.	*	1	JAN	2200	89	165.
1	JAN	0330	15	0.	*	1	JAN	0945	40	13.	*	1	JAN	1600	65	363.	*	1	JAN	2215	90	164.
1	JAN	0345	16	0.	*	1	JAN	1000	41	22.	*	1	JAN	1615	66	342.	*	1	JAN	2230	91	162.
1	JAN	0400	17	0.	*	1	JAN	1015	42	35.	*	1	JAN	1630	67	322.	*	1	JAN	2245	92	160.
1	JAN	0415	18	0.	*	1	JAN	1030	43	53.	*	1	JAN	1645	68	306.	*	1	JAN	2300	93	159.
1	JAN	0430	19	0.	*	1	JAN	1045	44	76.	*	1	JAN	1700	69	294.	*	1	JAN	2315	94	158.
1	JAN	0445	20	0.	*	1	JAN	1100	45	108.	*	1	JAN	1715	70	284.	*	1	JAN	2330	95	156.
1	JAN	0500	21	0.	*	1	JAN	1115	46	152.	*	1	JAN	1730	71	276.	*	1	JAN	2345	96	154.

100yr.out  
 1 JAN 0515 22 0. \* 1 JAN 1130 47 219. \* 1 JAN 1745 72 268. \* 2 JAN 0000 97 153.  
 1 JAN 0530 23 0. \* 1 JAN 1145 48 424. \* 1 JAN 1800 73 260. \* 2 JAN 0015 98 144.  
 1 JAN 0545 24 0. \* 1 JAN 1200 49 1332. \* 1 JAN 1815 74 252. \* 2 JAN 0030 99 115.  
 1 JAN 0600 25 0. \* 1 JAN 1215 50 3089. \* 1 JAN 1830 75 244. \* 2 JAN 0045 100 72.  
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PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 + (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
 + 4268. 12.50 (CFS) 1074. 331. 321. 321.  
 (INCHES) 2.072 2.554 2.554 2.554  
 (AC-FT) 533. 657. 657. 657.

CUMULATIVE AREA = 4.82 SQ MI

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 222 KK 1B \*  
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223 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

226 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

224 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.70 SUBBASIN AREA

PRECIPITATION DATA

225 PB STORM 5.45 BASIN TOTAL PRECIPITATION

227 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

252 LS SCS LOSS RATE  
 STRL 0.77 INITIAL ABSTRACTION  
 CRVNBR 72.29 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

253 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.29 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 8 END-OF-PERIOD ORDINATES  
 528. 755. 321. 122. 46. 18. 7. 2.

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HYDROGRAPH AT STATION 1B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.16	0.05	0.11	483.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	292.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.09	0.03	0.07	192.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	142.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	115.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.04	96.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.04	83.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	74.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.03	68.

100yr.out												
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	64.
1 JAN 0230	11	0.02	0.02	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	61.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.04	0.01	0.03	57.
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.04	0.01	0.03	54.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.04	0.01	0.03	51.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	48.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	45.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	43.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	42.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.03	0.01	0.02	41.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.03	0.01	0.02	39.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.03	0.01	0.02	38.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.03	0.01	0.02	37.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	36.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.02	35.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.02	34.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.00	0.02	33.
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.02	31.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	30.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	29.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	28.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	27.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	26.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	25.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	25.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	25.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	24.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	24.
1 JAN 0915	38	0.04	0.04	0.00	1.	*	1 JAN 2145	88	0.02	0.00	0.01	24.
1 JAN 0930	39	0.04	0.04	0.00	2.	*	1 JAN 2200	89	0.02	0.00	0.01	24.
1 JAN 0945	40	0.05	0.04	0.00	4.	*	1 JAN 2215	90	0.02	0.00	0.01	23.
1 JAN 1000	41	0.05	0.05	0.00	6.	*	1 JAN 2230	91	0.02	0.00	0.01	23.
1 JAN 1015	42	0.06	0.05	0.01	9.	*	1 JAN 2245	92	0.02	0.00	0.01	23.
1 JAN 1030	43	0.07	0.06	0.01	12.	*	1 JAN 2300	93	0.02	0.00	0.01	23.
1 JAN 1045	44	0.08	0.06	0.01	17.	*	1 JAN 2315	94	0.02	0.00	0.01	23.
1 JAN 1100	45	0.09	0.07	0.02	24.	*	1 JAN 2330	95	0.02	0.00	0.01	22.
1 JAN 1115	46	0.11	0.09	0.03	35.	*	1 JAN 2345	96	0.02	0.00	0.01	22.
1 JAN 1130	47	0.15	0.10	0.04	51.	*	2 JAN 0000	97	0.01	0.00	0.01	22.
1 JAN 1145	48	0.60	0.37	0.23	166.	*	2 JAN 0015	98	0.00	0.00	0.00	15.
1 JAN 1200	49	1.47	0.62	0.85	642.	*	2 JAN 0030	99	0.00	0.00	0.00	6.
1 JAN 1215	50	0.23	0.07	0.16	807.	*	2 JAN 0045	100	0.00	0.00	0.00	2.

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TOTAL RAINFALL = 5.45, TOTAL LOSS = 2.87, TOTAL EXCESS = 2.58

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(INCHES)	(AC-FT)	
807.	12.25	157.	2.089	78.	
		48.	2.574	96.	47.
		47.	2.574	96.	47.

CUMULATIVE AREA = 0.70 SQ MI

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 254 KK      1C      CNAME      1C  
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255 KO      OUTPUT CONTROL VARIABLES  
 IPRENT      1      PRINT CONTROL  
 IPLOT      0      PLOT CONTROL  
 QSCAL      0.      HYDROGRAPH PLOT SCALE  
 IPNCH      0      PUNCH COMPUTED HYDROGRAPH  
 IOUT      22      SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2      100      LAST ORDINATE PUNCHED OR SAVED  
 TIMINT      0.250      TIME INTERVAL IN HOURS

256 HC      HYDROGRAPH COMBINATION  
 ICOMP      2      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION      1C  
 SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	4751.	1	JAN	1845	76	269.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	4162.	1	JAN	1900	77	260.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	2861.	1	JAN	1915	78	251.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	1846.	1	JAN	1930	79	242.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	1325.	1	JAN	1945	80	234.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	1029.	1	JAN	2000	81	225.

100yr.out

1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	837.	*	1 JAN 2015	82	216.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	713.	*	1 JAN 2030	83	207.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	624.	*	1 JAN 2045	84	201.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	563.	*	1 JAN 2100	85	197.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	520.	*	1 JAN 2115	86	195.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	488.	*	1 JAN 2130	87	193.
1 JAN 0300	13	0.	*	1 JAN 0915	38	3.	*	1 JAN 1530	63	461.	*	1 JAN 2145	88	190.
1 JAN 0315	14	0.	*	1 JAN 0930	39	8.	*	1 JAN 1545	64	436.	*	1 JAN 2200	89	189.
1 JAN 0330	15	0.	*	1 JAN 0945	40	17.	*	1 JAN 1600	65	411.	*	1 JAN 2215	90	187.
1 JAN 0345	16	0.	*	1 JAN 1000	41	28.	*	1 JAN 1615	66	387.	*	1 JAN 2230	91	185.
1 JAN 0400	17	0.	*	1 JAN 1015	42	44.	*	1 JAN 1630	67	365.	*	1 JAN 2245	92	183.
1 JAN 0415	18	0.	*	1 JAN 1030	43	65.	*	1 JAN 1645	68	348.	*	1 JAN 2300	93	182.
1 JAN 0430	19	0.	*	1 JAN 1045	44	93.	*	1 JAN 1700	69	335.	*	1 JAN 2315	94	181.
1 JAN 0445	20	0.	*	1 JAN 1100	45	132.	*	1 JAN 1715	70	324.	*	1 JAN 2330	95	179.
1 JAN 0500	21	0.	*	1 JAN 1115	46	187.	*	1 JAN 1730	71	314.	*	1 JAN 2345	96	176.
1 JAN 0515	22	0.	*	1 JAN 1130	47	270.	*	1 JAN 1745	72	305.	*	2 JAN 0000	97	175.
1 JAN 0530	23	0.	*	1 JAN 1145	48	590.	*	1 JAN 1800	73	296.	*	2 JAN 0015	98	160.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1974.	*	1 JAN 1815	74	287.	*	2 JAN 0030	99	122.
1 JAN 0600	25	0.	*	1 JAN 1215	50	3896.	*	1 JAN 1830	75	278.	*	2 JAN 0045	100	74.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
4751.	12.50		1231.	379.	368.	368.
		(INCHES)	2.074	2.556	2.556	2.556
		(AC-FT)	610.	752.	752.	752.

CUMULATIVE AREA = 5.52 SQ MI

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 \* \*  
 257 KK 1C \* CNAME 1C  
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258 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

259 RN NO ROUTING

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HYDROGRAPH AT STATION 1C

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	4751.	*	1 JAN 1845	76	269.															
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	4162.	*	1 JAN 1900	77	260.															
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	2861.	*	1 JAN 1915	78	251.															
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	1846.	*	1 JAN 1930	79	242.															
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	1325.	*	1 JAN 1945	80	234.															
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	1029.	*	1 JAN 2000	81	225.															
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	837.	*	1 JAN 2015	82	216.															
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	713.	*	1 JAN 2030	83	207.															
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	624.	*	1 JAN 2045	84	201.															
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	563.	*	1 JAN 2100	85	197.															
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	520.	*	1 JAN 2115	86	195.															
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	488.	*	1 JAN 2130	87	193.															
1 JAN 0300	13	0.	*	1 JAN 0915	38	3.	*	1 JAN 1530	63	461.	*	1 JAN 2145	88	190.															
1 JAN 0315	14	0.	*	1 JAN 0930	39	8.	*	1 JAN 1545	64	436.	*	1 JAN 2200	89	189.															
1 JAN 0330	15	0.	*	1 JAN 0945	40	17.	*	1 JAN 1600	65	411.	*	1 JAN 2215	90	187.															
1 JAN 0345	16	0.	*	1 JAN 1000	41	28.	*	1 JAN 1615	66	387.	*	1 JAN 2230	91	185.															
1 JAN 0400	17	0.	*	1 JAN 1015	42	44.	*	1 JAN 1630	67	365.	*	1 JAN 2245	92	183.															
1 JAN 0415	18	0.	*	1 JAN 1030	43	65.	*	1 JAN 1645	68	348.	*	1 JAN 2300	93	182.															
1 JAN 0430	19	0.	*	1 JAN 1045	44	93.	*	1 JAN 1700	69	335.	*	1 JAN 2315	94	181.															
1 JAN 0445	20	0.	*	1 JAN 1100	45	132.	*	1 JAN 1715	70	324.	*	1 JAN 2330	95	179.															
1 JAN 0500	21	0.	*	1 JAN 1115	46	187.	*	1 JAN 1730	71	314.	*	1 JAN 2345	96	176.															
1 JAN 0515	22	0.	*	1 JAN 1130	47	270.	*	1 JAN 1745	72	305.	*	2 JAN 0000	97	175.															
1 JAN 0530	23	0.	*	1 JAN 1145	48	590.	*	1 JAN 1800	73	296.	*	2 JAN 0015	98	160.															
1 JAN 0545	24	0.	*	1 JAN 1200	49	1974.	*	1 JAN 1815	74	287.	*	2 JAN 0030	99	122.															
1 JAN 0600	25	0.	*	1 JAN 1215	50	3896.	*	1 JAN 1830	75	278.	*	2 JAN 0045	100	74.															

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
4751.	12.50		1231.	379.	368.	368.
		(INCHES)	2.074	2.556	2.556	2.556
		(AC-FT)	610.	752.	752.	752.



100yr.out

+	(CFS)	(HR)					
+	4751.	12.50	(CFS)	1231.	379.	368.	368.
			(INCHES)	2.074	2.556	2.556	2.556
			(AC-FT)	610.	752.	752.	752.

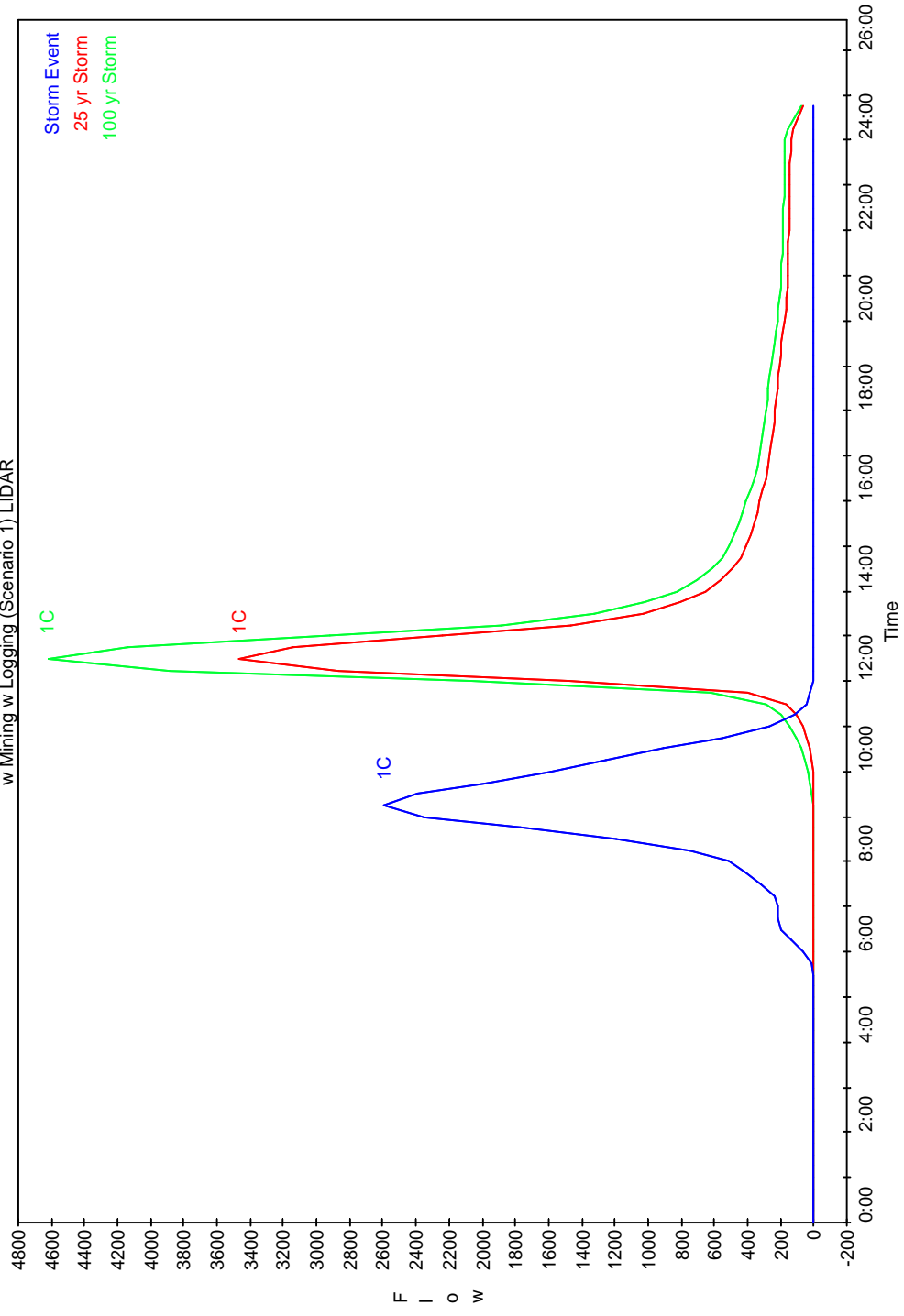
CUMULATIVE AREA = 5.52 SQ MI

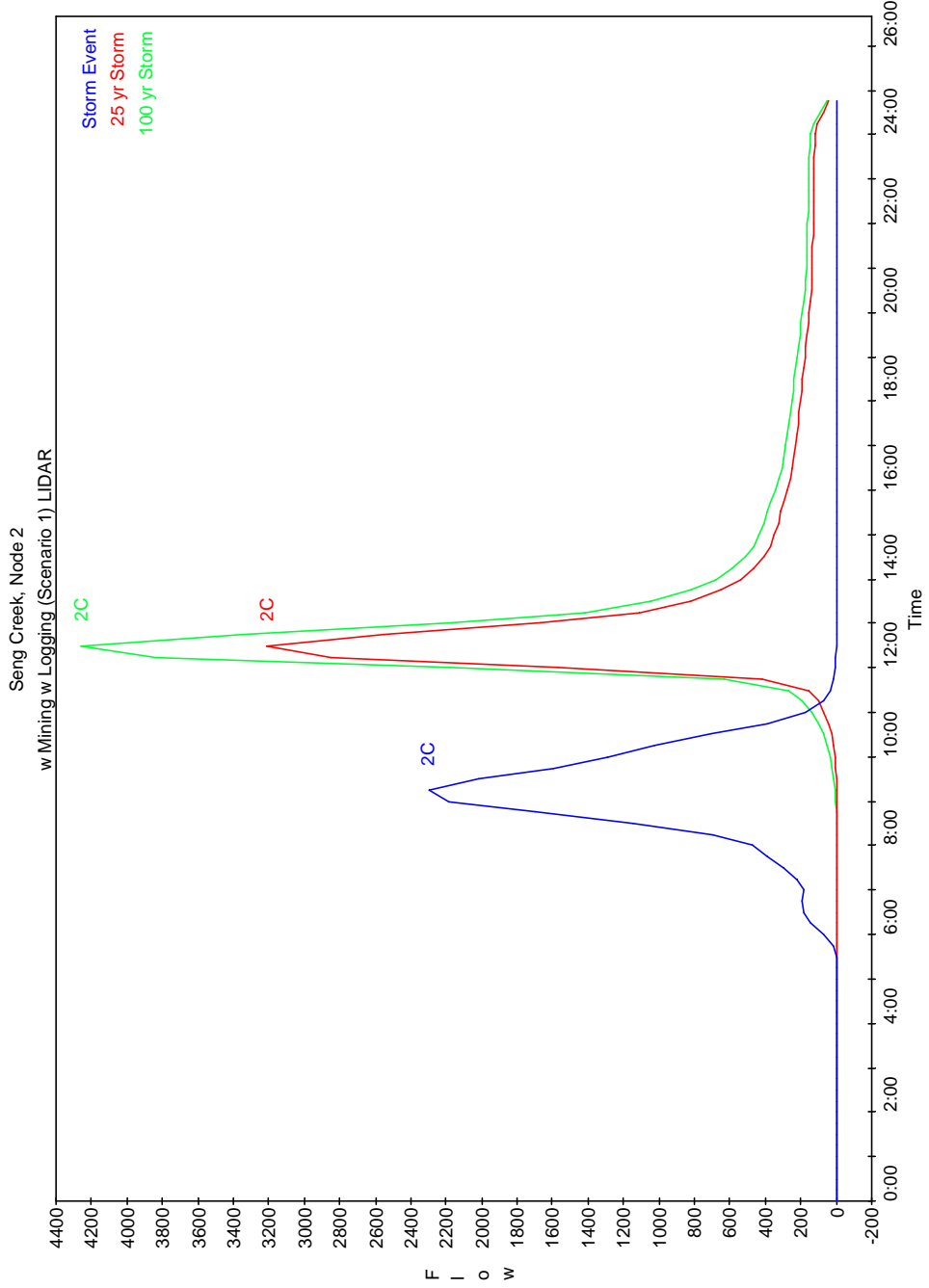
RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

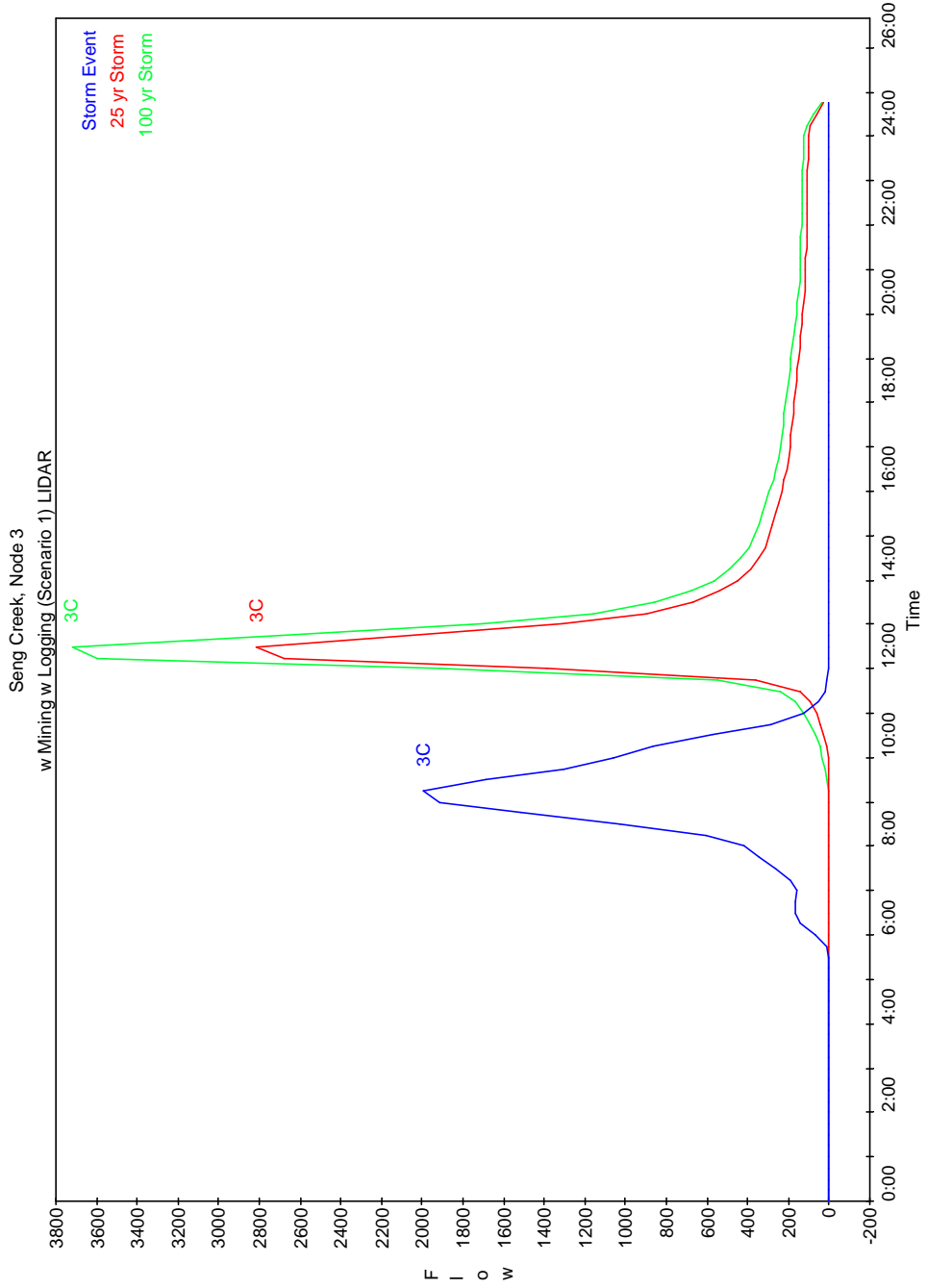
+	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT	5bB	890.	12.25	208.	64.	62.	0.97		
+	HYDROGRAPH AT	5aB	635.	12.25	123.	38.	37.	0.54		
+	2 COMBINED AT	5C	1524.	12.25	331.	102.	99.	1.52		
+	ROUTED TO	5R	1402.	12.50	331.	102.	99.	1.52		
+	HYDROGRAPH AT	4aB	919.	12.25	202.	62.	60.	0.86		
+	HYDROGRAPH AT	4bB	650.	12.25	133.	41.	40.	0.61		
+	3 COMBINED AT	4C	2847.	12.25	665.	205.	199.	2.99		
+	ROUTED TO	4R	2868.	12.50	665.	205.	199.	2.99		
+	HYDROGRAPH AT	3B	1131.	12.25	225.	69.	67.	0.99		
+	2 COMBINED AT	3C	3641.	12.50	890.	274.	266.	3.98		
+	ROUTED TO	3R	3756.	12.50	890.	274.	266.	3.98		
+	HYDROGRAPH AT	2B	953.	12.25	186.	57.	55.	0.84		
+	2 COMBINED AT	2C	4339.	12.50	1075.	331.	321.	4.82		
+	ROUTED TO	2R	4268.	12.50	1074.	331.	321.	4.82		
+	HYDROGRAPH AT	1B	807.	12.25	157.	48.	47.	0.70		
+	2 COMBINED AT	1C	4751.	12.50	1231.	379.	368.	5.52		
+	ROUTED TO	1C	4751.	12.50	1231.	379.	368.	5.52		

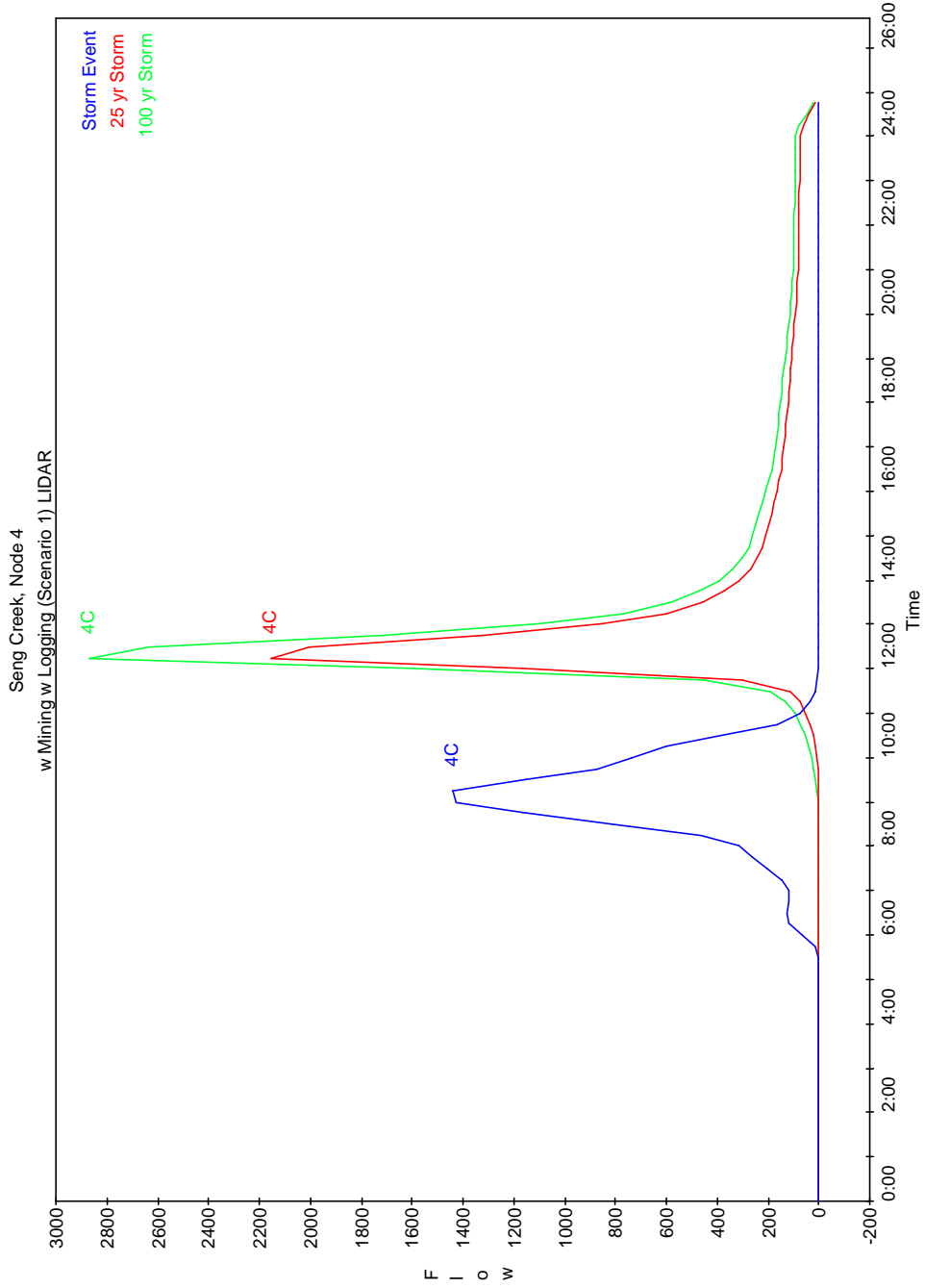
\*\*\* NORMAL END OF HEC-1 \*\*\*

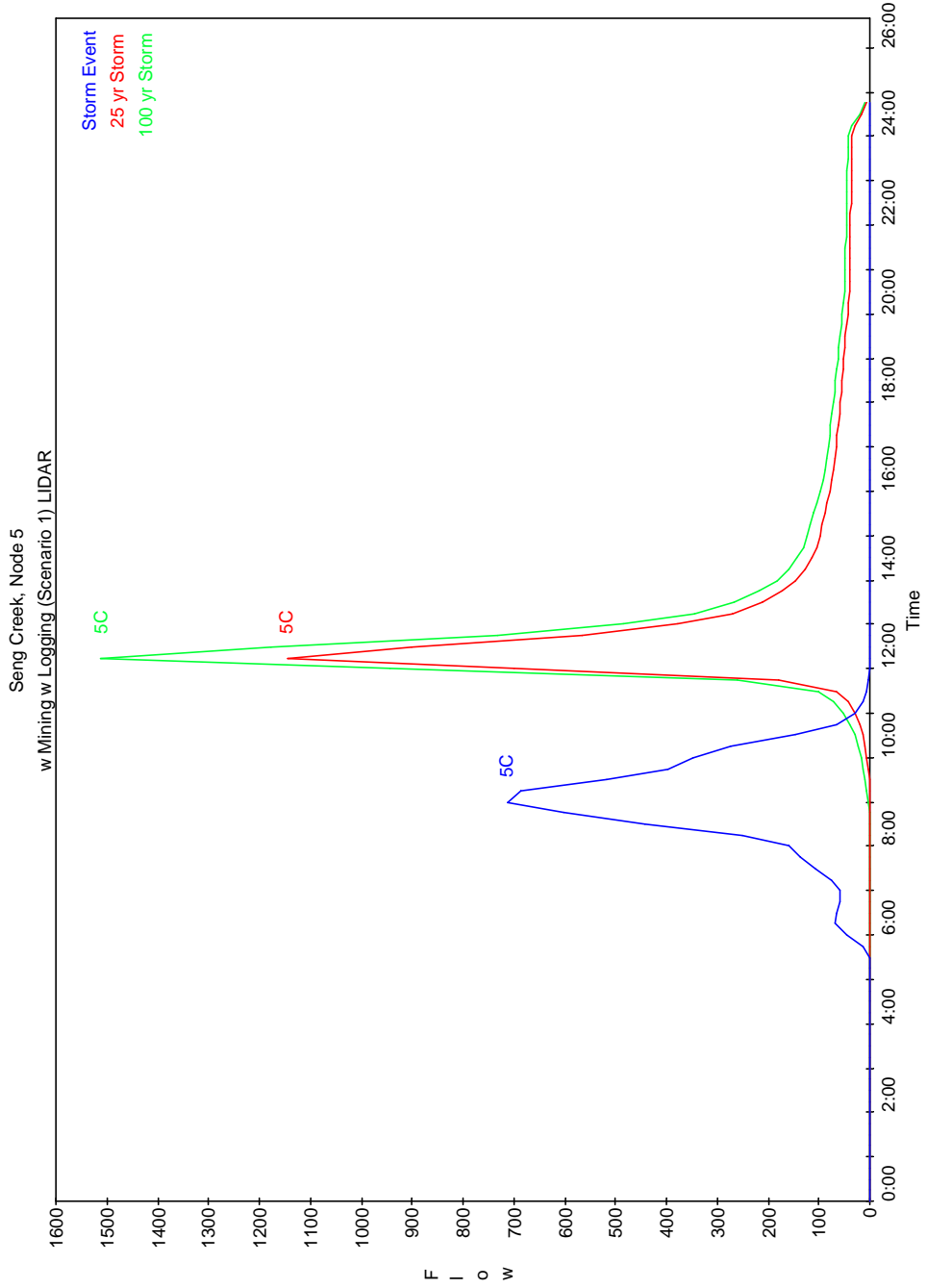
Seng Creek, Node 1 (Downstream Outlet)  
w Mining w Logging (Scenario 1) LIDAR



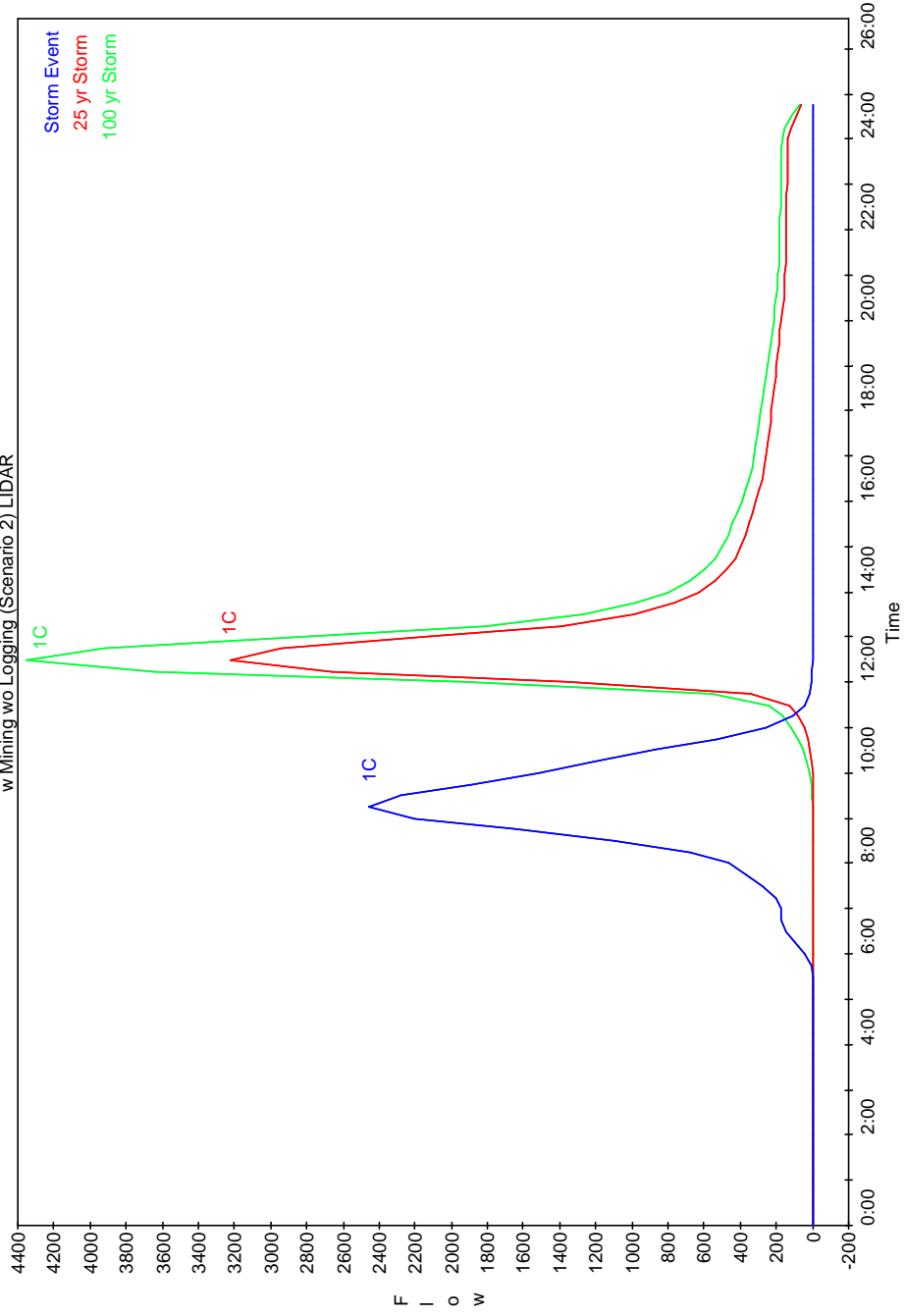




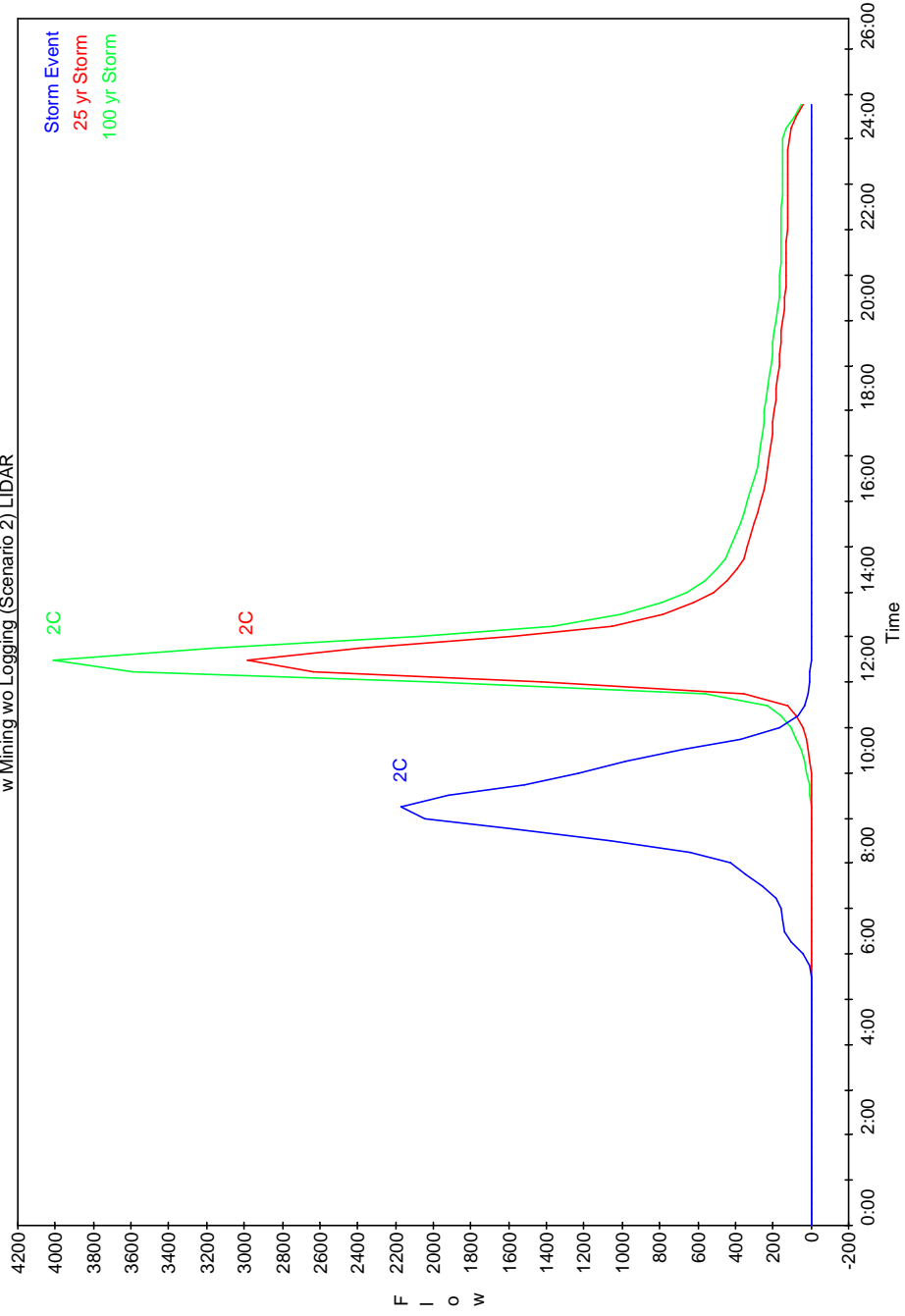




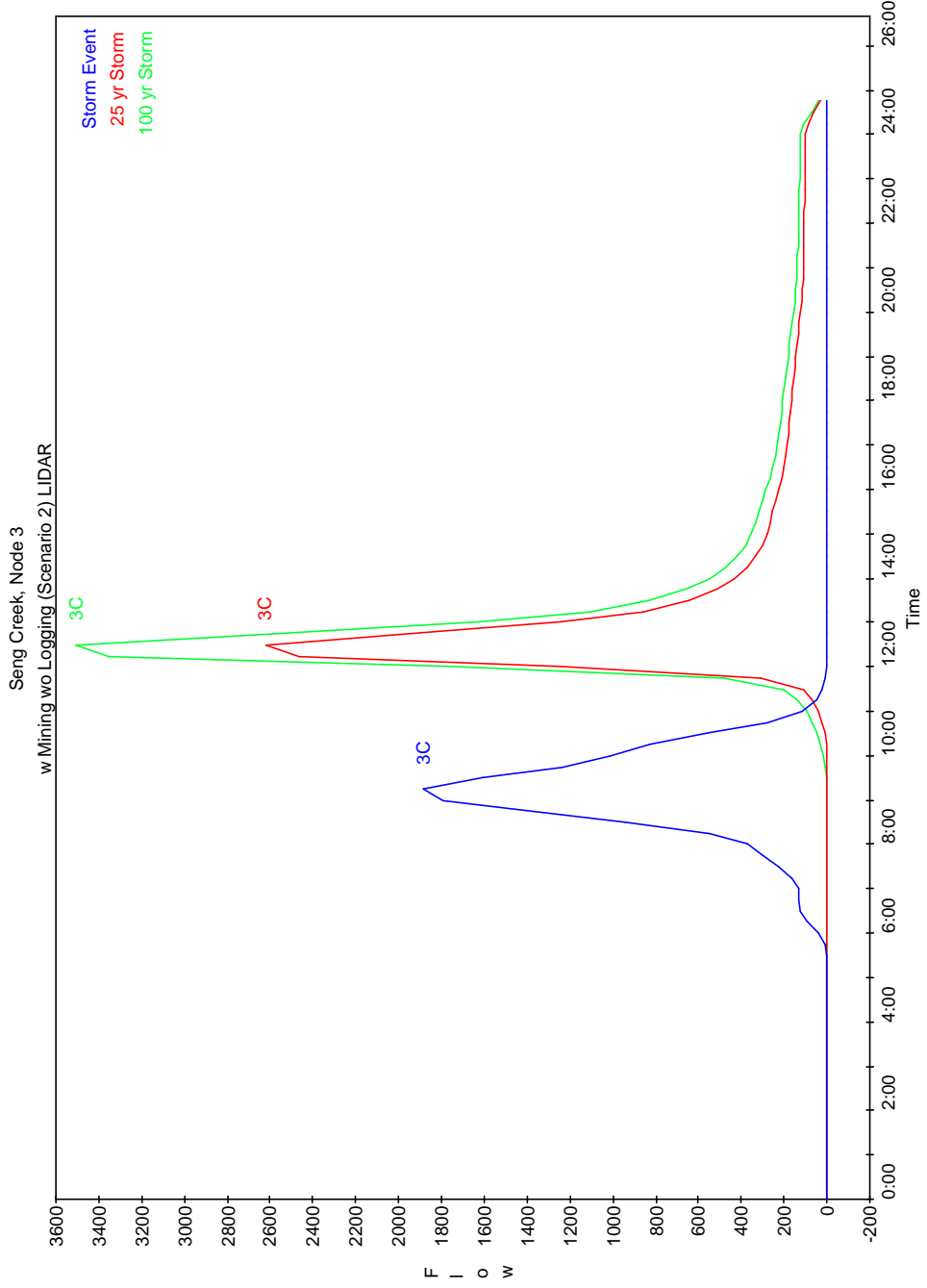
Seng Creek, Node 1 (Downstream Outlet)  
w Mining wo Logging (Scenario 2) LIDAR

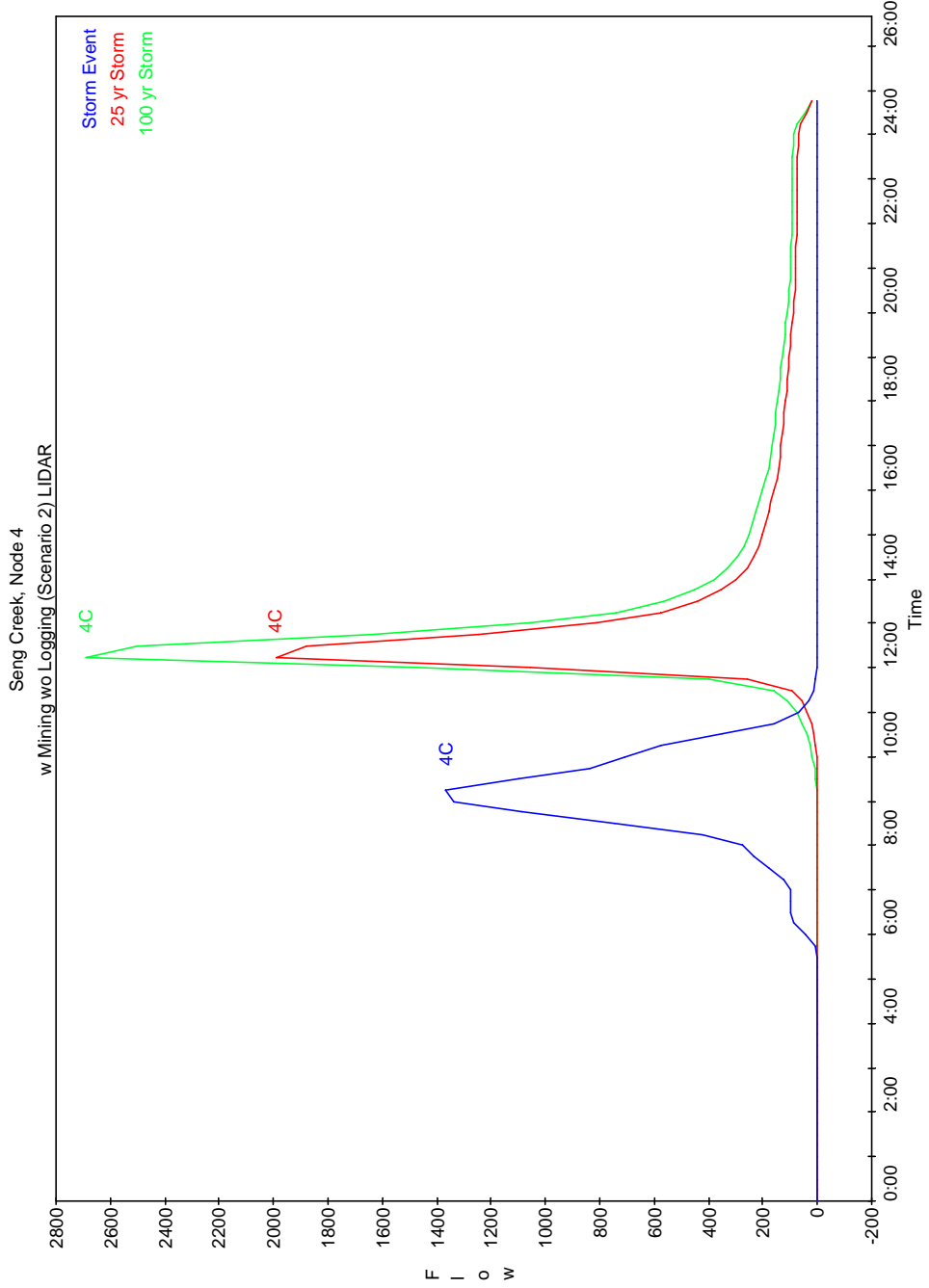


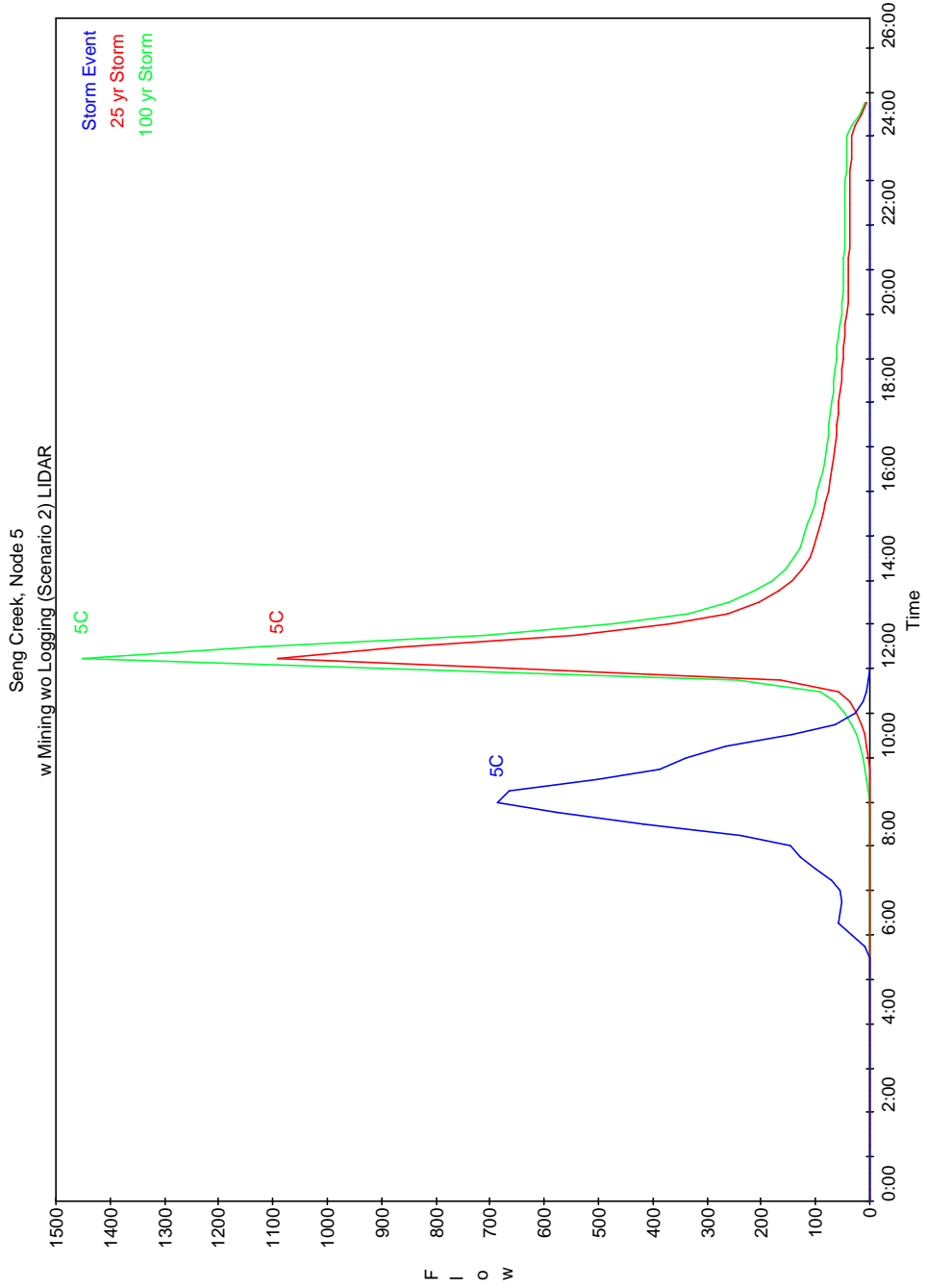
Seng Creek, Node 2  
w Mining wo Logging (Scenario 2) LIDAR



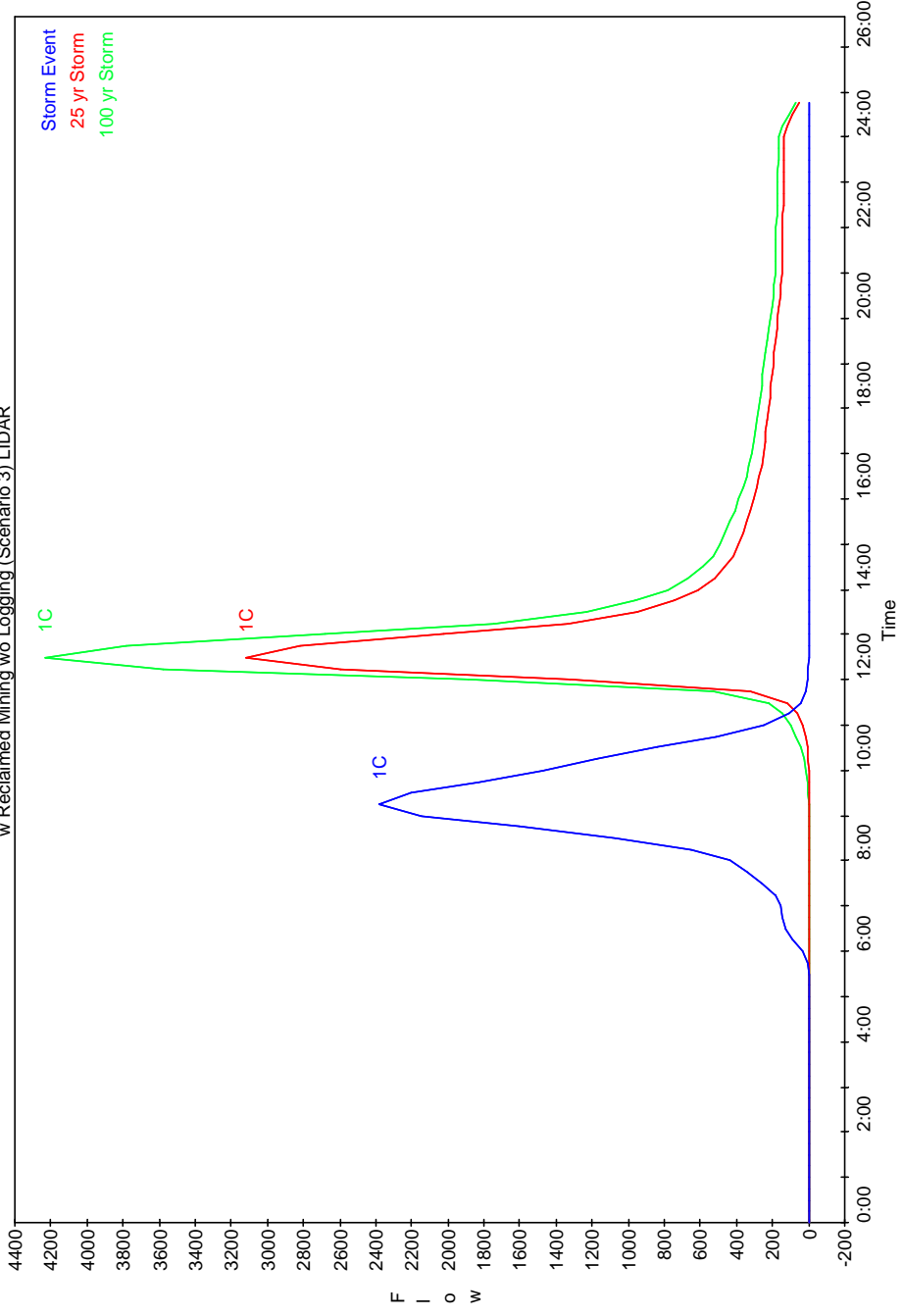


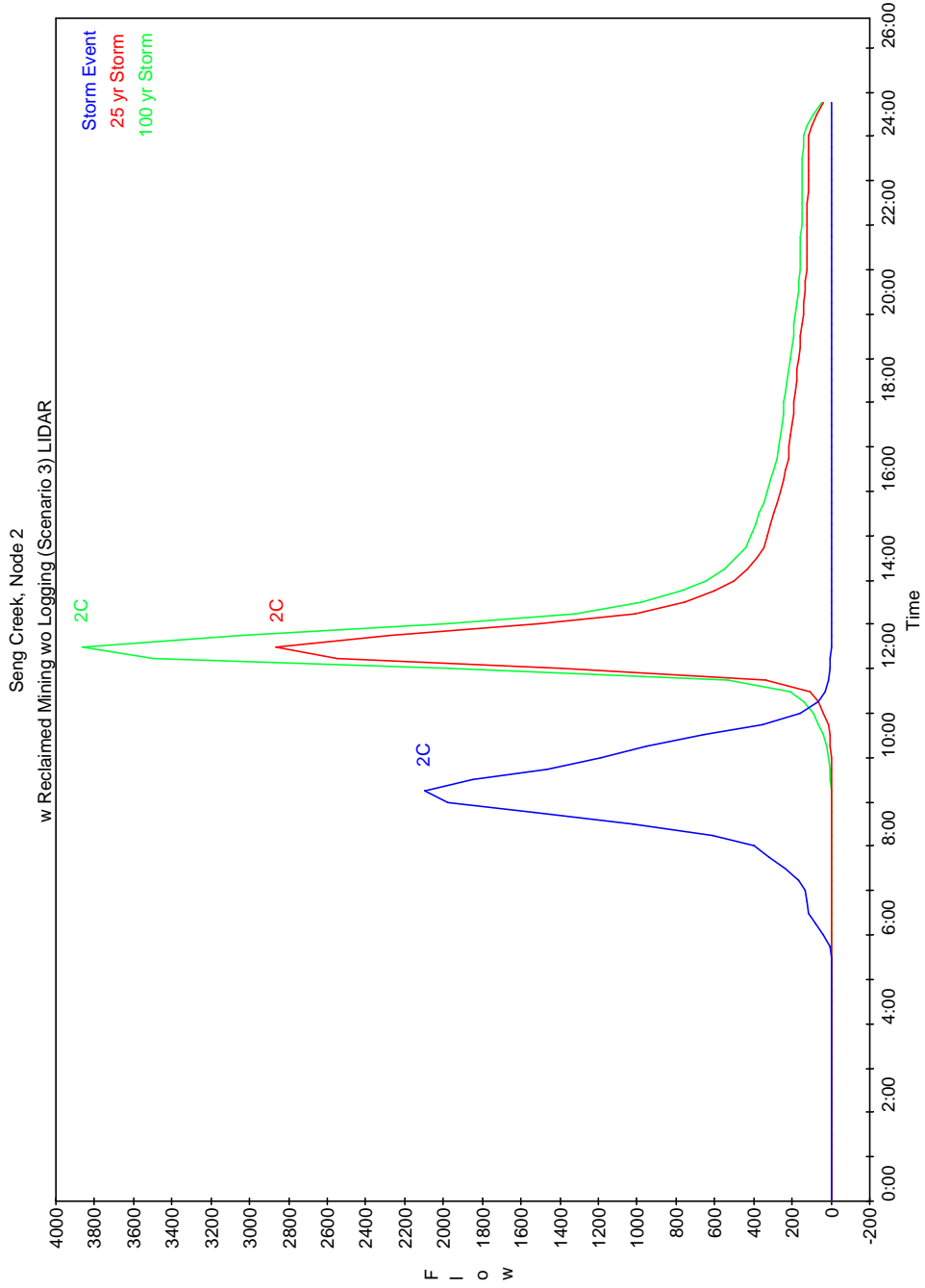


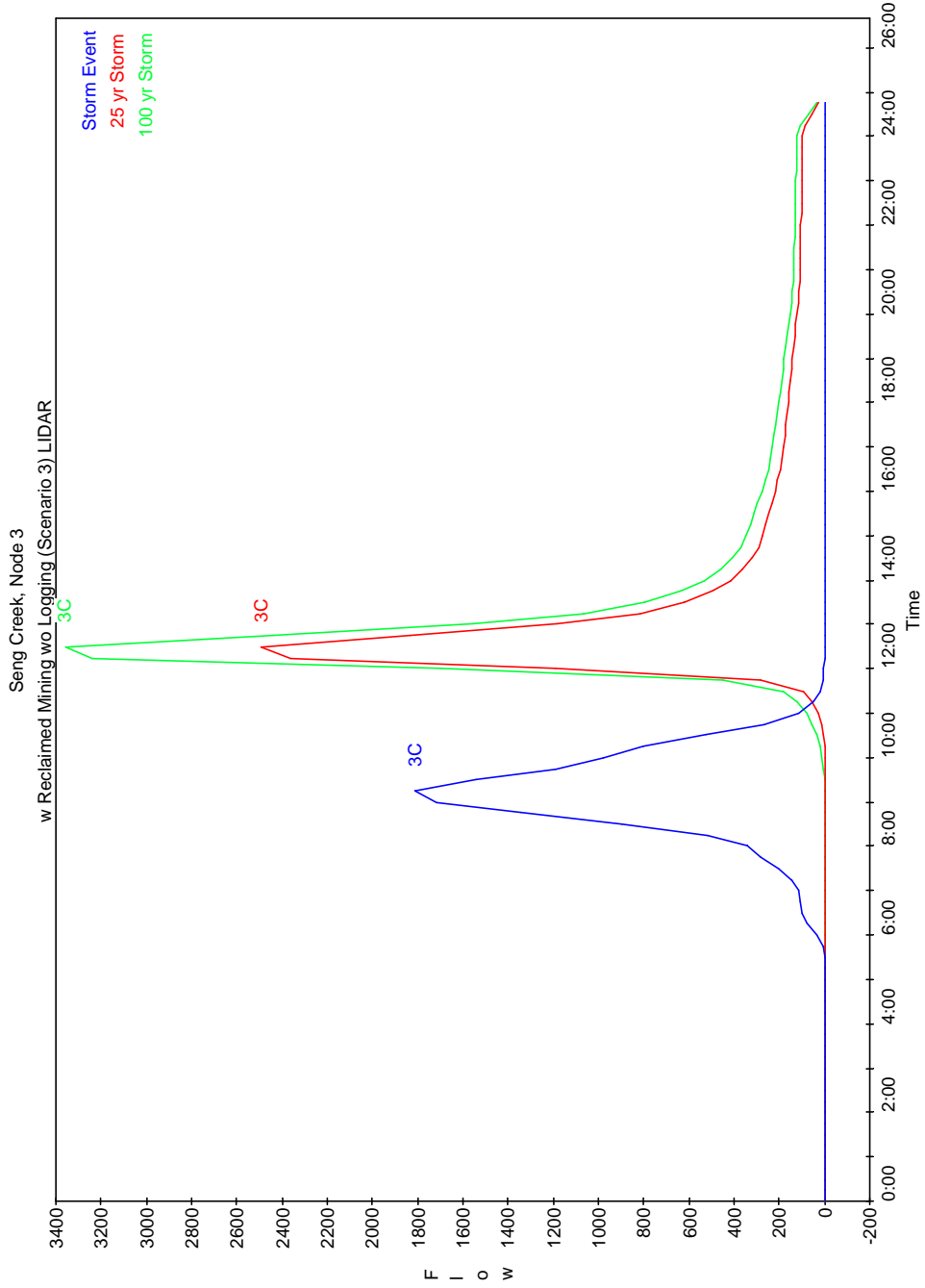


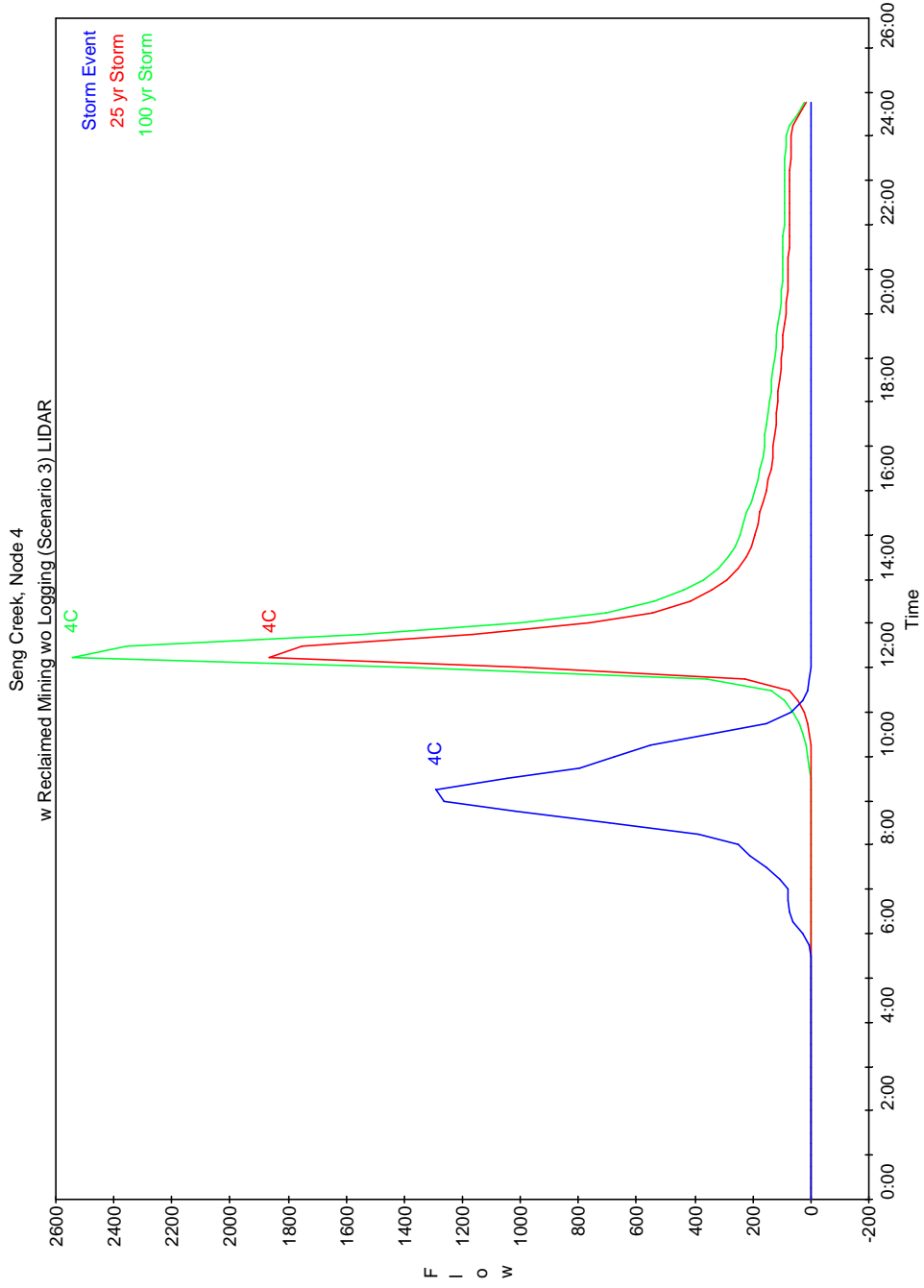


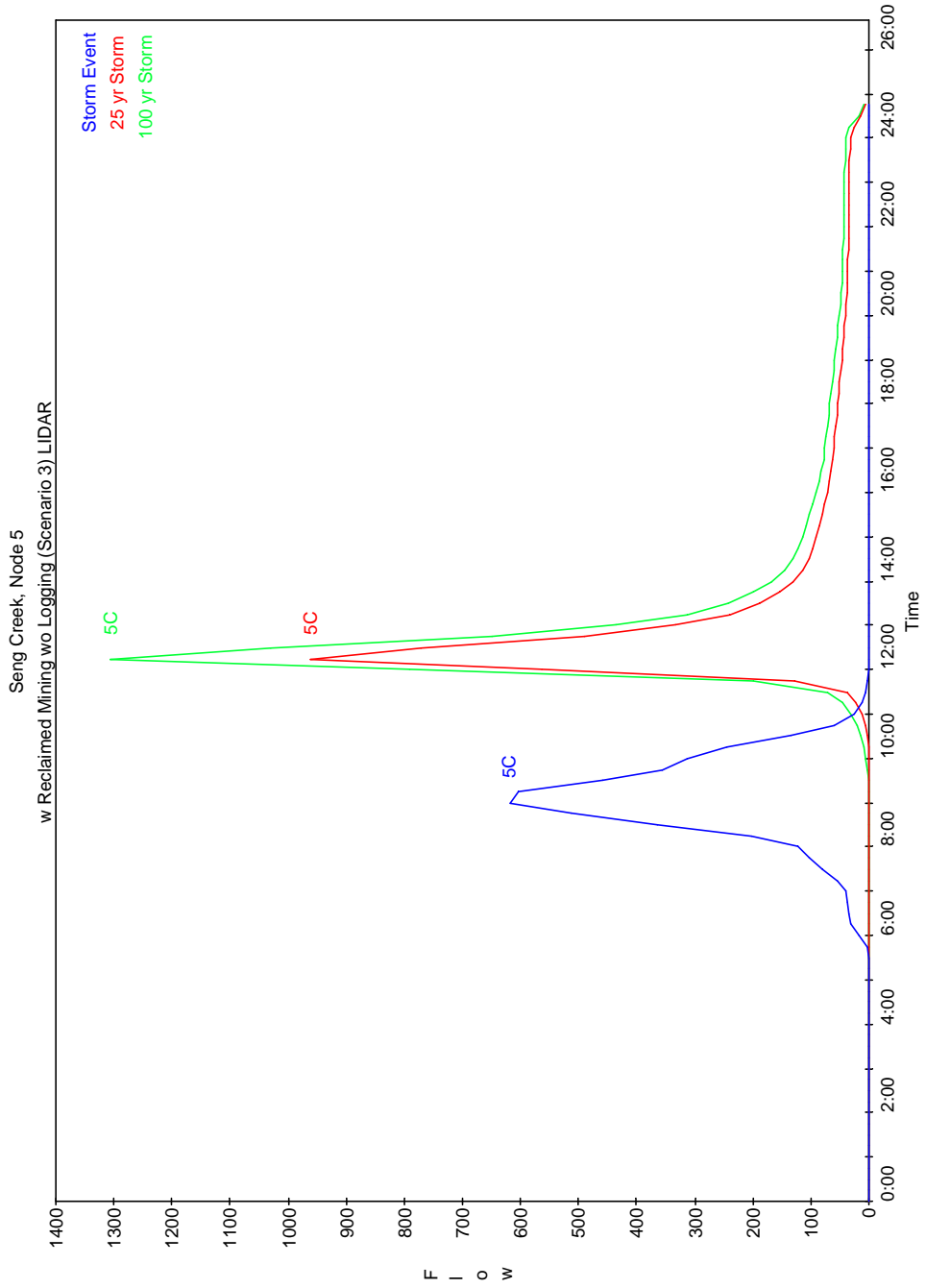
Seng Creek, Node 1 (Downstream Outlet)  
w Reclaimed Mining w/o Logging (Scenario 3) LIDAR





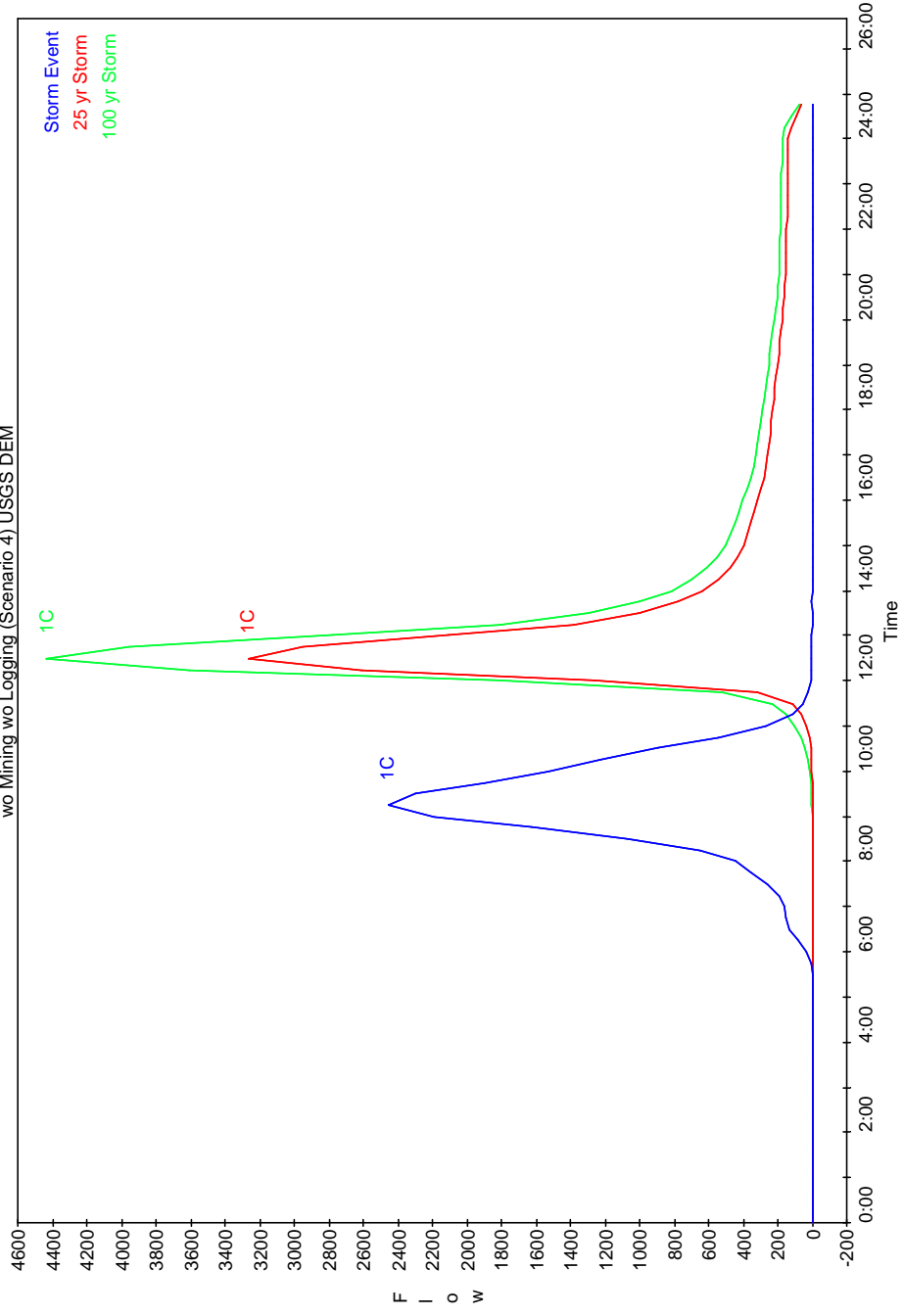


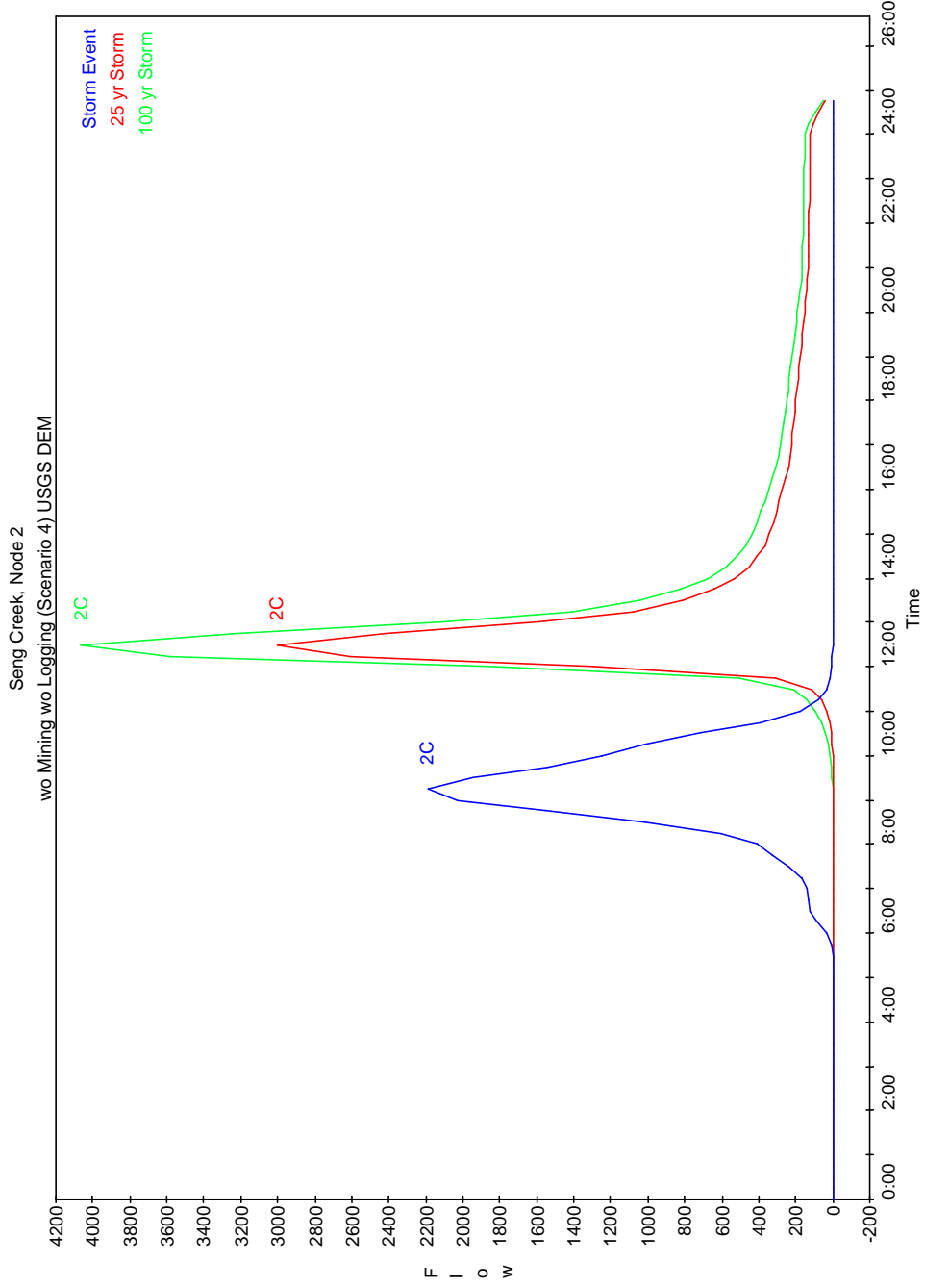


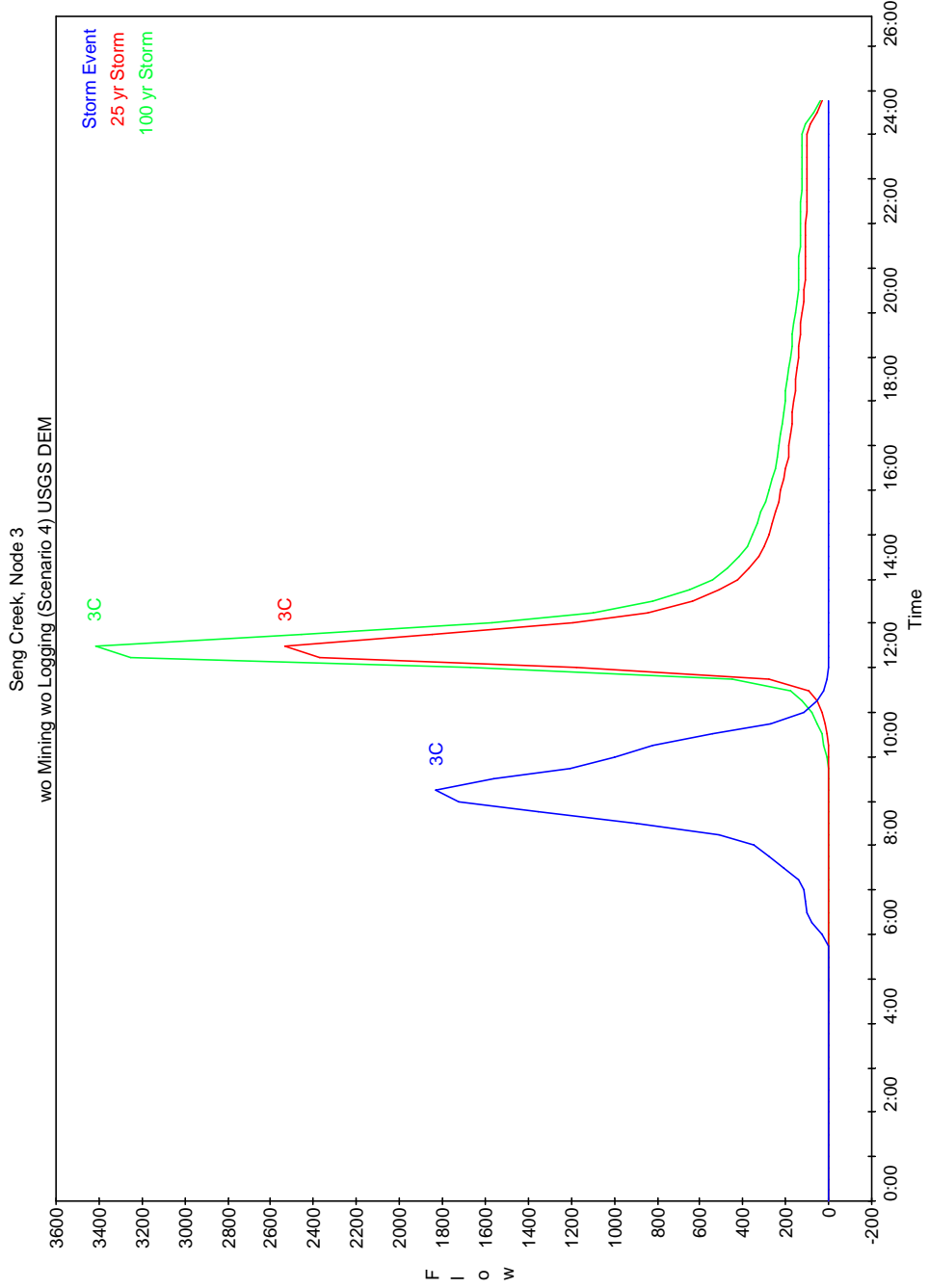


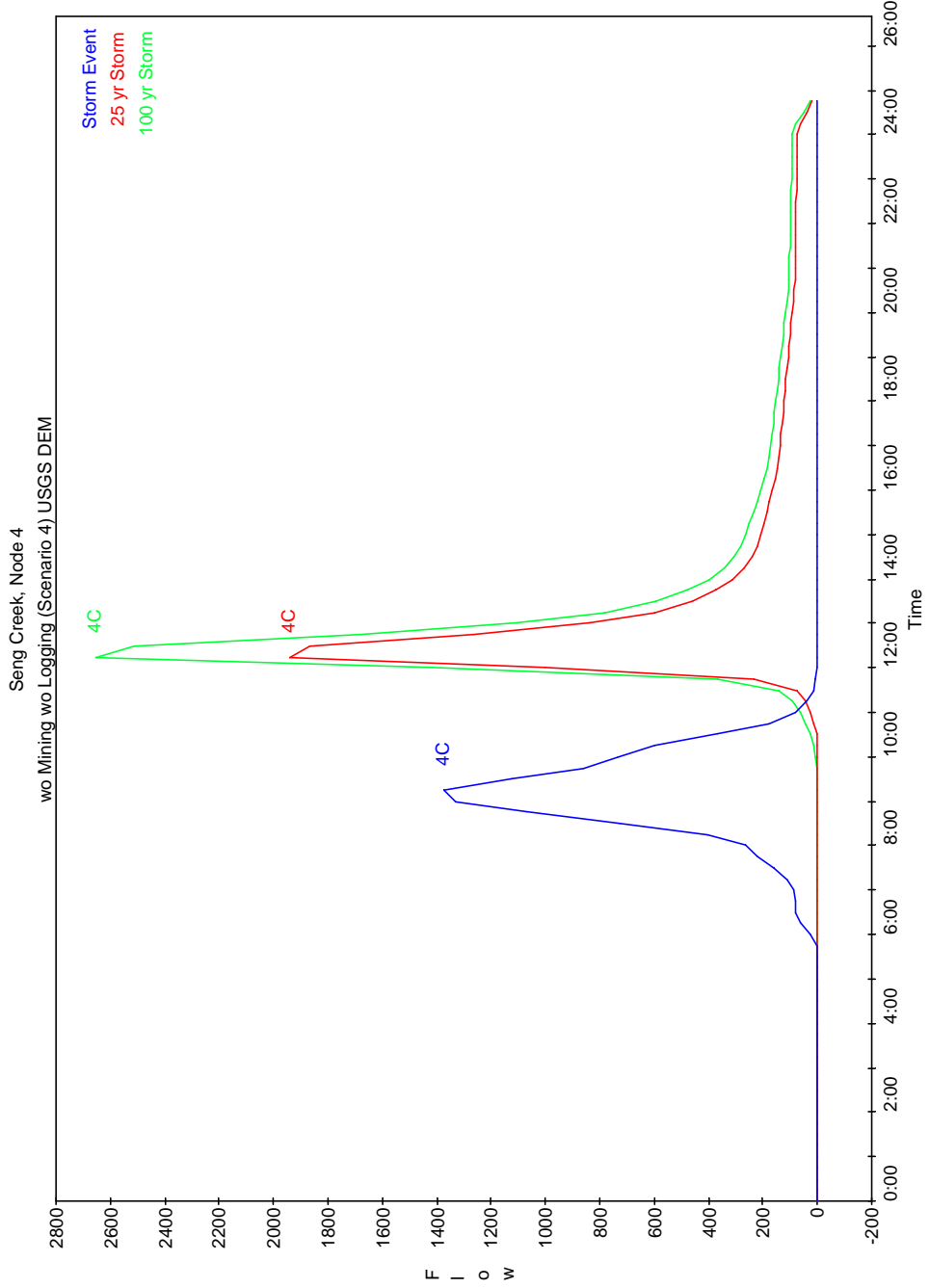


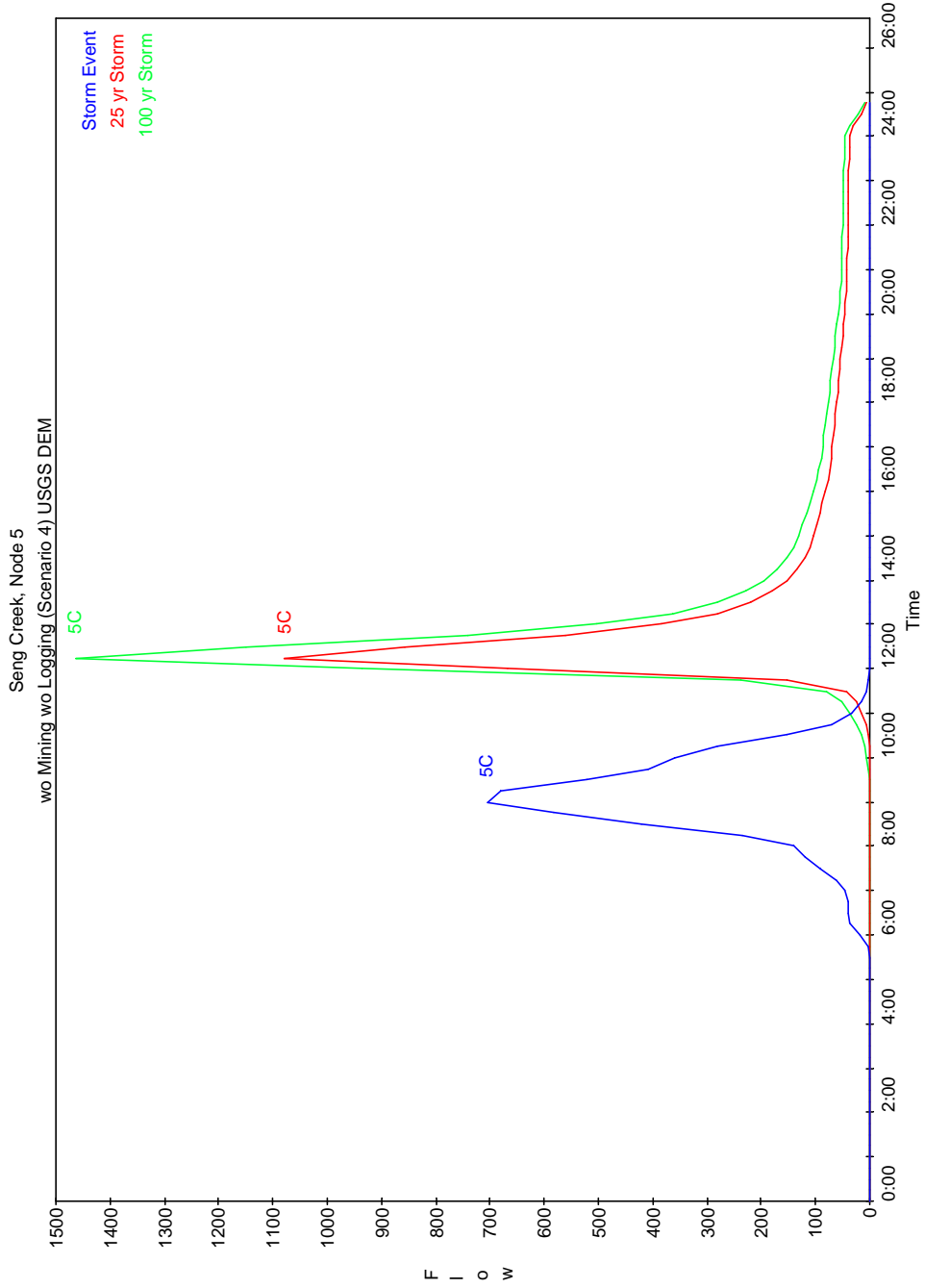
Seng Creek, Node 1 (Downstream Outlet)  
wo Mining wo Logging (Scenario 4) USGS DEM



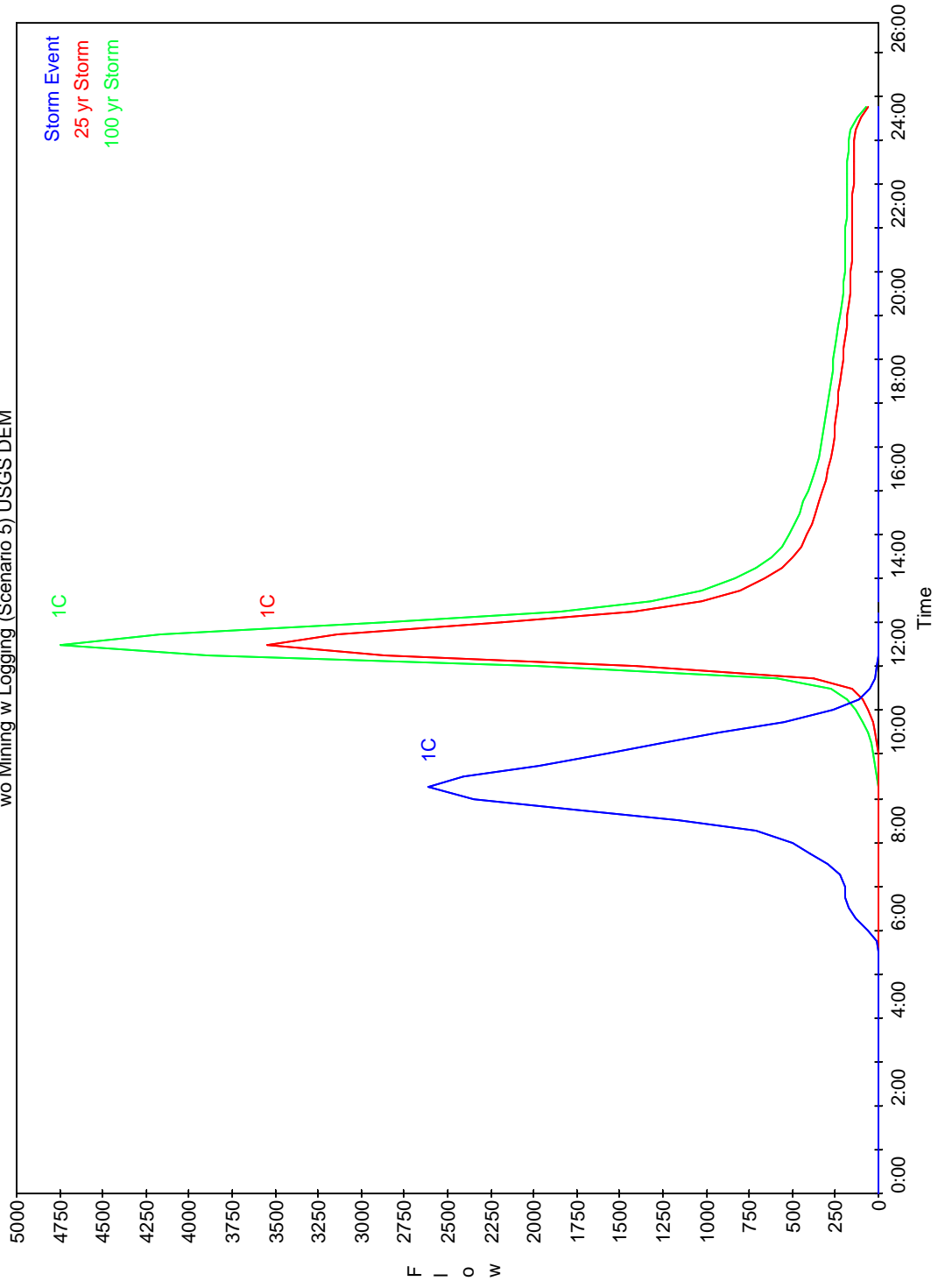


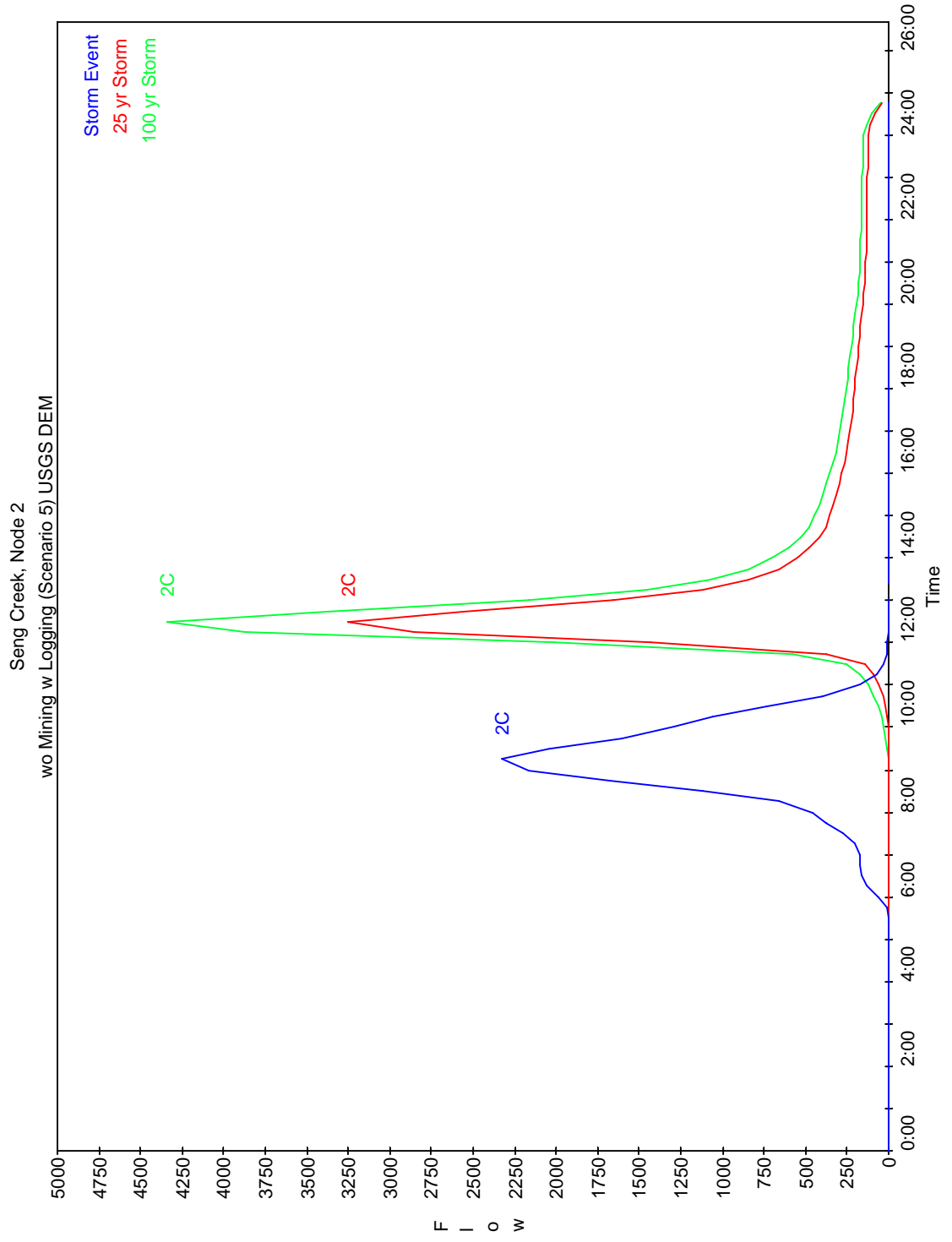


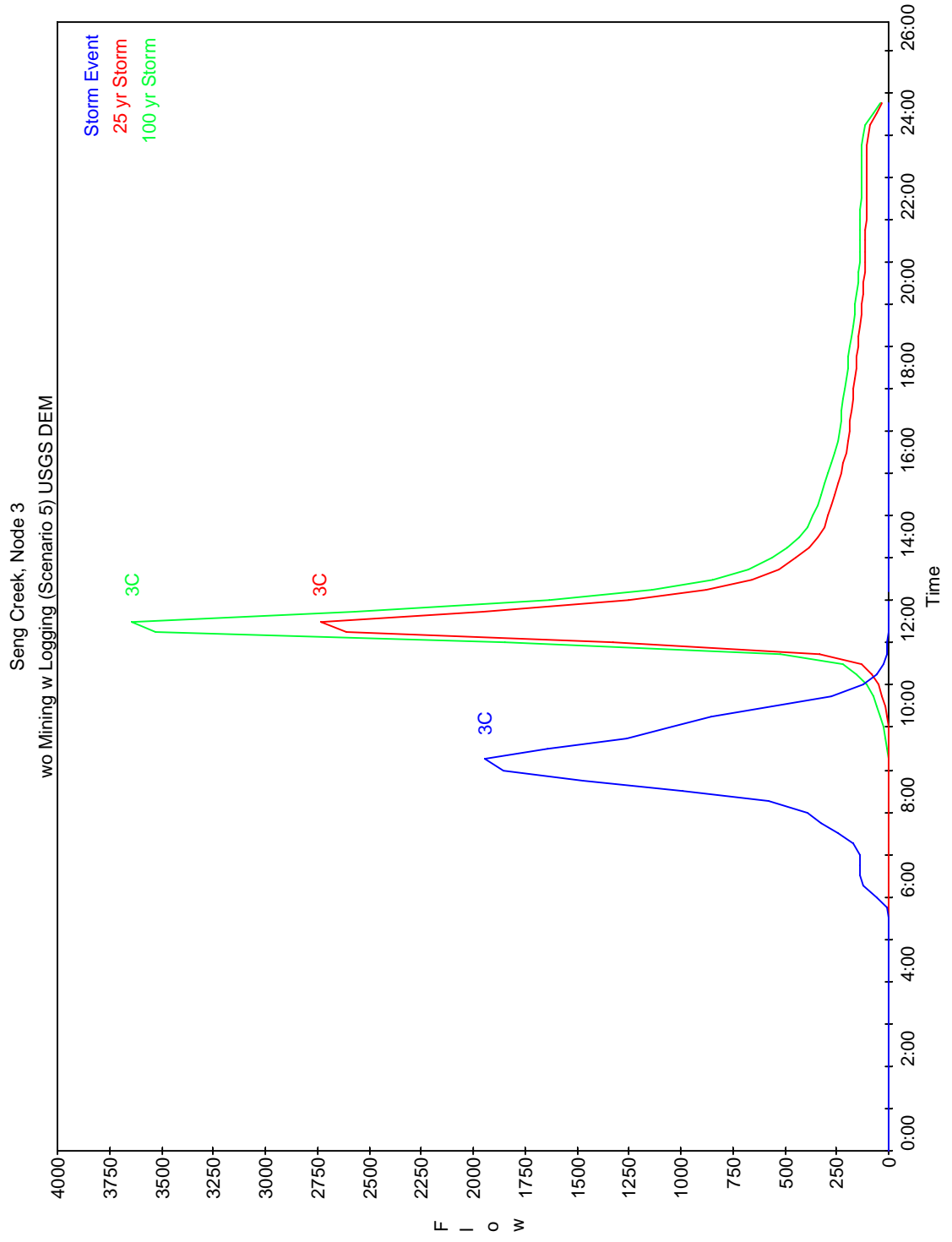




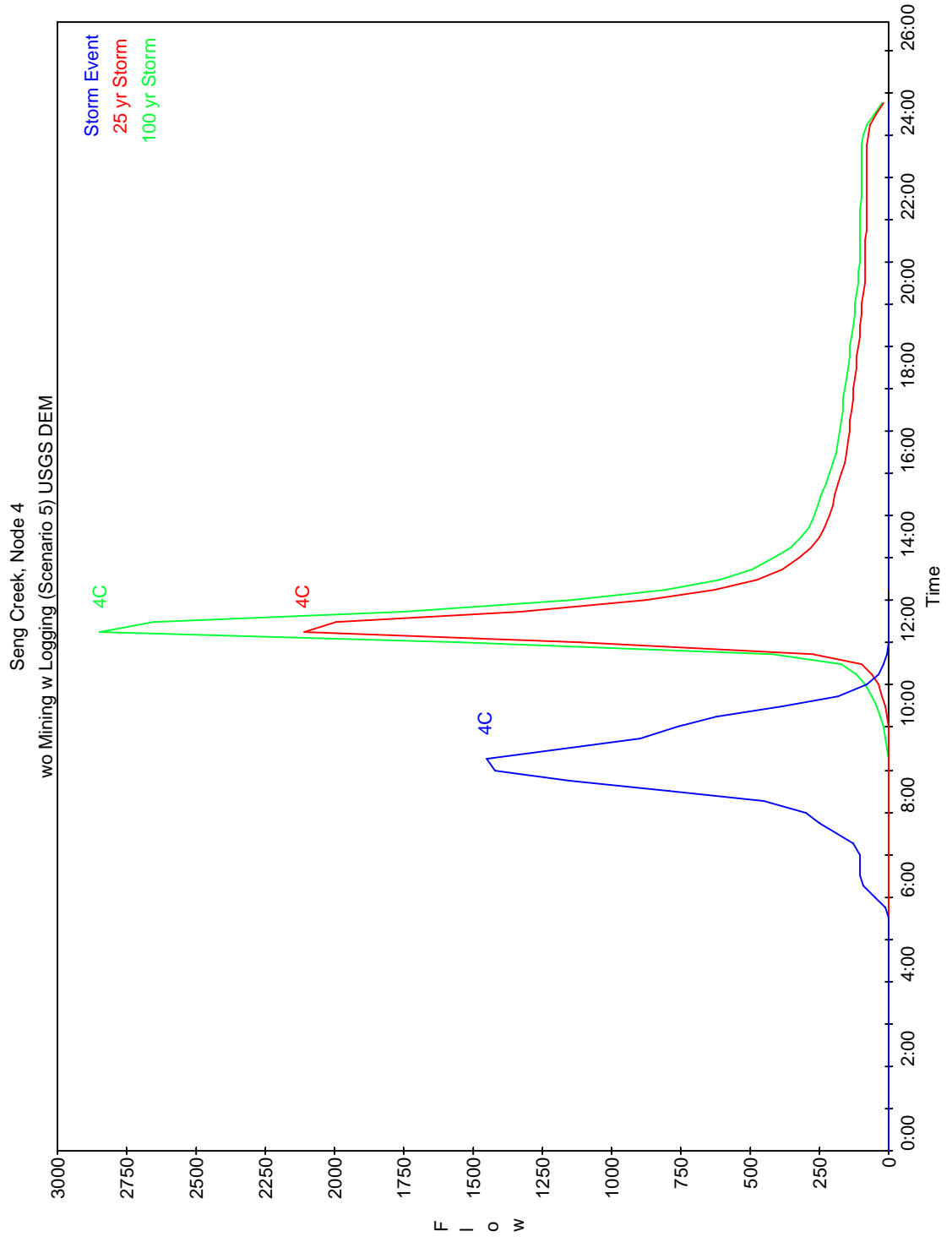
Seng Creek, Node 1 (Downstream Outlet)  
wo Mining w Logging (Scenario 5) USGS DEM

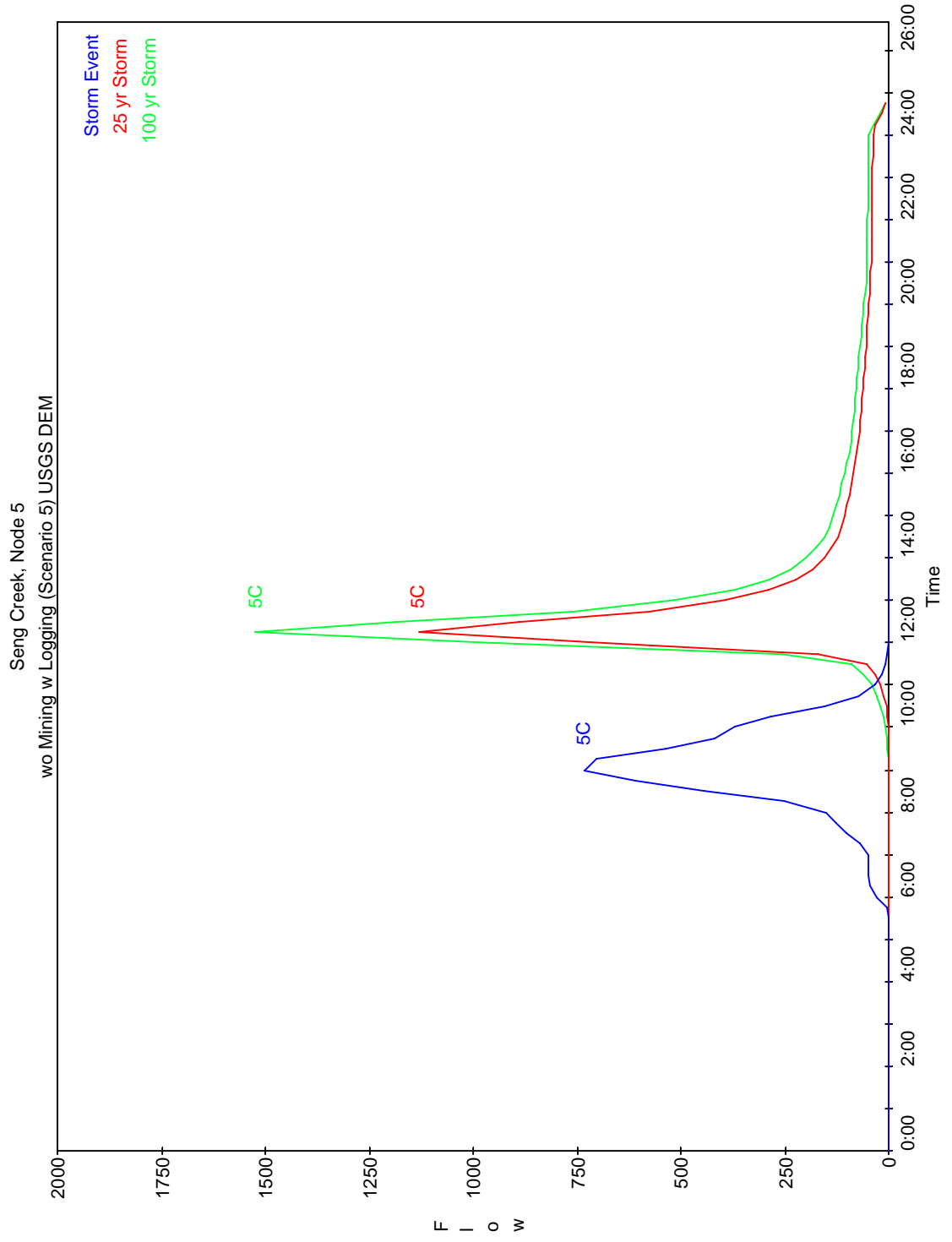












**Comparison of Computed and Observed WSEL  
Seng Creek HEC-RAS Analysis using RiverCAD**

Cross-Section ID	Calculated WSEL (m)	Observed WSEL (m)	Difference (m)	Difference (ft)
5	245.43	245.41	0.02	0.07
6	248.44	248.35	0.09	0.30
7	251.35	251.11	0.24	0.79
8	253.63	253.74	-0.11	-0.36
9	257.07	257.09	-0.02	-0.07
10	259.49	260.88	-1.39	-4.56
11	262.27	262.79	-0.52	-1.71
12	265.57	265.52	0.05	0.16
13	269.08	269.06	0.02	0.07
14	272.78	272.58	0.20	0.66
15	276.19	276.16	0.03	0.10
16	278.91	278.75	0.16	0.52
17	282.05	282.33	-0.28	-0.92
18	285.81	286.13	-0.32	-1.05

Possible influence by debris blockage during flood due to bridge

Seng Creek HEC-RAS Hydraulic Analysis Summary Report

River Sta.	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
1	2594.92	790.4	795.38	797.18	801.28	0.040471	19.57	135.19	37.35	1.79
1	3466.84	790.4	796.24	798.45	803.13	0.036977	21.16	167.8	38.15	1.75
1	4621.98	790.4	797.3	799.89	805.27	0.033682	22.8	210.78	43.22	1.7
2	2594.92	790.51	796.64	798.2	801.8	0.033316	18.24	142.26	28.77	1.45
2	3466.84	790.51	797.92	799.57	803.67	0.030888	19.24	180.21	31.22	1.41
2	4621.98	790.51	799.21	800.97	805.81	0.03207	20.62	224.16	36.43	1.46
3	2594.92	789.84	799.39	799.39	802.63	0.015894	14.43	179.8	28.02	1
3	3466.84	789.84	801.01	801.01	804.48	0.015714	14.94	232.08	33.81	1
3	4621.98	789.84	802.48	802.48	806.65	0.015769	16.39	281.97	34.04	1
4	2594.92	790.96	801.77	798.78	803.02	0.004168	8.98	289.09	33.84	0.54
4	3466.84	790.96	803.25	800.07	804.87	0.004717	10.22	339.37	34.09	0.57
4	4621.98	790.96	805.02	801.56	807.09	0.005307	11.56	399.72	34.38	0.6
5	2594.92	799.08	805.21	806.46	809.43	0.019213	17.13	199.08	166.15	1.41
5	3466.84	799.08	805.67	806.88	809.94	0.019624	18.26	276.33	174.53	1.44
5	4621.98	799.08	806.13	807.39	810.54	0.020166	19.5	358.62	181.79	1.48
6	2594.92	808.76	815.09	816.31	819.31	0.019426	17.59	200.99	144.98	1.44
6	3466.84	808.76	815.57	816.8	819.86	0.019267	18.7	271.95	151.75	1.46
6	4621.98	808.76	816.08	817.38	820.47	0.019002	19.79	351.11	156.15	1.47
7	2594.92	819.06	824.62	825.4	827.09	0.012561	14.65	275.43	161.82	1.2
7	3466.84	819.06	825.05	825.66	827.68	0.012925	15.76	346.5	170.2	1.23
7	4621.98	819.06	825.5	826.48	828.42	0.01372	17.18	425.45	182.5	1.29
8	2594.92	827.11	832.13	833.02	835.05	0.021395	16.07	241.29	129.83	1.36
8	3466.84	827.11	832.61	833.53	835.67	0.020924	17.06	304.68	133.44	1.37
8	4621.98	827.11	833.19	834.15	836.4	0.019871	17.93	383.09	137.26	1.36
9	2594.92	837.84	843.37	844.26	846.32	0.026706	16.92	274.27	177.93	1.45
9	3466.84	837.84	843.75	844.69	846.86	0.027403	18.15	343.89	186.81	1.49
9	4621.98	837.84	844.17	845.15	847.52	0.028248	19.54	423.9	191.42	1.54
10	2594.92	844.79	851.35	852.41	854.74	0.01813	17	267.59	89.43	1.24
10	3466.84	844.79	851.98	853.55	856.03	0.020053	19.15	326.56	98.19	1.33
10	4621.98	844.79	852.66	854.57	857.53	0.022316	21.59	397.58	113.98	1.43
11	2594.92	854.28	860.5	861.49	864.09	0.019553	15.85	210.27	66.15	1.23
11	3466.84	854.28	861.46	862.49	865.38	0.017856	16.96	274.98	69.08	1.2
11	4621.98	854.28	862.61	863.7	866.87	0.016081	18.04	356.65	73.06	1.18
12	2594.92	864.54	871.25	872.23	874.46	0.018897	15.6	240.37	120.49	1.25
12	3466.84	864.54	871.85	873.12	875.28	0.018781	16.81	316.75	135.85	1.27
12	4621.98	864.54	872.52	873.68	876.22	0.018708	18.14	421.73	190.12	1.29
13	2594.92	877.52	882.82	883.82	885.92	0.026202	16.26	215.33	115.63	1.43
13	3466.84	877.52	883.26	884.37	886.65	0.026126	17.41	266.97	121.41	1.46
13	4621.98	877.52	883.77	884.93	887.5	0.025589	18.52	347.42	188.82	1.47

Seng Creek HEC-RAS Hydraulic Analysis Summary Report

River Sta.	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
14	2594.92	889.25	894.89	896.19	899.1	0.025905	18.29	210.2	148.56	1.45
14	3466.84	889.25	895.35	896.59	899.36	0.024651	18.93	280.4	155.31	1.44
14	4621.98	889.25	895.86	897.07	899.96	0.02455	20.05	362.84	176.11	1.45
15	2296.87	900.36	906.13	907.5	911.36	0.02257	19.84	215.69	190.84	1.52
15	3209.04	900.36	906.55	908.08	912.54	0.026368	22.57	295.78	192.07	1.67
15	4255.06	900.36	907.04	908.61	912.95	0.026419	23.88	390.97	193.53	1.69
16	2296.87	909.48	915.06	916.8	918.98	0.017983	16.44	164.33	52.57	1.28
16	3209.04	909.48	915.97	917.36	920.72	0.018255	18.5	219.57	67.85	1.33
16	4255.06	909.48	916.38	917.86	921.6	0.020562	20.5	337.26	191.85	1.43
17	2296.87	919.74	925.37	926.62	929.5	0.028375	17.59	175.14	68.8	1.39
17	3209.04	919.74	926.39	927.94	930.63	0.024565	18.54	255.41	87.14	1.33
17	4255.06	919.74	927.34	928.67	931.79	0.022702	19.65	344.63	102.25	1.31
18	2296.87	930.49	937.7	938.33	939.92	0.01593	12.61	241.87	119.45	1.02
18	3209.04	930.49	938.29	939.06	941	0.017794	14.42	315.43	126.91	1.1
18	4255.06	930.49	938.9	939.82	942	0.018703	15.88	394.85	134.96	1.15
19	2296.87	941.28	946.86	948.52	952.13	0.042244	19.95	167.57	84.85	1.63
19	3209.04	941.28	947.82	949.08	952.42	0.032601	19.86	257.22	114.19	1.48
19	4255.06	941.28	948.57	950.27	953.13	0.029921	20.69	349.74	128.78	1.44
20	2296.87	946.84	954.79	955.23	956.37	0.010172	11.17	352.09	217.99	0.81
20	3209.04	946.84	954.81	955.81	957.84	0.019471	15.49	356.13	218.57	1.12
20	4255.06	946.84	955.1	956.32	959.02	0.025159	18.19	422.02	227.86	1.28
21	2296.87	947.22	954.48	955.48	957.32	0.020952	13.53	173.88	53.49	1.12
21	3209.04	947.22	955.12	956.67	959.08	0.029528	16.13	219.42	92.17	1.33
21	4255.06	947.22	955.84	957.46	960.33	0.030925	17.54	302.11	136.78	1.38
22	2296.87	948	953.57	955.52	958.74	0.047728	18.25	125.89	33.97	1.67
22	3209.04	948	954.73	956.8	960.45	0.041476	19.2	168.79	52.43	1.6
22	4255.06	948	955.97	957.74	961.41	0.035965	19.01	248.83	77.35	1.51
23	2296.87	949.14	956.89	958.47	960.37	0.017464	15.49	179.79	51.56	1.08
23	3209.04	949.14	958.08	959.51	961.96	0.016528	16.91	281.97	131.57	1.09
23	4255.06	949.14	958.97	960.32	962.79	0.015696	17.75	416.69	172.22	1.08
24	2296.87	954.27	960.2	962.12	964.91	0.030358	17.48	137.39	65.08	1.56
24	3209.04	954.27	961.05	962.6	966.23	0.027158	18.86	209.78	126.16	1.52
24	4255.06	954.27	961.71	963.2	966.77	0.024786	19.64	318.6	198.93	1.49
25	2296.87	967.58	973.55	974.99	977.42	0.020742	17.34	196.02	105.02	1.37
25	3209.04	967.58	974.17	975.47	978.88	0.023255	19.87	280.87	179.44	1.48
25	4255.06	967.58	974.51	975.98	980.05	0.027501	22.47	343.22	189.79	1.63
26	2296.87	978.71	983.75	985.58	989.16	0.043456	18.71	125.28	49.28	1.99
26	3209.04	978.71	984.46	986.81	991	0.039126	20.65	161.59	53.29	1.95
26	4255.06	978.71	985.21	987.54	992.64	0.034723	22.16	215.55	95.86	1.9

Seng Creek HEC-RAS Hydraulic Analysis Summary Report

River Sta.	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
26.7	2296.87	989.96	994.73	995.26	996.76	0.011802	14.46	313.06	131.82	1.21
26.7	3209.04	989.96	995.64	995.98	997.6	0.009733	14.87	440.22	146.76	1.14
26.7	4255.06	989.96	996.58	996.65	998.48	0.008167	15.19	585.19	161.02	1.07
27	1994.93	991	995.27	996.55	1000.12	0.044561	18.47	135.38	107.68	1.83
27	2815.99	991	995.78	997.12	1000.67	0.043868	19.55	191.94	115.02	1.84
27	3722.17	991	996.23	997.64	1001.21	0.043023	20.39	246.17	124.32	1.84
27.5	1994.93	998.2	1002.4	1002.93	1004.15	0.013483	12.4	283.97	176.9	1.09
27.5	2815.99	998.2	1002.88	1003.42	1004.86	0.014469	13.85	369.02	178.26	1.15
27.5	3722.17	998.2	1003.29	1003.94	1005.59	0.015916	15.39	441.88	179.42	1.23
28	1994.93	999.64	1004.37	1005.26	1007.27	0.026319	15.19	175.4	98.27	1.38
28	2815.99	999.64	1004.66	1005.83	1008.75	0.035837	18.45	204.51	99.83	1.62
28	3722.17	999.64	1004.93	1006.47	1010.34	0.045634	21.52	230.93	101.23	1.85
29	1994.93	1001.41	1006.61	1007.22	1009.57	0.020852	13.82	144.33	37.2	1.24
29	2815.99	1001.41	1007.87	1008.36	1011.2	0.01753	14.65	192.16	38.2	1.15
29	3722.17	1001.41	1009.51	1009.51	1012.81	0.013094	14.6	254.95	38.44	1
30	1994.93	1002.42	1006.32	1007.88	1011.57	0.053508	18.38	108.52	37.13	1.9
30	2815.99	1002.42	1007.49	1009.04	1012.82	0.037232	18.52	152.04	37.38	1.62
30	3722.17	1002.42	1012.78	1010.19	1013.26	0.001902	6.63	824.99	246.37	0.38
31	1994.93	1004.51	1010.22	1011.58	1013.4	0.019139	14.41	148.77	68.65	1.18
31	2815.99	1004.51	1011.24	1012.32	1014.31	0.016805	14.86	237.14	126.26	1.12
31	3722.17	1004.51	1011.96	1012.88	1014.93	0.015372	15.37	335.8	141.38	1.09
32	1994.93	1015.8	1020.83	1021.5	1023.16	0.020249	15.18	236.32	190.01	1.36
32	2815.99	1015.8	1021.21	1021.93	1023.59	0.021337	16.28	308.69	199	1.4
32	3722.17	1015.8	1021.49	1022.28	1024.22	0.024106	17.94	366.02	206.68	1.5
33	1994.93	1027.08	1031.94	1033.61	1037.38	0.04144	21.43	138.02	83.49	1.86
33	2815.99	1027.08	1032.54	1034.14	1037.86	0.037962	22.32	188.59	86.65	1.81
33	3722.17	1027.08	1033.28	1034.65	1038.38	0.032966	22.93	270.02	127.93	1.73
34	1994.93	1040.38	1047.21	1048.61	1052.27	0.022381	18.78	148.76	149.2	1.45
34	2815.99	1040.38	1047.68	1049.08	1053.21	0.025014	21.01	226.09	177.36	1.55
34	3722.17	1040.38	1047.99	1049.46	1054.49	0.029912	23.81	284.67	201.98	1.71
35	1994.93	1051.4	1058.44	1059.02	1061.53	0.015619	14.85	156.77	38.51	1.15
35	2815.99	1051.4	1059.32	1060.29	1063.53	0.01751	17.48	192	40.9	1.25
35	3722.17	1051.4	1060.41	1061.77	1065.4	0.016985	19.22	238.77	46.17	1.27
36	1994.93	1065.71	1070.56	1073.21	1079.42	0.082965	23.89	83.49	24.99	2.3
36	2815.99	1065.71	1071.8	1074.04	1079.61	0.053005	23.08	143.51	74.62	1.9
36	3722.17	1065.71	1072.54	1074.55	1080.07	0.045841	23.7	206.38	108.33	1.81
37	1994.93	1081.87	1088.42	1088.77	1090.46	0.009132	11.89	217.93	88.22	0.91
37	2815.99	1081.87	1088.82	1089.69	1091.97	0.013239	15.03	253.64	88.69	1.1
37	3722.17	1081.87	1089.26	1090.51	1093.5	0.016774	17.77	292.41	89.2	1.26

Seng Creek HEC-RAS Hydraulic Analysis Summary Report

River Sta.	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
38	1994.93	1084.29	1088.1	1089.51	1092.79	0.061247	17.37	114.85	42.2	1.86
38	2815.99	1084.29	1088.76	1090.57	1094.81	0.063182	19.75	142.61	42.32	1.9
38	3722.17	1084.29	1089.46	1091.85	1096.69	0.062479	21.58	172.49	42.45	1.89
39	1994.93	1083.64	1088.87	1090.39	1094.07	0.052922	18.3	108.99	40.48	1.97
39	2815.99	1083.64	1089.59	1091.51	1096.04	0.050162	20.39	138.13	40.88	1.95
39	3722.17	1083.64	1090.34	1092.98	1097.88	0.047036	22.04	168.86	41.29	1.92
40	1994.93	1085.52	1092.24	1092.67	1095.24	0.016216	13.91	143.45	30.18	1.12
40	2815.99	1085.52	1093.09	1094.78	1097.33	0.019839	16.53	173	45.64	1.26
40	3722.17	1085.52	1093.85	1095.72	1099.2	0.02211	18.74	224.86	86.15	1.35
41	1994.93	1094.42	1098.55	1101.44	1106.37	0.047964	22.43	88.93	27.11	2.18
41	2815.99	1094.42	1099.82	1102.41	1107.75	0.032238	22.66	128.5	38.46	1.88
41	3722.17	1094.42	1100.84	1103.19	1109.15	0.0267	23.6	187.73	82.76	1.77
42	1994.93	1101.32	1108.58	1109.03	1110.88	0.007652	12.43	186.55	68.72	0.89
42	2815.99	1101.32	1109.14	1110.05	1112.47	0.010276	15.28	225.46	70.21	1.05
42	3722.17	1101.32	1109.43	1110.94	1114.4	0.01481	18.88	245.48	70.55	1.27
43	1994.93	1101.6	1106.73	1108.27	1111.95	0.032879	18.34	108.78	30.75	1.72
43	2815.99	1101.6	1107.89	1109.56	1113.78	0.027514	19.48	144.58	30.96	1.59
43	3722.17	1101.6	1109.38	1110.94	1115.28	0.020968	19.5	190.92	31.23	1.39
44	1994.93	1101.37	1106.36	1108.3	1112.94	0.046604	20.58	96.92	29.67	2.01
44	2815.99	1101.37	1107.54	1109.64	1114.62	0.036142	21.35	131.91	29.78	1.79
44	3722.17	1101.37	1109.04	1111	1115.93	0.026313	21.06	176.75	29.92	1.53
45	1994.93	1102.28	1110.01	1111.42	1114.01	0.016328	16.28	136.6	51.89	1.22
45	2815.99	1102.28	1111.05	1112.9	1115.56	0.015663	17.89	201.01	76.71	1.23
45	3722.17	1102.28	1111.88	1113.54	1116.71	0.015489	19.25	279.37	111.69	1.24
46	1994.93	1107.25	1113.18	1114.69	1116.83	0.016642	15.85	147.32	57.32	1.3
46	2815.99	1107.25	1113.82	1115.47	1118.57	0.019292	18.54	191.19	91.87	1.43
46	3722.17	1107.25	1114.47	1116.09	1119.83	0.019836	20.33	258.43	110.16	1.48
47	1994.93	1118.67	1123.22	1125.31	1128.59	0.029211	19.05	116.5	42.35	1.77
47	2815.99	1118.67	1124.2	1126.16	1130.37	0.025046	20.7	175.71	87.39	1.7
47	3722.17	1118.67	1124.89	1126.86	1131.32	0.023334	21.93	243.27	118.85	1.68
48	1440.13	1128.37	1133.49	1134.3	1135.72	0.014471	12.31	147.34	100.92	1.09
48	2154.9	1128.37	1134.35	1134.97	1136.71	0.013173	13.4	251.22	136.44	1.08
48	2872.14	1128.37	1134.94	1135.73	1137.45	0.013054	14.41	333.66	143.79	1.09
49	1440.13	1131.39	1135.09	1136.06	1138.73	0.12713	21.68	113.72	80.64	2.5
49	2154.9	1131.39	1135.57	1136.74	1139.56	0.122122	22.76	153.09	85.22	2.46
49	2872.14	1131.39	1136.05	1137.27	1140.12	0.10743	22.76	195.36	89.99	2.33
50	1440.13	1131.25	1137.51	1138.59	1140.33	0.024645	14.79	143.54	75.23	1.23
50	2154.9	1131.25	1138.45	1139.41	1141.04	0.021917	15.23	230.58	115.7	1.18
50	2872.14	1131.25	1139.05	1139.86	1141.55	0.020329	15.78	331.08	193.37	1.16

Seng Creek HEC-RAS Hydraulic Analysis Summary Report

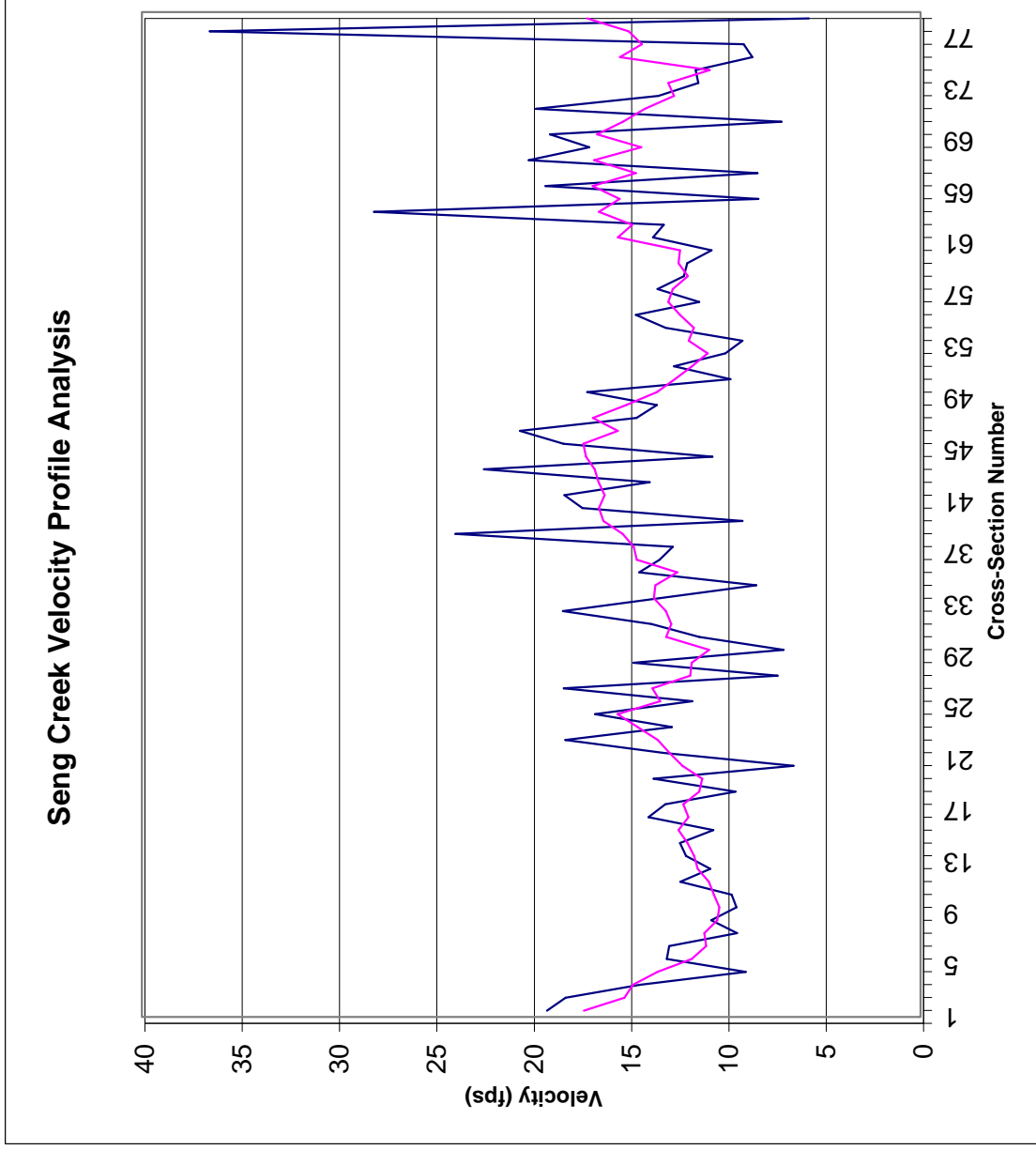
River Sta.	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
51	1440.13	1135.28	1140.28	1140.99	1142.73	0.026332	14.75	157.46	136.88	1.32
51	2154.9	1135.28	1140.64	1141.45	1143.48	0.030346	16.81	209.13	158.53	1.44
51	2872.14	1135.28	1140.94	1141.86	1144.1	0.032873	18.31	257.8	164.87	1.52
52	1440.13	1148.87	1152.99	1153.68	1155.65	0.024438	13.09	110.06	37.44	1.34
52	2154.9	1148.87	1153.83	1155.18	1157.38	0.024499	15.14	144.11	49.98	1.39
52	2872.14	1148.87	1154.49	1156.06	1158.75	0.024768	16.73	185.22	73.53	1.43
53	1440.13	1163.6	1167.63	1168.66	1170.95	0.044044	14.63	98.44	44.4	1.73
53	2154.9	1163.6	1168.29	1169.86	1172.64	0.043304	16.73	128.97	49.33	1.77
53	2872.14	1163.6	1168.84	1170.58	1174.13	0.043312	18.5	159.2	61.75	1.82
54	1440.13	1179.14	1184.4	1185.41	1187.64	0.0258	15.37	126.7	64.35	1.37
54	2154.9	1179.14	1185.21	1186.39	1188.92	0.024949	17.16	180.97	68.95	1.39
54	2872.14	1179.14	1185.94	1187.2	1189.96	0.023561	18.37	233.96	75.51	1.39
55	1440.13	1188.97	1192.85	1194.1	1196.91	0.046785	18.01	106.49	69.59	1.83
55	2154.9	1188.97	1193.45	1194.78	1197.99	0.046601	19.79	154.52	91.42	1.87
55	2872.14	1188.97	1193.87	1195.3	1198.91	0.048641	21.42	196.36	105.26	1.93
56	1440.13	1193.08	1196.06	1196.82	1198.54	0.067778	15.51	118.41	76.01	2.04
56	2154.9	1193.08	1196.57	1197.53	1199.58	0.065018	16.74	159.05	83.32	2.05
56	2872.14	1193.08	1197	1198.12	1200.51	0.060189	18	196.92	95.58	2.02
57	1440.13	1190.02	1196.41	1197.26	1199.47	0.046239	16.53	120.12	63.3	1.5
57	2154.9	1190.02	1197.09	1198.18	1200.42	0.045674	17.75	165.96	74.44	1.51
57	2872.14	1190.02	1197.7	1198.82	1201.17	0.041612	18.49	214.4	82.91	1.47
58	1440.13	1191.02	1197.41	1198.32	1200.15	0.025109	14.57	134.13	75.01	1.27
58	2154.9	1191.02	1198.02	1198.98	1201.1	0.0262	16.23	191.48	113.09	1.32
58	2872.14	1191.02	1198.47	1199.47	1201.83	0.027183	17.57	242.19	114.28	1.37
59	1440.13	1196.35	1201.15	1202.4	1205	0.036195	16.2	104.81	74.44	1.62
59	2154.9	1196.35	1201.77	1203.1	1206.25	0.03791	18.24	156.78	91.28	1.69
59	2872.14	1196.35	1202.28	1203.67	1207.01	0.03706	19.42	206.2	100.47	1.7
60	1440.13	1209.62	1214.77	1215.17	1217.47	0.018085	13.19	109.22	26.12	1.14
60	2154.9	1209.62	1215.94	1217.58	1219.53	0.019624	15.23	146.73	54.82	1.2
60	2872.14	1209.62	1216.64	1218.25	1221	0.021921	17.12	193.45	79.61	1.28
61	1440.13	1223.61	1226.97	1229.73	1239.21	0.154993	28.08	51.29	21.67	3.22
61	2154.9	1223.61	1228.11	1231.21	1240.02	0.105268	27.7	77.8	24.5	2.74
61	2872.14	1223.61	1229.13	1233.61	1241.09	0.081021	27.76	103.47	25.82	2.44
62	1440.13	1233.69	1240.89	1241.34	1242.58	0.012181	11.48	172.94	91.83	0.92
62	2154.9	1233.69	1241.19	1242.07	1244.01	0.019613	15.17	200.62	91.83	1.18
62	2872.14	1233.69	1241.61	1242.67	1245.05	0.022642	17.19	239.6	91.83	1.29
63	1440.13	1235.82	1240.58	1242.8	1246.34	0.053755	19.27	74.75	23.08	1.89
63	2154.9	1235.82	1241.83	1243.83	1248.14	0.041143	20.28	113.2	52.15	1.72
63	2872.14	1235.82	1242.59	1244.67	1249.21	0.037059	21.44	161.69	67	1.68



Seng Creek HEC-RAS Hydraulic Analysis Summary Report

River Sta.	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
64	1440.13	1245.02	1252.44	1252.44	1253.73	0.019965	9.65	171.93	66.28	0.73
64	2154.9	1245.02	1253.36	1253.36	1254.84	0.019875	10.69	238.38	79.71	0.75
64	2872.14	1245.02	1254.06	1254.06	1255.72	0.020058	11.52	297.93	88.74	0.77
65	1440.13	1259.01	1262.98	1264.91	1269.28	0.057015	20.13	71.53	21.58	1.95
65	2154.9	1259.01	1264.09	1266.5	1271.91	0.054274	22.45	96	22.81	1.93
65	2872.14	1259.01	1264.91	1267.9	1274.57	0.0574	24.95	115.11	23.73	2
66	1440.13	1275.53	1280.1	1281.4	1284.6	0.036196	17.02	84.6	22.01	1.53
66	2154.9	1275.53	1281.27	1283.87	1287.13	0.037107	19.44	110.88	23.03	1.56
66	2872.14	1275.53	1282.63	1284.95	1288.85	0.03122	20.05	146.34	35.39	1.45
67	1440.13	1276.3	1282.06	1284.89	1287.68	0.043824	19.03	75.69	16.09	1.55
67	2154.9	1276.3	1284.08	1286.11	1289.52	0.030811	19.01	130.31	52.21	1.33
67	2872.14	1276.3	1284.84	1286.84	1291.11	0.033877	21.1	181	80.87	1.42
68	1440.13	1278.51	1287.4	1287.77	1288.88	0.008029	10.38	201.47	111.31	0.72
68	2154.9	1278.51	1287.3	1288.52	1290.88	0.019422	16.03	191.12	106.93	1.11
68	2872.14	1278.51	1287.54	1289.1	1292.75	0.028112	19.72	218.84	130.76	1.35
69	1440.13	1281.25	1284.93	1286.75	1290.99	0.064038	19.76	72.88	25.4	2.06
69	2154.9	1281.25	1285.88	1289.06	1293.41	0.059773	22.01	97.91	26.8	2.03
69	2872.14	1281.25	1286.78	1290.15	1295.33	0.05546	23.47	122.37	28.09	1.98
70	1440.13	1300.8	1306.5	1307.59	1309.91	0.023203	14.96	106.99	43.38	1.26
70	2154.9	1300.8	1307.67	1308.8	1311.59	0.022359	16.52	164.32	55.56	1.27
70	2872.14	1300.8	1308.59	1310.12	1312.86	0.021954	17.69	220.73	67.49	1.28
71	713	1322.33	1324.92	1325.78	1327.87	0.082986	16.41	62.51	44.97	2.25
71	1144.9	1322.33	1325.43	1326.57	1329.31	0.082	19.02	86.29	47.05	2.31
71	1511.11	1322.33	1325.77	1327.14	1330.53	0.084012	21.18	102.65	51.37	2.39
72	377.87	1351.62	1354.43	1355.07	1356.78	0.026692	12.43	32.71	15.83	1.4
72	594.35	1351.62	1355.16	1356.12	1358.45	0.026711	14.81	45.02	17.84	1.47
72	786.46	1351.62	1355.72	1356.92	1359.72	0.026445	16.43	55.45	19.37	1.5
73	377.87	1378.75	1380.03	1380.58	1381.9	0.112258	13.44	43.72	52.82	2.23
73	594.35	1378.75	1380.37	1381.06	1382.63	0.099211	15.09	62.59	57.42	2.2
73	786.46	1378.75	1380.63	1381.41	1383.18	0.092538	16.26	78.07	60.94	2.18
74	377.87	1403.44	1406.2	1406.41	1407.51	0.026564	9.22	41.55	22.96	1.17
74	594.35	1403.44	1406.72	1407.17	1408.71	0.029131	11.34	53.89	24.11	1.28
74	786.46	1403.44	1407.11	1407.77	1409.67	0.031099	12.91	63.32	24.96	1.35
75	377.87	1434.13	1435.76	1437.98	1458.98	1.685813	39.91	10.35	13.81	8.06
75	594.35	1434.13	1436.14	1439.06	1462.07	1.104783	42.21	15.68	14.57	6.97
75	786.46	1434.13	1436.46	1439.86	1463.6	0.827707	43.26	20.57	15.23	6.3
76	377.87	1479.73	1481.1	1481.1	1481.62	0.013506	5.74	65.84	65.66	1.01
76	594.35	1479.73	1481.47	1481.47	1482.14	0.012271	6.6	90.02	67.59	1.01
76	786.46	1479.73	1481.75	1481.75	1482.55	0.011561	7.19	109.43	69.09	1.01

Cross-Section ID	Storm Event	Mean
1	19.19	17.29
2	18.24	15.21
3	14.43	14.77
4	8.98	13.52
5	13.03	11.75
6	12.91	11.02
7	9.42	11.11
8	10.75	10.45
9	9.46	10.33
10	9.7	10.61
11	12.34	10.87
12	10.8	11.45
13	12.05	11.64
14	12.35	11.97
15	10.65	12.43
16	13.98	11.92
17	13.11	12.19
18	9.5	11.36
19	13.71	11.21
20	6.52	12.24
21	13.21	12.89
22	18.25	13.50
23	12.78	14.54
24	16.72	15.56
25	11.72	13.38
26	18.33	13.77
26.7	7.34	11.83
27	14.74	11.76
27.5	7.03	10.86
28	11.37	13.07
29	13.82	12.80
30	18.38	13.08
31	13.41	13.70
32	8.44	13.62
33	14.45	12.49
34	13.41	14.58
35	12.73	14.73
36	23.89	15.31
37	9.15	16.29



38	17.37	16.52
39	18.3	16.23
40	13.91	16.54
41	22.43	16.73
42	10.69	17.19
43	18.34	17.33
44	20.58	15.55
45	14.6	16.84
46	13.54	15.12
47	17.12	13.54
48	9.77	12.62
49	12.66	11.75
50	10.03	10.94
51	9.15	11.91
52	13.09	11.65
53	14.63	12.35
54	11.37	12.95
55	13.52	12.73
56	12.16	11.96
57	11.99	12.43
58	10.74	12.36
59	13.74	15.55
60	13.19	14.82
61	28.08	16.52
62	8.33	15.45
63	19.27	16.84
64	8.38	14.63
65	20.13	16.77
66	17.02	14.34
67	19.03	16.62
68	7.15	15.28
69	19.76	14.16
70	13.46	12.67
71	11.41	12.96
72	11.55	10.83
73	8.64	15.44
74	9.09	14.31
75	36.52	15.00
76	5.74	17.12
Mean Vel	13.68	





XS003 &  
XS004



XS003 &  
XS004











XS008



XS008



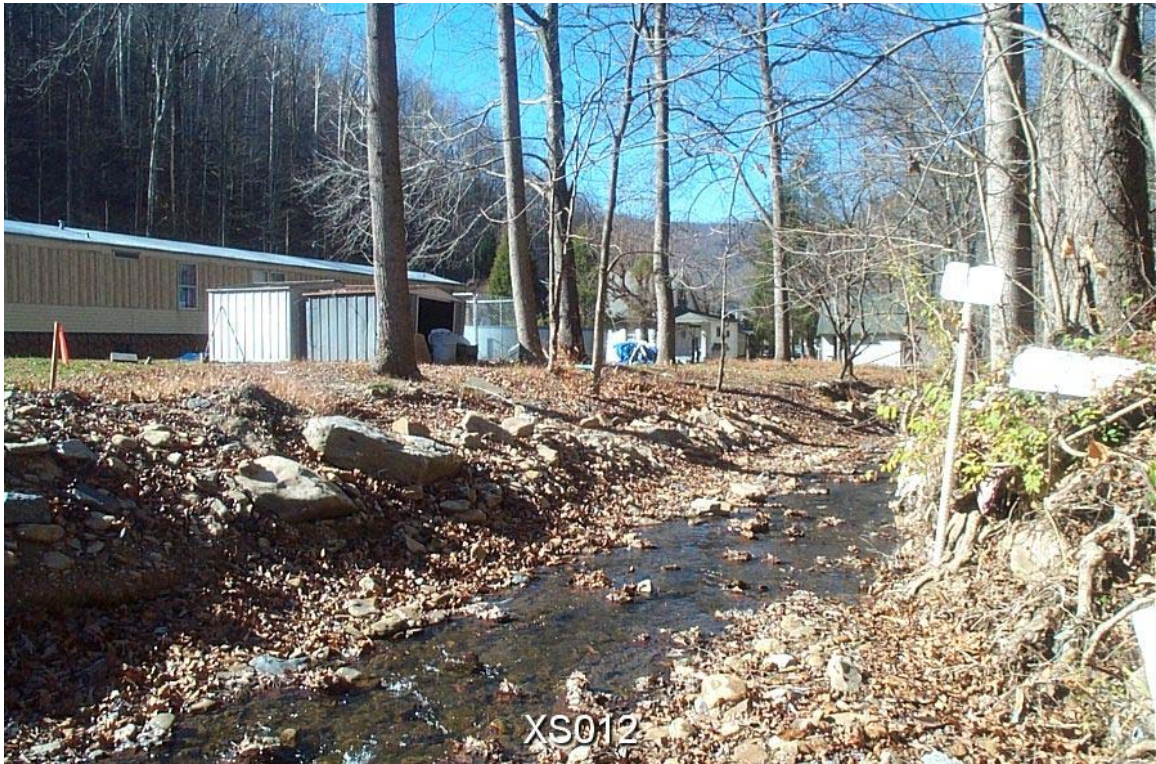
XS009



XS009











XS014



XS014







XS016



XS016

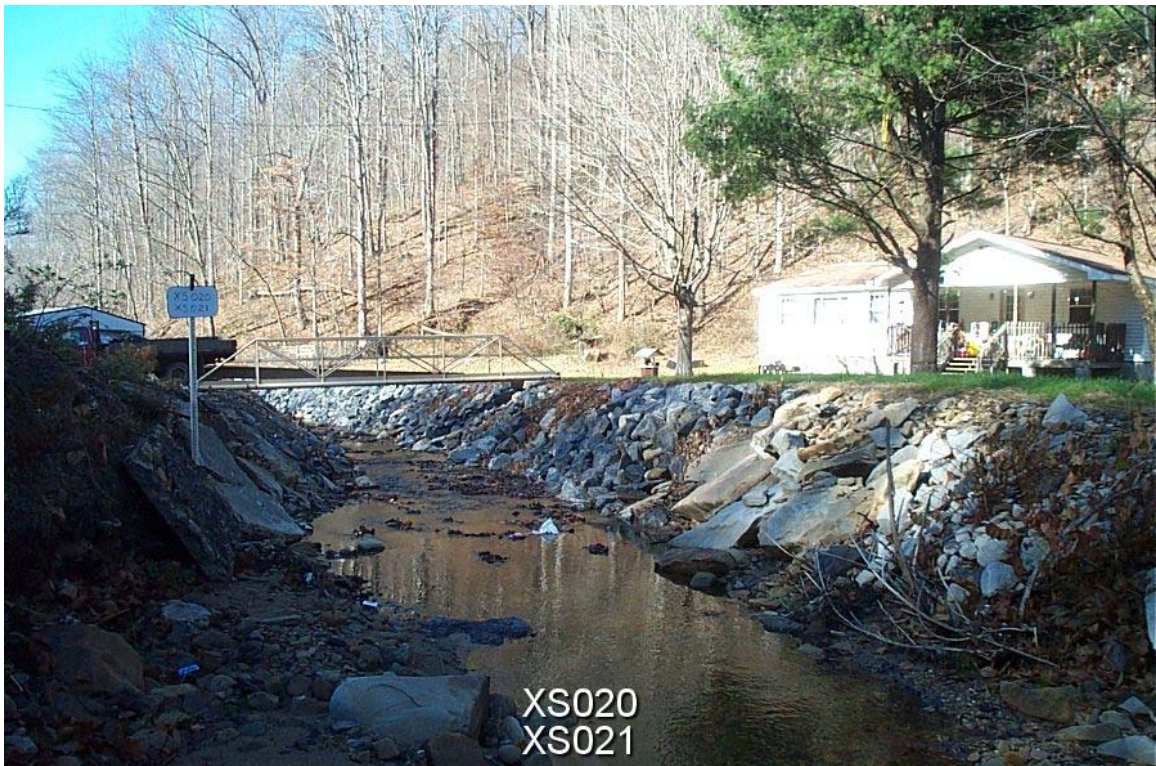


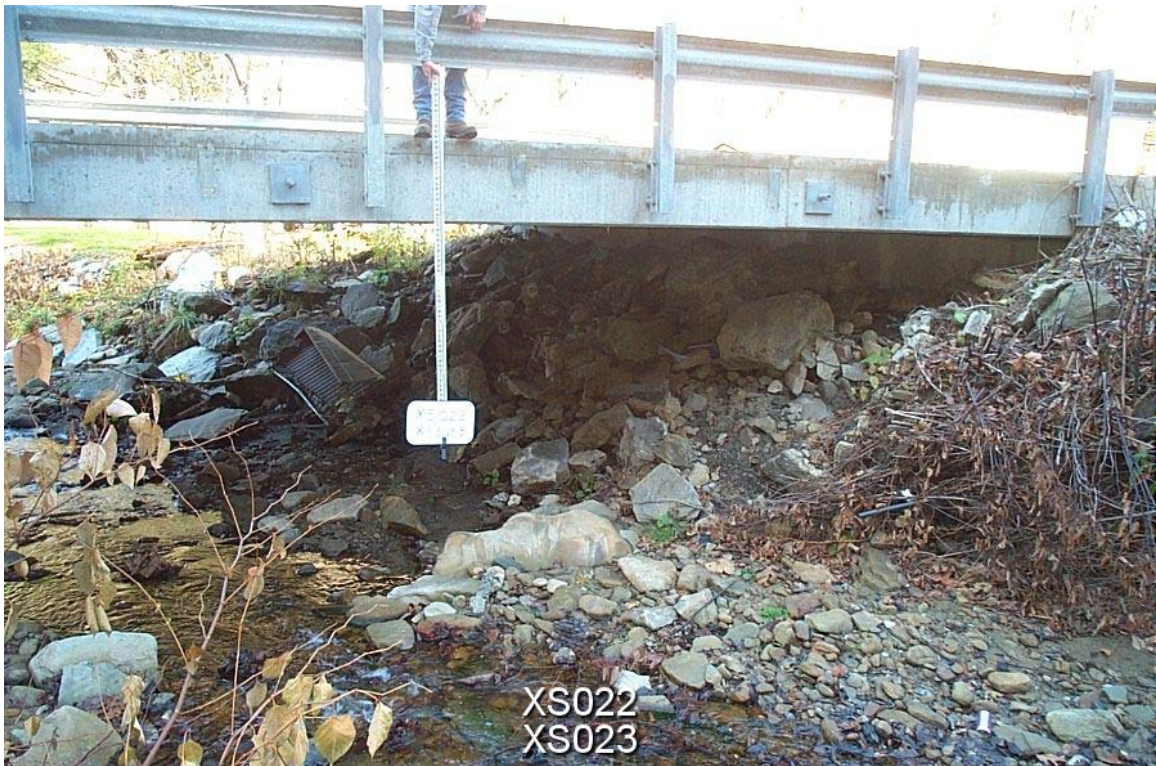
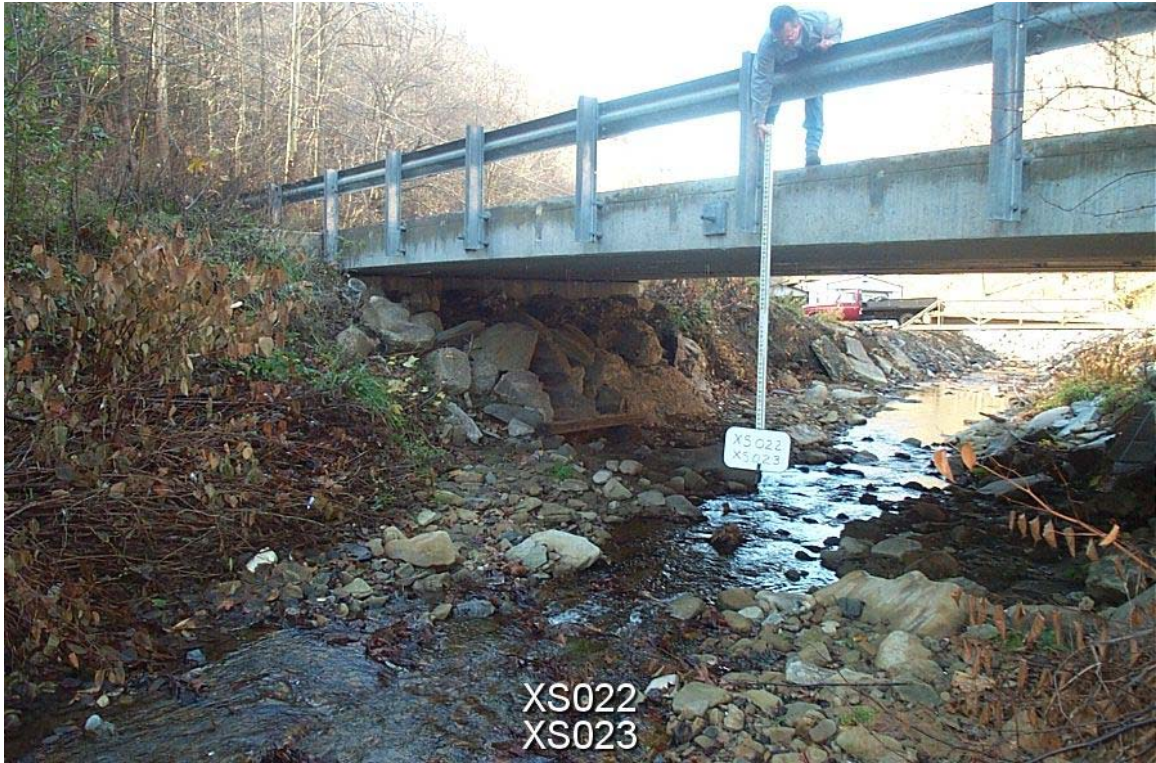
XS018



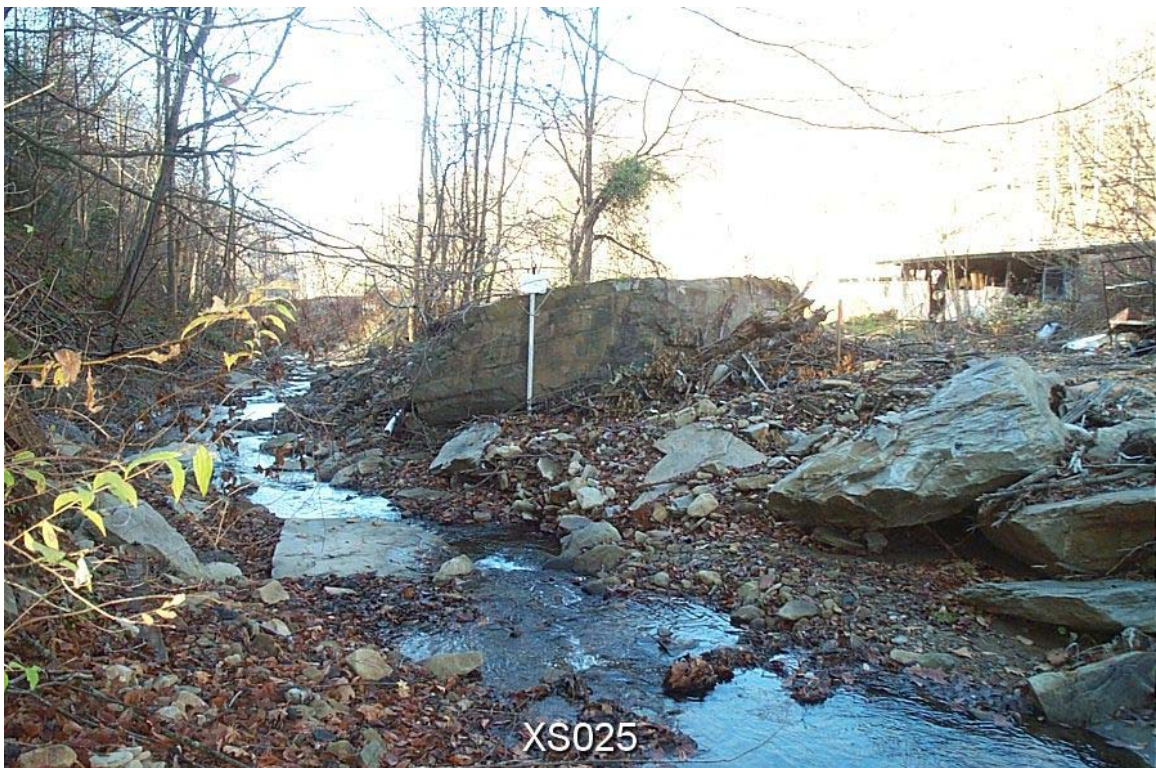
XS018













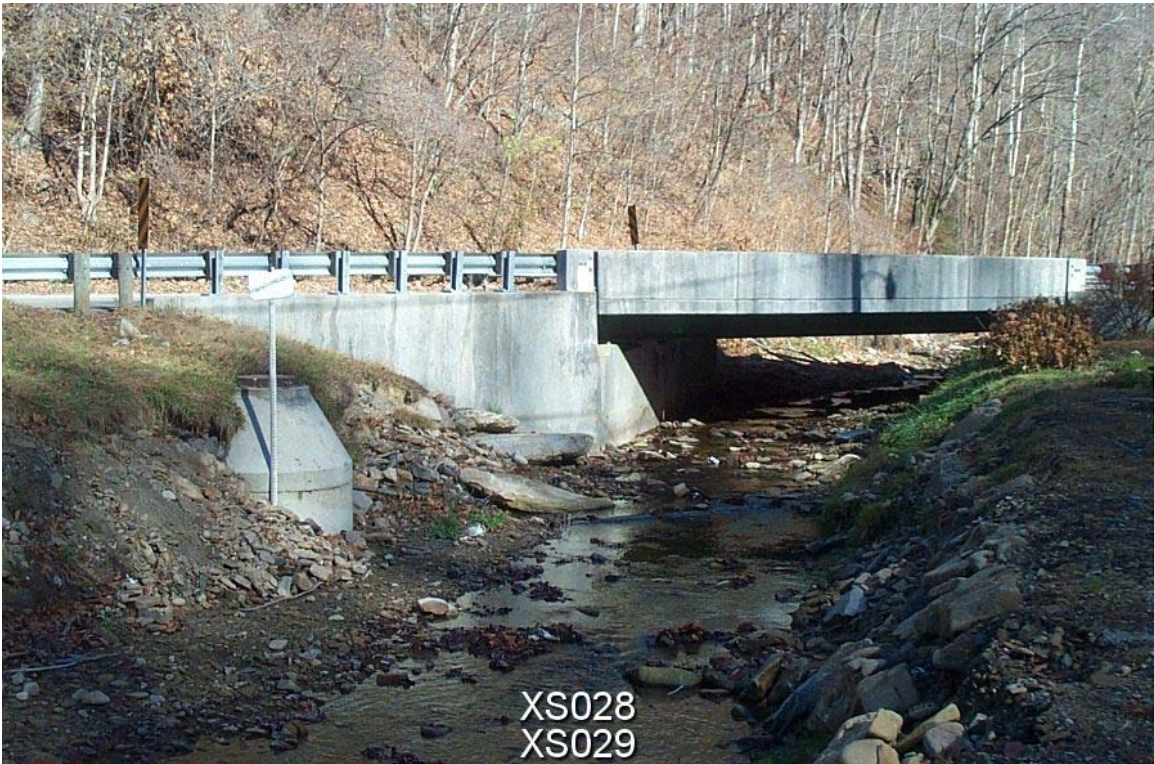




XS027



XS027







XS032

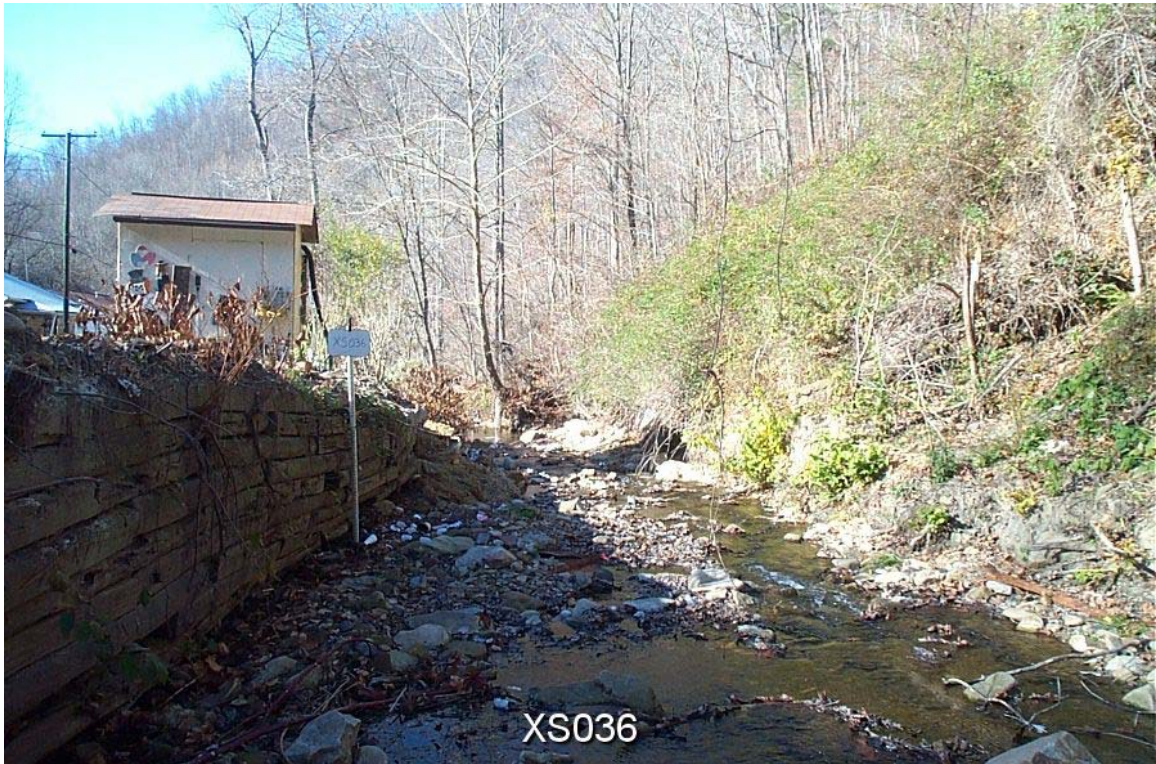


XS032













XS036

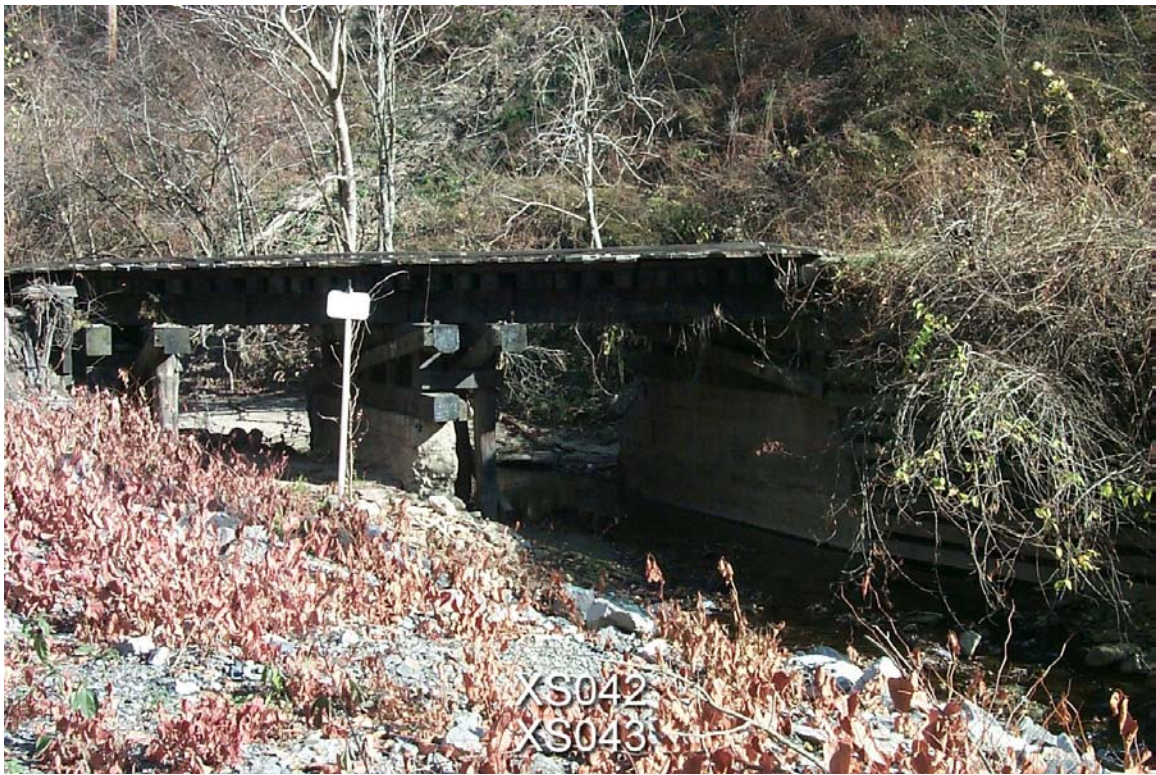
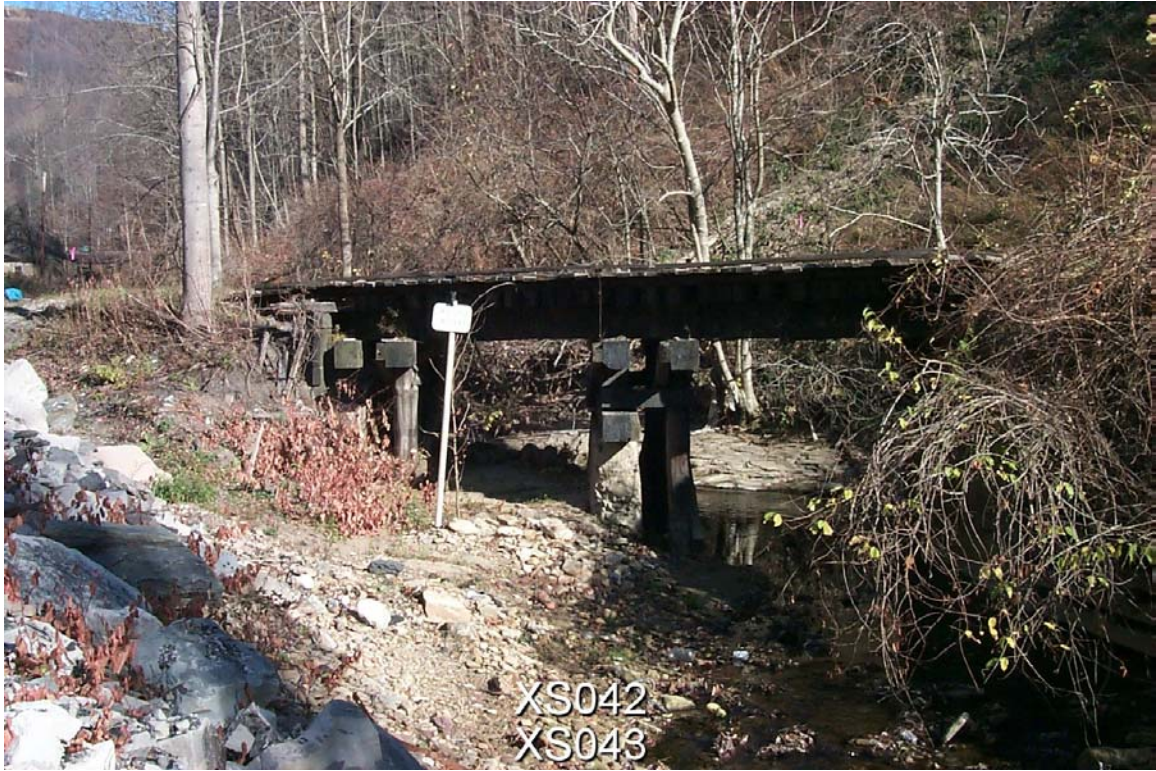


XS037  
XS038





























































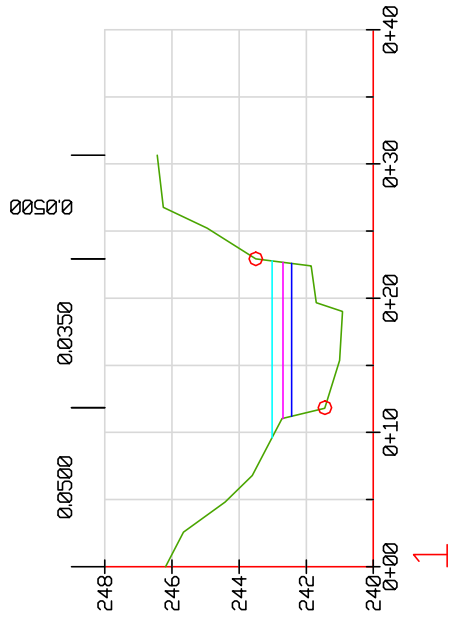












Seng Creek

Profile: Storm Event

Flow Discharge = 73.48 cms

Computed Water Surface = 242.43 m

Profile: 25 yr Storm

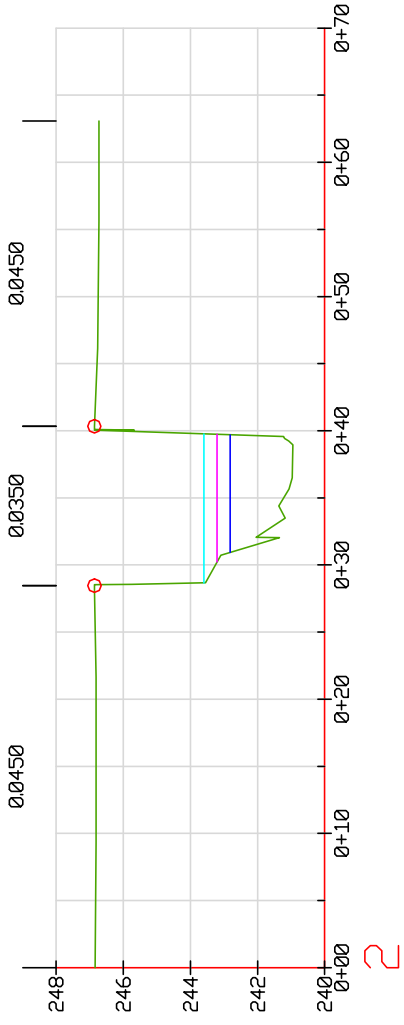
Flow Discharge = 98.17 cms

Computed Water Surface = 242.70 m

Profile: 100 yr Storm

Flow Discharge = 130.88 cms

Computed Water Surface = 243.02 m



2

### Seng Creek

Profile: Storm Event

Flow Discharge = 73.48 cms

Computed Water Surface = 242.82 m

Profile: 25 yr Storm

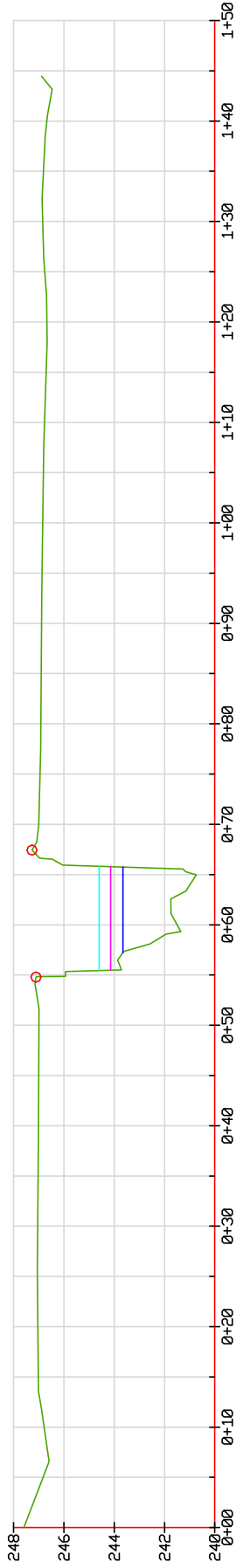
Flow Discharge = 98.17 cms

Computed Water Surface = 243.21 m

Profile: 100 yr Storm

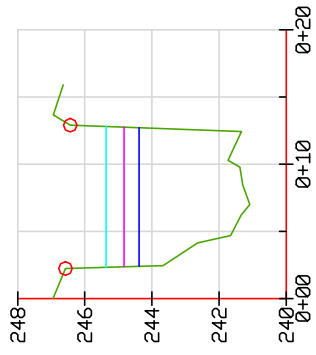
Flow Discharge = 130.88 cms

Computed Water Surface = 243.60 m



Seng Creek

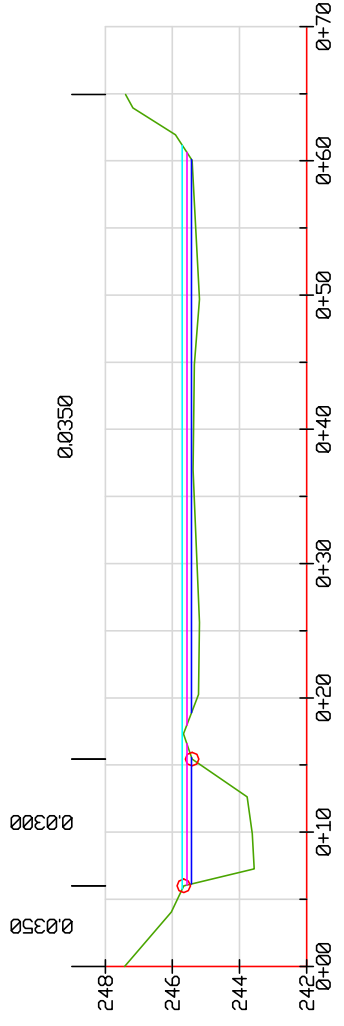
- Profile: Storm Event
- Flow Discharge = 73.48 cms
- Computed Water Surface = 243.66 m
- Profile: 25 yr Storm
- Flow Discharge = 98.17 cms
- Computed Water Surface = 244.15 m
- Profile: 100 yr Storm
- Flow Discharge = 130.88 cms
- Computed Water Surface = 244.60 m



4

#### Seng Creek

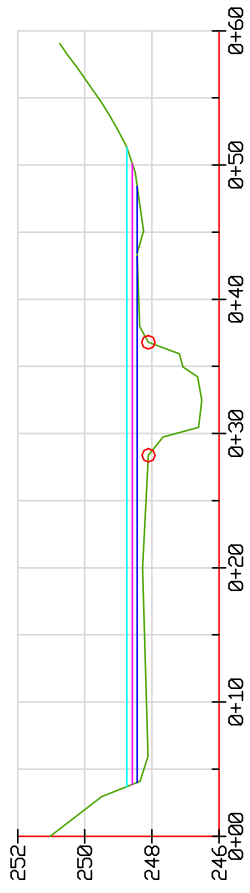
- Profile: Storm Event  
Flow Discharge = 73.48 cms  
Computed Water Surface = 244.38 m
- Profile: 25 yr Storm  
Flow Discharge = 98.17 cms  
Computed Water Surface = 244.83 m
- Profile: 100 yr Storm  
Flow Discharge = 130.88 cms  
Computed Water Surface = 245.37 m



5 Observed HWM = 245.41 m (805.15 ft)

Seng Creek

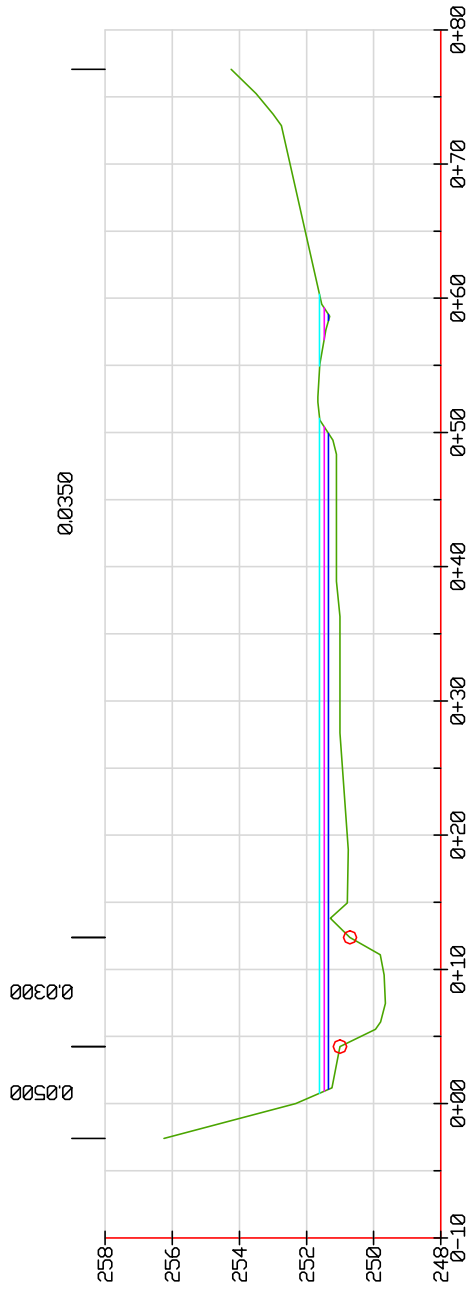
- Profile: Storm Event  
Flow Discharge = 73.48 cms  
Computed Water Surface = 245.43 m
- Profile: 25 yr Storm  
Flow Discharge = 98.17 cms  
Computed Water Surface = 245.57 m
- Profile: 100 yr Storm  
Flow Discharge = 130.88 cms  
Computed Water Surface = 245.71 m



6 Observed HWM = 248.35 m (814.81 ft)

Seng Creek

- Profile: Storm Event  
Flow Discharge = 7348 cms  
Computed Water Surface = 248.44 m
- Profile: 25 yr Storm  
Flow Discharge = 98.17 cms  
Computed Water Surface = 248.59 m
- Profile: 100 yr Storm  
Flow Discharge = 13088 cms  
Computed Water Surface = 248.74 m



Observed HWM = 251.11 m (823.85 ft)

Seng Creek

Profile: Storm Event

Flow Discharge = 73.48 cms

Computed Water Surface = 251.35 m

Profile: 25 yr Storm

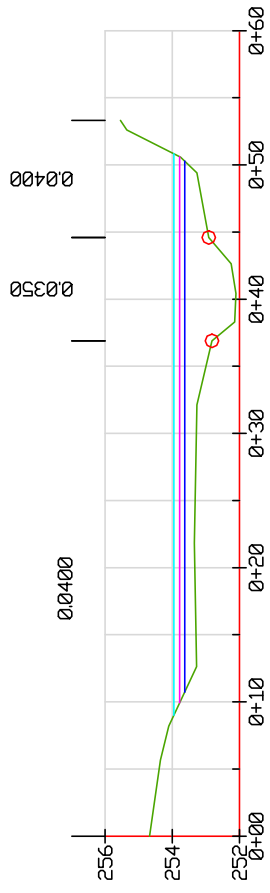
Flow Discharge = 98.17 cms

Computed Water Surface = 251.48 m

Profile: 100 yr Storm

Flow Discharge = 130.88 cms

Computed Water Surface = 251.61 m



Observed HWM = 253.74 m (832.51 ft)

### Seng Creek

Profile: Storm Event

Flow Discharge = 73.48 cms

Computed Water Surface = 253.64 m

Profile: 25 yr Storm

Flow Discharge = 98.17 cms

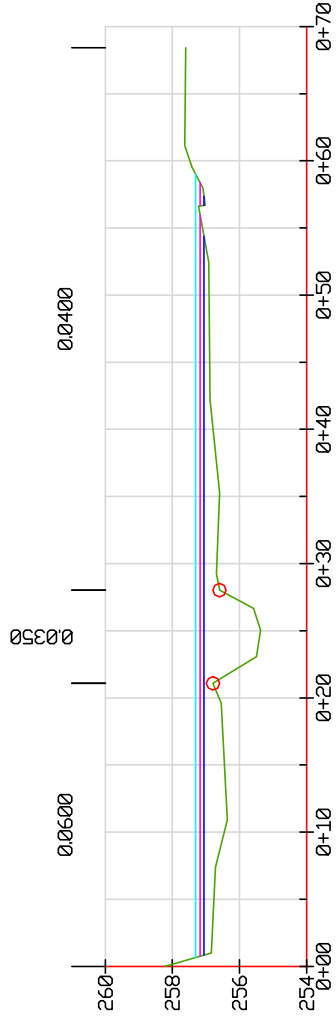
Computed Water Surface = 253.78 m

Profile: 100 yr Storm

Flow Discharge = 130.88 cms

Computed Water Surface = 253.96 m





9

Observed HWM = 257.09 m (843.47 ft)

Seng Creek

Profile: Storm Event

Flow Discharge = 73.48 cms

Computed Water Surface = 257.06 m

Profile: 25 yr Storm

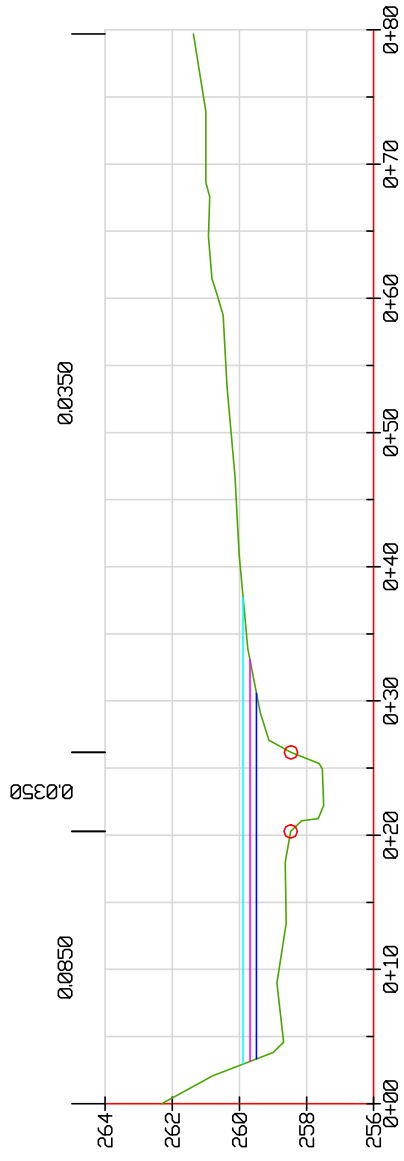
Flow Discharge = 98.17 cms

Computed Water Surface = 257.18 m

Profile: 100 yr Storm

Flow Discharge = 130.88 cms

Computed Water Surface = 257.30 m



10

Observed HWM = 260.88 m (855.91 ft.)

Possible influence by debris blockage during flood due to bridge

#### Seng Creek

Profile: Storm Event

Flow Discharge = 73.48 cms

Computed Water Surface = 259.49 m

Profile: 25 yr Storm

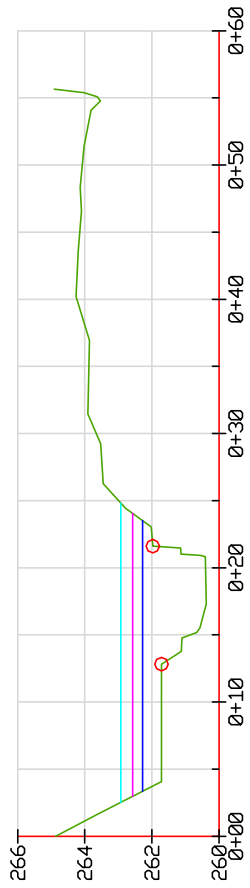
Flow Discharge = 98.17 cms

Computed Water Surface = 259.68 m

Profile: 100 yr Storm

Flow Discharge = 130.88 cms

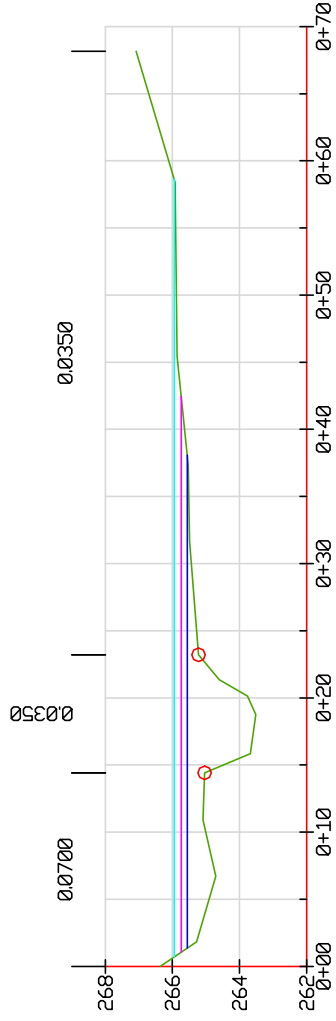
Computed Water Surface = 259.89 m



Observed HWM = 262.79 m (862.16 ft)

Seng Creek

- Profile: Storm Event
  - Flow Discharge = 7348 cms
  - Computed Water Surface = 262.28 m
- Profile: 25 yr Storm
  - Flow Discharge = 98.17 cms
  - Computed Water Surface = 262.57 m
- Profile: 100 yr Storm
  - Flow Discharge = 13088 cms
  - Computed Water Surface = 262.93 m



12

Observed HWM = 265.52 m (871.14 ft)

Seng Creek

Profile: Storm Event

Flow Discharge = 73.48 cms

Computed Water Surface = 265.56 m

Profile: 25 yr Storm

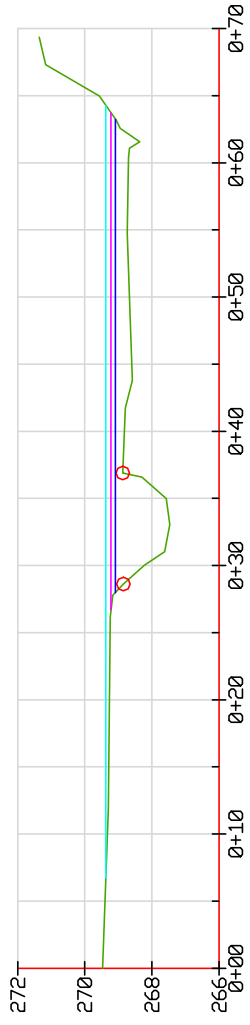
Flow Discharge = 98.17 cms

Computed Water Surface = 265.74 m

Profile: 100 yr Storm

Flow Discharge = 130.88 cms

Computed Water Surface = 265.95 m



13

Observed HWM = 269.06 m (882.75 ft)

Seng Creek

Profile: Storm Event

Flow Discharge = 73.48 cms

Computed Water Surface = 269.09 m

Profile: 25 yr Storm

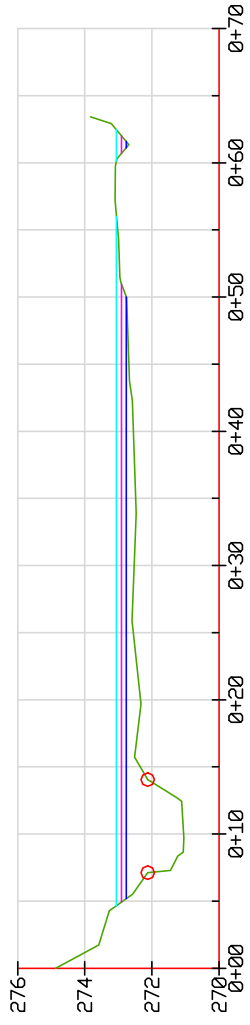
Flow Discharge = 98.17 cms

Computed Water Surface = 269.22 m

Profile: 100 yr Storm

Flow Discharge = 130.88 cms

Computed Water Surface = 269.37 m



14

Observed HWM = 272.58 m (894.29 ft)

#### Seng Creek

Profile: Storm Event

Flow Discharge = 7348 cms

Computed Water Surface = 272.76 m

Profile: 25 yr Storm

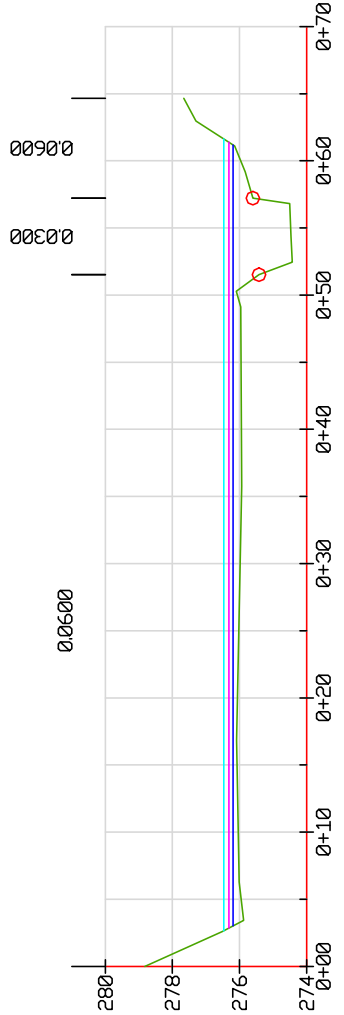
Flow Discharge = 98.17 cms

Computed Water Surface = 272.91 m

Profile: 100 yr Storm

Flow Discharge = 13088 cms

Computed Water Surface = 273.06 m

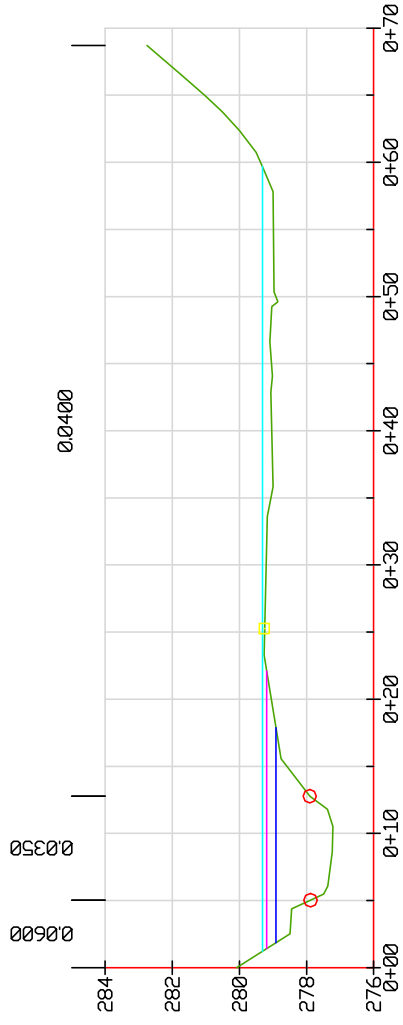


15

Profile Adjustment  
 Observed HWM = 276.16 m (905.99 ft)

Seng Creek

- Profile: Storm Event  
 Flow Discharge = 6504 cms  
 Computed Water Surface = 276.19 m
- Profile: 25 yr Storm  
 Flow Discharge = 9087 cms  
 Computed Water Surface = 276.32 m
- Profile: 100 yr Storm  
 Flow Discharge = 12049 cms  
 Computed Water Surface = 276.47 m



16

Observed HWM = 278.75 m (914.55 ft)

Seng Creek

Profile: Storm Event

Flow Discharge = 65.04 cms

Computed Water Surface = 278.91 m

Profile: 25 yr Storm

Flow Discharge = 90.87 cms

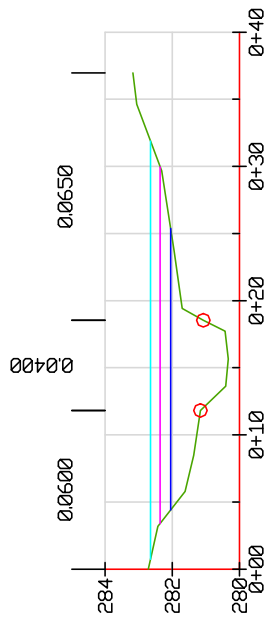
Computed Water Surface = 279.19 m

Profile: 100 yr Storm

Flow Discharge = 120.49 cms

Computed Water Surface = 279.31 m

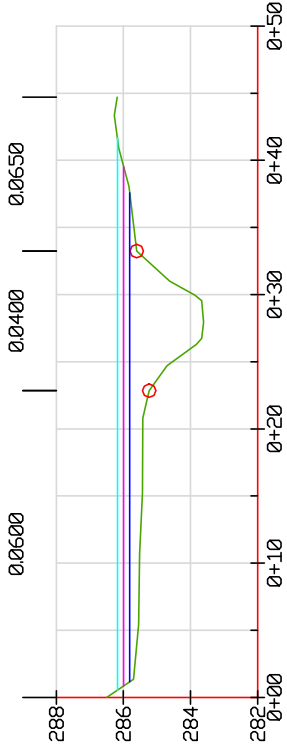




17  
 Observed HWM = 282.33 m (926.25 ft)

Seng Creek

- Profile: Storm Event
  - Flow Discharge = 6504 cms
  - Computed Water Surface = 282.05 m
- Profile: 25 yr Storm
  - Flow Discharge = 9087 cms
  - Computed Water Surface = 282.37 m
- Profile: 100 yr Storm
  - Flow Discharge = 12049 cms
  - Computed Water Surface = 282.65 m



18

Observed HWM = 286.13 m (938.76 ft)

Seng Creek

Profile: Storm Event

Flow Discharge = 6504 cms

Computed Water Surface = 285.81 m

Profile: 25 yr Storm

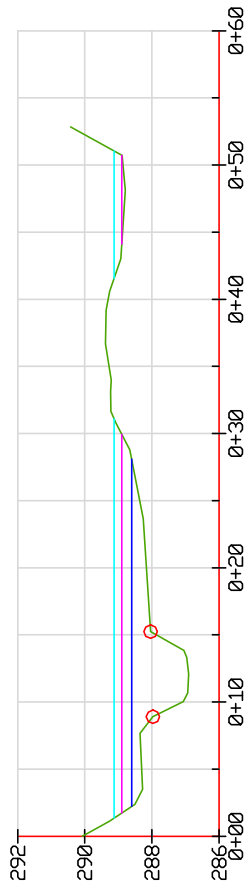
Flow Discharge = 9087 cms

Computed Water Surface = 285.99 m

Profile: 100 yr Storm

Flow Discharge = 12049 cms

Computed Water Surface = 286.18 m



19

Seng Creek

Profile: Storm Event

Flow Discharge = 6504 cms

Computed Water Surface = 288.60 m

Profile: 25 yr Storm

Flow Discharge = 9087 cms

Computed Water Surface = 288.90 m

Profile: 100 yr Storm

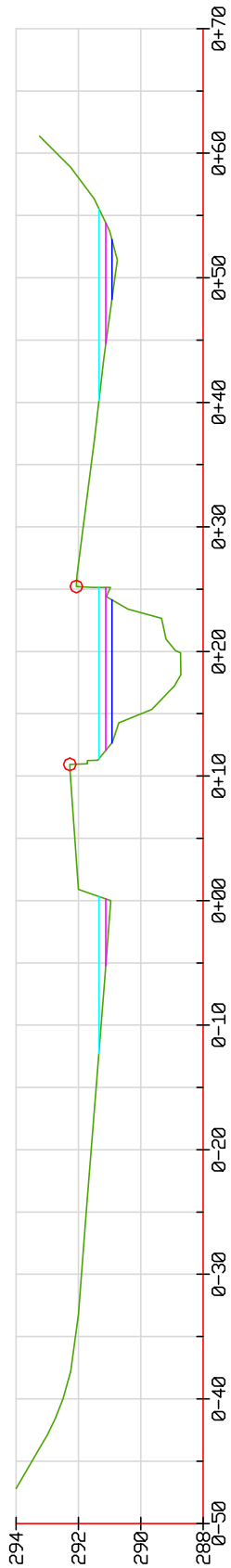
Flow Discharge = 12049 cms

Computed Water Surface = 289.13 m



Seng Creek

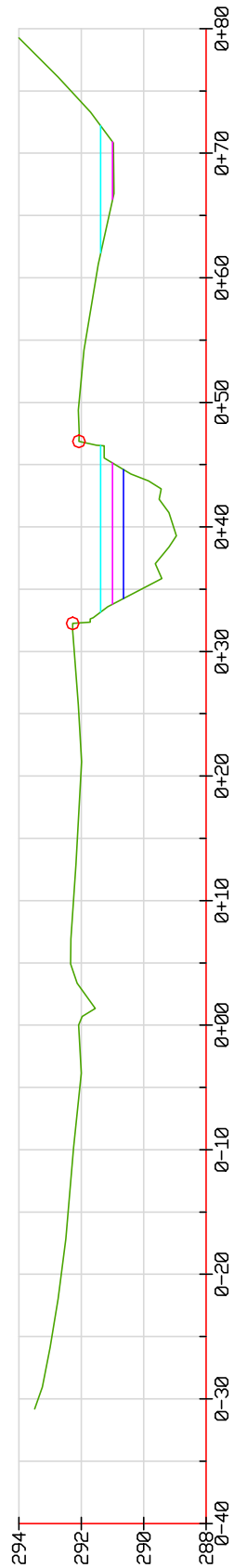
- Profile: Storm Event  
Flow Discharge = 65.04 cms  
Computed Water Surface = 291.02 m
- Profile: 25 yr Storm  
Flow Discharge = 90.87 cms  
Computed Water Surface = 291.03 m
- Profile: 100 yr Storm  
Flow Discharge = 120.49 cms  
Computed Water Surface = 291.12 m



21

Seng Creek

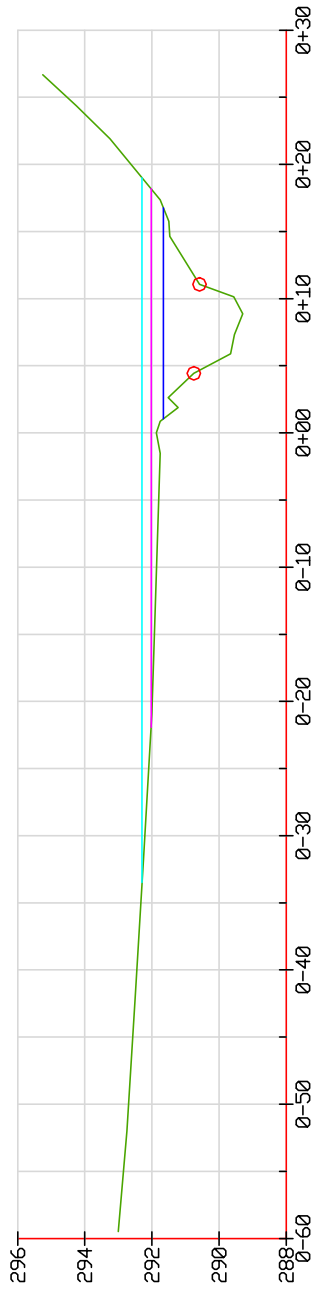
- Profile: Storm Event  
Flow Discharge = 6504 cms  
Computed Water Surface = 290.93 m
- Profile: 25 yr Storm  
Flow Discharge = 9087 cms  
Computed Water Surface = 291.12 m
- Profile: 100 yr Storm  
Flow Discharge = 12049 cms  
Computed Water Surface = 291.34 m



22

Seng Creek

- Profile: Storm Event
- Flow Discharge = 6504 cms
- Computed Water Surface = 290.65 m
- Profile: 25 yr Storm
- Flow Discharge = 9087 cms
- Computed Water Surface = 291.00 m
- Profile: 100 yr Storm
- Flow Discharge = 12049 cms
- Computed Water Surface = 291.38 m

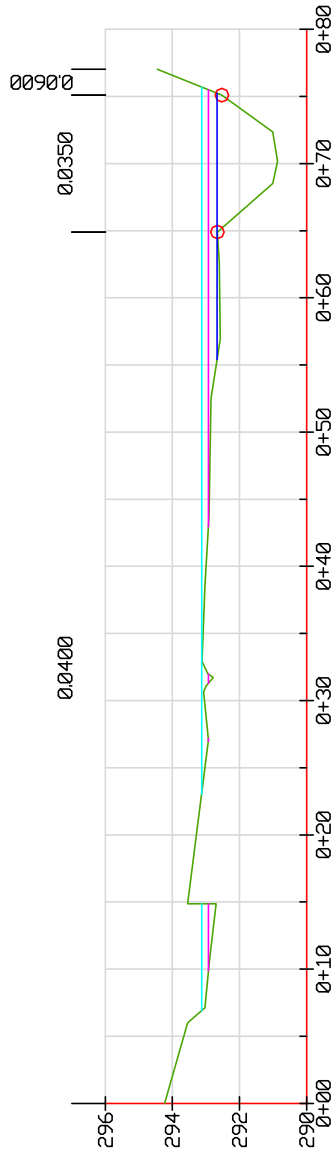


23

Observed HWM = 292.53 m (959.73 ft)

Seng Creek

- Profile: Storm Event  
Flow Discharge = 65,04 cms  
Computed Water Surface = 291.66 m
- Profile: 25 yr Storm  
Flow Discharge = 90,87 cms  
Computed Water Surface = 292.02 m
- Profile: 100 yr Storm  
Flow Discharge = 120,49 cms  
Computed Water Surface = 292.29 m

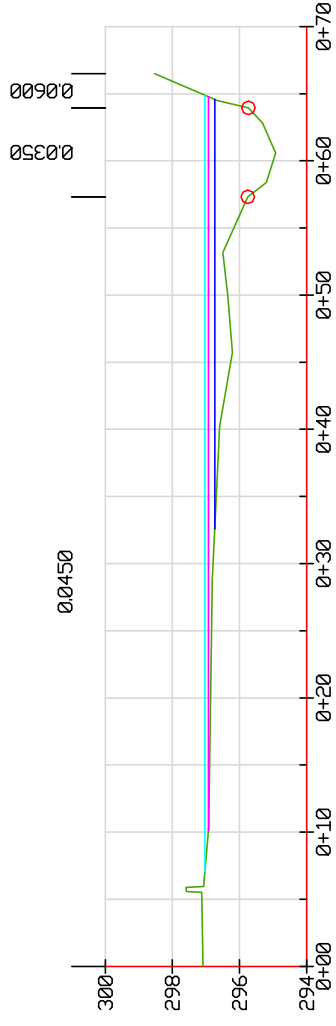


24

Seng Creek

- Profile: Storm Event
- Flow Discharge = 65.04 cms
- Computed Water Surface = 292.67 m
- Profile: 25 yr Storm
- Flow Discharge = 90.87 cms
- Computed Water Surface = 292.93 m
- Profile: 100 yr Storm
- Flow Discharge = 120.49 cms
- Computed Water Surface = 293.13 m

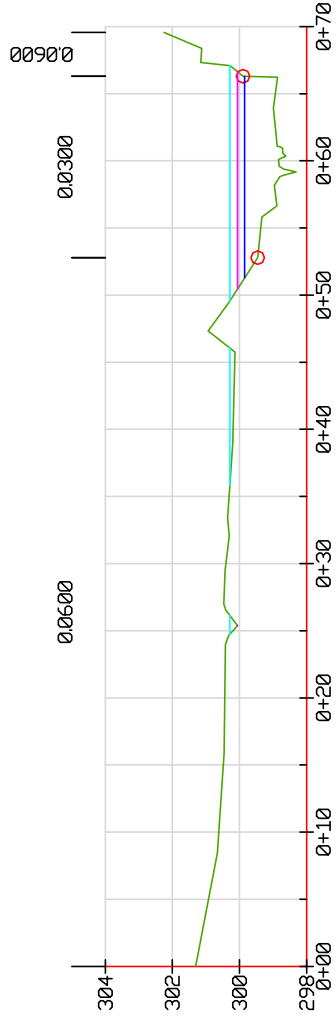




25

Seng Creek

- Profile: Storm Event
  - Flow Discharge = 6504 cms
  - Computed Water Surface = 296.74 m
- Profile: 25 yr Storm
  - Flow Discharge = 9087 cms
  - Computed Water Surface = 296.93 m
- Profile: 100 yr Storm
  - Flow Discharge = 12049 cms
  - Computed Water Surface = 297.03 m



26

Seng Creek

Profile: Storm Event

Flow Discharge = 6504 cms

Computed Water Surface = 299.85 m

Profile: 25 yr Storm

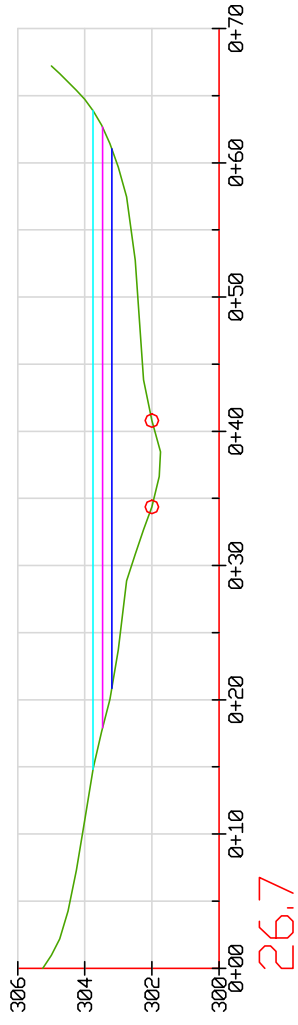
Flow Discharge = 9087 cms

Computed Water Surface = 300.06 m

Profile: 100 yr Storm

Flow Discharge = 12049 cms

Computed Water Surface = 300.29 m



Seng Creek

Profile: Storm Event

Flow Discharge = 6504 cms

Computed Water Surface = 303.19 m

Profile: 25 yr Storm

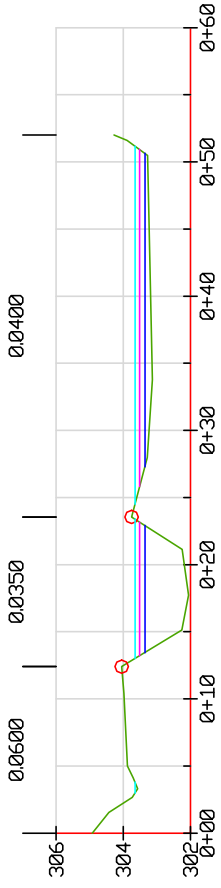
Flow Discharge = 9087 cms

Computed Water Surface = 303.47 m

Profile: 100 yr Storm

Flow Discharge = 12049 cms

Computed Water Surface = 303.76 m

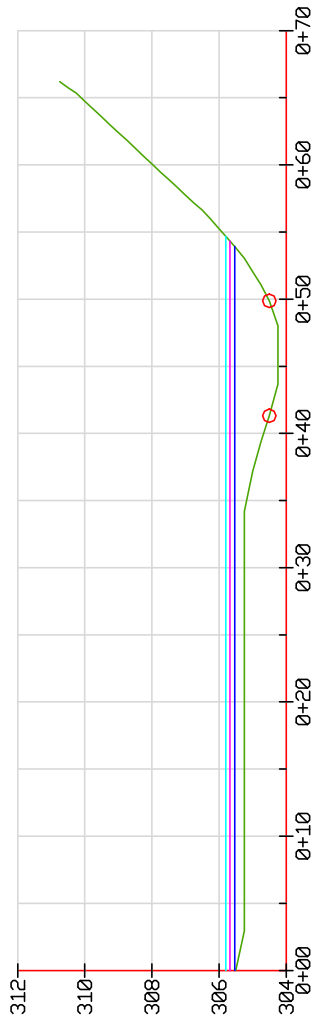


27

Profile Adjustment

Seng Creek

- Profile: Storm Event  
Flow Discharge = 56.49 cms  
Computed Water Surface = 303.36 m
- Profile: 25 yr Storm  
Flow Discharge = 79.74 cms  
Computed Water Surface = 303.51 m
- Profile: 100 yr Storm  
Flow Discharge = 105.40 cms  
Computed Water Surface = 303.65 m



27.5

Seng Creek

Profile: Storm Event

Flow Discharge = 56.49 cms

Computed Water Surface = 305.53 m

Profile: 25 yr Storm

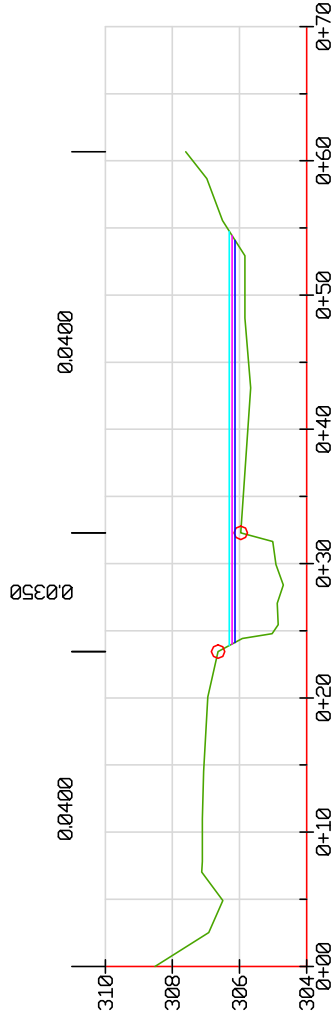
Flow Discharge = 79.74 cms

Computed Water Surface = 305.68 m

Profile: 100 yr Storm

Flow Discharge = 105.40 cms

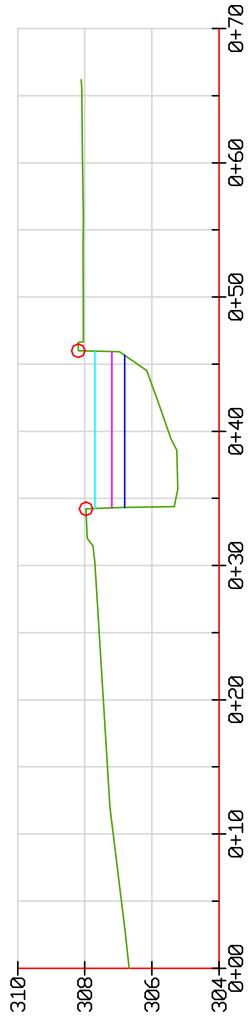
Computed Water Surface = 305.80 m



28

Seng Creek

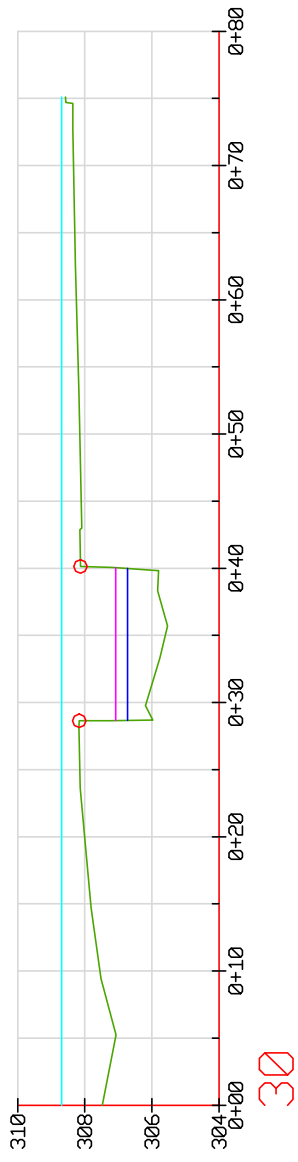
- Profile: Storm Event  
Flow Discharge = 56.49 cms  
Computed Water Surface = 306.13 m
- Profile: 25 yr Storm  
Flow Discharge = 79.74 cms  
Computed Water Surface = 306.22 m
- Profile: 100 yr Storm  
Flow Discharge = 105.40 cms  
Computed Water Surface = 306.30 m



29

Seng Creek

- Profile: Storm Event
- Flow Discharge = 56.49 cms
- Computed Water Surface = 306.81 m
- Profile: 25 yr Storm
- Flow Discharge = 79.74 cms
- Computed Water Surface = 307.20 m
- Profile: 100 yr Storm
- Flow Discharge = 105.40 cms
- Computed Water Surface = 307.70 m

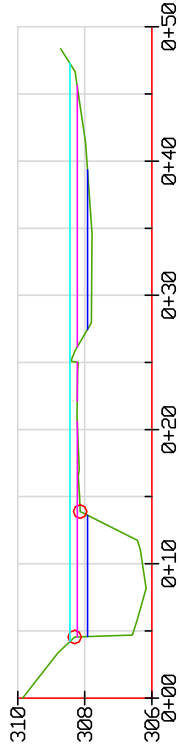


30

Seng Creek

- Profile: Storm Event  
Flow Discharge = 56.49 cms  
Computed Water Surface = 306.73 m
- Profile: 25 yr Storm  
Flow Discharge = 79.74 cms  
Computed Water Surface = 307.08 m
- Profile: 100 yr Storm  
Flow Discharge = 105.40 cms  
Computed Water Surface = 308.70 m





31

Seng Creek

Profile: Storm Event

Flow Discharge = 56.49 cms

Computed Water Surface = 307.92 m

Profile: 25 yr Storm

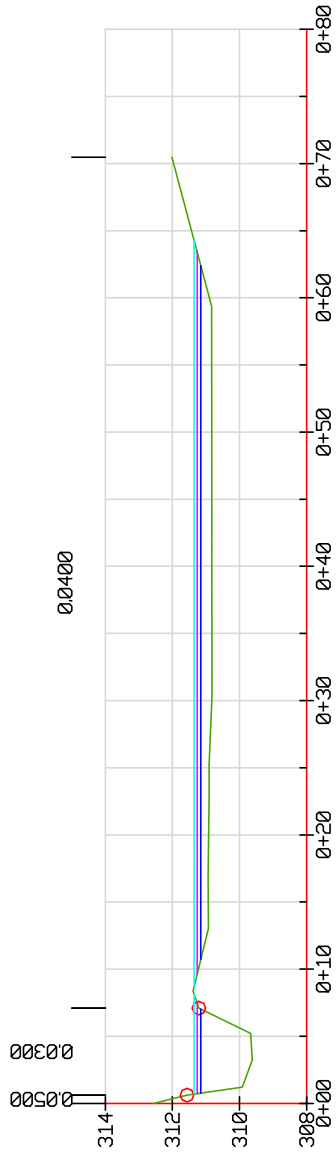
Flow Discharge = 79.74 cms

Computed Water Surface = 308.23 m

Profile: 100 yr Storm

Flow Discharge = 105.40 cms

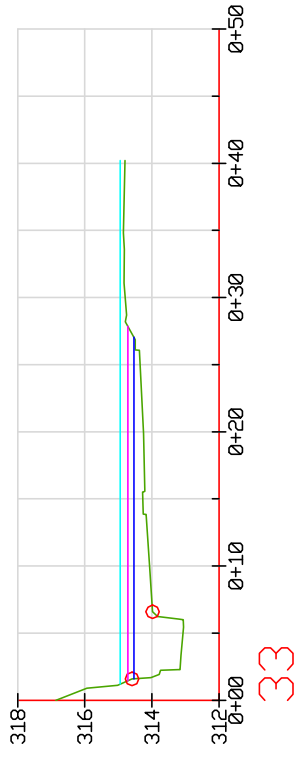
Computed Water Surface = 308.45 m



32

Seng Creek

- Profile: Storm Event
  - Flow Discharge = 56.49 cms
  - Computed Water Surface = 311.15 m
- Profile: 25 yr Storm
  - Flow Discharge = 79.74 cms
  - Computed Water Surface = 311.26 m
- Profile: 100 yr Storm
  - Flow Discharge = 105.40 cms
  - Computed Water Surface = 311.35 m



Seng Creek

Profile: Storm Event

Flow Discharge = 56.49 cms

Computed Water Surface = 314.54 m

Profile: 25 yr Storm

Flow Discharge = 79.74 cms

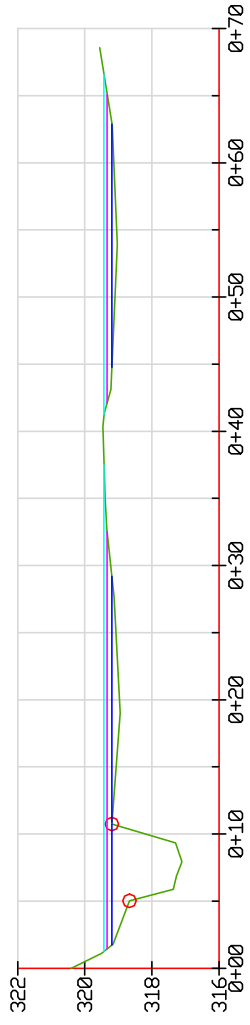
Computed Water Surface = 314.72 m

Profile: 100 yr Storm

Flow Discharge = 105.40 cms

Computed Water Surface = 314.94 m

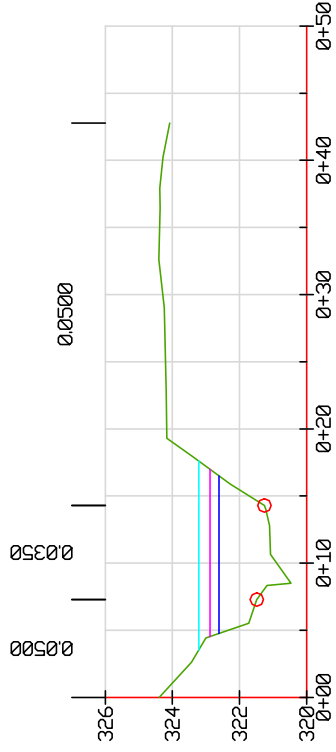
33



34

Seng Creek

- Profile: Storm Event  
Flow Discharge = 56.49 cms  
Computed Water Surface = 319.19 m
- Profile: 25 yr Storm  
Flow Discharge = 79.74 cms  
Computed Water Surface = 319.33 m
- Profile: 100 yr Storm  
Flow Discharge = 105.40 cms  
Computed Water Surface = 319.43 m



35

Seng Creek

Profile: Storm Event

Flow Discharge = 56.49 cms

Computed Water Surface = 322.61 m

Profile: 25 yr Storm

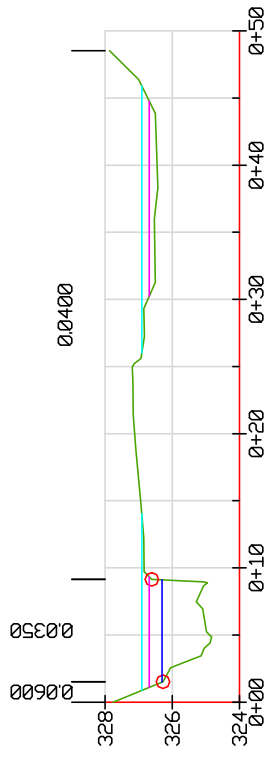
Flow Discharge = 79.74 cms

Computed Water Surface = 322.88 m

Profile: 100 yr Storm

Flow Discharge = 105.40 cms

Computed Water Surface = 323.21 m



36

Seng Creek

Profile: Storm Event

Flow Discharge = 56.49 cms

Computed Water Surface = 326.31 m

Profile: 25 yr Storm

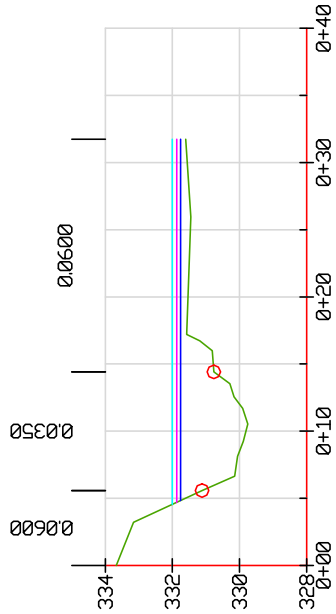
Flow Discharge = 79.74 cms

Computed Water Surface = 326.69 m

Profile: 100 yr Storm

Flow Discharge = 105.40 cms

Computed Water Surface = 326.91 m



37

Seng Creek

Profile: Storm Event

Flow Discharge = 56.49 cms

Computed Water Surface = 331.75 m

Profile: 25 yr Storm

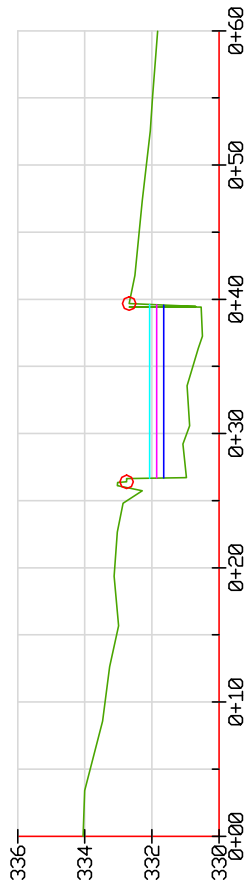
Flow Discharge = 79.74 cms

Computed Water Surface = 331.87 m

Profile: 100 yr Storm

Flow Discharge = 105.40 cms

Computed Water Surface = 332.01 m

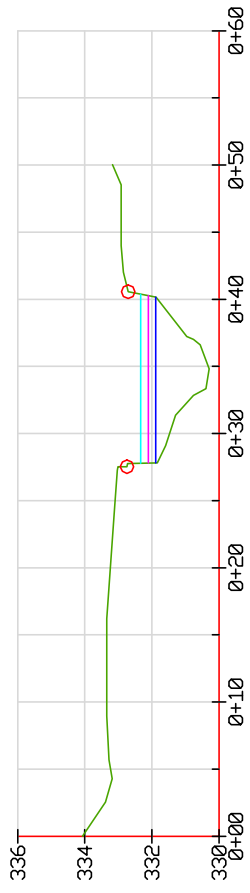


38

Seng Creek

- Profile: Storm Event
  - Flow Discharge = 56.49 cms
  - Computed Water Surface = 331.65 m
- Profile: 25 yr Storm
  - Flow Discharge = 79.74 cms
  - Computed Water Surface = 331.85 m
- Profile: 100 yr Storm
  - Flow Discharge = 105.40 cms
  - Computed Water Surface = 332.07 m

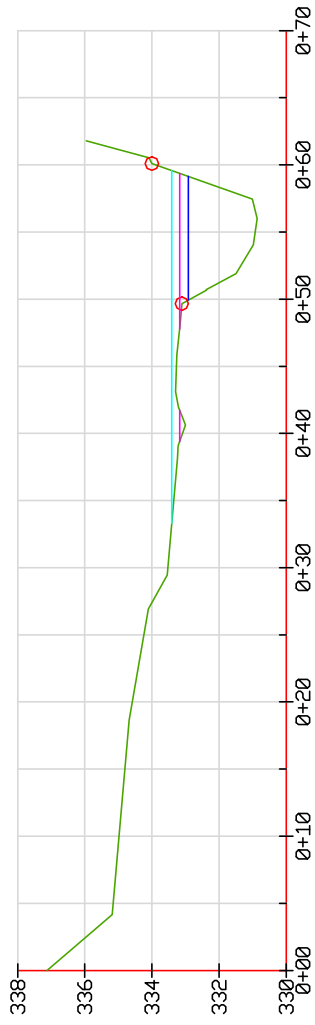




39

Seng Creek

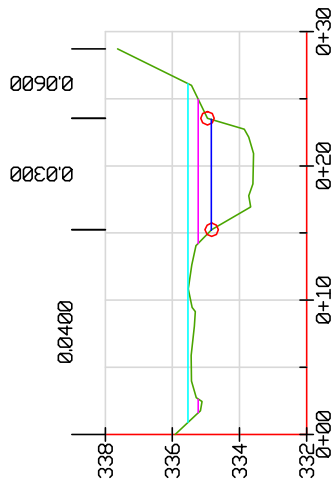
- Profile: Storm Event  
Flow Discharge = 56.49 cms  
Computed Water Surface = 331.89 m
- Profile: 25 yr Storm  
Flow Discharge = 79.74 cms  
Computed Water Surface = 332.11 m
- Profile: 100 yr Storm  
Flow Discharge = 105.40 cms  
Computed Water Surface = 332.34 m



40

Seng Creek

- Profile: Storm Event  
Flow Discharge = 56.49 cms  
Computed Water Surface = 332.92 m
- Profile: 25 yr Storm  
Flow Discharge = 79.74 cms  
Computed Water Surface = 333.18 m
- Profile: 100 yr Storm  
Flow Discharge = 105.40 cms  
Computed Water Surface = 333.41 m



41

Seng Creek

Profile: Storm Event

Flow Discharge = 56.49 cms

Computed Water Surface = 334.84 m

Profile: 25 yr Storm

Flow Discharge = 79.74 cms

Computed Water Surface = 335.23 m

Profile: 100 yr Storm

Flow Discharge = 105.40 cms

Computed Water Surface = 335.54 m



42

Seng Creek

Profile: Storm Event

Flow Discharge = 56.49 cms

Computed Water Surface = 337.90 m

Profile: 25 yr Storm

Flow Discharge = 79.74 cms

Computed Water Surface = 338.07 m

Profile: 100 yr Storm

Flow Discharge = 105.40 cms

Computed Water Surface = 338.15 m



43

Seng Creek

Profile: Storm Event

Flow Discharge = 56.49 cms

Computed Water Surface = 337.33 m

Profile: 25 yr Storm

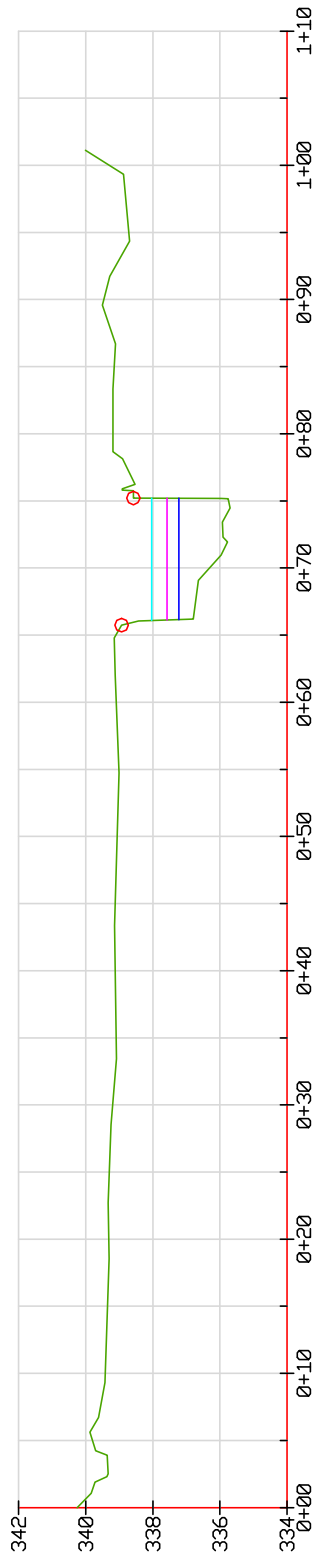
Flow Discharge = 79.74 cms

Computed Water Surface = 337.69 m

Profile: 100 yr Storm

Flow Discharge = 105.40 cms

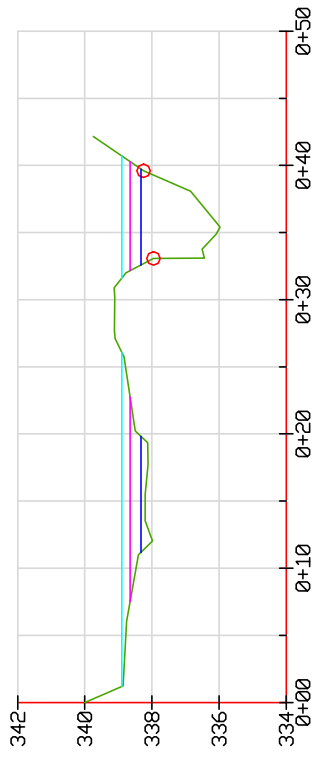
Computed Water Surface = 338.14 m



44

Seng Creek

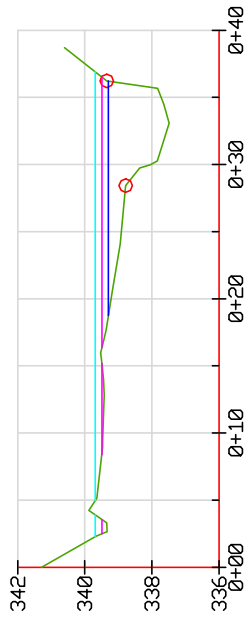
- Profile: Storm Event  
Flow Discharge = 56.49 cms  
Computed Water Surface = 337.22 m
- Profile: 25 yr Storm  
Flow Discharge = 79.74 cms  
Computed Water Surface = 337.58 m
- Profile: 100 yr Storm  
Flow Discharge = 105.40 cms  
Computed Water Surface = 338.04 m



45

Seng Creek

- Profile: Storm Event  
Flow Discharge = 56.49 cms  
Computed Water Surface = 338.33 m
- Profile: 25 yr Storm  
Flow Discharge = 79.74 cms  
Computed Water Surface = 338.65 m
- Profile: 100 yr Storm  
Flow Discharge = 105.40 cms  
Computed Water Surface = 338.90 m

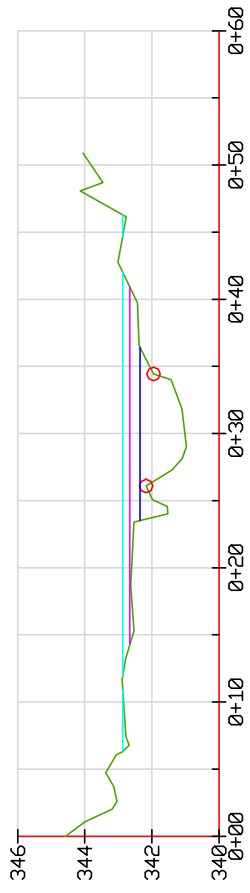


46

Seng Creek

- Profile: Storm Event  
Flow Discharge = 56.49 cms  
Computed Water Surface = 339.30 m
- Profile: 25 yr Storm  
Flow Discharge = 79.74 cms  
Computed Water Surface = 339.49 m
- Profile: 100 yr Storm  
Flow Discharge = 105.40 cms  
Computed Water Surface = 339.69 m





47

Seng Creek

Profile: Storm Event

Flow Discharge = 56.49 cms

Computed Water Surface = 342.36 m

Profile: 25 yr Storm

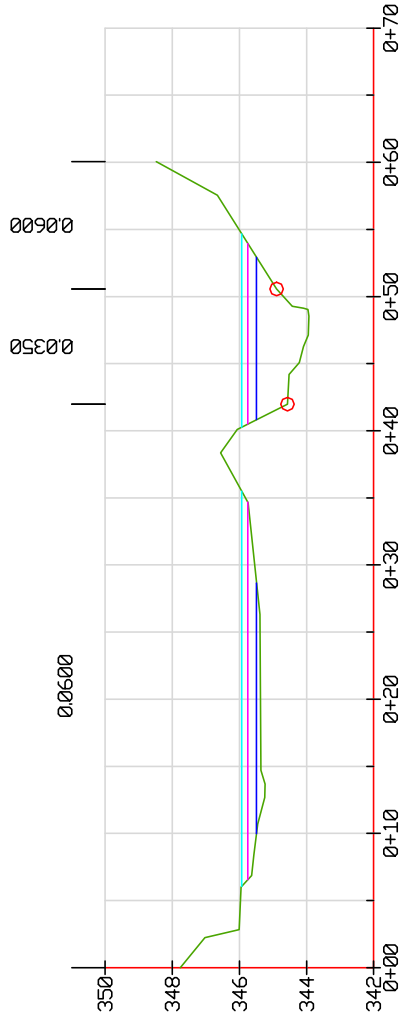
Flow Discharge = 79.74 cms

Computed Water Surface = 342.66 m

Profile: 100 yr Storm

Flow Discharge = 105.40 cms

Computed Water Surface = 342.87 m



48

Profile Adjustment

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 345.49 m

Profile: 25 yr Storm

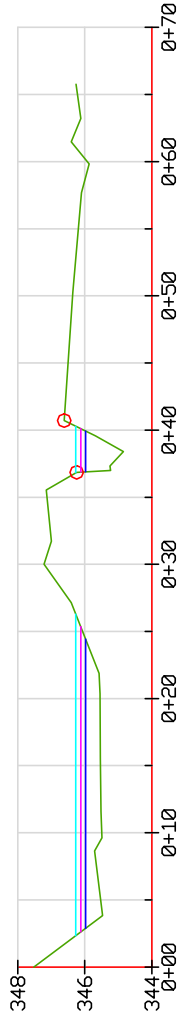
Flow Discharge = 61.02 cms

Computed Water Surface = 345.75 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 345.93 m



49

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

— Computed Water Surface = 345.98 m

Profile: 25 yr Storm

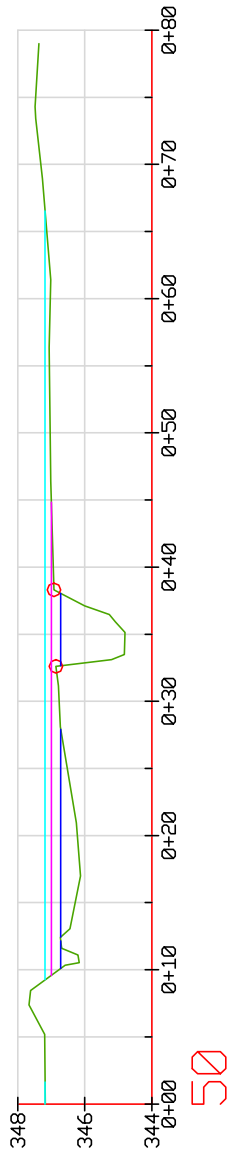
Flow Discharge = 61.02 cms

— Computed Water Surface = 346.12 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

— Computed Water Surface = 346.27 m



Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 346.71 m

Profile: 25 yr Storm

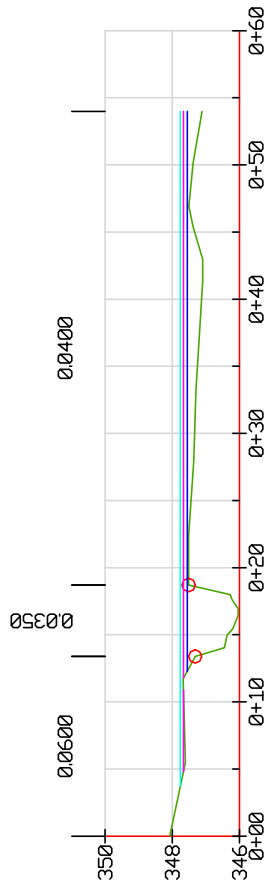
Flow Discharge = 61.02 cms

Computed Water Surface = 347.00 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 347.18 m



51

### Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 347.56 m

Profile: 25 yr Storm

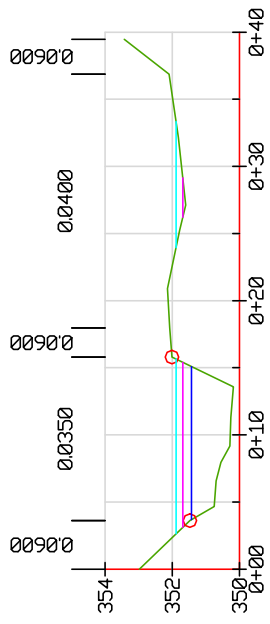
Flow Discharge = 61.02 cms

Computed Water Surface = 347.67 m

Profile: 100 yr Storm

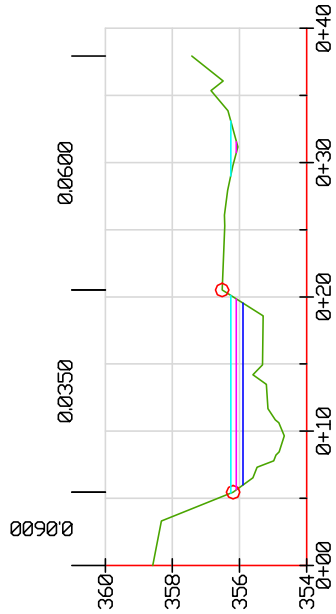
Flow Discharge = 81.33 cms

Computed Water Surface = 347.76 m



Seng Creek

- Profile: Storm Event
  - Flow Discharge = 40.78 cms
  - Computed Water Surface = 351.43 m
- Profile: 25 yr Storm
  - Flow Discharge = 61.02 cms
  - Computed Water Surface = 351.69 m
- Profile: 100 yr Storm
  - Flow Discharge = 81.33 cms
  - Computed Water Surface = 351.89 m



53

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 355.89 m

Profile: 25 yr Storm

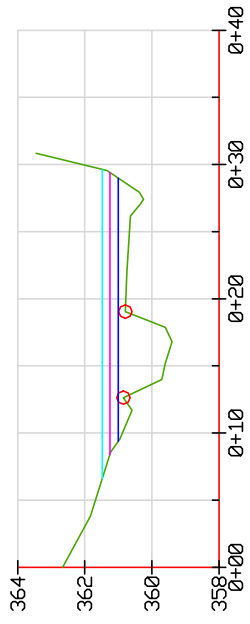
Flow Discharge = 61.02 cms

Computed Water Surface = 356.10 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 356.26 m



54

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 361.00 m

Profile: 25 yr Storm

Flow Discharge = 61.02 cms

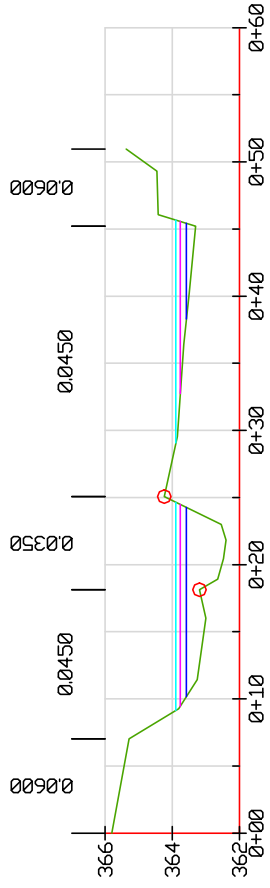
Computed Water Surface = 361.25 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 361.48 m

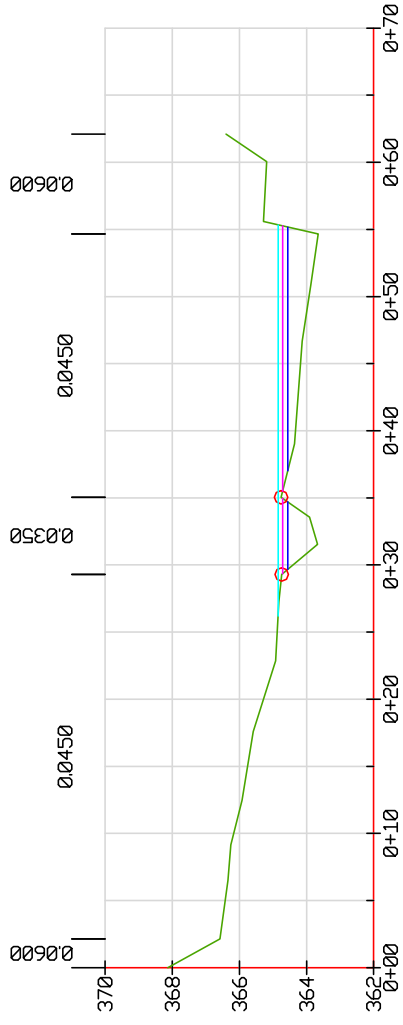




55

Seng Creek

- Profile: Storm Event
  - Flow Discharge = 40.78 cms
  - Computed Water Surface = 363.58 m
- Profile: 25 yr Storm
  - Flow Discharge = 61.02 cms
  - Computed Water Surface = 363.77 m
- Profile: 100 yr Storm
  - Flow Discharge = 81.33 cms
  - Computed Water Surface = 363.89 m



56

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 364.56 m

Profile: 25 yr Storm

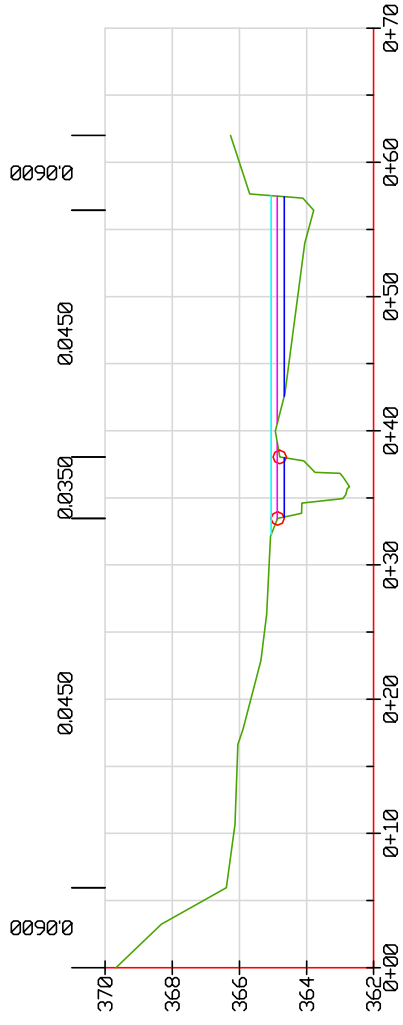
Flow Discharge = 61.02 cms

Computed Water Surface = 364.72 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 364.85 m



57

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 364.67 m

Profile: 25 yr Storm

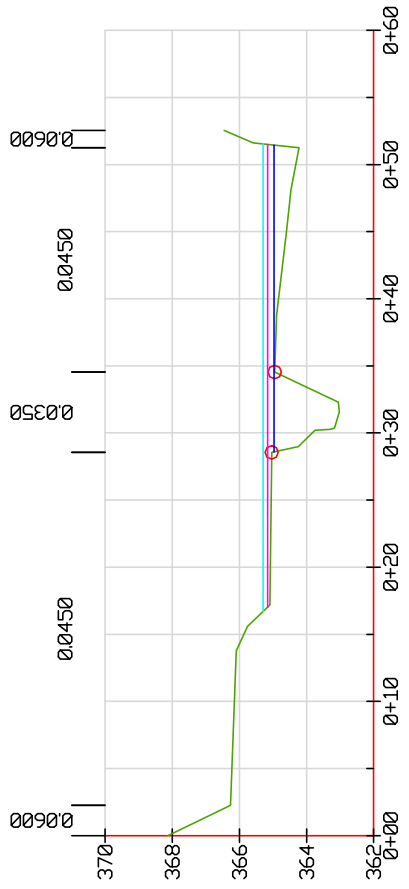
Flow Discharge = 61.02 cms

Computed Water Surface = 364.87 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

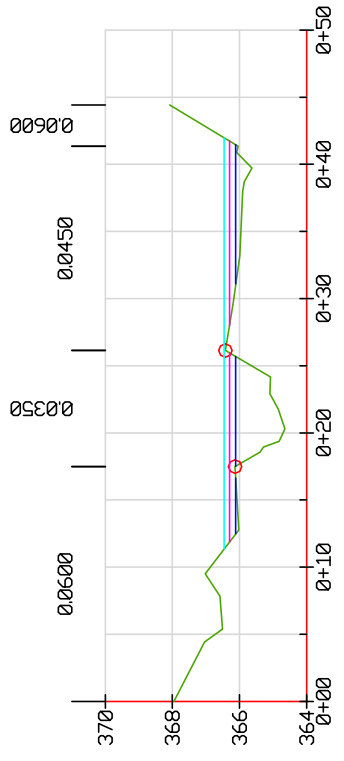
Computed Water Surface = 365.06 m



58

Seng Creek

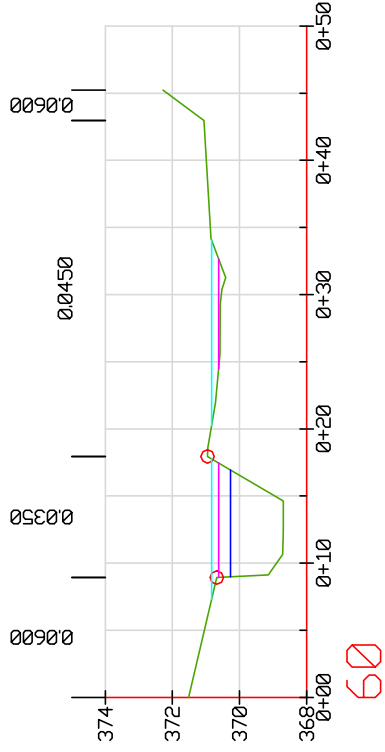
- Profile: Storm Event  
Flow Discharge = 40.78 cms  
Computed Water Surface = 364.97 m
- Profile: 25 yr Storm  
Flow Discharge = 61.02 cms  
Computed Water Surface = 365.16 m
- Profile: 100 yr Storm  
Flow Discharge = 81.33 cms  
Computed Water Surface = 365.29 m



59

Seng Creek

- Profile: Storm Event
- Flow Discharge = 40.78 cms
- Computed Water Surface = 366.11 m
- Profile: 25 yr Storm
- Flow Discharge = 61.02 cms
- Computed Water Surface = 366.30 m
- Profile: 100 yr Storm
- Flow Discharge = 81.33 cms
- Computed Water Surface = 366.46 m



Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 370.26 m

Profile: 25 yr Storm

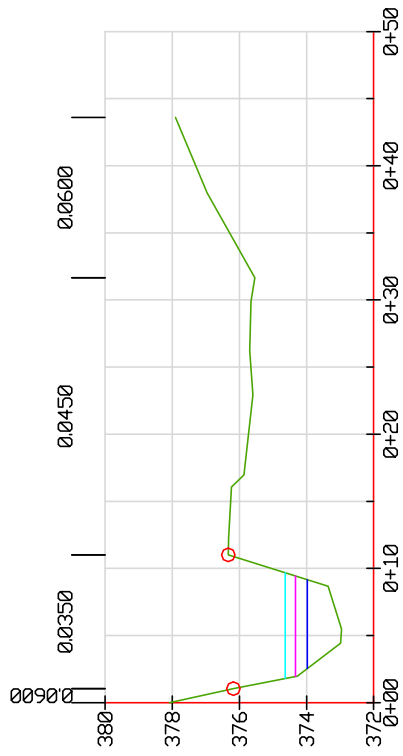
Flow Discharge = 61.02 cms

Computed Water Surface = 370.62 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 370.83 m



61

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 373.98 m

Profile: 25 yr Storm

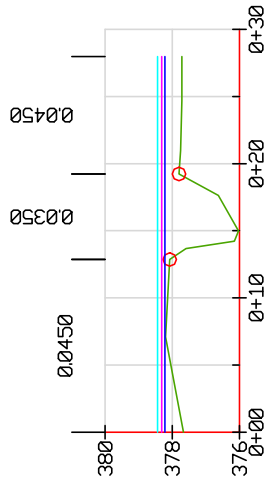
Flow Discharge = 61.02 cms

Computed Water Surface = 374.33 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 374.64 m

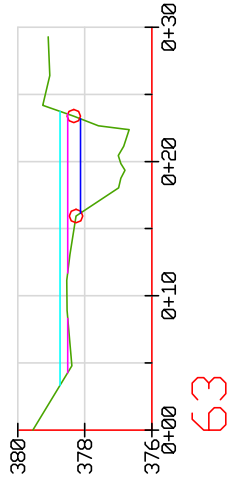


62

Seng Creek

- Profile: Storm Event  
Flow Discharge = 40.78 cms  
Computed Water Surface = 378.22 m
- Profile: 25 yr Storm  
Flow Discharge = 61.02 cms  
Computed Water Surface = 378.32 m
- Profile: 100 yr Storm  
Flow Discharge = 81.33 cms  
Computed Water Surface = 378.44 m





63

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 378.13 m

Profile: 25 yr Storm

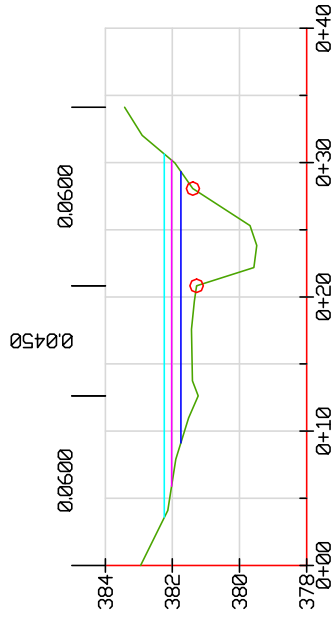
Flow Discharge = 61.02 cms

Computed Water Surface = 378.51 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 378.74 m



64

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 381.74 m

Profile: 25 yr Storm

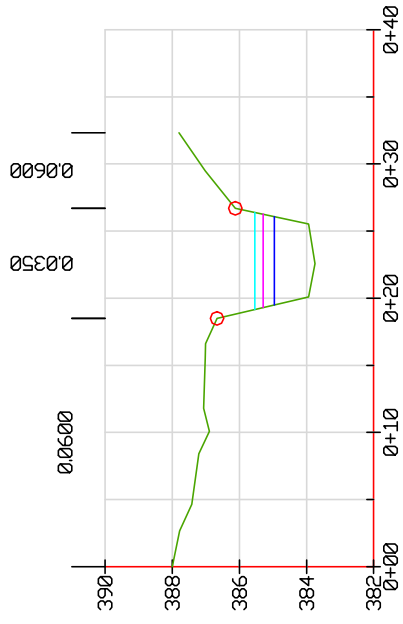
Flow Discharge = 61.02 cms

Computed Water Surface = 382.03 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 382.24 m



65

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 384.96 m

Profile: 25 yr Storm

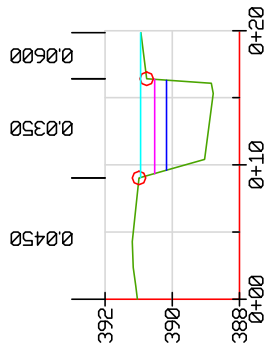
Flow Discharge = 61.02 cms

Computed Water Surface = 385.29 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 385.54 m



66

### Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 390.18 m

Profile: 25 yr Storm

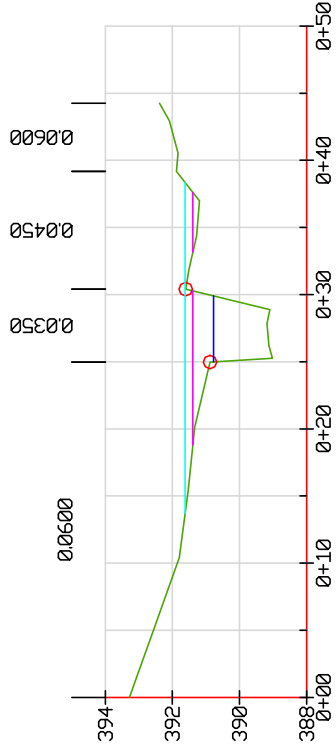
Flow Discharge = 61.02 cms

Computed Water Surface = 390.53 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 390.95 m



67

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 390.77 m

Profile: 25 yr Storm

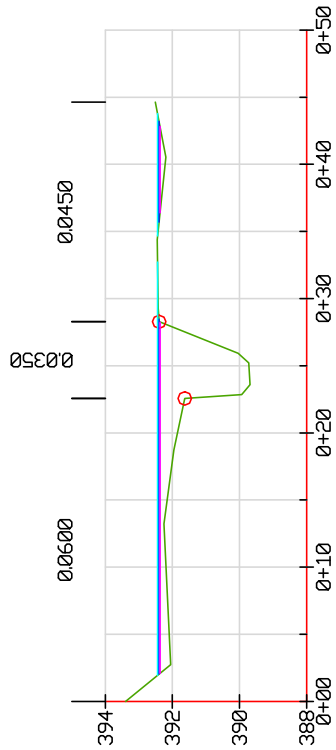
Flow Discharge = 61.02 cms

Computed Water Surface = 391.39 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 391.62 m



68

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 392.40 m

Profile: 25 yr Storm

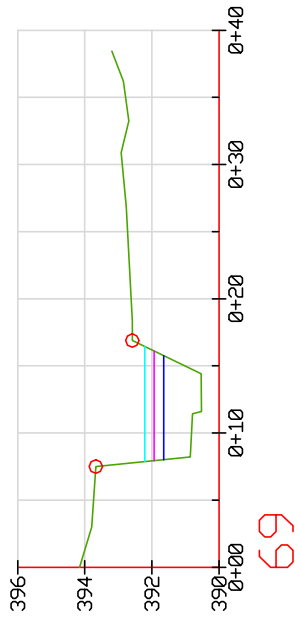
Flow Discharge = 61.02 cms

Computed Water Surface = 392.37 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

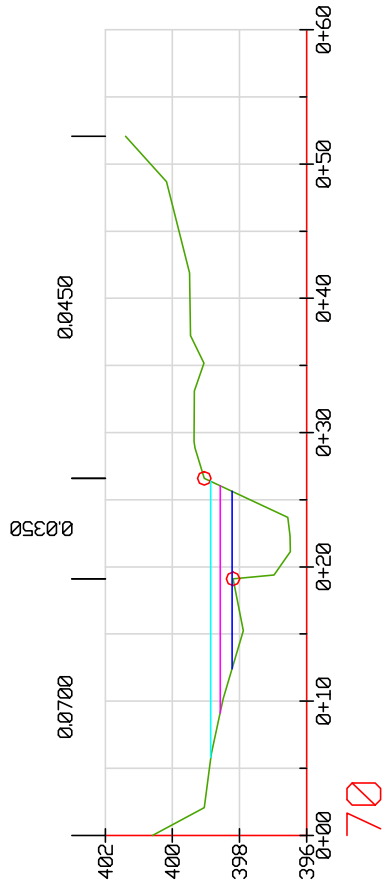
Computed Water Surface = 392.44 m



69

Seng Creek

- Profile: Storm Event
- Flow Discharge = 40.78 cms
- Computed Water Surface = 391.65 m
- Profile: 25 yr Storm
- Flow Discharge = 61.02 cms
- Computed Water Surface = 391.94 m
- Profile: 100 yr Storm
- Flow Discharge = 81.33 cms
- Computed Water Surface = 392.21 m



70

Seng Creek

Profile: Storm Event

Flow Discharge = 40.78 cms

Computed Water Surface = 398.22 m

Profile: 25 yr Storm

Flow Discharge = 61.02 cms

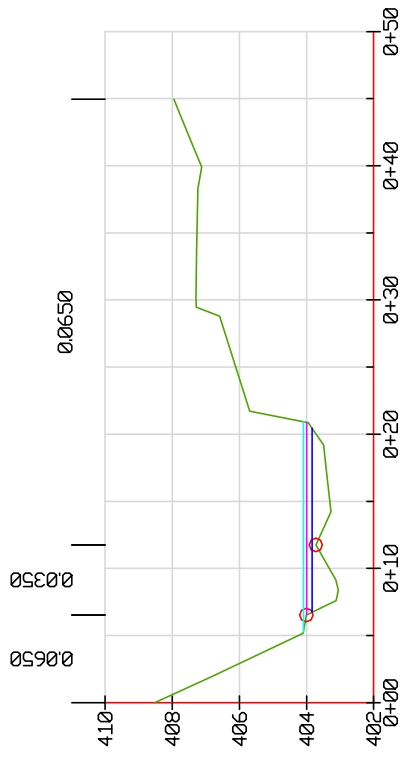
Computed Water Surface = 398.58 m

Profile: 100 yr Storm

Flow Discharge = 81.33 cms

Computed Water Surface = 398.86 m





71

Profile Adjustment

Seng Creek

Profile: Storm Event

Flow Discharge = 20.19 cms

Computed Water Surface = 403.84 m

Profile: 25 yr Storm

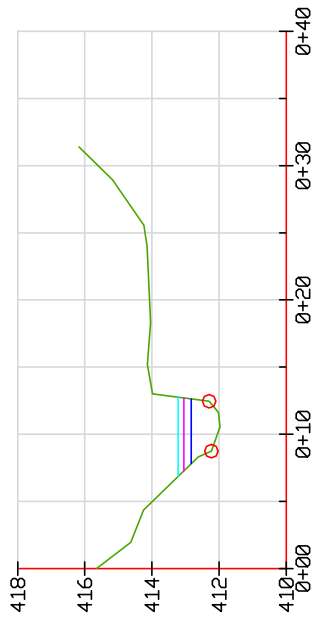
Flow Discharge = 32.42 cms

Computed Water Surface = 403.99 m

Profile: 100 yr Storm

Flow Discharge = 42.79 cms

Computed Water Surface = 404.09 m



72

Profile Adjustment

Seng Creek

Profile: Storm Event

Flow Discharge = 10.70 cms

Computed Water Surface = 412.83 m

Profile: 25 yr Storm

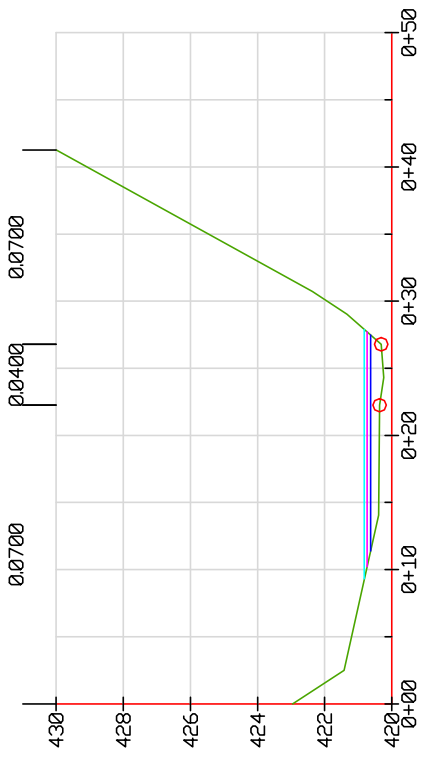
Flow Discharge = 16.83 cms

Computed Water Surface = 413.05 m

Profile: 100 yr Storm

Flow Discharge = 22.27 cms

Computed Water Surface = 413.22 m



73

Seng Creek

Profile: Storm Event

Flow Discharge = 10.70 cms

Computed Water Surface = 428.63 m

Profile: 25 yr Storm

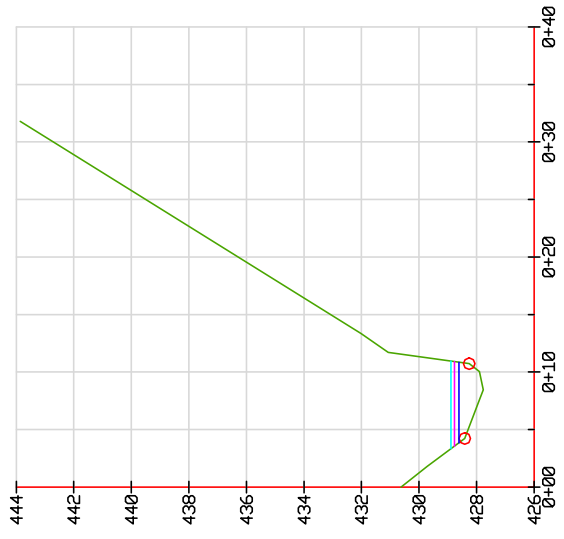
Flow Discharge = 16.83 cms

Computed Water Surface = 428.74 m

Profile: 100 yr Storm

Flow Discharge = 22.27 cms

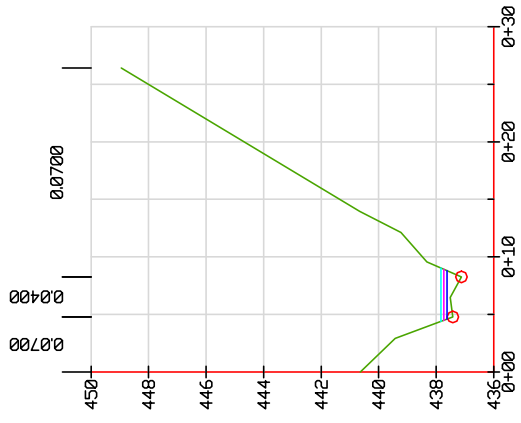
Computed Water Surface = 428.82 m



74

Seng Creek

- Profile: Storm Event  
Flow Discharge = 10.70 cms  
Computed Water Surface = 428.61 m
- Profile: 25 yr Storm  
Flow Discharge = 16.83 cms  
Computed Water Surface = 428.77 m
- Profile: 100 yr Storm  
Flow Discharge = 22.27 cms  
Computed Water Surface = 428.89 m



Seng Creek

- Profile: Storm Event
- Flow Discharge = 10.70 cms
- Computed Water Surface = 437.62 m
- Profile: 25 yr Storm
- Flow Discharge = 16.83 cms
- Computed Water Surface = 437.74 m
- Profile: 100 yr Storm
- Flow Discharge = 22.27 cms
- Computed Water Surface = 437.84 m



76

Seng Creek

- Profile: Storm Event  
Flow Discharge = 1070 cms  
Computed Water Surface = 451.44 m
- Profile: 25 yr Storm  
Flow Discharge = 1688 cms  
Computed Water Surface = 451.55 m
- Profile: 100 yr Storm  
Flow Discharge = 2227 cms  
Computed Water Surface = 451.64 m

Seng Creek HEC-RAS Analysis Report  
PLAN DATA

Plan Summary Information:

Number of: Cross-Sections = 78    Multiple Openings = 0  
          Culverts        = 0  
          Bridges         = 0

Computational Information

Water surface calculation tolerance = 0.003  
Critical depth calculation tolerance = 0.003  
Maximum number of iterations        = 20  
Maximum difference tolerance         = 0.1  
Flow tolerance factor                 = 0.001

Computational Flow Regime: Mixed Flow

Encroachment Data: None

\*\*\*\*\*

FLOW DATA

Flow Data (cfs)

\*\*\*\*\*  
\*       Riv Sta       \*       Storm Event \*       25 yr Storm \*       100 yr Storm \*  
\*\*\*\*\*  
\*                76 \*                10.7 \*                16.83 \*                22.27 \*  
\*                71 \*                20.19 \*                32.42 \*                42.79 \*  
\*                70 \*                40.78 \*                61.02 \*                81.33 \*  
\*                47 \*                56.49 \*                79.74 \*                105.4 \*  
\*                26.7 \*                65.04 \*                90.87 \*                120.49 \*  
\*                14 \*                73.48 \*                98.17 \*                130.88 \*  
\*\*\*\*\*

Boundary Conditions

\*\*\*\*\*  
\*       Profile       \*       Upstream       \*       Downstream       \*  
\*\*\*\*\*  
\*       Storm Event \*       Critical Depth    Normal S = 0.009103 \*  
\*       25 yr Storm \*       Critical Depth    Normal S = 0.009103 \*  
\*       100 yr Storm \*       Critical Depth    Normal S = 0.009103 \*  
\*\*\*\*\*

\*\*\*\*\*

CROSS SECTION INPUT    River Station: 1

Description:

Station Elevation Data, num = 17

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0246.19362	19362.558668245	6571.4	81269244.41356	777428243.6	11911.02986242	7188	11.79076241	453911.84136241	441715.36889241
005815.38603240	9998	19.006240	9144	19.02822240	926619.67137241	697722.39603241	850122.93973243	505225.22746	244.95
26.77567246	257630.66125246	4435							

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.0511	84136	.03522	93973	.05

Bank	Sta.	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	11.8414	22.9397			0	0	0		0.1	0.3

CROSS SECTION OUTPUT    Riv Sta: 1    Profile # Storm Event

\*\*\*\*\*  
\* E.G. Elev (m)       \* 244.23 \* Element               \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m)       \* 1.80 \* Wt. n-Val           \* 0.050 \* 0.035 \* \*  
\* W.S. Elev (m)       \* 242.43 \* Reach Len. (m)       \* \* \* \*  
\* Crit W.S. (m)       \* 242.98 \* Flow Area (m2)       \* 0.34 \* 12.22 \* \*  
\* E.G. Slope (m/m)    \* 0.040471 \* Area (m2)           \* 0.34 \* 12.22 \* \*  
\* Q Total (m3/s)       \* 73.48 \* Flow (m3/s)           \* 0.58 \* 72.90 \* \*  
\* Top Width (m)       \* 11.38 \* Top Width (m)       \* 0.64 \* 10.75 \* \*  
\* Vel Total (m/s)       \* 5.85 \* Avg. Vel. (m/s)       \* 1.73 \* 5.96 \* \*  
\* Max Chl Dpth (m)    \* 1.52 \* Hydr. Depth (m)       \* 0.53 \* 1.14 \* \*  
\* Conv. Total (m3/s) \* 365.3 \* Conv. (m3/s)           \* 2.9 \* 362.4 \* \*  
\* Length Wtd. (m)     \* \* \* Wetted Per. (m)       \* 1.19 \* 11.56 \* \*  
\* Min Ch El (m)       \* 240.91 \* Shear (N/sq m)       \* 112.20 \* 419.50 \* \*  
\* Alpha               \* 1.03 \* Stream Power (N/m s) \* 194.44 \* 2501.93 \* \*  
\* Frctn Loss (m)       \* 0.13 \* Cum Volume (cu m x 10^ \* \* \* \*  
\* C & E Loss (m)       \* 0.02 \* Cum SA (1000 m2)       \* \* \* \*  
\*\*\*\*\*

CROSS SECTION OUTPUT    Riv Sta: 1    Profile # 25 yr Storm

\*\*\*\*\*  
\* E.G. Elev (m)       \* 244.79 \* Element               \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m)       \* 2.10 \* Wt. n-Val           \* 0.050 \* 0.035 \* \*  
\* W.S. Elev (m)       \* 242.69 \* Reach Len. (m)       \* \* \* \*  
\* Crit W.S. (m)       \* 243.37 \* Flow Area (m2)       \* 0.53 \* 15.06 \* \*  
\* E.G. Slope (m/m)    \* 0.036977 \* Area (m2)           \* 0.53 \* 15.06 \* \*  
\* Q Total (m3/s)       \* 98.17 \* Flow (m3/s)           \* 1.01 \* 97.16 \* \*  
\* Top Width (m)       \* 11.63 \* Top Width (m)       \* 0.80 \* 10.83 \* \*  
\* Vel Total (m/s)       \* 6.30 \* Avg. Vel. (m/s)       \* 1.91 \* 6.45 \* \*  
\* Max Chl Dpth (m)    \* 1.78 \* Hydr. Depth (m)       \* 0.66 \* 1.39 \* \*  
\* Conv. Total (m3/s) \* 510.5 \* Conv. (m3/s)           \* 5.2 \* 505.3 \* \*  
\* Length Wtd. (m)     \* \* \* Wetted Per. (m)       \* 1.50 \* 11.84 \* \*  
\* Min Ch El (m)       \* 240.91 \* Shear (N/sq m)       \* 127.21 \* 461.32 \* \*  
\* Alpha               \* 1.04 \* Stream Power (N/m s) \* 243.33 \* 2975.68 \* \*  
\* Frctn Loss (m)       \* 0.12 \* Cum Volume (cu m x 10^ \* \* \* \*  
\* C & E Loss (m)       \* 0.04 \* Cum SA (1000 m2)       \* \* \* \*  
\*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 1 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 245.45 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 2.43 \* Wt. n-Val \* 0.050 \* 0.035 \* \*  
 \* W.S. Elev (m) \* 243.02 \* Reach Len. (m) \* \* \* \*  
 \* Crit W.S. (m) \* 243.81 \* Flow Area (m2) \* 1.00 \* 18.58 \* \*  
 \* E.G. Slope (m/m) \* 0.033682 \* Area (m2) \* 1.00 \* 18.58 \* \*  
 \* Q Total (m3/s) \* 130.88 \* Flow (m3/s) \* 1.77 \* 129.11 \* \*  
 \* Top Width (m) \* 13.17 \* Top Width (m) \* 2.24 \* 10.94 \* \*  
 \* Vel Total (m/s) \* 6.68 \* Avg. Vel. (m/s) \* 1.77 \* 6.95 \* \*  
 \* Max Chl Dpth (m) \* 2.10 \* Hydr. Depth (m) \* 0.45 \* 1.70 \* \*  
 \* Conv. Total (m3/s) \* 713.1 \* Conv. (m3/s) \* 9.7 \* 703.5 \* \*  
 \* Length Wtd. (m) \* \* \* Wetted Per. (m) \* 2.98 \* 12.18 \* \*  
 \* Min Ch El (m) \* 240.91 \* Shear (N/sq m) \* 110.86 \* 503.86 \* \*  
 \* Alpha \* 1.07 \* Stream Power (N/m s) \* 196.51 \* 3501.00 \* \*  
 \* Frctn Loss (m) \* 0.12 \* Cum Volume (cu m x 10^ \* \* \* \*  
 \* C & E Loss (m) \* 0.04 \* Cum SA (1000 m2) \* \* \* \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 2  
 Description:

Station Elevation Data, num = 26  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0246.83679.315556246.815321.65169246.809328.09766246.861128.46546246.8611  
 28.53011246.864128.55267245.757728.66639243.550930.72518243.093732.02883241.3442  
 32.06806242.045233.48379241.179634.39547241.368635.65633241.060736.49791240.9662  
 38.94871240.947939.24515241.066839.42495241.191839.56973241.222340.03738246.8611  
 40.04083245.675440.08981246.861140.34151246.864146.15527246.7635 55.6217 246.727  
 63.09164 246.73

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .04528.46546 .03540.34151 .045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 28.4655 40.3415 3.76 3.68 3.85 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 2 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 244.39 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.57 \* Wt. n-Val \* 3.76 \* 0.035 \* 3.85 \*  
 \* W.S. Elev (m) \* 242.81 \* Reach Len. (m) \* \* \* \*  
 \* Crit W.S. (m) \* 243.29 \* Flow Area (m2) \* \* \* 13.21 \* \*  
 \* E.G. Slope (m/m) \* 0.033316 \* Area (m2) \* \* \* 13.21 \* \*  
 \* Q Total (m3/s) \* 73.48 \* Flow (m3/s) \* \* \* 73.48 \* \*  
 \* Top Width (m) \* 8.77 \* Top Width (m) \* \* \* 8.77 \* \*  
 \* Vel Total (m/s) \* 5.56 \* Avg. Vel. (m/s) \* \* \* 5.56 \* \*  
 \* Max Chl Dpth (m) \* 1.87 \* Hydr. Depth (m) \* \* \* 1.51 \* \*  
 \* Conv. Total (m3/s) \* 402.6 \* Conv. (m3/s) \* \* \* 402.6 \* \*  
 \* Length Wtd. (m) \* 3.68 \* Wetted Per. (m) \* \* \* 12.01 \* \*  
 \* Min Ch El (m) \* 240.95 \* Shear (N/sq m) \* \* \* 359.67 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* \* 1999.73 \* \*  
 \* Frctn Loss (m) \* 0.19 \* Cum Volume (cu m x 10^ \* 0.00 \* 0.00 \* \*  
 \* C & E Loss (m) \* 0.06 \* Cum SA (1000 m2) \* 0.00 \* 0.04 \* \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 2 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 244.96 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.75 \* Wt. n-Val \* 3.76 \* 0.035 \* 3.85 \*  
 \* W.S. Elev (m) \* 243.21 \* Reach Len. (m) \* \* \* \*  
 \* Crit W.S. (m) \* 243.71 \* Flow Area (m2) \* \* \* 16.74 \* \*  
 \* E.G. Slope (m/m) \* 0.030888 \* Area (m2) \* \* \* 16.74 \* \*  
 \* Q Total (m3/s) \* 98.17 \* Flow (m3/s) \* \* \* 98.17 \* \*  
 \* Top Width (m) \* 9.52 \* Top Width (m) \* \* \* 9.52 \* \*  
 \* Vel Total (m/s) \* 5.86 \* Avg. Vel. (m/s) \* \* \* 5.86 \* \*  
 \* Max Chl Dpth (m) \* 2.26 \* Hydr. Depth (m) \* \* \* 1.76 \* \*  
 \* Conv. Total (m3/s) \* 558.6 \* Conv. (m3/s) \* \* \* 558.6 \* \*  
 \* Length Wtd. (m) \* 3.68 \* Wetted Per. (m) \* \* \* 13.27 \* \*  
 \* Min Ch El (m) \* 240.95 \* Shear (N/sq m) \* \* \* 382.24 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* \* 2241.35 \* \*  
 \* Frctn Loss (m) \* 0.18 \* Cum Volume (cu m x 10^ \* 0.00 \* 0.00 \* \*  
 \* C & E Loss (m) \* 0.07 \* Cum SA (1000 m2) \* 0.00 \* 0.04 \* \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 2 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 245.61 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 2.01 \* Wt. n-Val \* 3.76 \* 0.035 \* 3.85 \*  
 \* W.S. Elev (m) \* 243.60 \* Reach Len. (m) \* \* \* \*  
 \* Crit W.S. (m) \* 244.14 \* Flow Area (m2) \* \* \* 20.82 \* \*  
 \* E.G. Slope (m/m) \* 0.032070 \* Area (m2) \* \* \* 20.82 \* \*  
 \* Q Total (m3/s) \* 130.88 \* Flow (m3/s) \* \* \* 130.88 \* \*  
 \* Top Width (m) \* 11.10 \* Top Width (m) \* \* \* 11.10 \* \*  
 \* Vel Total (m/s) \* 6.28 \* Avg. Vel. (m/s) \* \* \* 6.28 \* \*  
 \* Max Chl Dpth (m) \* 2.65 \* Hydr. Depth (m) \* \* \* 1.88 \* \*  
 \* Conv. Total (m3/s) \* 730.8 \* Conv. (m3/s) \* \* \* 730.8 \* \*  
 \* Length Wtd. (m) \* 3.68 \* Wetted Per. (m) \* \* \* 15.30 \* \*  
 \* Min Ch El (m) \* 240.95 \* Shear (N/sq m) \* \* \* 428.13 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* \* 2690.69 \* \*  
 \* Frctn Loss (m) \* 0.18 \* Cum Volume (cu m x 10^ \* 0.00 \* 0.00 \* \*  
 \* C & E Loss (m) \* 0.07 \* Cum SA (1000 m2) \* 0.00 \* 0.04 \* \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 3  
 Description:

Station Elevation Data, num = 42  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*



0247.59266.573049246.589811.80613246.885513.57991247.007425.42597247.0622  
 39.34987247.013551.63313246.995254.10457247.150654.79076 247.10854.85178247.0714  
 54.8761245.928455.35168245.937555.51018243.7125 56.4938243.861857.34184243.6149  
 58.08338242.569559.06654241.935559.33031241.356461.11098241.7374 62.5862241.7496  
 63.34149241.152264.95345240.7437 65.273 241.1465.34436241.197965.54302241.2466  
 65.9442246.050366.51679246.461866.64453246.967767.42945247.272568.25497247.0805  
 69.90451247.0013 77.5363 246.91993.38848246.8824107.6832246.8001117.9949 246.669  
 122.6018246.6873126.2585246.8032132.2489246.8733138.3965246.7513140.5409246.6599  
 143.1483246.4679144.4667246.8946

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .04554.79076 .03567.42945 .045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 54.7908 67.4294 8.33 8.38 8.51 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 3 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 244.64 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.99 \* Wt. n-Val \* \* 0.035 \* \*  
 \* W.S. Elev (m) \* 243.66 \* Reach Len. (m) \* 8.33 \* 8.38 \* 8.51 \*  
 \* Crit W.S. (m) \* 243.66 \* Flow Area (m2) \* \* 16.70 \* \*  
 \* E.G. Slope (m/m) \* 0.015894 \* Area (m2) \* \* 16.70 \* \*  
 \* Q Total (m3/s) \* 73.48 \* Flow (m3/s) \* \* 73.48 \* \*  
 \* Top Width (m) \* 8.54 \* Top Width (m) \* \* 8.54 \* \*  
 \* Vel Total (m/s) \* 4.40 \* Avg. Vel. (m/s) \* \* 4.40 \* \*  
 \* Max Chl Dpth (m) \* 2.91 \* Hydr. Depth (m) \* \* 1.96 \* \*  
 \* Conv. Total (m3/s) \* 582.8 \* Conv. (m3/s) \* \* 582.8 \* \*  
 \* Length Wtd. (m) \* 8.38 \* Wetted Per. (m) \* \* 12.38 \* \*  
 \* Min Ch El (m) \* 240.74 \* Shear (N/sq m) \* \* 210.36 \* \*  
 \* Alpha 1.00 \* Stream Power (N/m s) \* \* 925.37 \* \*  
 \* Frctn Loss (m) \* 0.13 \* Cum Volume (cu m x 10^4) \* 0.00 \* 0.00 \* \*  
 \* C & E Loss (m) \* 0.03 \* Cum SA (1000 m2) \* 0.00 \* 0.11 \* \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 3 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 245.20 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.06 \* Wt. n-Val \* \* 0.035 \* \*  
 \* W.S. Elev (m) \* 244.15 \* Reach Len. (m) \* 8.33 \* 8.38 \* 8.51 \*  
 \* Crit W.S. (m) \* 244.15 \* Flow Area (m2) \* \* 21.56 \* \*  
 \* E.G. Slope (m/m) \* 0.015714 \* Area (m2) \* \* 21.56 \* \*  
 \* Q Total (m3/s) \* 98.17 \* Flow (m3/s) \* \* 98.17 \* \*  
 \* Top Width (m) \* 10.31 \* Top Width (m) \* \* 10.31 \* \*  
 \* Vel Total (m/s) \* 4.55 \* Avg. Vel. (m/s) \* \* 4.55 \* \*  
 \* Max Chl Dpth (m) \* 3.40 \* Hydr. Depth (m) \* \* 2.09 \* \*  
 \* Conv. Total (m3/s) \* 783.1 \* Conv. (m3/s) \* \* 783.1 \* \*  
 \* Length Wtd. (m) \* 8.38 \* Wetted Per. (m) \* \* 15.04 \* \*  
 \* Min Ch El (m) \* 240.74 \* Shear (N/sq m) \* \* 220.89 \* \*  
 \* Alpha 1.00 \* Stream Power (N/m s) \* \* 1005.76 \* \*  
 \* Frctn Loss (m) \* 0.13 \* Cum Volume (cu m x 10^4) \* 0.00 \* 0.00 \* \*  
 \* C & E Loss (m) \* 0.01 \* Cum SA (1000 m2) \* 0.00 \* 0.12 \* \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 3 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 245.87 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.27 \* Wt. n-Val \* \* 0.035 \* \*  
 \* W.S. Elev (m) \* 244.60 \* Reach Len. (m) \* 8.33 \* 8.38 \* 8.51 \*  
 \* Crit W.S. (m) \* 244.60 \* Flow Area (m2) \* \* 26.19 \* \*  
 \* E.G. Slope (m/m) \* 0.015769 \* Area (m2) \* \* 26.19 \* \*  
 \* Q Total (m3/s) \* 130.88 \* Flow (m3/s) \* \* 130.88 \* \*  
 \* Top Width (m) \* 10.38 \* Top Width (m) \* \* 10.38 \* \*  
 \* Vel Total (m/s) \* 5.00 \* Avg. Vel. (m/s) \* \* 5.00 \* \*  
 \* Max Chl Dpth (m) \* 3.85 \* Hydr. Depth (m) \* \* 2.52 \* \*  
 \* Conv. Total (m3/s) \* 1042.3 \* Conv. (m3/s) \* \* 1042.3 \* \*  
 \* Length Wtd. (m) \* 8.38 \* Wetted Per. (m) \* \* 15.94 \* \*  
 \* Min Ch El (m) \* 240.74 \* Shear (N/sq m) \* \* 254.12 \* \*  
 \* Alpha 1.00 \* Stream Power (N/m s) \* \* 1269.64 \* \*  
 \* Frctn Loss (m) \* 0.13 \* Cum Volume (cu m x 10^4) \* 0.00 \* 0.00 \* \*  
 \* C & E Loss (m) \* 0.02 \* Cum SA (1000 m2) \* 0.00 \* 0.13 \* \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 4  
 Description:

Station Elevation Data, num = 14  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0246.94342.229633246.5746 2.45295243.66374.132448242.63654.689152241.6581  
 6.219173241.34426.997379241.08518.450525241.29549.777892241.377710.28576241.7374  
 12.44072 241.33212.89714246.4313 13.6662246.934215.92131246.6477

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .0452.229633 .03512.89714 .045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 2.22963 12.8971 9.71 8.31 7.45 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 4 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 244.76 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.38 \* Wt. n-Val \* \* 0.035 \* \*  
 \* W.S. Elev (m) \* 244.38 \* Reach Len. (m) \* 9.71 \* 8.31 \* 7.45 \*  
 \* Crit W.S. (m) \* 243.47 \* Flow Area (m2) \* \* 26.86 \* \*  
 \* E.G. Slope (m/m) \* 0.004168 \* Area (m2) \* \* 26.86 \* \*  
 \* Q Total (m3/s) \* 73.48 \* Flow (m3/s) \* \* 73.48 \* \*  
 \* Top Width (m) \* 10.32 \* Top Width (m) \* \* 10.32 \* \*

```

* Vel Total (m/s) * 2.74 * Avg. Vel. (m/s) * * 2.74 *
* Max Chl Dpth (m) * 3.30 * Hydr. Depth (m) * * 2.60 *
* Conv. Total (m3/s) * 1138.1 * Conv. (m3/s) * * 1138.1 *
* Length Wtd. (m) * 8.31 * Wetted Per. (m) * * 14.87 *
* Min Ch El (m) * 241.09 * Shear (N/sq m) * * 73.84 *
* Alpha * 1.00 * Stream Power (N/m s) * * 202.01 *
* Frctn Loss (m) * 0.06 * Cum Volume (cu m x 10^ * 0.00 * 0.00 *
* C & E Loss (m) * 0.06 * Cum SA (1000 m2) * * 0.00 * 0.19 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 4 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 245.33 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.49 * Wt. n-Val * * 0.035 * *
* W.S. Elev (m) * 244.83 * Reach Len. (m) * 9.71 * 8.31 * 7.45 *
* Crit W.S. (m) * 243.86 * Flow Area (m2) * * 31.53 * *
* E.G. Slope (m/m) * 0.004717 * Area (m2) * * 31.53 * *
* Q Total (m3/s) * 98.17 * Flow (m3/s) * * 98.17 * *
* Top Width (m) * 10.39 * Top Width (m) * * 10.39 * *
* Vel Total (m/s) * 3.11 * Avg. Vel. (m/s) * * 3.11 * *
* Max Chl Dpth (m) * 3.75 * Hydr. Depth (m) * * 3.03 * *
* Conv. Total (m3/s) * 1429.3 * Conv. (m3/s) * * 1429.3 * *
* Length Wtd. (m) * 8.31 * Wetted Per. (m) * * 15.77 * *
* Min Ch El (m) * 241.09 * Shear (N/sq m) * * 92.46 * *
* Alpha * 1.00 * Stream Power (N/m s) * * 287.90 * *
* Frctn Loss (m) * 0.07 * Cum Volume (cu m x 10^ * 0.00 * 0.00 *
* C & E Loss (m) * 0.06 * Cum SA (1000 m2) * * 0.00 * 0.21 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 4 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 246.00 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.63 * Wt. n-Val * * 0.035 * *
* W.S. Elev (m) * 245.37 * Reach Len. (m) * 9.71 * 8.31 * 7.45 *
* Crit W.S. (m) * 244.31 * Flow Area (m2) * * 37.13 * *
* E.G. Slope (m/m) * 0.005307 * Area (m2) * * 37.13 * *
* Q Total (m3/s) * 130.88 * Flow (m3/s) * * 130.88 * *
* Top Width (m) * 10.48 * Top Width (m) * * 10.48 * *
* Vel Total (m/s) * 3.52 * Avg. Vel. (m/s) * * 3.52 * *
* Max Chl Dpth (m) * 4.28 * Hydr. Depth (m) * * 3.54 * *
* Conv. Total (m3/s) * 1796.6 * Conv. (m3/s) * * 1796.6 * *
* Length Wtd. (m) * 8.31 * Wetted Per. (m) * * 16.85 * *
* Min Ch El (m) * 241.09 * Shear (N/sq m) * * 114.68 * *
* Alpha * 1.00 * Stream Power (N/m s) * * 404.17 * *
* Frctn Loss (m) * 0.07 * Cum Volume (cu m x 10^ * 0.00 * 0.00 *
* C & E Loss (m) * 0.06 * Cum SA (1000 m2) * * 0.00 * 0.22 *
*****

```

CROSS SECTION INPUT River Station: 5  
Description: Observed HWM = 245.41 m (805.15 ft)

```

Station Elevation Data, num = 17
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0 247.428 4.04228246.03515.989963245.66327.267352243.56019.875295 243.621
12.6137243.7673 15.4429245.413317.32356245.666220.23897245.224325.62195245.1938
36.99097245.382844.81493245.346249.68757245.196960.02294245.410261.93771245.9101
63.93207247.1781 64.9334247.3945

```

```

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .0355.989963 .03 15.4429 .035

```

```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
5.98996 15.4429 151.64 152.43 146.94 0.1 0.3

```

```

CROSS SECTION OUTPUT Riv Sta: 5 Profile # Storm Event
*****
* E.G. Elev (m) * 246.71 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.28 * Wt. n-Val * * 0.030 * *
* W.S. Elev (m) * 245.43 * Reach Len. (m) * 151.64 * 152.43 * 146.94 *
* Crit W.S. (m) * 245.81 * Flow Area (m2) * * 12.98 * *
* E.G. Slope (m/m) * 0.019213 * Area (m2) * * 12.98 * *
* Q Total (m3/s) * 73.48 * Flow (m3/s) * * 67.78 * *
* Top Width (m) * 50.64 * Top Width (m) * * 9.31 * *
* Vel Total (m/s) * 3.97 * Avg. Vel. (m/s) * * 5.22 * *
* Max Chl Dpth (m) * 1.87 * Hydr. Depth (m) * * 1.39 * *
* Conv. Total (m3/s) * 530.1 * Conv. (m3/s) * * 489.0 * *
* Length Wtd. (m) * 151.46 * Wetted Per. (m) * * 10.81 * *
* Min Ch El (m) * 243.56 * Shear (N/sq m) * * 226.27 * *
* Alpha * 1.60 * Stream Power (N/m s) * * 1181.19 * *
* Frctn Loss (m) * 3.01 * Cum Volume (cu m x 10^ * 0.00 * 0.00 *
* C & E Loss (m) * 0.00 * Cum SA (1000 m2) * * 0.00 * 1.68 * 3.04 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 5 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 246.87 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.30 * Wt. n-Val * * 0.030 * *
* W.S. Elev (m) * 245.57 * Reach Len. (m) * 151.64 * 152.43 * 146.94 *
* Crit W.S. (m) * 245.94 * Flow Area (m2) * * 14.27 * *
* E.G. Slope (m/m) * 0.019624 * Area (m2) * * 14.27 * *
* Q Total (m3/s) * 98.17 * Flow (m3/s) * * 79.45 * *
* Top Width (m) * 53.20 * Top Width (m) * * 9.39 * *
* Vel Total (m/s) * 3.82 * Avg. Vel. (m/s) * * 5.56 * *
* Max Chl Dpth (m) * 2.01 * Hydr. Depth (m) * * 1.52 * *
* Conv. Total (m3/s) * 700.8 * Conv. (m3/s) * * 567.1 * *
* Length Wtd. (m) * 151.29 * Wetted Per. (m) * * 10.97 * *
* Min Ch El (m) * 243.56 * Shear (N/sq m) * * 250.38 * *
* Alpha * 1.75 * Stream Power (N/m s) * * 1393.37 * *
* Frctn Loss (m) * 3.02 * Cum Volume (cu m x 10^ * 0.00 * 0.00 *
* C & E Loss (m) * 0.00 * Cum SA (1000 m2) * * 0.00 * 1.71 * 3.22 *

```

```

*****
CROSS SECTION OUTPUT Riv Sta: 5 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 247.05 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.34 * Wt. n-Val * 0.035 * 0.030 * 0.035 *
* W.S. Elev (m) * 245.71 * Reach Len. (m) * 151.64 * 152.43 * 146.94 *
* Crit W.S. (m) * 246.09 * Flow Area (m2) * 0.01 * 15.60 * 17.71 *
* E.G. Slope (m/m) * 0.020166 * Area (m2) * 0.01 * 15.60 * 17.71 *
* Q Total (m3/s) * 130.88 * Flow (m3/s) * 0.00 * 92.75 * 38.13 *
* Top Width (m) * 55.41 * Top Width (m) * 0.24 * 9.45 * 45.72 *
* Vel Total (m/s) * 3.93 * Avg. Vel. (m/s) * 0.32 * 5.94 * 2.15 *
* Max Chl Dpth (m) * 2.15 * Hydr. Depth (m) * 0.02 * 1.65 * 0.39 *
* Conv. Total (m3/s) * 921.6 * Conv. (m3/s) * 0.0 * 653.1 * 268.5 *
* Length Wtd. (m) * 150.93 * Wetted Per. (m) * 0.24 * 11.08 * 45.82 *
* Min Ch El (m) * 243.56 * Shear (N/sq m) * 4.37 * 278.35 * 76.45 *
* Alpha * 1.71 * Stream Power (N/m s) * 1.39 * 1654.76 * 164.60 *
* Frctn Loss (m) * 3.03 * Cum Volume (cu m x 10^ * 0.00 * 0.00 * 0.00 *
* C & E Loss (m) * 0.00 * Cum SA (1000 m2) * 0.02 * 1.74 * 3.36 *
*****

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CROSS SECTION INPUT River Station: 6  
Description: Observed HWM = 248.35 m (814.81 ft)

```

Station Elevation Data, num = 26
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0 251.03 2.94249.4945 4.08248.3546 5.95248.1138 20248.2814
28.37248.1016 29.73247.6688 30.46246.6081 32.48246.5105 34.22246.6386
34.96247.0805 35.94247.1781 36.8248.1047 37.96248.3668 43.42 248.443
45.08 248.25 49.46 248.5 51.35 248.75 52.54 249 53.64 249.25
54.64 249.5 55.54 249.75 56.45 250 57.34 250.25 58.16 250.5
59.05 250.75

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Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .035 28.37 .03 36.8 .035

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Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
28.37 36.8 146.08 157.2 150.88 0.1 0.3

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*****
CROSS SECTION OUTPUT Riv Sta: 6 Profile # Storm Event
*****
* E.G. Elev (m) * 249.73 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.29 * Wt. n-Val * 0.035 * 0.030 * 0.035 *
* W.S. Elev (m) * 248.44 * Reach Len. (m) * 146.08 * 157.20 * 150.88 *
* Crit W.S. (m) * 248.81 * Flow Area (m2) * 5.88 * 11.89 * 0.90 *
* E.G. Slope (m/m) * 0.019426 * Area (m2) * 5.88 * 11.89 * 0.90 *
* Q Total (m3/s) * 73.48 * Flow (m3/s) * 9.05 * 63.75 * 0.67 *
* Top Width (m) * 44.19 * Top Width (m) * 24.37 * 8.43 * 11.38 *
* Vel Total (m/s) * 3.94 * Avg. Vel. (m/s) * 1.54 * 5.36 * 0.75 *
* Max Chl Dpth (m) * 1.93 * Hydr. Depth (m) * 0.24 * 1.41 * 0.08 *
* Conv. Total (m3/s) * 527.2 * Conv. (m3/s) * 65.0 * 457.4 * 4.8 *
* Length Wtd. (m) * 156.24 * Wetted Per. (m) * 24.43 * 9.59 * 11.43 *
* Min Ch El (m) * 246.51 * Shear (N/sq m) * 45.84 * 236.14 * 15.04 *
* Alpha * 1.63 * Stream Power (N/m s) * 70.62 * 1265.92 * 11.21 *
* Frctn Loss (m) * 2.32 * Cum Volume (cu m x 10^ * 0.00 * 0.01 * 0.00 *
* C & E Loss (m) * 0.05 * Cum SA (1000 m2) * 1.78 * 3.08 * 7.01 *
*****

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*****
CROSS SECTION OUTPUT Riv Sta: 6 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 249.89 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.31 * Wt. n-Val * 0.035 * 0.030 * 0.035 *
* W.S. Elev (m) * 248.59 * Reach Len. (m) * 146.08 * 157.20 * 150.88 *
* Crit W.S. (m) * 248.96 * Flow Area (m2) * 9.42 * 13.11 * 2.73 *
* E.G. Slope (m/m) * 0.019267 * Area (m2) * 9.42 * 13.11 * 2.73 *
* Q Total (m3/s) * 98.17 * Flow (m3/s) * 19.68 * 74.73 * 3.76 *
* Top Width (m) * 46.25 * Top Width (m) * 24.52 * 8.43 * 13.30 *
* Vel Total (m/s) * 3.89 * Avg. Vel. (m/s) * 2.09 * 5.70 * 1.38 *
* Max Chl Dpth (m) * 2.07 * Hydr. Depth (m) * 0.38 * 1.56 * 0.21 *
* Conv. Total (m3/s) * 707.2 * Conv. (m3/s) * 141.8 * 538.4 * 27.1 *
* Length Wtd. (m) * 155.36 * Wetted Per. (m) * 24.63 * 9.59 * 13.36 *
* Min Ch El (m) * 246.51 * Shear (N/sq m) * 72.25 * 258.27 * 38.65 *
* Alpha * 1.70 * Stream Power (N/m s) * 150.96 * 1471.77 * 53.21 *
* Frctn Loss (m) * 2.33 * Cum Volume (cu m x 10^ * 0.00 * 0.01 * 0.00 *
* C & E Loss (m) * 0.05 * Cum SA (1000 m2) * 1.79 * 3.12 * 7.53 *
*****

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*****
CROSS SECTION OUTPUT Riv Sta: 6 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 250.08 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.34 * Wt. n-Val * 0.035 * 0.030 * 0.035 *
* W.S. Elev (m) * 248.74 * Reach Len. (m) * 146.08 * 157.20 * 150.88 *
* Crit W.S. (m) * 249.14 * Flow Area (m2) * 13.27 * 14.43 * 4.91 *
* E.G. Slope (m/m) * 0.019002 * Area (m2) * 13.27 * 14.43 * 4.91 *
* Q Total (m3/s) * 130.88 * Flow (m3/s) * 34.42 * 87.09 * 9.37 *
* Top Width (m) * 47.60 * Top Width (m) * 24.68 * 8.43 * 14.49 *
* Vel Total (m/s) * 4.01 * Avg. Vel. (m/s) * 2.59 * 6.03 * 1.91 *
* Max Chl Dpth (m) * 2.23 * Hydr. Depth (m) * 0.54 * 1.71 * 0.34 *
* Conv. Total (m3/s) * 949.4 * Conv. (m3/s) * 249.7 * 631.8 * 68.0 *
* Length Wtd. (m) * 154.59 * Wetted Per. (m) * 24.85 * 9.59 * 14.55 *
* Min Ch El (m) * 246.51 * Shear (N/sq m) * 99.53 * 280.38 * 62.88 *
* Alpha * 1.63 * Stream Power (N/m s) * 258.05 * 1691.67 * 120.02 *
* Frctn Loss (m) * 2.39 * Cum Volume (cu m x 10^ * 0.00 * 0.01 * 0.00 *
* C & E Loss (m) * 0.04 * Cum SA (1000 m2) * 1.84 * 3.14 * 7.90 *
*****

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CROSS SECTION INPUT River Station: 7  
Description: Observed HWM = 251.11 m (823.85 ft)

Station Elevation Data, num = 30

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
-2.6	256.25	0	252.32	1.18251	241.1	4.25251	0.033	5.53249	942.6
6.09249	7932	7.47	249.65	9.6249	6896	11.09249	8024	12.39250	7046
13.8251	2929	14.95250	7839	18.9250	7564	27.61251	0033	36.29251	0033
38.92	251.11	46.4251	1069	48.38	251.11	49.43251	2136	50.92251	6068
52.26251	6617	52.64251	6586	55.08251	6099	57.66251	4209	58.66251	3081
59.56251	5459	72.85	252.75	73.73	253	75.25	253.5	77.06	254.25

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 -2.6 .05 4.25 .03 12.39 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 4.25 12.39 149.36 151.67 142.61 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 7 Profile # Storm Event  
 \* E.G. Elev (m) \* 252.10 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.75 \* Wt. n-Val \* 0.050 \* 0.030 \* 0.035 \*  
 \* W.S. Elev (m) \* 251.34 \* Reach Len. (m) \* 149.36 \* 151.67 \* 142.61 \*  
 \* Crit W.S. (m) \* 251.58 \* Flow Area (m2) \* 0.69 \* 11.55 \* 13.35 \*  
 \* E.G. Slope (m/m) \* 0.012561 \* Area (m2) \* 0.69 \* 11.55 \* 13.35 \*  
 \* Q Total (m3/s) \* 73.48 \* Flow (m3/s) \* 0.55 \* 51.59 \* 21.34 \*  
 \* Top Width (m) \* 49.32 \* Top Width (m) \* 3.18 \* 8.14 \* 38.00 \*  
 \* Vel Total (m/s) \* 2.87 \* Avg. Vel. (m/s) \* 0.80 \* 4.47 \* 1.60 \*  
 \* Max Chl Dpth (m) \* 1.69 \* Hydr. Depth (m) \* 0.22 \* 1.42 \* 0.35 \*  
 \* Conv. Total (m3/s) \* 655.6 \* Conv. (m3/s) \* 4.9 \* 460.3 \* 190.4 \*  
 \* Length Wtd. (m) \* 150.16 \* Wetted Per. (m) \* 3.23 \* 8.84 \* 38.26 \*  
 \* Min Ch El (m) \* 249.65 \* Shear (N/sq m) \* 26.26 \* 161.03 \* 42.98 \*  
 \* Alpha \* 1.79 \* Stream Power (N/m s) \* 21.00 \* 719.24 \* 68.70 \*  
 \* Frctn Loss (m) \* 2.39 \* Cum Volume (cu m x 10^4) \* 0.00 \* 0.01 \* 0.00 \*  
 \* C & E Loss (m) \* 0.04 \* Cum SA (1000 m2) \* 3.84 \* 4.33 \* 10.54 \*

CROSS SECTION OUTPUT Riv Sta: 7 Profile # 25 yr Storm  
 \* E.G. Elev (m) \* 252.28 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.80 \* Wt. n-Val \* 0.050 \* 0.030 \* 0.035 \*  
 \* W.S. Elev (m) \* 251.48 \* Reach Len. (m) \* 149.36 \* 151.67 \* 142.61 \*  
 \* Crit W.S. (m) \* 251.66 \* Flow Area (m2) \* 1.11 \* 12.61 \* 18.46 \*  
 \* E.G. Slope (m/m) \* 0.012925 \* Area (m2) \* 1.11 \* 12.61 \* 18.46 \*  
 \* Q Total (m3/s) \* 98.17 \* Flow (m3/s) \* 1.20 \* 60.61 \* 36.36 \*  
 \* Top Width (m) \* 51.88 \* Top Width (m) \* 3.33 \* 8.14 \* 40.41 \*  
 \* Vel Total (m/s) \* 3.05 \* Avg. Vel. (m/s) \* 1.08 \* 4.80 \* 1.97 \*  
 \* Max Chl Dpth (m) \* 1.83 \* Hydr. Depth (m) \* 0.34 \* 1.55 \* 0.46 \*  
 \* Conv. Total (m3/s) \* 863.5 \* Conv. (m3/s) \* 10.5 \* 533.1 \* 319.8 \*  
 \* Length Wtd. (m) \* 149.57 \* Wetted Per. (m) \* 3.43 \* 8.84 \* 40.71 \*  
 \* Min Ch El (m) \* 249.65 \* Shear (N/sq m) \* 41.22 \* 180.95 \* 57.48 \*  
 \* Alpha \* 1.69 \* Stream Power (N/m s) \* 44.33 \* 869.40 \* 113.22 \*  
 \* Frctn Loss (m) \* 2.40 \* Cum Volume (cu m x 10^4) \* 0.00 \* 0.01 \* 0.00 \*  
 \* C & E Loss (m) \* 0.04 \* Cum SA (1000 m2) \* 3.87 \* 4.37 \* 11.36 \*

CROSS SECTION OUTPUT Riv Sta: 7 Profile # 100 yr Storm  
 \* E.G. Elev (m) \* 252.50 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.89 \* Wt. n-Val \* 0.050 \* 0.030 \* 0.035 \*  
 \* W.S. Elev (m) \* 251.61 \* Reach Len. (m) \* 149.36 \* 151.67 \* 142.61 \*  
 \* Crit W.S. (m) \* 251.91 \* Flow Area (m2) \* 1.58 \* 13.73 \* 24.21 \*  
 \* E.G. Slope (m/m) \* 0.013720 \* Area (m2) \* 1.58 \* 13.73 \* 24.21 \*  
 \* Q Total (m3/s) \* 130.88 \* Flow (m3/s) \* 2.13 \* 71.92 \* 56.84 \*  
 \* Top Width (m) \* 55.62 \* Top Width (m) \* 3.48 \* 8.14 \* 44.01 \*  
 \* Vel Total (m/s) \* 3.31 \* Avg. Vel. (m/s) \* 1.35 \* 5.24 \* 2.35 \*  
 \* Max Chl Dpth (m) \* 1.96 \* Hydr. Depth (m) \* 0.45 \* 1.69 \* 0.55 \*  
 \* Conv. Total (m3/s) \* 1117.4 \* Conv. (m3/s) \* 18.2 \* 614.0 \* 485.2 \*  
 \* Length Wtd. (m) \* 149.05 \* Wetted Per. (m) \* 3.63 \* 8.84 \* 44.34 \*  
 \* Min Ch El (m) \* 249.65 \* Shear (N/sq m) \* 58.59 \* 209.06 \* 73.47 \*  
 \* Alpha \* 1.60 \* Stream Power (N/m s) \* 78.85 \* 1095.05 \* 172.45 \*  
 \* Frctn Loss (m) \* 2.41 \* Cum Volume (cu m x 10^4) \* 0.00 \* 0.01 \* 0.01 \*  
 \* C & E Loss (m) \* 0.03 \* Cum SA (1000 m2) \* 3.94 \* 4.40 \* 12.07 \*

CROSS SECTION INPUT River Station: 8  
 Description: Observed HWM = 253.74 m (832.51 ft)

Station Elevation Data, num = 15

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0254.67925	674349254.3592	8.19244254	109212.63695253	274121.83269253	3411	32.1181	253.27136	90379252.816938	29123252.146340
42629252	103642.64548252	2499	44.60166252	917549.40637	253.268	50.5722253	749652.61311255	3559	53.313255

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 0 .0436 90379 .03544 60166 .04

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 36.9038 44.6017 148.63 148.39 146.83 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 8 Profile # Storm Event  
 \* E.G. Elev (m) \* 254.52 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.89 \* Wt. n-Val \* 0.040 \* 0.035 \* 0.040 \*  
 \* W.S. Elev (m) \* 253.63 \* Reach Len. (m) \* 148.63 \* 148.39 \* 146.83 \*  
 \* Crit W.S. (m) \* 253.90 \* Flow Area (m2) \* 9.54 \* 10.11 \* 2.76 \*  
 \* E.G. Slope (m/m) \* 0.021395 \* Area (m2) \* 9.54 \* 10.11 \* 2.76 \*  
 \* Q Total (m3/s) \* 73.48 \* Flow (m3/s) \* 17.78 \* 49.52 \* 6.18 \*  
 \* Top Width (m) \* 39.57 \* Top Width (m) \* 26.18 \* 7.70 \* 5.69 \*  
 \* Vel Total (m/s) \* 3.28 \* Avg. Vel. (m/s) \* 1.86 \* 4.90 \* 2.24 \*

* Max Chl Dpth (m)	* 1.53	* Hydr. Depth (m)	* 0.36	* 1.31	* 0.49
* Conv. Total (m3/s)	* 502.4	* Conv. (m3/s)	* 121.6	* 338.5	* 42.2
* Length Wtd. (m)	* 148.13	* Wetted Per. (m)	* 26.24	* 7.97	* 5.78
* Min Ch El (m)	* 252.10	* Shear (N/sq m)	* 76.32	* 266.23	* 100.36
* Alpha	* 1.62	* Stream Power (N/m s)	* 142.21	* 1304.02	* 224.45
* Frctn Loss (m)	* 3.43	* Cum Volume (cu m x 10^4)	* 0.00	* 0.01	* 0.00
* C & E Loss (m)	* 0.00	* Cum SA (1000 m2)	* 6.02	* 5.51	* 13.74

CROSS SECTION OUTPUT Riv Sta: 8 Profile # 25 yr Storm

* E.G. Elev (m)	* 254.71	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.93	* Wt. n-Val	* 0.040	* 0.035	* 0.040
* W.S. Elev (m)	* 253.78	* Reach Len. (m)	* 148.63	* 148.39	* 146.83
* Crit W.S. (m)	* 254.06	* Flow Area (m2)	* 13.44	* 11.24	* 3.62
* E.G. Slope (m/m)	* 0.020924	* Area (m2)	* 13.44	* 11.24	* 3.62
* Q Total (m3/s)	* 98.17	* Flow (m3/s)	* 30.51	* 58.43	* 9.23
* Top Width (m)	* 40.67	* Top Width (m)	* 26.96	* 7.70	* 6.01
* Vel Total (m/s)	* 3.47	* Avg. Vel. (m/s)	* 2.27	* 5.20	* 2.55
* Max Chl Dpth (m)	* 1.68	* Hydr. Depth (m)	* 0.50	* 1.46	* 0.60
* Conv. Total (m3/s)	* 678.7	* Conv. (m3/s)	* 211.0	* 403.9	* 63.8
* Length Wtd. (m)	* 148.07	* Wetted Per. (m)	* 27.03	* 7.97	* 6.13
* Min Ch El (m)	* 252.10	* Shear (N/sq m)	* 102.05	* 289.47	* 121.31
* Alpha	* 1.52	* Stream Power (N/m s)	* 231.64	* 1504.76	* 309.00
* Frctn Loss (m)	* 3.41	* Cum Volume (cu m x 10^4)	* 0.00	* 0.01	* 0.01
* C & E Loss (m)	* 0.01	* Cum SA (1000 m2)	* 6.12	* 5.55	* 14.76

CROSS SECTION OUTPUT Riv Sta: 8 Profile # 100 yr Storm

* E.G. Elev (m)	* 254.93	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.98	* Wt. n-Val	* 0.040	* 0.035	* 0.040
* W.S. Elev (m)	* 253.96	* Reach Len. (m)	* 148.63	* 148.39	* 146.83
* Crit W.S. (m)	* 254.25	* Flow Area (m2)	* 18.29	* 12.60	* 4.70
* E.G. Slope (m/m)	* 0.019871	* Area (m2)	* 18.29	* 12.60	* 4.70
* Q Total (m3/s)	* 130.88	* Flow (m3/s)	* 48.53	* 68.87	* 13.48
* Top Width (m)	* 41.84	* Top Width (m)	* 27.90	* 7.70	* 6.23
* Vel Total (m/s)	* 3.68	* Avg. Vel. (m/s)	* 2.65	* 5.47	* 2.87
* Max Chl Dpth (m)	* 1.85	* Hydr. Depth (m)	* 0.66	* 1.64	* 0.75
* Conv. Total (m3/s)	* 928.5	* Conv. (m3/s)	* 344.3	* 488.6	* 95.6
* Length Wtd. (m)	* 148.02	* Wetted Per. (m)	* 27.99	* 7.97	* 6.41
* Min Ch El (m)	* 252.10	* Shear (N/sq m)	* 127.33	* 308.14	* 142.92
* Alpha	* 1.42	* Stream Power (N/m s)	* 337.88	* 1684.47	* 409.60
* Frctn Loss (m)	* 3.38	* Cum Volume (cu m x 10^4)	* 0.00	* 0.01	* 0.01
* C & E Loss (m)	* 0.01	* Cum SA (1000 m2)	* 6.28	* 5.57	* 15.76

CROSS SECTION INPUT River Station: 9  
Description: Observed HWM = 257.09 m (843.47 ft)

Station Elevation Data, num = 20

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0258.2301	9940325256.84337	388337256.718310	89851256.361719	61649256.5415	21.07488256.788423	066882	255.49325	05315255.3741	26.6568255.578428
01423256.5964	29.23126256.690935	26208256.596442	20399256.873852	44457256.916456	62914257.2243	56.69127257.023157	96895257.090259	51438257.407261	13483257.632768
42827257.5992									

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.0621	07488	.03528	01423	.04

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
21.0749	28.0142	145.91	144.42	138.24	0.1	0.3	

CROSS SECTION OUTPUT Riv Sta: 9 Profile # Storm Event

* E.G. Elev (m)	* 257.96	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.90	* Wt. n-Val	* 0.060	* 0.035	* 0.040
* W.S. Elev (m)	* 257.06	* Reach Len. (m)	* 145.91	* 144.42	* 138.24
* Crit W.S. (m)	* 257.33	* Flow Area (m2)	* 9.48	* 8.91	* 7.08
* E.G. Slope (m/m)	* 0.026706	* Area (m2)	* 9.48	* 8.91	* 7.08
* Q Total (m3/s)	* 73.48	* Flow (m3/s)	* 15.51	* 45.96	* 12.01
* Top Width (m)	* 54.23	* Top Width (m)	* 20.24	* 6.94	* 27.06
* Vel Total (m/s)	* 2.88	* Avg. Vel. (m/s)	* 1.64	* 5.16	* 1.70
* Max Chl Dpth (m)	* 1.68	* Hydr. Depth (m)	* 0.47	* 1.28	* 0.26
* Conv. Total (m3/s)	* 449.6	* Conv. (m3/s)	* 94.9	* 281.2	* 73.5
* Length Wtd. (m)	* 143.99	* Wetted Per. (m)	* 20.39	* 7.68	* 27.10
* Min Ch El (m)	* 255.37	* Shear (N/sq m)	* 121.83	* 303.97	* 68.46
* Alpha	* 2.12	* Stream Power (N/m s)	* 199.22	* 1567.46	* 116.10
* Frctn Loss (m)	* 2.53	* Cum Volume (cu m x 10^4)	* 0.00	* 0.01	* 0.00
* C & E Loss (m)	* 0.04	* Cum SA (1000 m2)	* 9.41	* 6.57	* 16.01

CROSS SECTION OUTPUT Riv Sta: 9 Profile # 25 yr Storm

* E.G. Elev (m)	* 258.12	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.95	* Wt. n-Val	* 0.060	* 0.035	* 0.040
* W.S. Elev (m)	* 257.17	* Reach Len. (m)	* 145.91	* 144.42	* 138.24
* Crit W.S. (m)	* 257.46	* Flow Area (m2)	* 11.84	* 9.72	* 10.39
* E.G. Slope (m/m)	* 0.027403	* Area (m2)	* 11.84	* 9.72	* 10.39
* Q Total (m3/s)	* 98.17	* Flow (m3/s)	* 22.62	* 53.77	* 21.77
* Top Width (m)	* 56.94	* Top Width (m)	* 20.32	* 6.94	* 29.68
* Vel Total (m/s)	* 3.07	* Avg. Vel. (m/s)	* 1.91	* 5.53	* 2.09
* Max Chl Dpth (m)	* 1.80	* Hydr. Depth (m)	* 0.58	* 1.40	* 0.35
* Conv. Total (m3/s)	* 593.0	* Conv. (m3/s)	* 136.7	* 324.8	* 131.5
* Length Wtd. (m)	* 143.85	* Wetted Per. (m)	* 20.53	* 7.68	* 29.82
* Min Ch El (m)	* 255.37	* Shear (N/sq m)	* 154.94	* 340.09	* 93.67
* Alpha	* 1.97	* Stream Power (N/m s)	* 296.13	* 1881.90	* 196.22
* Frctn Loss (m)	* 2.71	* Cum Volume (cu m x 10^4)	* 0.00	* 0.01	* 0.01
* C & E Loss (m)	* 0.09	* Cum SA (1000 m2)	* 9.57	* 6.60	* 17.23

CROSS SECTION OUTPUT Riv Sta: 9 Profile # 100 yr Storm

		Element	Left OB	Channel	Right OB
* E.G. Elev (m)	* 258.32				
* Vel Head (m)	* 1.02	* Wt. n-Val	* 0.060	* 0.035	* 0.040
* W.S. Elev (m)	* 257.30	* Reach Len. (m)	* 145.91	* 144.42	* 138.24
* Crit W.S. (m)	* 257.60	* Flow Area (m2)	* 14.45	* 10.61	* 14.32
* E.G. Slope (m/m)	* 0.028248	* Area (m2)	* 14.45	* 10.61	* 14.32
* Q Total (m3/s)	* 130.88	* Flow (m3/s)	* 31.88	* 63.20	* 35.81
* Top Width (m)	* 58.34	* Top Width (m)	* 20.41	* 6.94	* 30.99
* Vel Total (m/s)	* 3.32	* Avg. Vel. (m/s)	* 2.21	* 5.96	* 2.50
* Max Chl Dpth (m)	* 1.93	* Hydr. Depth (m)	* 0.71	* 1.53	* 0.46
* Conv. Total (m3/s)	* 778.7	* Conv. (m3/s)	* 189.7	* 376.0	* 213.0
* Length Wtd. (m)	* 143.71	* Wetted Per. (m)	* 20.69	* 7.68	* 31.19
* Min Ch El (m)	* 255.37	* Shear (N/sq m)	* 193.53	* 382.73	* 127.19
* Alpha	* 1.81	* Stream Power (N/m s)	* 426.83	* 2279.88	* 318.07
* Frctn Loss (m)	* 2.91	* Cum Volume (cu m x 10^4)	* 0.01	* 0.01	* 0.01
* C & E Loss (m)	* 0.14	* Cum SA (1000 m2)	* 9.80	* 6.63	* 18.33

CROSS SECTION INPUT River Station: 10  
Description: Observed HWM = 260.88 m (855.91 ft)

Station Elevation Data, num = 28

Sta. Elev.	Sta. Elev.	Sta. Elev.	Sta. Elev.	Sta. Elev.
0	262.322	072369260.79663	809194258.99824	569391258.67828
13.4517	258.60217	98846258.638620	29117	258.47421
22.22631257	492524	92453257.532125	32677257.6236	26.17
29.12404259	379233	90917	259.74840	89949260.010246
58.74681260	485760	36361260.674661	46847260.817964	61516260.927667
68.62608261	000873	89961260.997779	69789261.3757	

Mannings n Values, num = 3

Sta. Value	Sta. Value	Sta. Value
0	.08520	29117
	.035	26.17
		.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	20.2912	26.17		114.5	117.01	117.97	0.1 0.3

Blocked Obstructions, num = 0

CROSS SECTION OUTPUT Riv Sta: 10 Profile # Storm Event

		Element	Left OB	Channel	Right OB
* E.G. Elev (m)	* 260.52				
* Vel Head (m)	* 1.03	* Wt. n-Val	* 0.085	* 0.035	* 0.035
* W.S. Elev (m)	* 259.49	* Reach Len. (m)	* 114.50	* 117.01	* 117.97
* Crit W.S. (m)	* 259.82	* Flow Area (m2)	* 13.22	* 10.43	* 1.21
* E.G. Slope (m/m)	* 0.018130	* Area (m2)	* 13.22	* 10.43	* 1.21
* Q Total (m3/s)	* 73.48	* Flow (m3/s)	* 17.53	* 54.04	* 1.91
* Top Width (m)	* 27.26	* Top Width (m)	* 16.96	* 5.88	* 4.42
* Vel Total (m/s)	* 2.96	* Avg. Vel. (m/s)	* 1.33	* 5.18	* 1.57
* Max Chl Dpth (m)	* 2.00	* Hydr. Depth (m)	* 0.78	* 1.77	* 0.27
* Conv. Total (m3/s)	* 545.7	* Conv. (m3/s)	* 130.2	* 401.3	* 14.2
* Length Wtd. (m)	* 116.54	* Wetted Per. (m)	* 17.25	* 6.67	* 4.66
* Min Ch El (m)	* 257.49	* Shear (N/sq m)	* 136.23	* 278.03	* 46.38
* Alpha	* 2.32	* Stream Power (N/m s)	* 180.70	* 1441.03	* 72.84
* Frctn Loss (m)	* 2.83	* Cum Volume (cu m x 10^4)	* 0.00	* 0.01	* 0.00
* C & E Loss (m)	* 0.02	* Cum SA (1000 m2)	* 11.54	* 7.32	* 17.86

CROSS SECTION OUTPUT Riv Sta: 10 Profile # 25 yr Storm

		Element	Left OB	Channel	Right OB
* E.G. Elev (m)	* 260.92				
* Vel Head (m)	* 1.24	* Wt. n-Val	* 0.085	* 0.035	* 0.035
* W.S. Elev (m)	* 259.68	* Reach Len. (m)	* 114.50	* 117.01	* 117.97
* Crit W.S. (m)	* 260.16	* Flow Area (m2)	* 16.48	* 11.55	* 2.30
* E.G. Slope (m/m)	* 0.020053	* Area (m2)	* 16.48	* 11.55	* 2.30
* Q Total (m3/s)	* 98.17	* Flow (m3/s)	* 26.37	* 67.43	* 4.37
* Top Width (m)	* 29.93	* Top Width (m)	* 17.14	* 5.88	* 6.91
* Vel Total (m/s)	* 3.24	* Avg. Vel. (m/s)	* 1.60	* 5.84	* 1.90
* Max Chl Dpth (m)	* 2.19	* Hydr. Depth (m)	* 0.96	* 1.97	* 0.33
* Conv. Total (m3/s)	* 693.3	* Conv. (m3/s)	* 186.2	* 476.2	* 30.8
* Length Wtd. (m)	* 116.51	* Wetted Per. (m)	* 17.52	* 6.67	* 7.15
* Min Ch El (m)	* 257.49	* Shear (N/sq m)	* 185.06	* 340.73	* 63.25
* Alpha	* 2.32	* Stream Power (N/m s)	* 296.05	* 1988.71	* 120.14
* Frctn Loss (m)	* 2.85	* Cum Volume (cu m x 10^4)	* 0.01	* 0.01	* 0.01
* C & E Loss (m)	* 0.00	* Cum SA (1000 m2)	* 11.72	* 7.35	* 19.39

CROSS SECTION OUTPUT Riv Sta: 10 Profile # 100 yr Storm

		Element	Left OB	Channel	Right OB
* E.G. Elev (m)	* 261.37				
* Vel Head (m)	* 1.48	* Wt. n-Val	* 0.085	* 0.035	* 0.035
* W.S. Elev (m)	* 259.89	* Reach Len. (m)	* 114.50	* 117.01	* 117.97
* Crit W.S. (m)	* 260.47	* Flow Area (m2)	* 20.04	* 12.76	* 4.13
* E.G. Slope (m/m)	* 0.022316	* Area (m2)	* 20.04	* 12.76	* 4.13
* Q Total (m3/s)	* 130.88	* Flow (m3/s)	* 38.10	* 83.99	* 8.79
* Top Width (m)	* 34.74	* Top Width (m)	* 17.34	* 5.88	* 11.52
* Vel Total (m/s)	* 3.54	* Avg. Vel. (m/s)	* 1.90	* 6.58	* 2.13
* Max Chl Dpth (m)	* 2.40	* Hydr. Depth (m)	* 1.16	* 2.17	* 0.36
* Conv. Total (m3/s)	* 876.1	* Conv. (m3/s)	* 255.1	* 562.2	* 58.8
* Length Wtd. (m)	* 116.50	* Wetted Per. (m)	* 17.81	* 6.67	* 11.77
* Min Ch El (m)	* 257.49	* Shear (N/sq m)	* 246.30	* 418.95	* 76.90
* Alpha	* 2.32	* Stream Power (N/m s)	* 468.33	* 2756.82	* 163.45
* Frctn Loss (m)	* 2.83	* Cum Volume (cu m x 10^4)	* 0.01	* 0.01	* 0.01
* C & E Loss (m)	* 0.02	* Cum SA (1000 m2)	* 11.96	* 7.38	* 20.84

CROSS SECTION INPUT River Station: 11  
Description: Observed HWM = 262.79 m (862.16 ft)

Station Elevation Data, num = 30  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0264.87171.612203263.64034.067206 261.71712.82577 261.71413.76943261.1288  
 14.77036261.107415.17143260.665515.51569 260.57117.28543260.385120.82735260.4095  
 20.92033260.5558 21.0145261.131821.47851 261.14421.60265261.976123.03814262.0188  
 24.41237262.786926.25329263.448329.24465263.530631.46268263.9055 36.9278263.8567  
 40.21528264.2621 43.6458 264.19246.58046264.094548.33711264.134151.38837264.0244  
 54.07052263.817154.77008263.533755.08059263.625155.38066264.027455.64827264.9114

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .08512.82577 .03521.60265 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 12.8258 21.6026 152.19 150.48 144.88 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 11 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 263.38 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.09 \* Wt. n-Val \* 0.085 \* 0.035 \* 0.035 \*  
 \* W.S. Elev (m) \* 262.28 \* Reach Len. (m) \* 152.19 \* 150.48 \* 144.88 \*  
 \* Crit W.S. (m) \* 262.58 \* Flow Area (m2) \* 5.16 \* 13.90 \* 0.47 \*  
 \* E.G. Slope (m/m) \* 0.019553 \* Area (m2) \* 5.16 \* 13.90 \* 0.47 \*  
 \* Q Total (m3/s) \* 73.48 \* Flow (m3/s) \* 5.59 \* 67.17 \* 0.72 \*  
 \* Top Width (m) \* 20.16 \* Top Width (m) \* 9.48 \* 8.78 \* 1.91 \*  
 \* Vel Total (m/s) \* 3.76 \* Avg. Vel. (m/s) \* 1.08 \* 4.83 \* 1.53 \*  
 \* Max Chl Dpth (m) \* 1.90 \* Hydr. Depth (m) \* 0.54 \* 1.58 \* 0.25 \*  
 \* Conv. Total (m3/s) \* 525.5 \* Conv. (m3/s) \* 40.0 \* 480.3 \* 5.2 \*  
 \* Length Wtd. (m) \* 150.65 \* Wetted Per. (m) \* 9.67 \* 10.45 \* 1.98 \*  
 \* Min Ch El (m) \* 260.39 \* Shear (N/sq m) \* 102.36 \* 255.07 \* 45.65 \*  
 \* Alpha \* 1.52 \* Stream Power (N/m s) \* 110.81 \* 1232.59 \* 70.05 \*  
 \* Frctn Loss (m) \* 3.15 \* Cum Volume (cu m x 10^4) \* 0.01 \* 0.01 \* 0.00 \*  
 \* C & E Loss (m) \* 0.01 \* Cum SA (1000 m2) \* 13.55 \* 8.42 \* 18.32 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 11 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 263.77 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.20 \* Wt. n-Val \* 0.085 \* 0.035 \* 0.035 \*  
 \* W.S. Elev (m) \* 262.57 \* Reach Len. (m) \* 152.19 \* 150.48 \* 144.88 \*  
 \* Crit W.S. (m) \* 262.89 \* Flow Area (m2) \* 7.98 \* 16.46 \* 1.10 \*  
 \* E.G. Slope (m/m) \* 0.017856 \* Area (m2) \* 7.98 \* 16.46 \* 1.10 \*  
 \* Q Total (m3/s) \* 98.17 \* Flow (m3/s) \* 10.70 \* 85.08 \* 2.39 \*  
 \* Top Width (m) \* 21.06 \* Top Width (m) \* 9.85 \* 8.78 \* 2.43 \*  
 \* Vel Total (m/s) \* 3.84 \* Avg. Vel. (m/s) \* 1.34 \* 5.17 \* 2.17 \*  
 \* Max Chl Dpth (m) \* 2.19 \* Hydr. Depth (m) \* 0.81 \* 1.88 \* 0.45 \*  
 \* Conv. Total (m3/s) \* 734.7 \* Conv. (m3/s) \* 80.1 \* 636.7 \* 17.9 \*  
 \* Length Wtd. (m) \* 150.61 \* Wetted Per. (m) \* 10.15 \* 10.45 \* 2.57 \*  
 \* Min Ch El (m) \* 260.39 \* Shear (N/sq m) \* 137.78 \* 275.85 \* 75.02 \*  
 \* Alpha \* 1.59 \* Stream Power (N/m s) \* 184.60 \* 1425.84 \* 162.78 \*  
 \* Frctn Loss (m) \* 3.00 \* Cum Volume (cu m x 10^4) \* 0.01 \* 0.01 \* 0.01 \*  
 \* C & E Loss (m) \* 0.01 \* Cum SA (1000 m2) \* 13.77 \* 8.46 \* 20.06 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 11 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 264.22 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.30 \* Wt. n-Val \* 0.085 \* 0.035 \* 0.035 \*  
 \* W.S. Elev (m) \* 262.92 \* Reach Len. (m) \* 152.19 \* 150.48 \* 144.88 \*  
 \* Crit W.S. (m) \* 263.25 \* Flow Area (m2) \* 11.52 \* 19.54 \* 2.07 \*  
 \* E.G. Slope (m/m) \* 0.016081 \* Area (m2) \* 11.52 \* 19.54 \* 2.07 \*  
 \* Q Total (m3/s) \* 130.88 \* Flow (m3/s) \* 18.03 \* 107.46 \* 5.39 \*  
 \* Top Width (m) \* 22.27 \* Top Width (m) \* 10.30 \* 8.78 \* 3.19 \*  
 \* Vel Total (m/s) \* 3.95 \* Avg. Vel. (m/s) \* 1.57 \* 5.50 \* 2.60 \*  
 \* Max Chl Dpth (m) \* 2.54 \* Hydr. Depth (m) \* 1.12 \* 2.23 \* 0.65 \*  
 \* Conv. Total (m3/s) \* 1032.1 \* Conv. (m3/s) \* 142.2 \* 847.4 \* 42.5 \*  
 \* Length Wtd. (m) \* 150.54 \* Wetted Per. (m) \* 10.72 \* 10.45 \* 3.42 \*  
 \* Min Ch El (m) \* 260.39 \* Shear (N/sq m) \* 169.52 \* 294.90 \* 95.71 \*  
 \* Alpha \* 1.63 \* Stream Power (N/m s) \* 265.39 \* 1621.78 \* 248.57 \*  
 \* Frctn Loss (m) \* 2.83 \* Cum Volume (cu m x 10^4) \* 0.01 \* 0.02 \* 0.01 \*  
 \* C & E Loss (m) \* 0.02 \* Cum SA (1000 m2) \* 14.07 \* 8.48 \* 21.91 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 12  
 Description: Observed HWM = 265.52 m (871.14 ft)

Station Elevation Data, num = 15  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0266.36221.835656265.27716.706992264.704110.91289265.0851 14.4204265.0394  
 15.83724263.676918.74322263.512320.13692263.762321.35075264.597423.20089265.2192  
 31.70366265.487437.28927 265.52445.43598265.862358.39337265.914268.17202267.0815

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .07 14.4204 .03523.20089 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 14.4204 23.2009 161.93 164.25 163.03 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 12 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 266.54 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.98 \* Wt. n-Val \* 0.070 \* 0.035 \* 0.035 \*  
 \* W.S. Elev (m) \* 265.56 \* Reach Len. (m) \* 161.93 \* 164.25 \* 163.03 \*  
 \* Crit W.S. (m) \* 265.86 \* Flow Area (m2) \* 7.35 \* 12.95 \* 2.03 \*  
 \* E.G. Slope (m/m) \* 0.018897 \* Area (m2) \* 7.35 \* 12.95 \* 2.03 \*  
 \* Q Total (m3/s) \* 73.48 \* Flow (m3/s) \* 9.77 \* 61.59 \* 2.12 \*  
 \*\*\*\*\*

* Top Width (m)	* 36.72	* Top Width (m)	* 13.06	* 8.78	* 14.89
* Vel Total (m/s)	* 3.29	* Avg. Vel. (m/s)	* 1.33	* 4.76	* 1.04
* Max Chl Dpth (m)	* 2.04	* Hydr. Depth (m)	* 0.56	* 1.47	* 0.14
* Conv. Total (m3/s)	* 534.5	* Conv. (m3/s)	* 71.1	* 448.0	* 15.4
* Length Wtd. (m)	* 163.98	* Wetted Per. (m)	* 13.19	* 9.72	* 14.89
* Min Ch El (m)	* 263.51	* Shear (N/sq m)	* 103.27	* 246.96	* 25.30
* Alpha	* 1.78	* Stream Power (N/m s)	* 137.34	* 1174.59	* 26.35
* Frctn Loss (m)	* 3.49	* Cum Volume (cu m x 10 <sup>^</sup> )	* 0.01	* 0.02	* 0.00
* C & E Loss (m)	* 0.00	* Cum SA (1000 m2)	* 15.37	* 9.86	* 19.69

CROSS SECTION OUTPUT Riv Sta: 12 Profile # 25 yr Storm

* E.G. Elev (m)	* 266.78	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.05	* Wt. n-Val	* 0.070	* 0.035	* 0.035
* W.S. Elev (m)	* 265.74	* Reach Len. (m)	* 161.93	* 164.25	* 163.03
* Crit W.S. (m)	* 266.13	* Flow Area (m2)	* 9.75	* 14.54	* 5.13
* E.G. Slope (m/m)	* 0.018781	* Area (m2)	* 9.75	* 14.54	* 5.13
* Q Total (m3/s)	* 98.17	* Flow (m3/s)	* 15.33	* 74.52	* 8.32
* Top Width (m)	* 41.41	* Top Width (m)	* 13.37	* 8.78	* 19.26
* Vel Total (m/s)	* 3.34	* Avg. Vel. (m/s)	* 1.57	* 5.12	* 1.62
* Max Chl Dpth (m)	* 2.23	* Hydr. Depth (m)	* 0.73	* 1.66	* 0.27
* Conv. Total (m3/s)	* 716.3	* Conv. (m3/s)	* 111.8	* 543.7	* 60.7
* Length Wtd. (m)	* 163.88	* Wetted Per. (m)	* 13.54	* 9.72	* 19.27
* Min Ch El (m)	* 263.51	* Shear (N/sq m)	* 132.57	* 275.68	* 49.08
* Alpha	* 1.85	* Stream Power (N/m s)	* 208.46	* 1412.43	* 79.57
* Frctn Loss (m)	* 3.47	* Cum Volume (cu m x 10 <sup>^</sup> )	* 0.01	* 0.02	* 0.01
* C & E Loss (m)	* 0.00	* Cum SA (1000 m2)	* 15.65	* 9.90	* 21.83

CROSS SECTION OUTPUT Riv Sta: 12 Profile # 100 yr Storm

* E.G. Elev (m)	* 267.07	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.13	* Wt. n-Val	* 0.070	* 0.035	* 0.035
* W.S. Elev (m)	* 265.95	* Reach Len. (m)	* 161.93	* 164.25	* 163.03
* Crit W.S. (m)	* 266.30	* Flow Area (m2)	* 12.54	* 16.36	* 10.28
* E.G. Slope (m/m)	* 0.018708	* Area (m2)	* 12.54	* 16.36	* 10.28
* Q Total (m3/s)	* 130.88	* Flow (m3/s)	* 22.83	* 90.45	* 17.60
* Top Width (m)	* 57.95	* Top Width (m)	* 13.71	* 8.78	* 35.45
* Vel Total (m/s)	* 3.34	* Avg. Vel. (m/s)	* 1.82	* 5.53	* 1.71
* Max Chl Dpth (m)	* 2.43	* Hydr. Depth (m)	* 0.91	* 1.86	* 0.29
* Conv. Total (m3/s)	* 956.9	* Conv. (m3/s)	* 166.9	* 661.3	* 128.7
* Length Wtd. (m)	* 163.78	* Wetted Per. (m)	* 13.95	* 9.72	* 35.47
* Min Ch El (m)	* 263.51	* Shear (N/sq m)	* 164.98	* 308.82	* 53.19
* Alpha	* 1.98	* Stream Power (N/m s)	* 300.32	* 1707.75	* 91.04
* Frctn Loss (m)	* 3.43	* Cum Volume (cu m x 10 <sup>^</sup> )	* 0.01	* 0.02	* 0.01
* C & E Loss (m)	* 0.00	* Cum SA (1000 m2)	* 16.01	* 9.93	* 25.06

CROSS SECTION INPUT River Station: 13  
Description: Observed HWM = 269.06 m (882.75 ft)

Station Elevation Data, num = 22

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0	269.4711	91801269	297426	19783269	245627	7825269	1603	28.62	268.85
30	03106268	221531	03293	267.618	33	0571267	468634	98924267	569236
36	89341268	867741	73126268	788443	79143268	581254	74015268	733660	39798
61	0823268	666561	56739268	361762	55557268	940863	15344269	062764	95943269
67	3175271	168969	36792271	3548					

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.07	28.62	.03536	89341	.035

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
28.62	36.8934	154.04	157.88	158.39	0.1	0.3	

CROSS SECTION OUTPUT Riv Sta: 13 Profile # Storm Event

* E.G. Elev (m)	* 270.03	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.94	* Wt. n-Val	* 0.070	* 0.035	* 0.035
* W.S. Elev (m)	* 269.08	* Reach Len. (m)	* 154.04	* 157.88	* 158.39
* Crit W.S. (m)	* 269.39	* Flow Area (m2)	* 0.07	* 10.07	* 9.86
* E.G. Slope (m/m)	* 0.026202	* Area (m2)	* 0.07	* 10.07	* 9.86
* Q Total (m3/s)	* 73.48	* Flow (m3/s)	* 0.04	* 49.92	* 23.52
* Top Width (m)	* 35.24	* Top Width (m)	* 0.63	* 8.27	* 26.34
* Vel Total (m/s)	* 3.67	* Avg. Vel. (m/s)	* 0.53	* 4.96	* 2.39
* Max Chl Dpth (m)	* 1.62	* Hydr. Depth (m)	* 0.12	* 1.22	* 0.37
* Conv. Total (m3/s)	* 453.9	* Conv. (m3/s)	* 0.2	* 308.4	* 145.3
* Length Wtd. (m)	* 157.71	* Wetted Per. (m)	* 0.67	* 9.08	* 26.61
* Min Ch El (m)	* 267.47	* Shear (N/sq m)	* 28.25	* 285.08	* 95.20
* Alpha	* 1.37	* Stream Power (N/m s)	* 14.99	* 1413.02	* 227.12
* Frctn Loss (m)	* 3.92	* Cum Volume (cu m x 10 <sup>^</sup> )	* 0.01	* 0.02	* 0.01
* C & E Loss (m)	* 0.10	* Cum SA (1000 m2)	* 16.43	* 11.21	* 22.95

CROSS SECTION OUTPUT Riv Sta: 13 Profile # 25 yr Storm

* E.G. Elev (m)	* 270.25	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.03	* Wt. n-Val	* 0.070	* 0.035	* 0.035
* W.S. Elev (m)	* 269.22	* Reach Len. (m)	* 154.04	* 157.88	* 158.39
* Crit W.S. (m)	* 269.55	* Flow Area (m2)	* 0.21	* 11.18	* 13.41
* E.G. Slope (m/m)	* 0.026126	* Area (m2)	* 0.21	* 11.18	* 13.41
* Q Total (m3/s)	* 98.17	* Flow (m3/s)	* 0.11	* 59.31	* 38.76
* Top Width (m)	* 37.01	* Top Width (m)	* 1.91	* 8.27	* 26.82
* Vel Total (m/s)	* 3.96	* Avg. Vel. (m/s)	* 0.52	* 5.31	* 2.89
* Max Chl Dpth (m)	* 1.75	* Hydr. Depth (m)	* 0.11	* 1.35	* 0.50
* Conv. Total (m3/s)	* 607.4	* Conv. (m3/s)	* 0.7	* 366.9	* 239.8
* Length Wtd. (m)	* 157.70	* Wetted Per. (m)	* 1.97	* 9.08	* 27.11
* Min Ch El (m)	* 267.47	* Shear (N/sq m)	* 27.25	* 315.49	* 126.78
* Alpha	* 1.30	* Stream Power (N/m s)	* 14.12	* 1673.85	* 366.28



\* Frctn Loss (m) \* 3.82 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.02 \* 0.01 \*  
 \* C & E Loss (m) \* 0.06 \* Cum SA (1000 m2) \* 16.83 \* 11.25 \* 25.48 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 13 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 270.51 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.14 \* Wt. n-Val \* 0.070 \* 0.035 \* 0.035 \*  
 \* W.S. Elev (m) \* 269.37 \* Reach Len. (m) \* 154.04 \* 157.88 \* 158.39 \*  
 \* Crit W.S. (m) \* 269.73 \* Flow Area (m2) \* 2.22 \* 12.46 \* 17.60 \*  
 \* E.G. Slope (m/m) \* 0.025589 \* Area (m2) \* 2.22 \* 12.46 \* 17.60 \*  
 \* Q Total (m3/s) \* 130.88 \* Flow (m3/s) \* 1.10 \* 70.30 \* 59.48 \*  
 \* Top Width (m) \* 57.55 \* Top Width (m) \* 21.90 \* 8.27 \* 27.37 \*  
 \* Vel Total (m/s) \* 4.05 \* Avg. Vel. (m/s) \* 0.50 \* 5.64 \* 3.38 \*  
 \* Max Chl Dpth (m) \* 1.90 \* Hydr. Depth (m) \* 0.10 \* 1.51 \* 0.64 \*  
 \* Conv. Total (m3/s) \* 818.2 \* Conv. (m3/s) \* 6.9 \* 439.5 \* 371.8 \*  
 \* Length Wtd. (m) \* 157.68 \* Wetted Per. (m) \* 21.96 \* 9.08 \* 27.69 \*  
 \* Min Ch El (m) \* 267.47 \* Shear (N/sq m) \* 25.35 \* 344.35 \* 159.54 \*  
 \* Alpha \* 1.36 \* Stream Power (N/m s) \* 12.56 \* 1943.43 \* 539.12 \*  
 \* Frctn Loss (m) \* 3.77 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.02 \* 0.01 \*  
 \* C & E Loss (m) \* 0.04 \* Cum SA (1000 m2) \* 18.75 \* 11.27 \* 30.03 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 14  
 Description: Observed HWM = 272.58 m (894.29 ft)

Station Elevation Data, num = 28  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0274.8753 1.72162273.57994.271389273.26595.520092 272.5747.122246 272.126  
 7.291258271.44938.360303271.22688.653052271.07149.697275271.043912.44516271.1141  
 12.67741271.242114.04579272.122915.72174272.5192 19.6856272.330225.87334272.5893  
 33.87775272.464342.27484272.5801 43.7658272.668549.94709272.756951.10108272.9246  
 51.47087272.958154.28435272.991657.16443273.101459.74374273.086160.30539273.0434  
 61.34039272.683862.92848 273.208 63.4259273.8329

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .077.122246 .03514.04579 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 7.12225 14.0458 151.28 151.55 149.32 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 14 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 274.05 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.28 \* Wt. n-Val \* 0.070 \* 0.035 \* 0.035 \*  
 \* W.S. Elev (m) \* 272.76 \* Reach Len. (m) \* 151.28 \* 151.55 \* 149.32 \*  
 \* Crit W.S. (m) \* 273.16 \* Flow Area (m2) \* 0.69 \* 10.42 \* 8.42 \*  
 \* E.G. Slope (m/m) \* 0.025905 \* Area (m2) \* 0.69 \* 10.42 \* 8.42 \*  
 \* Q Total (m3/s) \* 73.48 \* Flow (m3/s) \* 0.77 \* 58.06 \* 14.64 \*  
 \* Top Width (m) \* 45.28 \* Top Width (m) \* 1.94 \* 6.92 \* 36.41 \*  
 \* Vel Total (m/s) \* 3.76 \* Avg. Vel. (m/s) \* 1.12 \* 5.57 \* 1.74 \*  
 \* Max Chl Dpth (m) \* 1.72 \* Hydr. Depth (m) \* 0.36 \* 1.50 \* 0.23 \*  
 \* Conv. Total (m3/s) \* 456.5 \* Conv. (m3/s) \* 4.8 \* 360.8 \* 91.0 \*  
 \* Length Wtd. (m) \* 150.97 \* Wetted Per. (m) \* 2.05 \* 7.81 \* 36.50 \*  
 \* Min Ch El (m) \* 271.04 \* Shear (N/sq m) \* 85.89 \* 339.00 \* 58.58 \*  
 \* Alpha \* 1.78 \* Stream Power (N/m s) \* 95.83 \* 1889.53 \* 101.91 \*  
 \* Frctn Loss (m) \* 3.64 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.02 \* 0.01 \*  
 \* C & E Loss (m) \* 0.09 \* Cum SA (1000 m2) \* 16.62 \* 12.36 \* 27.64 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 14 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 274.13 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.22 \* Wt. n-Val \* 0.070 \* 0.035 \* 0.035 \*  
 \* W.S. Elev (m) \* 272.90 \* Reach Len. (m) \* 151.28 \* 151.55 \* 149.32 \*  
 \* Crit W.S. (m) \* 273.28 \* Flow Area (m2) \* 0.99 \* 11.39 \* 13.67 \*  
 \* E.G. Slope (m/m) \* 0.024651 \* Area (m2) \* 0.99 \* 11.39 \* 13.67 \*  
 \* Q Total (m3/s) \* 98.17 \* Flow (m3/s) \* 1.24 \* 65.75 \* 31.18 \*  
 \* Top Width (m) \* 47.34 \* Top Width (m) \* 2.20 \* 6.92 \* 38.22 \*  
 \* Vel Total (m/s) \* 3.77 \* Avg. Vel. (m/s) \* 1.26 \* 5.77 \* 2.28 \*  
 \* Max Chl Dpth (m) \* 1.86 \* Hydr. Depth (m) \* 0.45 \* 1.65 \* 0.36 \*  
 \* Conv. Total (m3/s) \* 625.3 \* Conv. (m3/s) \* 7.9 \* 418.8 \* 198.6 \*  
 \* Length Wtd. (m) \* 150.75 \* Wetted Per. (m) \* 2.34 \* 7.81 \* 38.36 \*  
 \* Min Ch El (m) \* 271.04 \* Shear (N/sq m) \* 101.67 \* 352.78 \* 86.16 \*  
 \* Alpha \* 1.69 \* Stream Power (N/m s) \* 128.00 \* 2036.03 \* 196.50 \*  
 \* Frctn Loss (m) \* 3.83 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.02 \* 0.01 \*  
 \* C & E Loss (m) \* 0.18 \* Cum SA (1000 m2) \* 17.14 \* 12.40 \* 30.34 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 14 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 274.31 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.25 \* Wt. n-Val \* 0.070 \* 0.035 \* 0.035 \*  
 \* W.S. Elev (m) \* 273.06 \* Reach Len. (m) \* 151.28 \* 151.55 \* 149.32 \*  
 \* Crit W.S. (m) \* 273.43 \* Flow Area (m2) \* 1.34 \* 12.45 \* 19.92 \*  
 \* E.G. Slope (m/m) \* 0.024550 \* Area (m2) \* 1.34 \* 12.45 \* 19.92 \*  
 \* Q Total (m3/s) \* 130.88 \* Flow (m3/s) \* 1.90 \* 76.06 \* 52.91 \*  
 \* Top Width (m) \* 53.68 \* Top Width (m) \* 2.47 \* 6.92 \* 44.28 \*  
 \* Vel Total (m/s) \* 3.88 \* Avg. Vel. (m/s) \* 1.42 \* 6.11 \* 2.66 \*  
 \* Max Chl Dpth (m) \* 2.01 \* Hydr. Depth (m) \* 0.54 \* 1.80 \* 0.45 \*  
 \* Conv. Total (m3/s) \* 835.3 \* Conv. (m3/s) \* 12.2 \* 485.4 \* 337.7 \*  
 \* Length Wtd. (m) \* 150.59 \* Wetted Per. (m) \* 2.66 \* 7.81 \* 44.48 \*  
 \* Min Ch El (m) \* 271.04 \* Shear (N/sq m) \* 121.52 \* 383.90 \* 107.81 \*  
 \* Alpha \* 1.63 \* Stream Power (N/m s) \* 172.43 \* 2345.68 \* 286.42 \*  
 \* Frctn Loss (m) \* 3.79 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.02 \* 0.01 \*  
 \* C & E Loss (m) \* 0.16 \* Cum SA (1000 m2) \* 20.60 \* 12.42 \* 35.38 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 15  
 Description: Profile Adjustment

Station Elevation Data, num = 17  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0278.82552.580887276.5151 3.42979275.88116.275478276.012216.83417276.0823  
 35.75104 275.93649.10968275.960450.27772276.097551.51383275.417852.44967274.4303  
 54.36837274.466956.81119274.500457.22747275.603859.17331275.832461.11706276.1463  
 62.97392277.298564.64705277.6642

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .0651.51383 .0357.22747 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 51.5138 57.2275 147.05 150.91 146.4 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 15 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 277.78 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.59 \* Wt. n-Val \* 0.060 \* 0.030 \* 0.060 \*  
 \* W.S. Elev (m) \* 276.19 \* Reach Len. (m) \* 147.05 \* 150.91 \* 146.40 \*  
 \* Crit W.S. (m) \* 276.61 \* Flow Area (m2) \* 9.57 \* 9.16 \* 1.30 \*  
 \* E.G. Slope (m/m) \* 0.022570 \* Area (m2) \* 9.57 \* 9.16 \* 1.30 \*  
 \* Q Total (m3/s) \* 65.04 \* Flow (m3/s) \* 8.09 \* 55.40 \* 1.55 \*  
 \* Top Width (m) \* 58.17 \* Top Width (m) \* 48.50 \* 5.71 \* 3.96 \*  
 \* Vel Total (m/s) \* 3.25 \* Avg. Vel. (m/s) \* 0.85 \* 6.05 \* 1.18 \*  
 \* Max Chl Dpth (m) \* 1.76 \* Hydr. Depth (m) \* 0.20 \* 1.60 \* 0.33 \*  
 \* Conv. Total (m3/s) \* 432.9 \* Conv. (m3/s) \* 53.9 \* 368.8 \* 10.3 \*  
 \* Length Wtd. (m) \* 150.14 \* Wetted Per. (m) \* 48.78 \* 6.90 \* 4.01 \*  
 \* Min Ch El (m) \* 274.43 \* Shear (N/sq m) \* 43.43 \* 293.77 \* 72.03 \*  
 \* Alpha \* 2.97 \* Stream Power (N/m s) \* 36.72 \* 1776.67 \* 85.34 \*  
 \* Frctn Loss (m) \* 2.27 \* Cum Volume (cu m x 10^6) \* 0.01 \* 0.02 \* 0.01 \*  
 \* C & E Loss (m) \* 0.04 \* Cum SA (1000 m2) \* 20.33 \* 13.31 \* 30.60 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 15 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 278.14 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.83 \* Wt. n-Val \* 0.060 \* 0.030 \* 0.060 \*  
 \* W.S. Elev (m) \* 276.32 \* Reach Len. (m) \* 147.05 \* 150.91 \* 146.40 \*  
 \* Crit W.S. (m) \* 276.78 \* Flow Area (m2) \* 15.77 \* 9.89 \* 1.82 \*  
 \* E.G. Slope (m/m) \* 0.026368 \* Area (m2) \* 15.77 \* 9.89 \* 1.82 \*  
 \* Q Total (m3/s) \* 90.87 \* Flow (m3/s) \* 20.04 \* 68.03 \* 2.80 \*  
 \* Top Width (m) \* 58.54 \* Top Width (m) \* 48.67 \* 5.71 \* 4.16 \*  
 \* Vel Total (m/s) \* 3.31 \* Avg. Vel. (m/s) \* 1.27 \* 6.88 \* 1.54 \*  
 \* Max Chl Dpth (m) \* 1.89 \* Hydr. Depth (m) \* 0.32 \* 1.73 \* 0.44 \*  
 \* Conv. Total (m3/s) \* 559.6 \* Conv. (m3/s) \* 123.4 \* 418.9 \* 17.3 \*  
 \* Length Wtd. (m) \* 149.67 \* Wetted Per. (m) \* 49.00 \* 6.90 \* 4.25 \*  
 \* Min Ch El (m) \* 274.43 \* Shear (N/sq m) \* 83.21 \* 370.50 \* 110.87 \*  
 \* Alpha \* 3.28 \* Stream Power (N/m s) \* 105.76 \* 2548.73 \* 170.60 \*  
 \* Frctn Loss (m) \* 2.45 \* Cum Volume (cu m x 10^6) \* 0.01 \* 0.02 \* 0.01 \*  
 \* C & E Loss (m) \* 0.04 \* Cum SA (1000 m2) \* 20.88 \* 13.35 \* 33.44 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 15 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 278.27 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.80 \* Wt. n-Val \* 0.060 \* 0.030 \* 0.060 \*  
 \* W.S. Elev (m) \* 276.47 \* Reach Len. (m) \* 147.05 \* 150.91 \* 146.40 \*  
 \* Crit W.S. (m) \* 276.94 \* Flow Area (m2) \* 23.10 \* 10.75 \* 2.47 \*  
 \* E.G. Slope (m/m) \* 0.026419 \* Area (m2) \* 23.10 \* 10.75 \* 2.47 \*  
 \* Q Total (m3/s) \* 120.49 \* Flow (m3/s) \* 37.79 \* 78.24 \* 4.45 \*  
 \* Top Width (m) \* 58.99 \* Top Width (m) \* 48.87 \* 5.71 \* 4.41 \*  
 \* Vel Total (m/s) \* 3.32 \* Avg. Vel. (m/s) \* 1.64 \* 7.28 \* 1.81 \*  
 \* Max Chl Dpth (m) \* 2.04 \* Hydr. Depth (m) \* 0.47 \* 1.88 \* 0.56 \*  
 \* Conv. Total (m3/s) \* 741.3 \* Conv. (m3/s) \* 232.5 \* 481.4 \* 27.4 \*  
 \* Length Wtd. (m) \* 149.27 \* Wetted Per. (m) \* 49.25 \* 6.90 \* 4.54 \*  
 \* Min Ch El (m) \* 274.43 \* Shear (N/sq m) \* 121.56 \* 403.49 \* 140.92 \*  
 \* Alpha \* 3.21 \* Stream Power (N/m s) \* 198.82 \* 2937.13 \* 254.37 \*  
 \* Frctn Loss (m) \* 2.61 \* Cum Volume (cu m x 10^6) \* 0.02 \* 0.03 \* 0.02 \*  
 \* C & E Loss (m) \* 0.02 \* Cum SA (1000 m2) \* 24.37 \* 13.38 \* 38.95 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 16  
 Description: Observed HWM = 278.75 m (914.55 ft)

Station Elevation Data, num = 28  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0 280.08 2.51278.4963 4.39278.4476 5.03 277.88 5.48277.4935  
 6.08277.3625 8.62277.2344 10.5277.2101 11.8277.3716 12.77 277.905  
 15.56278.7554 23.28279.2675 33.6 279.173 35.83278.9962 42.86279.0663  
 44.08279.0145 46.62279.0907 49.25279.0328 49.61278.8499 50.36278.9688  
 57.82 279 59.34 279.25 60.75 279.5 62.36 280 63.74 280.5  
 64.91 281 66.57 281.75 68.7 282.75

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .06 5.03 .035 12.77 .04

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 5.03 12.77 111.13 113.18 110.66 0.1 0.3

Right Levee Station= 25.27 Elevation= 279.26

CROSS SECTION OUTPUT Riv Sta: 16 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 280.10 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.20 \* Wt. n-Val \* 0.060 \* 0.035 \* 0.040 \*  
 \* W.S. Elev (m) \* 278.91 \* Reach Len. (m) \* 111.13 \* 113.18 \* 110.66 \*  
 \* Crit W.S. (m) \* 279.44 \* Flow Area (m2) \* 1.43 \* 12.04 \* 1.79 \*  
 \*\*\*\*\*

* E.G. Slope (m/m)	* 0.017983	* Area (m2)	*	1.43	* 12.04	* 1.79	*
* Q Total (m3/s)	* 65.04	* Flow (m3/s)	*	1.77	* 60.33	* 2.94	*
* Top Width (m)	* 16.02	* Top Width (m)	*	3.17	* 7.74	* 5.11	*
* Vel Total (m/s)	* 4.26	* Avg. Vel. (m/s)	*	1.23	* 5.01	* 1.64	*
* Max Chl Dpth (m)	* 1.70	* Hydr. Depth (m)	*	0.45	* 1.56	* 0.35	*
* Conv. Total (m3/s)	* 485.0	* Conv. (m3/s)	*	13.2	* 449.9	* 21.9	*
* Length Wtd. (m)	* 112.94	* Wetted Per. (m)	*	3.51	* 8.05	* 5.24	*
* Min Ch El (m)	* 277.21	* Shear (N/sq m)	*	72.07	* 263.81	* 60.36	*
* Alpha	* 1.29	* Stream Power (N/m s)	*	88.70	* 1322.10	* 99.03	*
* Frctn Loss (m)	* 3.19	* Cum Volume (cu m x 10^4)	*	0.01	* 0.02	* 0.01	*
* C & E Loss (m)	* 0.02	* Cum SA (1000 m2)	*	23.20	* 14.07	* 31.10	*

CROSS SECTION OUTPUT Riv Sta: 16 Profile # 25 yr Storm

* E.G. Elev (m)	* 280.63	* Element	*	Left OB	* Channel	* Right OB	*
* Vel Head (m)	* 1.45	* Wt. n-Val	*	0.060	* 0.035	* 0.040	*
* W.S. Elev (m)	* 279.19	* Reach Len. (m)	*	111.13	* 113.18	* 110.66	*
* Crit W.S. (m)	* 279.61	* Flow Area (m2)	*	2.38	* 14.20	* 3.81	*
* E.G. Slope (m/m)	* 0.018255	* Area (m2)	*	2.38	* 14.20	* 3.81	*
* Q Total (m3/s)	* 90.87	* Flow (m3/s)	*	3.78	* 80.07	* 7.02	*
* Top Width (m)	* 20.68	* Top Width (m)	*	3.62	* 7.74	* 9.32	*
* Vel Total (m/s)	* 4.45	* Avg. Vel. (m/s)	*	1.59	* 5.64	* 1.84	*
* Max Chl Dpth (m)	* 1.98	* Hydr. Depth (m)	*	0.66	* 1.83	* 0.41	*
* Conv. Total (m3/s)	* 672.6	* Conv. (m3/s)	*	28.0	* 592.6	* 52.0	*
* Length Wtd. (m)	* 112.78	* Wetted Per. (m)	*	4.03	* 8.05	* 9.47	*
* Min Ch El (m)	* 277.21	* Shear (N/sq m)	*	105.80	* 315.94	* 72.10	*
* Alpha	* 1.43	* Stream Power (N/m s)	*	167.77	* 1781.15	* 132.80	*
* Frctn Loss (m)	* 3.01	* Cum Volume (cu m x 10^4)	*	0.01	* 0.02	* 0.01	*
* C & E Loss (m)	* 0.02	* Cum SA (1000 m2)	*	23.78	* 14.11	* 34.19	*

CROSS SECTION OUTPUT Riv Sta: 16 Profile # 100 yr Storm

* E.G. Elev (m)	* 280.90	* Element	*	Left OB	* Channel	* Right OB	*
* Vel Head (m)	* 1.59	* Wt. n-Val	*	0.060	* 0.035	* 0.040	*
* W.S. Elev (m)	* 279.31	* Reach Len. (m)	*	111.13	* 113.18	* 110.66	*
* Crit W.S. (m)	* 279.76	* Flow Area (m2)	*	2.84	* 15.16	* 13.33	*
* E.G. Slope (m/m)	* 0.020562	* Area (m2)	*	2.84	* 15.16	* 13.33	*
* Q Total (m3/s)	* 120.49	* Flow (m3/s)	*	5.18	* 94.73	* 20.58	*
* Top Width (m)	* 58.48	* Top Width (m)	*	3.81	* 7.74	* 46.92	*
* Vel Total (m/s)	* 3.85	* Avg. Vel. (m/s)	*	1.82	* 6.25	* 1.54	*
* Max Chl Dpth (m)	* 2.10	* Hydr. Depth (m)	*	0.75	* 1.96	* 0.28	*
* Conv. Total (m3/s)	* 840.3	* Conv. (m3/s)	*	36.2	* 660.6	* 143.5	*
* Length Wtd. (m)	* 112.55	* Wetted Per. (m)	*	4.27	* 8.05	* 47.18	*
* Min Ch El (m)	* 277.21	* Shear (N/sq m)	*	134.40	* 379.84	* 56.98	*
* Alpha	* 2.11	* Stream Power (N/m s)	*	245.10	* 2373.58	* 87.95	*
* Frctn Loss (m)	* 3.08	* Cum Volume (cu m x 10^4)	*	0.02	* 0.03	* 0.02	*
* C & E Loss (m)	* 0.02	* Cum SA (1000 m2)	*	27.30	* 14.14	* 41.79	*

CROSS SECTION INPUT River Station: 17  
Description: Observed HWM = 282.33 m (926.25 ft)

Station Elevation Data, num = 14

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.			
0	282.723	174191282	43135	788219281	6236	8	47616281	361411	82582281	1633		
13	63325280	410515	64467280	337317	71754280	4257	18	53	281	0819	41757281	7089
23	67277281	946729	66178282	321634	62402283	059236	97298	283	172			

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.0611	82582	.04	18.53	.065

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
11.8258	18.53	143.61	142.98	139.86	0.1	0.3	

CROSS SECTION OUTPUT Riv Sta: 17 Profile # Storm Event

* E.G. Elev (m)	* 283.31	* Element	*	Left OB	* Channel	* Right OB	*
* Vel Head (m)	* 1.26	* Wt. n-Val	*	0.060	* 0.040	* 0.065	*
* W.S. Elev (m)	* 282.05	* Reach Len. (m)	*	143.61	* 142.98	* 139.86	*
* Crit W.S. (m)	* 282.43	* Flow Area (m2)	*	4.45	* 10.19	* 1.63	*
* E.G. Slope (m/m)	* 0.028375	* Area (m2)	*	4.45	* 10.19	* 1.63	*
* Q Total (m3/s)	* 65.04	* Flow (m3/s)	*	8.82	* 54.62	* 1.60	*
* Top Width (m)	* 20.97	* Top Width (m)	*	7.43	* 6.70	* 6.84	*
* Vel Total (m/s)	* 4.00	* Avg. Vel. (m/s)	*	1.98	* 5.36	* 0.98	*
* Max Chl Dpth (m)	* 1.72	* Hydr. Depth (m)	*	0.60	* 1.52	* 0.24	*
* Conv. Total (m3/s)	* 386.1	* Conv. (m3/s)	*	52.4	* 324.3	* 9.5	*
* Length Wtd. (m)	* 142.92	* Wetted Per. (m)	*	7.51	* 7.09	* 7.05	*
* Min Ch El (m)	* 280.34	* Shear (N/sq m)	*	164.97	* 399.86	* 64.43	*
* Alpha	* 1.55	* Stream Power (N/m s)	*	326.86	* 2144.28	* 62.96	*
* Frctn Loss (m)	* 3.12	* Cum Volume (cu m x 10^4)	*	0.01	* 0.02	* 0.01	*
* C & E Loss (m)	* 0.06	* Cum SA (1000 m2)	*	23.96	* 15.11	* 31.93	*

CROSS SECTION OUTPUT Riv Sta: 17 Profile # 25 yr Storm

* E.G. Elev (m)	* 283.66	* Element	*	Left OB	* Channel	* Right OB	*
* Vel Head (m)	* 1.29	* Wt. n-Val	*	0.060	* 0.040	* 0.065	*
* W.S. Elev (m)	* 282.36	* Reach Len. (m)	*	143.61	* 142.98	* 139.86	*
* Crit W.S. (m)	* 282.84	* Flow Area (m2)	*	6.92	* 12.27	* 4.53	*
* E.G. Slope (m/m)	* 0.024565	* Area (m2)	*	6.92	* 12.27	* 4.53	*
* Q Total (m3/s)	* 90.87	* Flow (m3/s)	*	15.69	* 69.36	* 5.82	*
* Top Width (m)	* 26.56	* Top Width (m)	*	8.44	* 6.70	* 11.42	*
* Vel Total (m/s)	* 3.83	* Avg. Vel. (m/s)	*	2.27	* 5.65	* 1.29	*
* Max Chl Dpth (m)	* 2.03	* Hydr. Depth (m)	*	0.82	* 1.83	* 0.40	*
* Conv. Total (m3/s)	* 579.8	* Conv. (m3/s)	*	100.1	* 442.5	* 37.1	*
* Length Wtd. (m)	* 142.83	* Wetted Per. (m)	*	8.57	* 7.09	* 11.64	*
* Min Ch El (m)	* 280.34	* Shear (N/sq m)	*	194.72	* 417.16	* 93.74	*
* Alpha	* 1.73	* Stream Power (N/m s)	*	441.36	* 2357.06	* 120.47	*

```
* Frctn Loss (m) * 3.11 * Cum Volume (cu m x 10^ * 0.01 * 0.03 * 0.01 *
* C & E Loss (m) * 0.05 * Cum SA (1000 m2) * 24.65 * 15.14 * 35.64 *
*****
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CROSS SECTION OUTPUT Riv Sta: 17 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 284.01 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.35 * Wt. n-Val * 0.060 * 0.040 * 0.065 *
* W.S. Elev (m) * 282.65 * Reach Len. (m) * 143.61 * 142.98 * 139.86 *
* Crit W.S. (m) * 283.06 * Flow Area (m2) * 9.69 * 14.21 * 8.11 *
* E.G. Slope (m/m) * 0.022702 * Area (m2) * 9.69 * 14.21 * 8.11 *
* Q Total (m3/s) * 120.49 * Flow (m3/s) * 22.03 * 85.13 * 13.32 *
* Top Width (m) * 31.17 * Top Width (m) * 11.10 * 6.70 * 13.37 *
* Vel Total (m/s) * 3.76 * Avg. Vel. (m/s) * 2.27 * 5.99 * 1.64 *
* Max Chl Dpth (m) * 2.32 * Hydr. Depth (m) * 0.87 * 2.12 * 0.61 *
* Conv. Total (m3/s) * 799.7 * Conv. (m3/s) * 146.2 * 565.0 * 88.4 *
* Length Wtd. (m) * 142.61 * Wetted Per. (m) * 11.25 * 7.09 * 13.61 *
* Min Ch El (m) * 280.34 * Shear (N/sq m) * 191.82 * 446.41 * 132.74 *
* Alpha * 1.88 * Stream Power (N/m s) * 436.16 * 2673.88 * 217.96 *
* Frctn Loss (m) * 3.07 * Cum Volume (cu m x 10^ * 0.02 * 0.03 * 0.02 *
* C & E Loss (m) * 0.04 * Cum SA (1000 m2) * 28.37 * 15.17 * 46.00 *
*****
```

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CROSS SECTION INPUT River Station: 18
Description: Observed HWM = 286.13 m (938.76 ft)
```

```
Station Elevation Data, num = 19
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0286.50041.354686285.69885.415585285.5433 10.6574285.518915.25512285.4275
20.80302285.424422.84082285.232424.71057284.692926.29203283.833426.73893283.6657
27.94162283.613929.55026283.665729.94966283.866931.00305284.616733.24905285.6012
38.0333285.832940.88746286.1346 43.3504286.268744.70759286.1803
```

```
Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .0622.84082 .0433.24905 .065
```

```
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
22.8408 33.249 148.37 150.11 150.92 0.1 0.3
```

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CROSS SECTION OUTPUT Riv Sta: 18 Profile # Storm Event
*****
* E.G. Elev (m) * 286.49 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.68 * Wt. n-Val * 0.060 * 0.040 * 0.065 *
* W.S. Elev (m) * 285.81 * Reach Len. (m) * 148.37 * 150.11 * 150.92 *
* Crit W.S. (m) * 286.00 * Flow Area (m2) * 6.91 * 15.10 * 0.45 *
* E.G. Slope (m/m) * 0.015930 * Area (m2) * 6.91 * 15.10 * 0.45 *
* Q Total (m3/s) * 65.04 * Flow (m3/s) * 6.78 * 58.06 * 0.20 *
* Top Width (m) * 36.41 * Top Width (m) * 21.68 * 10.41 * 4.33 *
* Vel Total (m/s) * 2.89 * Avg. Vel. (m/s) * 0.98 * 3.84 * 0.43 *
* Max Chl Dpth (m) * 2.20 * Hydr. Depth (m) * 0.32 * 1.45 * 0.10 *
* Conv. Total (m3/s) * 515.3 * Conv. (m3/s) * 53.7 * 460.0 * 1.5 *
* Length Wtd. (m) * 149.91 * Wetted Per. (m) * 21.72 * 11.23 * 4.33 *
* Min Ch El (m) * 283.61 * Shear (N/sq m) * 49.74 * 210.11 * 16.34 *
* Alpha * 1.59 * Stream Power (N/m s) * 48.78 * 807.77 * 7.05 *
* Frctn Loss (m) * 3.44 * Cum Volume (cu m x 10^ * 0.01 * 0.02 * 0.01 *
* C & E Loss (m) * 0.28 * Cum SA (1000 m2) * 26.12 * 16.39 * 32.77 *
*****
```

```
CROSS SECTION OUTPUT Riv Sta: 18 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 286.82 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.83 * Wt. n-Val * 0.060 * 0.040 * 0.065 *
* W.S. Elev (m) * 285.99 * Reach Len. (m) * 148.37 * 150.11 * 150.92 *
* Crit W.S. (m) * 286.22 * Flow Area (m2) * 10.88 * 16.99 * 1.44 *
* E.G. Slope (m/m) * 0.017794 * Area (m2) * 10.88 * 16.99 * 1.44 *
* Q Total (m3/s) * 90.87 * Flow (m3/s) * 15.09 * 74.69 * 1.10 *
* Top Width (m) * 38.68 * Top Width (m) * 21.98 * 10.41 * 6.29 *
* Vel Total (m/s) * 3.10 * Avg. Vel. (m/s) * 1.39 * 4.40 * 0.77 *
* Max Chl Dpth (m) * 2.38 * Hydr. Depth (m) * 0.49 * 1.63 * 0.23 *
* Conv. Total (m3/s) * 681.2 * Conv. (m3/s) * 113.1 * 559.9 * 8.2 *
* Length Wtd. (m) * 149.85 * Wetted Per. (m) * 22.08 * 11.23 * 6.31 *
* Min Ch El (m) * 283.61 * Shear (N/sq m) * 85.98 * 264.05 * 39.75 *
* Alpha * 1.69 * Stream Power (N/m s) * 119.25 * 1160.64 * 30.43 *
* Frctn Loss (m) * 3.31 * Cum Volume (cu m x 10^ * 0.01 * 0.03 * 0.01 *
* C & E Loss (m) * 0.17 * Cum SA (1000 m2) * 26.91 * 16.43 * 36.97 *
*****
```

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CROSS SECTION OUTPUT Riv Sta: 18 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 287.12 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.94 * Wt. n-Val * 0.060 * 0.040 * 0.065 *
* W.S. Elev (m) * 286.18 * Reach Len. (m) * 148.37 * 150.11 * 150.92 *
* Crit W.S. (m) * 286.46 * Flow Area (m2) * 14.98 * 18.92 * 2.77 *
* E.G. Slope (m/m) * 0.018703 * Area (m2) * 14.98 * 18.92 * 2.77 *
* Q Total (m3/s) * 120.49 * Flow (m3/s) * 26.09 * 91.62 * 2.78 *
* Top Width (m) * 41.13 * Top Width (m) * 22.30 * 10.41 * 8.43 *
* Vel Total (m/s) * 3.28 * Avg. Vel. (m/s) * 1.74 * 4.84 * 1.00 *
* Max Chl Dpth (m) * 2.56 * Hydr. Depth (m) * 0.67 * 1.82 * 0.33 *
* Conv. Total (m3/s) * 881.0 * Conv. (m3/s) * 190.8 * 669.9 * 20.3 *
* Length Wtd. (m) * 149.82 * Wetted Per. (m) * 22.44 * 11.23 * 8.45 *
* Min Ch El (m) * 283.61 * Shear (N/sq m) * 122.49 * 309.09 * 60.21 *
* Alpha * 1.72 * Stream Power (N/m s) * 213.30 * 1496.54 * 60.28 *
* Frctn Loss (m) * 3.26 * Cum Volume (cu m x 10^ * 0.02 * 0.03 * 0.02 *
* C & E Loss (m) * 0.14 * Cum SA (1000 m2) * 30.85 * 16.45 * 47.65 *
*****
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CROSS SECTION INPUT River Station: 19
Description:
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Station Elevation Data, num = 25
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Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0290.08181	1.08483289	26492.382851	288.5093	492846288	27437.672582288	3566			
8.897513287	9.69510.02518287	0.67310.66693286	9.33212.07892286	9.02713.31489286	9.576				
13.83462	287.04615	23604288.039623	65995	288.25628	77966288.655330	82175	289.076		
31.65421289	219233.09214289	231433.98834289	2131	36.6661289	380839.17812289	3655			
40.58128289	255843.02165288	923648.12642288	789450	71283	288.8952.84354290	4201			

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.068	897513	.0415	23604	.065

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
8.89751	15.236		136.51	141.07	141.33		0.1	0.3

CROSS SECTION OUTPUT Riv Sta: 19 Profile # Storm Event

		Element	Left OB	Channel	Right OB
* E.G. Elev (m)	* 290.21	* Element	* 0.060	* 0.040	* 0.065
* Vel Head (m)	* 1.61	* Wt. n-Val	* 136.51	* 141.07	* 141.33
* W.S. Elev (m)	* 288.60	* Reach Len. (m)	* 1.97	* 9.01	* 4.59
* Crit W.S. (m)	* 289.11	* Flow Area (m2)	* 1.97	* 9.01	* 4.59
* E.G. Slope (m/m)	* 0.042244	* Area (m2)	* 2.97	* 54.78	* 7.29
* Q Total (m3/s)	* 65.04	* Flow (m3/s)	* 6.67	* 6.34	* 12.85
* Top Width (m)	* 25.86	* Top Width (m)	* 1.50	* 6.08	* 1.59
* Vel Total (m/s)	* 4.18	* Avg. Vel. (m/s)	* 0.30	* 1.42	* 0.36
* Max Chl Dpth (m)	* 1.70	* Hydr. Depth (m)	* 14.4	* 266.5	* 35.5
* Conv. Total (m3/s)	* 316.4	* Conv. (m3/s)	* 6.78	* 6.99	* 12.87
* Length Wtd. (m)	* 140.74	* Wetted Per. (m)	* 120.53	* 533.50	* 147.66
* Min Ch El (m)	* 286.90	* Shear (N/sq m)	* 181.30	* 3244.73	* 234.72
* Alpha	* 1.81	* Stream Power (N/m s)	* 0.01	* 0.03	* 0.01
* Frctn Loss (m)	* 1.18	* Cum Volume (cu m x 10^4)	* 28.06	* 17.57	* 33.99
* C & E Loss (m)	* 0.11	* Cum SA (1000 m2)			

CROSS SECTION OUTPUT Riv Sta: 19 Profile # 25 yr Storm

		Element	Left OB	Channel	Right OB
* E.G. Elev (m)	* 290.30	* Element	* 0.060	* 0.040	* 0.065
* Vel Head (m)	* 1.40	* Wt. n-Val	* 136.51	* 141.07	* 141.33
* W.S. Elev (m)	* 288.89	* Reach Len. (m)	* 4.00	* 10.86	* 9.03
* Crit W.S. (m)	* 289.28	* Flow Area (m2)	* 4.00	* 10.86	* 9.03
* E.G. Slope (m/m)	* 0.032601	* Area (m2)	* 8.02	* 65.78	* 17.07
* Q Total (m3/s)	* 90.87	* Flow (m3/s)	* 7.16	* 6.34	* 21.30
* Top Width (m)	* 34.80	* Top Width (m)	* 2.01	* 6.05	* 1.89
* Vel Total (m/s)	* 3.80	* Avg. Vel. (m/s)	* 0.56	* 1.71	* 0.42
* Max Chl Dpth (m)	* 1.99	* Hydr. Depth (m)	* 44.4	* 364.3	* 94.5
* Conv. Total (m3/s)	* 503.3	* Conv. (m3/s)	* 7.36	* 6.99	* 21.35
* Length Wtd. (m)	* 140.52	* Wetted Per. (m)	* 173.89	* 496.64	* 135.24
* Min Ch El (m)	* 286.90	* Shear (N/sq m)	* 348.68	* 3006.92	* 255.57
* Alpha	* 1.91	* Stream Power (N/m s)	* 0.02	* 0.03	* 0.01
* Frctn Loss (m)	* 1.60	* Cum Volume (cu m x 10^4)	* 28.90	* 17.61	* 38.92
* C & E Loss (m)	* 0.05	* Cum SA (1000 m2)			

CROSS SECTION OUTPUT Riv Sta: 19 Profile # 100 yr Storm

		Element	Left OB	Channel	Right OB
* E.G. Elev (m)	* 290.51	* Element	* 0.060	* 0.040	* 0.065
* Vel Head (m)	* 1.39	* Wt. n-Val	* 136.51	* 141.07	* 141.33
* W.S. Elev (m)	* 289.12	* Reach Len. (m)	* 5.69	* 12.32	* 14.48
* Crit W.S. (m)	* 289.64	* Flow Area (m2)	* 5.69	* 12.32	* 14.48
* E.G. Slope (m/m)	* 0.029921	* Area (m2)	* 13.29	* 77.72	* 29.47
* Q Total (m3/s)	* 120.49	* Flow (m3/s)	* 7.55	* 6.34	* 25.36
* Top Width (m)	* 39.25	* Top Width (m)	* 2.34	* 6.31	* 2.04
* Vel Total (m/s)	* 3.71	* Avg. Vel. (m/s)	* 0.75	* 1.94	* 0.57
* Max Chl Dpth (m)	* 2.22	* Hydr. Depth (m)	* 76.9	* 449.3	* 170.4
* Conv. Total (m3/s)	* 696.6	* Conv. (m3/s)	* 7.81	* 6.99	* 25.52
* Length Wtd. (m)	* 140.36	* Wetted Per. (m)	* 213.96	* 516.93	* 166.47
* Min Ch El (m)	* 286.90	* Shear (N/sq m)	* 499.70	* 3260.68	* 338.89
* Alpha	* 1.98	* Stream Power (N/m s)	* 0.02	* 0.03	* 0.02
* Frctn Loss (m)	* 1.77	* Cum Volume (cu m x 10^4)	* 32.88	* 17.64	* 50.04
* C & E Loss (m)	* 0.02	* Cum SA (1000 m2)			

CROSS SECTION INPUT River Station: 20  
Description:

Station Elevation Data, num = 26

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
-45.51	294.25	-41.72	292.75	-38.81	292	-37.36	291.75	-34.99	291.5
-30.98	291.25	-24.82	291	-15.62	290.75	0	290.55	3.06	290.5512
5.65288	8.413	5.84288	6.309	8.35288	7.651	9.4288	5.974	9.76288	8.291
11.56290	4.719	14.96290	6.121	20.2	290.75	38.83	290.75	41.01	291
42.72	291.25	44.17	291.5	45.42	291.75	47.22	292.25	48.99	293
51.41	294.25								

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
-45.51	.06	3.06	.04	11.56	.065

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	3.06	11.56	67.95	64.8	61.77		0.1	0.3

CROSS SECTION OUTPUT Riv Sta: 20 Profile # Storm Event

		Element	Left OB	Channel	Right OB
* E.G. Elev (m)	* 291.50	* Element	* 0.060	* 0.040	* 0.065
* Vel Head (m)	* 0.48	* Wt. n-Val	* 67.95	* 64.80	* 61.77
* W.S. Elev (m)	* 291.02	* Reach Len. (m)	* 8.54	* 15.44	* 8.73
* Crit W.S. (m)	* 291.15	* Flow Area (m2)	* 8.54	* 15.44	* 8.73
* E.G. Slope (m/m)	* 0.010172	* Area (m2)	* 6.45	* 52.59	* 6.00
* Q Total (m3/s)	* 65.04	* Flow (m3/s)			

* Top Width (m)	* 66.44	* Top Width (m)	* 28.36	* 8.50	* 29.58
* Vel Total (m/s)	* 1.99	* Avg. Vel. (m/s)	* 0.76	* 3.41	* 0.69
* Max Chl Dpth (m)	* 2.42	* Hydr. Depth (m)	* 0.30	* 1.82	* 0.30
* Conv. Total (m3/s)	* 644.9	* Conv. (m3/s)	* 63.9	* 521.4	* 59.5
* Length Wtd. (m)	* 64.72	* Wetted Per. (m)	* 28.36	* 9.83	* 29.60
* Min Ch El (m)	* 288.60	* Shear (N/sq m)	* 30.03	* 156.63	* 29.43
* Alpha	* 2.40	* Stream Power (N/m s)	* 22.68	* 533.49	* 20.24
* Frctn Loss (m)	* 0.18	* Cum Volume (cu m x 10^6)	* 0.01	* 0.03	* 0.01
* C & E Loss (m)	* 0.11	* Cum SA (1000 m2)	* 29.25	* 18.05	* 35.30

CROSS SECTION OUTPUT Riv Sta: 20 Profile # 25 yr Storm

* E.G. Elev (m)	* 291.95	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.92	* Wt. n-Val	* 0.060	* 0.040	* 0.065
* W.S. Elev (m)	* 291.03	* Reach Len. (m)	* 67.95	* 64.80	* 61.77
* Crit W.S. (m)	* 291.33	* Flow Area (m2)	* 8.70	* 15.49	* 8.90
* E.G. Slope (m/m)	* 0.019471	* Area (m2)	* 8.70	* 15.49	* 8.90
* Q Total (m3/s)	* 90.87	* Flow (m3/s)	* 9.17	* 73.13	* 8.57
* Top Width (m)	* 66.62	* Top Width (m)	* 28.49	* 8.50	* 29.62
* Vel Total (m/s)	* 2.75	* Avg. Vel. (m/s)	* 1.05	* 4.72	* 0.96
* Max Chl Dpth (m)	* 2.43	* Hydr. Depth (m)	* 0.31	* 1.82	* 0.30
* Conv. Total (m3/s)	* 651.2	* Conv. (m3/s)	* 65.7	* 524.1	* 61.4
* Length Wtd. (m)	* 64.67	* Wetted Per. (m)	* 28.50	* 9.83	* 29.64
* Min Ch El (m)	* 288.60	* Shear (N/sq m)	* 58.28	* 300.73	* 57.33
* Alpha	* 2.41	* Stream Power (N/m s)	* 61.44	* 1420.10	* 55.18
* Frctn Loss (m)	* 0.29	* Cum Volume (cu m x 10^6)	* 0.02	* 0.03	* 0.01
* C & E Loss (m)	* 0.09	* Cum SA (1000 m2)	* 30.11	* 18.09	* 40.50

CROSS SECTION OUTPUT Riv Sta: 20 Profile # 100 yr Storm

* E.G. Elev (m)	* 292.31	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.19	* Wt. n-Val	* 0.060	* 0.040	* 0.065
* W.S. Elev (m)	* 291.12	* Reach Len. (m)	* 67.95	* 64.80	* 61.77
* Crit W.S. (m)	* 291.49	* Flow Area (m2)	* 11.36	* 16.25	* 11.59
* E.G. Slope (m/m)	* 0.025159	* Area (m2)	* 11.36	* 16.25	* 11.59
* Q Total (m3/s)	* 120.49	* Flow (m3/s)	* 15.48	* 90.09	* 14.92
* Top Width (m)	* 69.45	* Top Width (m)	* 30.71	* 8.50	* 30.24
* Vel Total (m/s)	* 3.07	* Avg. Vel. (m/s)	* 1.36	* 5.54	* 1.29
* Max Chl Dpth (m)	* 2.52	* Hydr. Depth (m)	* 0.37	* 1.91	* 0.38
* Conv. Total (m3/s)	* 759.6	* Conv. (m3/s)	* 97.6	* 568.0	* 94.1
* Length Wtd. (m)	* 64.62	* Wetted Per. (m)	* 30.72	* 9.83	* 30.26
* Min Ch El (m)	* 288.60	* Shear (N/sq m)	* 91.26	* 407.79	* 94.51
* Alpha	* 2.48	* Stream Power (N/m s)	* 124.31	* 2260.48	* 121.65
* Frctn Loss (m)	* 0.35	* Cum Volume (cu m x 10^6)	* 0.02	* 0.03	* 0.02
* C & E Loss (m)	* 0.05	* Cum SA (1000 m2)	* 34.18	* 18.12	* 51.75

CROSS SECTION INPUT River Station: 21  
Description:

Station Elevation Data, num = 39

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
-47.21	294	-43.95	293.25	-42.91	293	-41.58	292.75	-40	292.5
-37.78	292.25	-33.22	292	-25.09	291.75	-12.53	291.35	-6.5	291.16
0	290.96	.89	292.002	10.29292.2733	10.93292.2764	10.98291.7125			
11.25291.7125	11.28291.3833	12.7290.9109	14.27290.7036	15.35289.6459					
17.23288.9266	18.13288.7132	19.9288.7193	20.07288.8839	20.99289.1887					
22.65 289.335	23.39290.4049	24.39 291.109	25.15290.9749	25.15291.5265					
25.22 292.066	26.1292.0508	37.04291.4839	43.62291.1821	51.44 290.75					
53.76 291	56.33 291.5	58.87 292.25	61.38 293.25						

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
-47.21	.06	10.93	.04	25.22	.065

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
10.93	25.22	18.58	12.29	8.84	0.1	0.3	

CROSS SECTION OUTPUT Riv Sta: 21 Profile # Storm Event

* E.G. Elev (m)	* 291.79	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.86	* Wt. n-Val	* 18.58	* 12.29	* 8.84
* W.S. Elev (m)	* 290.93	* Reach Len. (m)	* 0.43	* 15.73	* 0.43
* Crit W.S. (m)	* 291.23	* Flow Area (m2)	* 0.43	* 15.73	* 0.43
* E.G. Slope (m/m)	* 0.020952	* Area (m2)	* 0.43	* 15.73	* 0.43
* Q Total (m3/s)	* 65.04	* Flow (m3/s)	* 64.85	* 0.19	* 0.19
* Top Width (m)	* 16.31	* Top Width (m)	* 11.48	* 4.83	* 4.83
* Vel Total (m/s)	* 4.03	* Avg. Vel. (m/s)	* 4.12	* 0.44	* 0.44
* Max Chl Dpth (m)	* 2.21	* Hydr. Depth (m)	* 1.37	* 0.09	* 0.09
* Conv. Total (m3/s)	* 449.3	* Conv. (m3/s)	* 448.0	* 1.3	* 1.3
* Length Wtd. (m)	* 12.44	* Wetted Per. (m)	* 12.93	* 4.84	* 4.84
* Min Ch El (m)	* 288.71	* Shear (N/sq m)	* 249.92	* 18.07	* 18.07
* Alpha	* 1.05	* Stream Power (N/m s)	* 1030.51	* 7.95	* 7.95
* Frctn Loss (m)	* 0.22	* Cum Volume (cu m x 10^6)	* 0.01	* 0.03	* 0.01
* C & E Loss (m)	* 0.21	* Cum SA (1000 m2)	* 29.51	* 18.18	* 35.45

CROSS SECTION OUTPUT Riv Sta: 21 Profile # 25 yr Storm

* E.G. Elev (m)	* 292.33	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.21	* Wt. n-Val	* 0.060	* 0.040	* 0.065
* W.S. Elev (m)	* 291.12	* Reach Len. (m)	* 18.58	* 12.29	* 8.84
* Crit W.S. (m)	* 291.59	* Flow Area (m2)	* 0.43	* 18.10	* 1.85
* E.G. Slope (m/m)	* 0.029528	* Area (m2)	* 0.43	* 18.10	* 1.85
* Q Total (m3/s)	* 90.87	* Flow (m3/s)	* 0.23	* 89.02	* 1.62
* Top Width (m)	* 28.09	* Top Width (m)	* 5.36	* 13.08	* 9.65
* Vel Total (m/s)	* 4.46	* Avg. Vel. (m/s)	* 0.53	* 4.92	* 0.88
* Max Chl Dpth (m)	* 2.41	* Hydr. Depth (m)	* 0.08	* 1.38	* 0.19
* Conv. Total (m3/s)	* 528.8	* Conv. (m3/s)	* 1.3	* 518.0	* 9.5

```

* Length Wtd. (m) * 12.42 * Wetted Per. (m) * 5.44 * 14.78 * 9.69 *
* Min Ch El (m) * 288.71 * Shear (N/sq m) * 22.95 * 354.64 * 55.35 *
* Alpha * 1.19 * Stream Power (N/m s) * 12.12 * 1743.94 * 48.56 *
* Frctn Loss (m) * 0.25 * Cum Volume (cu m x 10^4) * 0.02 * 0.03 * 0.01 *
* C & E Loss (m) * 0.16 * Cum SA (1000 m2) * 30.42 * 18.22 * 40.67 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 21 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 292.71 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.37 * Wt. n-Val * 0.060 * 0.040 * 0.065 *
* W.S. Elev (m) * 291.34 * Reach Len. (m) * 18.58 * 12.29 * 8.84 *
* Crit W.S. (m) * 291.84 * Flow Area (m2) * 2.41 * 21.06 * 4.59 *
* E.G. Slope (m/m) * 0.030925 * Area (m2) * 2.41 * 21.06 * 4.59 *
* Q Total (m3/s) * 120.49 * Flow (m3/s) * 2.33 * 112.62 * 5.54 *
* Top Width (m) * 41.69 * Top Width (m) * 12.58 * 13.74 * 15.37 *
* Vel Total (m/s) * 4.29 * Avg. Vel. (m/s) * 0.97 * 5.35 * 1.21 *
* Max Chl Dpth (m) * 2.63 * Hydr. Depth (m) * 0.19 * 1.53 * 0.30 *
* Conv. Total (m3/s) * 685.2 * Conv. (m3/s) * 13.2 * 640.4 * 31.5 *
* Length Wtd. (m) * 12.46 * Wetted Per. (m) * 12.76 * 15.70 * 15.43 *
* Min Ch El (m) * 288.71 * Shear (N/sq m) * 57.33 * 406.82 * 90.28 *
* Alpha * 1.45 * Stream Power (N/m s) * 55.35 * 2175.42 * 108.89 *
* Frctn Loss (m) * 0.24 * Cum Volume (cu m x 10^4) * 0.02 * 0.03 * 0.02 *
* C & E Loss (m) * 0.09 * Cum SA (1000 m2) * 34.59 * 18.25 * 51.95 *
*****

```

CROSS SECTION INPUT River Station: 22  
Description:

```

Station Elevation Data, num = 44
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
-30.82 293.5 -29.05 293.25 -25.88 293 -21.97 292.75 -17.16 292.5
-9.83 292.25 -3.86 292 0 292.09 -7.291.9685 1.35291.5509
3.36292.1392 4.91292.3495 6.92292.3312 12.9292.1758 21.14291.9929
25.7292.0996 31.67292.2825 32.25292.2794 32.36291.7186 32.62291.7125
32.71 291.618 33.6291.1516 35.86289.4173 37.04289.6276 38.38289.1887
39.29 288.951 41.14289.1918 42.23289.5057 43.05289.4326 43.69 289.844
44.25290.4079 45.54291.2675 46.52291.2675 46.56291.5113 46.87292.0782
47.5 292.066 49.38292.0935 54.19291.9136 61.08291.4625 66.78290.9566
70.82290.9718 73.31291.7033 76.11 292.75 79.26 294

```

```

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
-30.82 .06 32.25 .04 46.87 .065

```

```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
32.25 46.87 7.89 7.33 7.62 0.1 0.3

```

```

CROSS SECTION OUTPUT Riv Sta: 22 Profile # Storm Event
*****
* E.G. Elev (m) * 292.22 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.58 * Wt. n-Val * 0.040 * 0.040 * 0.065 *
* W.S. Elev (m) * 290.65 * Reach Len. (m) * 7.89 * 7.33 * 7.62 *
* Crit W.S. (m) * 291.24 * Flow Area (m2) * 11.69 * 11.69 * 11.69 *
* E.G. Slope (m/m) * 0.047728 * Area (m2) * 11.69 * 11.69 * 11.69 *
* Q Total (m3/s) * 65.04 * Flow (m3/s) * 65.04 * 65.04 * 65.04 *
* Top Width (m) * 10.35 * Top Width (m) * 10.35 * 10.35 * 10.35 *
* Vel Total (m/s) * 5.56 * Avg. Vel. (m/s) * 5.56 * 5.56 * 5.56 *
* Max Chl Dpth (m) * 1.70 * Hydr. Depth (m) * 1.13 * 1.13 * 1.13 *
* Conv. Total (m3/s) * 297.7 * Conv. (m3/s) * 297.7 * 297.7 * 297.7 *
* Length Wtd. (m) * 7.33 * Wetted Per. (m) * 11.38 * 11.38 * 11.38 *
* Min Ch El (m) * 288.95 * Shear (N/sq m) * 480.92 * 480.92 * 480.92 *
* Alpha * 1.00 * Stream Power (N/m s) * 2674.48 * 2674.48 * 2674.48 *
* Frctn Loss (m) * 0.44 * Cum Volume (cu m x 10^4) * 0.01 * 0.03 * 0.01 *
* C & E Loss (m) * 0.05 * Cum SA (1000 m2) * 29.51 * 18.26 * 35.47 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 22 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 292.74 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.74 * Wt. n-Val * 0.040 * 0.040 * 0.065 *
* W.S. Elev (m) * 291.00 * Reach Len. (m) * 7.89 * 7.33 * 7.62 *
* Crit W.S. (m) * 291.63 * Flow Area (m2) * 15.52 * 15.52 * 15.52 *
* E.G. Slope (m/m) * 0.041476 * Area (m2) * 15.52 * 15.52 * 15.52 *
* Q Total (m3/s) * 90.87 * Flow (m3/s) * 90.87 * 90.87 * 90.87 *
* Top Width (m) * 15.98 * Top Width (m) * 11.34 * 11.34 * 11.34 *
* Vel Total (m/s) * 5.79 * Avg. Vel. (m/s) * 5.85 * 5.85 * 5.85 *
* Max Chl Dpth (m) * 2.05 * Hydr. Depth (m) * 1.37 * 1.37 * 1.37 *
* Conv. Total (m3/s) * 446.2 * Conv. (m3/s) * 445.9 * 445.9 * 445.9 *
* Length Wtd. (m) * 7.33 * Wetted Per. (m) * 12.60 * 12.60 * 12.60 *
* Min Ch El (m) * 288.95 * Shear (N/sq m) * 501.12 * 501.12 * 501.12 *
* Alpha * 1.02 * Stream Power (N/m s) * 2932.20 * 2932.20 * 2932.20 *
* Frctn Loss (m) * 0.40 * Cum Volume (cu m x 10^4) * 0.02 * 0.03 * 0.01 *
* C & E Loss (m) * 0.06 * Cum SA (1000 m2) * 30.44 * 18.31 * 40.72 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 22 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 293.04 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.66 * Wt. n-Val * 0.040 * 0.040 * 0.065 *
* W.S. Elev (m) * 291.38 * Reach Len. (m) * 7.89 * 7.33 * 7.62 *
* Crit W.S. (m) * 291.92 * Flow Area (m2) * 20.14 * 20.14 * 20.14 *
* E.G. Slope (m/m) * 0.035965 * Area (m2) * 20.14 * 20.14 * 20.14 *
* Q Total (m3/s) * 120.49 * Flow (m3/s) * 116.69 * 116.69 * 116.69 *
* Top Width (m) * 23.58 * Top Width (m) * 13.37 * 13.37 * 13.37 *
* Vel Total (m/s) * 5.21 * Avg. Vel. (m/s) * 5.79 * 5.79 * 5.79 *
* Max Chl Dpth (m) * 2.43 * Hydr. Depth (m) * 1.51 * 1.51 * 1.51 *
* Conv. Total (m3/s) * 635.3 * Conv. (m3/s) * 615.3 * 615.3 * 615.3 *
* Length Wtd. (m) * 7.35 * Wetted Per. (m) * 14.91 * 14.91 * 14.91 *
* Min Ch El (m) * 288.95 * Shear (N/sq m) * 476.40 * 476.40 * 476.40 *
* Alpha * 1.20 * Stream Power (N/m s) * 2759.92 * 2759.92 * 2759.92 *

```

```
* Frctn Loss (m) * 0.37 * Cum Volume (cu m x 10^ * 0.02 * 0.03 * 0.02 *
* C & E Loss (m) * 0.05 * Cum SA (1000 m2) * 34.64 * 18.35 * 52.05 *
*****
```

```
CROSS SECTION INPUT River Station: 23
Description: Observed HWM = 292.53 m (959.73 ft)
```

```
Station Elevation Data, num = 22
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
-59.48 293 -51.99 292.75 -41.98 292.5 -31.69 292.25 -20.9 292
-1.53 291.75 0 291.87 .87291.7582 1.89291.2157 2.62291.5113
4.44290.7493 5.89289.6581 7.33289.5453 8.88289.2985 10.13289.5575
11.07290.5847 14.63291.4717 15.77 291.5 17.35 291.75 21.91 293.25
24.36 294.25 26.67 295.25
```

```
Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
-59.48 .06 4.44 .04 11.07 .065
```

```
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
4.44 11.07 10.62 16.19 21.45 0.1 0.3
```

```
CROSS SECTION OUTPUT Riv Sta: 23 Profile # Storm Event
*****
* E.G. Elev (m) * 292.72 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.06 * Wt. n-Val * 0.060 * 0.040 * 0.065 *
* W.S. Elev (m) * 291.66 * Reach Len. (m) * 10.62 * 16.19 * 21.45 *
* Crit W.S. (m) * 292.14 * Flow Area (m2) * 1.36 * 12.83 * 2.52 *
* E.G. Slope (m/m) * 0.017464 * Area (m2) * 1.36 * 12.83 * 2.52 *
* Q Total (m3/s) * 65.04 * Flow (m3/s) * 1.53 * 60.58 * 2.93 *
* Top Width (m) * 15.72 * Top Width (m) * 3.38 * 6.64 * 5.70 *
* Vel Total (m/s) * 3.89 * Avg. Vel. (m/s) * 1.13 * 4.72 * 1.16 *
* Max Chl Dpth (m) * 2.36 * Hydr. Depth (m) * 0.40 * 1.93 * 0.44 *
* Conv. Total (m3/s) * 492.2 * Conv. (m3/s) * 11.6 * 458.4 * 22.2 *
* Length Wtd. (m) * 16.24 * Wetted Per. (m) * 3.70 * 7.51 * 5.82 *
* Min Ch El (m) * 289.30 * Shear (N/sq m) * 62.87 * 292.70 * 74.07 *
* Alpha * 1.38 * Stream Power (N/m s) * 71.00 * 1382.32 * 86.12 *
* Frctn Loss (m) * 1.27 * Cum Volume (cu m x 10^ * 0.01 * 0.03 * 0.01 *
* C & E Loss (m) * 0.11 * Cum SA (1000 m2) * 29.53 * 18.39 * 35.53 *
*****
```

```
CROSS SECTION OUTPUT Riv Sta: 23 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 293.21 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.18 * Wt. n-Val * 0.060 * 0.040 * 0.065 *
* W.S. Elev (m) * 292.02 * Reach Len. (m) * 10.62 * 16.19 * 21.45 *
* Crit W.S. (m) * 292.46 * Flow Area (m2) * 6.05 * 15.25 * 4.89 *
* E.G. Slope (m/m) * 0.016528 * Area (m2) * 6.05 * 15.25 * 4.89 *
* Q Total (m3/s) * 90.87 * Flow (m3/s) * 4.82 * 78.62 * 7.43 *
* Top Width (m) * 40.10 * Top Width (m) * 26.36 * 6.64 * 7.11 *
* Vel Total (m/s) * 3.47 * Avg. Vel. (m/s) * 0.80 * 5.16 * 1.52 *
* Max Chl Dpth (m) * 2.73 * Hydr. Depth (m) * 0.23 * 2.30 * 0.69 *
* Conv. Total (m3/s) * 706.8 * Conv. (m3/s) * 37.5 * 611.6 * 57.8 *
* Length Wtd. (m) * 16.26 * Wetted Per. (m) * 26.72 * 7.51 * 7.28 *
* Min Ch El (m) * 289.30 * Shear (N/sq m) * 36.71 * 329.31 * 108.98 *
* Alpha * 1.93 * Stream Power (N/m s) * 29.23 * 1697.82 * 165.42 *
* Frctn Loss (m) * 1.18 * Cum Volume (cu m x 10^ * 0.02 * 0.03 * 0.01 *
* C & E Loss (m) * 0.12 * Cum SA (1000 m2) * 30.58 * 18.46 * 40.85 *
*****
```

```
CROSS SECTION OUTPUT Riv Sta: 23 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 293.46 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.17 * Wt. n-Val * 0.060 * 0.040 * 0.065 *
* W.S. Elev (m) * 292.29 * Reach Len. (m) * 10.62 * 16.19 * 21.45 *
* Crit W.S. (m) * 292.70 * Flow Area (m2) * 14.74 * 17.04 * 6.93 *
* E.G. Slope (m/m) * 0.015696 * Area (m2) * 14.74 * 17.04 * 6.93 *
* Q Total (m3/s) * 120.49 * Flow (m3/s) * 16.29 * 92.21 * 11.98 *
* Top Width (m) * 52.49 * Top Width (m) * 37.93 * 6.64 * 7.93 *
* Vel Total (m/s) * 3.11 * Avg. Vel. (m/s) * 1.11 * 5.41 * 1.73 *
* Max Chl Dpth (m) * 3.00 * Hydr. Depth (m) * 0.39 * 2.57 * 0.87 *
* Conv. Total (m3/s) * 961.7 * Conv. (m3/s) * 130.1 * 736.0 * 95.6 *
* Length Wtd. (m) * 16.16 * Wetted Per. (m) * 38.29 * 7.51 * 8.15 *
* Min Ch El (m) * 289.30 * Shear (N/sq m) * 59.27 * 349.51 * 130.89 *
* Alpha * 2.36 * Stream Power (N/m s) * 65.50 * 1891.17 * 226.45 *
* Frctn Loss (m) * 1.10 * Cum Volume (cu m x 10^ * 0.02 * 0.04 * 0.02 *
* C & E Loss (m) * 0.11 * Cum SA (1000 m2) * 34.84 * 18.52 * 52.25 *
*****
```

```
CROSS SECTION INPUT River Station: 24
Description:
```

```
Station Elevation Data, num = 23
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0294.23325.999668293.54747.115836293.032310.58155292.901214.86998 292.697
14.87065293.541327.07358292.922530.64967293.071931.08876292.992631.71616292.7793
32.00343292.946932.89835293.114638.49797293.029243.84559292.907352.51148292.8494
56.93031 292.572 62.5693292.599464.90421292.657468.52449291.005370.15958290.8621
72.34767291.011475.09825292.5263 77.0216294.4496
```

```
Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .0464.90421 .03575.09825 .06
```

```
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
64.9042 75.0982 56.07 56.51 57.29 0.1 0.3
```

```
CROSS SECTION OUTPUT Riv Sta: 24 Profile # Storm Event
```



```

*****
* E.G. Elev (m) * 294.10 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.44 * Wt. n-Val * 0.040 * 0.035 * 0.060 *
* W.S. Elev (m) * 292.67 * Reach Len. (m) * 56.07 * 56.51 * 57.29 *
* Crit W.S. (m) * 293.25 * Flow Area (m2) * 0.63 * 12.12 * 0.01 *
* E.G. Slope (m/m) * 0.030358 * Area (m2) * 0.63 * 12.12 * 0.01 *
* Q Total (m3/s) * 65.04 * Flow (m3/s) * 0.45 * 64.59 * 0.00 *
* Top Width (m) * 19.84 * Top Width (m) * 9.50 * 10.19 * 0.14 *
* Vel Total (m/s) * 5.10 * Avg. Vel. (m/s) * 0.71 * 5.33 * 0.39 *
* Max Chl Dpth (m) * 1.81 * Hydr. Depth (m) * 0.07 * 1.19 * 0.07 *
* Conv. Total (m3/s) * 373.3 * Conv. (m3/s) * 2.6 * 370.7 * 0.0 *
* Length Wtd. (m) * 56.52 * Wetted Per. (m) * 9.51 * 10.95 * 0.20 *
* Min Ch El (m) * 290.86 * Shear (N/sq m) * 19.70 * 329.54 * 14.90 *
* Alpha * 1.09 * Stream Power (N/m s) * 14.04 * 1755.43 * 5.88 *
* Frctn Loss (m) * 3.80 * Cum Volume (cu m x 10^ * 0.01 * 0.03 * 0.01 *
* C & E Loss (m) * 0.02 * Cum SA (1000 m2) * 29.89 * 18.87 * 35.70 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 24 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 294.51 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.58 * Wt. n-Val * 0.040 * 0.035 * 0.060 *
* W.S. Elev (m) * 292.93 * Reach Len. (m) * 56.07 * 56.51 * 57.29 *
* Crit W.S. (m) * 293.40 * Flow Area (m2) * 4.63 * 14.77 * 0.08 *
* E.G. Slope (m/m) * 0.027158 * Area (m2) * 4.63 * 14.77 * 0.08 *
* Q Total (m3/s) * 90.87 * Flow (m3/s) * 5.90 * 84.91 * 0.06 *
* Top Width (m) * 38.45 * Top Width (m) * 27.86 * 10.19 * 0.40 *
* Vel Total (m/s) * 4.66 * Avg. Vel. (m/s) * 1.27 * 5.75 * 0.75 *
* Max Chl Dpth (m) * 2.07 * Hydr. Depth (m) * 0.17 * 1.45 * 0.20 *
* Conv. Total (m3/s) * 551.4 * Conv. (m3/s) * 35.8 * 515.2 * 0.4 *
* Length Wtd. (m) * 56.52 * Wetted Per. (m) * 28.17 * 10.95 * 0.57 *
* Min Ch El (m) * 290.86 * Shear (N/sq m) * 43.82 * 359.19 * 37.80 *
* Alpha * 1.42 * Stream Power (N/m s) * 55.80 * 2064.43 * 28.24 *
* Frctn Loss (m) * 3.84 * Cum Volume (cu m x 10^ * 0.02 * 0.03 * 0.02 *
* C & E Loss (m) * 0.01 * Cum SA (1000 m2) * 32.10 * 18.93 * 41.06 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 24 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 294.67 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.54 * Wt. n-Val * 0.040 * 0.035 * 0.060 *
* W.S. Elev (m) * 293.13 * Reach Len. (m) * 56.07 * 56.51 * 57.29 *
* Crit W.S. (m) * 293.58 * Flow Area (m2) * 12.60 * 16.81 * 0.18 *
* E.G. Slope (m/m) * 0.024786 * Area (m2) * 12.60 * 16.81 * 0.18 *
* Q Total (m3/s) * 120.49 * Flow (m3/s) * 19.70 * 100.62 * 0.17 *
* Top Width (m) * 60.63 * Top Width (m) * 49.84 * 10.19 * 0.60 *
* Vel Total (m/s) * 4.07 * Avg. Vel. (m/s) * 1.56 * 5.99 * 0.93 *
* Max Chl Dpth (m) * 2.27 * Hydr. Depth (m) * 0.25 * 1.65 * 0.30 *
* Conv. Total (m3/s) * 765.3 * Conv. (m3/s) * 125.1 * 639.1 * 1.1 *
* Length Wtd. (m) * 56.48 * Wetted Per. (m) * 50.42 * 10.95 * 0.85 *
* Min Ch El (m) * 290.86 * Shear (N/sq m) * 60.77 * 373.06 * 51.68 *
* Alpha * 1.83 * Stream Power (N/m s) * 94.97 * 2232.81 * 48.31 *
* Frctn Loss (m) * 4.00 * Cum Volume (cu m x 10^ * 0.02 * 0.04 * 0.02 *
* C & E Loss (m) * 0.04 * Cum SA (1000 m2) * 37.30 * 18.99 * 52.49 *
*****

```

```

CROSS SECTION INPUT River Station: 25
Description:

Station Elevation Data, num = 18
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0297.08925.508491297.1288 5.57121297.58295.882653 297.5895.952672297.0678
10.3686296.918528.75344296.808740.22592296.595445.72252296.214450.07075296.3515
53.16226296.494857.30812295.751158.38586295.196360.58679 294.91962.81851295.3152
63.93639295.735864.49257296.659466.49727298.5278

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .04557.30812 .03563.93639 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
57.3081 63.9364 151.42 153.56 151.86 0.1 0.3

```

```

CROSS SECTION OUTPUT Riv Sta: 25 Profile # Storm Event
*****
* E.G. Elev (m) * 297.92 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.18 * Wt. n-Val * 0.045 * 0.035 * 0.060 *
* W.S. Elev (m) * 296.74 * Reach Len. (m) * 151.42 * 153.56 * 151.86 *
* Crit W.S. (m) * 297.18 * Flow Area (m2) * 7.87 * 10.03 * 0.30 *
* E.G. Slope (m/m) * 0.020742 * Area (m2) * 7.87 * 10.03 * 0.30 *
* Q Total (m3/s) * 65.04 * Flow (m3/s) * 11.72 * 53.03 * 0.29 *
* Top Width (m) * 32.01 * Top Width (m) * 24.74 * 6.63 * 0.64 *
* Vel Total (m/s) * 3.57 * Avg. Vel. (m/s) * 1.49 * 5.29 * 0.96 *
* Max Chl Dpth (m) * 1.82 * Hydr. Depth (m) * 0.32 * 1.51 * 0.47 *
* Conv. Total (m3/s) * 451.6 * Conv. (m3/s) * 81.4 * 368.2 * 2.0 *
* Length Wtd. (m) * 153.36 * Wetted Per. (m) * 24.83 * 6.89 * 1.19 *
* Min Ch El (m) * 294.92 * Shear (N/sq m) * 64.52 * 296.12 * 51.78 *
* Alpha * 1.82 * Stream Power (N/m s) * 96.03 * 1565.12 * 49.93 *
* Frctn Loss (m) * 3.44 * Cum Volume (cu m x 10^ * 0.01 * 0.03 * 0.01 *
* C & E Loss (m) * 0.14 * Cum SA (1000 m2) * 32.48 * 20.16 * 35.76 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 25 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 298.36 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.44 * Wt. n-Val * 0.045 * 0.035 * 0.060 *
* W.S. Elev (m) * 296.93 * Reach Len. (m) * 151.42 * 153.56 * 151.86 *
* Crit W.S. (m) * 297.32 * Flow Area (m2) * 14.35 * 11.29 * 0.44 *
* E.G. Slope (m/m) * 0.023255 * Area (m2) * 14.35 * 11.29 * 0.44 *
* Q Total (m3/s) * 90.87 * Flow (m3/s) * 21.97 * 68.39 * 0.51 *
* Top Width (m) * 54.69 * Top Width (m) * 47.22 * 6.63 * 0.84 *

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```

* Vel Total (m/s) * 3.48 * Avg. Vel. (m/s) * 1.53 * 6.06 * 1.14 *
* Max Chl Dpth (m) * 2.01 * Hydr. Depth (m) * 0.30 * 1.70 * 0.53 *
* Conv. Total (m3/s) * 595.9 * Conv. (m3/s) * 144.1 * 448.5 * 3.3 *
* Length Wtd. (m) * 153.23 * Wetted Per. (m) * 47.31 * 6.89 * 1.47 *
* Min Ch El (m) * 294.92 * Shear (N/sq m) * 69.21 * 373.72 * 68.93 *
* Alpha * 2.32 * Stream Power (N/m s) * 105.91 * 2263.26 * 78.90 *
* Frctn Loss (m) * 3.53 * Cum Volume (cu m x 10^4) * 0.02 * 0.03 * 0.02 *
* C & E Loss (m) * 0.17 * Cum SA (1000 m2) * 37.79 * 20.23 * 41.16 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 25 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 298.72 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.69 * Wt. n-Val * 0.045 * 0.035 * 0.060 *
* W.S. Elev (m) * 297.03 * Reach Len. (m) * 151.42 * 153.56 * 151.86 *
* Crit W.S. (m) * 297.48 * Flow Area (m2) * 19.37 * 11.97 * 0.54 *
* E.G. Slope (m/m) * 0.027501 * Area (m2) * 19.37 * 11.97 * 0.54 *
* Q Total (m3/s) * 120.49 * Flow (m3/s) * 37.77 * 82.01 * 0.71 *
* Top Width (m) * 57.85 * Top Width (m) * 50.26 * 6.63 * 0.95 *
* Vel Total (m/s) * 3.78 * Avg. Vel. (m/s) * 1.95 * 6.85 * 1.32 *
* Max Chl Dpth (m) * 2.11 * Hydr. Depth (m) * 0.39 * 1.81 * 0.56 *
* Conv. Total (m3/s) * 726.6 * Conv. (m3/s) * 227.7 * 494.5 * 4.3 *
* Length Wtd. (m) * 153.04 * Wetted Per. (m) * 50.35 * 6.89 * 1.62 *
* Min Ch El (m) * 294.92 * Shear (N/sq m) * 103.76 * 468.65 * 89.32 *
* Alpha * 2.32 * Stream Power (N/m s) * 202.28 * 3209.54 * 118.17 *
* Frctn Loss (m) * 3.66 * Cum Volume (cu m x 10^4) * 0.03 * 0.04 * 0.02 *
* C & E Loss (m) * 0.17 * Cum SA (1000 m2) * 44.88 * 20.28 * 52.61 *
*****

```

CROSS SECTION INPUT River Station: 26  
Description:

```

Station Elevation Data, num = 38
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0301.31068.443803300.655315.89377300.457223.95649300.417624.63707300.3261
25.38123300.057926.54669300.411526.99373300.466329.47466300.426732.07992300.3018
33.41732300.356638.96838300.204245.75664300.134147.32834300.932749.45527 300.317
52.78053299.457555.82456299.3294 56.6451298.887558.16262298.960658.81313298.8021
58.91772298.707759.18453298.311459.39903298.698559.59501298.817460.09014298.8357
60.1849298.780860.34065298.619360.57822298.7168 60.9504298.710761.02678298.7778
61.08051298.875363.92181298.991166.22205298.863166.30048299.893367.09452300.2743
67.32668301.1522 68.3703301.121769.56186302.2464

```

```

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .0652.78053 .0366.30048 .06

```

```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
52.7805 66.3005 121.08 118.58 118.78 0.1 0.3

```

```

CROSS SECTION OUTPUT Riv Sta: 26 Profile # Storm Event
*****
* E.G. Elev (m) * 301.49 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.65 * Wt. n-Val * 0.060 * 0.030 * *
* W.S. Elev (m) * 299.85 * Reach Len. (m) * 121.08 * 118.58 * 118.78 *
* Crit W.S. (m) * 300.40 * Flow Area (m2) * 0.29 * 11.35 * *
* E.G. Slope (m/m) * 0.043456 * Area (m2) * 0.29 * 11.35 * *
* Q Total (m3/s) * 65.04 * Flow (m3/s) * 0.33 * 64.71 * *
* Top Width (m) * 15.02 * Top Width (m) * 1.50 * 13.52 * *
* Vel Total (m/s) * 5.59 * Avg. Vel. (m/s) * 1.14 * 5.70 * *
* Max Chl Dpth (m) * 1.53 * Hydr. Depth (m) * 0.19 * 0.84 * *
* Conv. Total (m3/s) * 312.0 * Conv. (m3/s) * 1.6 * 310.4 * *
* Length Wtd. (m) * 118.81 * Wetted Per. (m) * 1.55 * 15.26 * *
* Min Ch El (m) * 298.31 * Shear (N/sq m) * 80.15 * 316.84 * *
* Alpha * 1.04 * Stream Power (N/m s) * 91.42 * 1806.81 * *
* Frctn Loss (m) * 2.22 * Cum Volume (cu m x 10^4) * 0.01 * 0.03 * 0.01 *
* C & E Loss (m) * 0.10 * Cum SA (1000 m2) * 34.07 * 21.35 * 35.80 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 26 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 302.06 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 2.00 * Wt. n-Val * 0.060 * 0.030 * 0.060 *
* W.S. Elev (m) * 300.06 * Reach Len. (m) * 121.08 * 118.58 * 118.78 *
* Crit W.S. (m) * 300.78 * Flow Area (m2) * 0.71 * 14.27 * 0.03 *
* E.G. Slope (m/m) * 0.039126 * Area (m2) * 0.71 * 14.27 * 0.03 *
* Q Total (m3/s) * 90.87 * Flow (m3/s) * 1.03 * 89.82 * 0.02 *
* Top Width (m) * 16.24 * Top Width (m) * 2.37 * 13.52 * 0.35 *
* Vel Total (m/s) * 6.05 * Avg. Vel. (m/s) * 1.45 * 6.29 * 0.59 *
* Max Chl Dpth (m) * 1.75 * Hydr. Depth (m) * 0.30 * 1.06 * 0.08 *
* Conv. Total (m3/s) * 459.4 * Conv. (m3/s) * 5.2 * 454.1 * 0.1 *
* Length Wtd. (m) * 118.90 * Wetted Per. (m) * 2.45 * 15.31 * 0.39 *
* Min Ch El (m) * 298.31 * Shear (N/sq m) * 111.03 * 357.75 * 29.27 *
* Alpha * 1.07 * Stream Power (N/m s) * 161.42 * 2251.20 * 17.36 *
* Frctn Loss (m) * 1.88 * Cum Volume (cu m x 10^4) * 0.02 * 0.04 * 0.02 *
* C & E Loss (m) * 0.14 * Cum SA (1000 m2) * 40.79 * 21.42 * 41.23 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 26 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 302.56 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 2.26 * Wt. n-Val * 0.060 * 0.030 * 0.060 *
* W.S. Elev (m) * 300.29 * Reach Len. (m) * 121.08 * 118.58 * 118.78 *
* Crit W.S. (m) * 301.00 * Flow Area (m2) * 2.50 * 17.36 * 0.16 *
* E.G. Slope (m/m) * 0.034723 * Area (m2) * 2.50 * 17.36 * 0.16 *
* Q Total (m3/s) * 120.49 * Flow (m3/s) * 3.04 * 117.28 * 0.16 *
* Top Width (m) * 29.22 * Top Width (m) * 14.90 * 13.52 * 0.80 *
* Vel Total (m/s) * 6.02 * Avg. Vel. (m/s) * 1.22 * 6.75 * 1.00 *
* Max Chl Dpth (m) * 1.98 * Hydr. Depth (m) * 0.17 * 1.28 * 0.21 *
* Conv. Total (m3/s) * 646.6 * Conv. (m3/s) * 16.3 * 629.4 * 0.9 *
* Length Wtd. (m) * 119.00 * Wetted Per. (m) * 15.12 * 15.31 * 0.90 *

```

```

* Min Ch El (m) * 298.31 * Shear (N/sq m) * 56.25 * 386.18 * 62.40 *
* Alpha * 1.23 * Stream Power (N/m s) * 68.49 * 2608.64 * 62.52 *
* Frctn Loss (m) * 1.61 * Cum Volume (cu m x 10^ * 0.03 * 0.04 * 0.02 *
* C & E Loss (m) * 0.17 * Cum SA (1000 m2) * 48.82 * 21.48 * 52.71 *
*****

```

CROSS SECTION INPUT River Station: 26.7  
Description:

```

Station Elevation Data, num = 29
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0 305.25 .97 305 2.18 304.75 4.25 304.5 7.28 304.25
11.01 304 14.94 303.75 17.64 303.5 20.03 303.25 23.7 303
28.86 302.75 30.84 302.5 32.66 302.25 34.37 302 36.64 301.78
38.47 301.74 40.79 302 43.82 302.25 52.75 302.5 57.46 302.75
59.68 303 61.43 303.25 62.81 303.5 63.86 303.75 64.73 304
65.39 304.25 66.02 304.5 66.63 304.75 67.21 305

```

```

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .06 34.37 .03 40.79 .06

```

```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
34.37 40.79 107.68 109.19 108 0.1 0.3

```

CROSS SECTION OUTPUT Riv Sta: 26.7 Profile # Storm Event

```

*****
* E.G. Elev (m) * 303.81 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.62 * Wt. n-Val * 0.060 * 0.030 * 0.060 *
* W.S. Elev (m) * 303.19 * Reach Len. (m) * 107.68 * 109.19 * 108.00 *
* Crit W.S. (m) * 303.36 * Flow Area (m2) * 6.36 * 8.65 * 14.06 *
* E.G. Slope (m/m) * 0.011802 * Area (m2) * 6.36 * 8.65 * 14.06 *
* Q Total (m3/s) * 65.04 * Flow (m3/s) * 6.95 * 38.14 * 19.95 *
* Top Width (m) * 40.18 * Top Width (m) * 13.51 * 6.42 * 20.25 *
* Vel Total (m/s) * 2.24 * Avg. Vel. (m/s) * 1.09 * 4.41 * 1.42 *
* Max Chl Dpth (m) * 1.45 * Hydr. Depth (m) * 0.47 * 1.35 * 0.69 *
* Conv. Total (m3/s) * 598.7 * Conv. (m3/s) * 64.0 * 351.1 * 183.6 *
* Length Wtd. (m) * 108.92 * Wetted Per. (m) * 13.58 * 6.45 * 20.29 *
* Min Ch El (m) * 301.74 * Shear (N/sq m) * 54.25 * 155.40 * 80.22 *
* Alpha * 2.43 * Stream Power (N/m s) * 59.26 * 684.90 * 113.77 *
* Frctn Loss (m) * 0.77 * Cum Volume (cu m x 10^ * 0.01 * 0.03 * 0.01 *
* C & E Loss (m) * 0.26 * Cum SA (1000 m2) * 34.88 * 22.44 * 36.89 *
*****

```

CROSS SECTION OUTPUT Riv Sta: 26.7 Profile # 25 yr Storm

```

*****
* E.G. Elev (m) * 304.07 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.60 * Wt. n-Val * 0.060 * 0.030 * 0.060 *
* W.S. Elev (m) * 303.47 * Reach Len. (m) * 107.68 * 109.19 * 108.00 *
* Crit W.S. (m) * 303.57 * Flow Area (m2) * 10.55 * 10.43 * 19.91 *
* E.G. Slope (m/m) * 0.009733 * Area (m2) * 10.55 * 10.43 * 19.91 *
* Q Total (m3/s) * 90.87 * Flow (m3/s) * 12.86 * 47.31 * 30.70 *
* Top Width (m) * 44.73 * Top Width (m) * 16.45 * 6.42 * 21.86 *
* Vel Total (m/s) * 2.22 * Avg. Vel. (m/s) * 1.22 * 4.53 * 1.54 *
* Max Chl Dpth (m) * 1.73 * Hydr. Depth (m) * 0.64 * 1.63 * 0.91 *
* Conv. Total (m3/s) * 921.1 * Conv. (m3/s) * 130.3 * 479.5 * 311.2 *
* Length Wtd. (m) * 108.87 * Wetted Per. (m) * 16.53 * 6.45 * 21.93 *
* Min Ch El (m) * 301.74 * Shear (N/sq m) * 60.92 * 154.52 * 86.67 *
* Alpha * 2.37 * Stream Power (N/m s) * 74.26 * 700.58 * 133.62 *
* Frctn Loss (m) * 0.67 * Cum Volume (cu m x 10^ * 0.02 * 0.04 * 0.02 *
* C & E Loss (m) * 0.27 * Cum SA (1000 m2) * 41.80 * 22.51 * 42.43 *
*****

```

CROSS SECTION OUTPUT Riv Sta: 26.7 Profile # 100 yr Storm

```

*****
* E.G. Elev (m) * 304.34 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.58 * Wt. n-Val * 0.060 * 0.030 * 0.060 *
* W.S. Elev (m) * 303.76 * Reach Len. (m) * 107.68 * 109.19 * 108.00 *
* Crit W.S. (m) * 303.78 * Flow Area (m2) * 15.71 * 12.28 * 26.37 *
* E.G. Slope (m/m) * 0.008167 * Area (m2) * 15.71 * 12.28 * 26.37 *
* Q Total (m3/s) * 120.49 * Flow (m3/s) * 20.39 * 56.84 * 43.27 *
* Top Width (m) * 49.08 * Top Width (m) * 19.56 * 6.42 * 23.10 *
* Vel Total (m/s) * 2.22 * Avg. Vel. (m/s) * 1.30 * 4.63 * 1.64 *
* Max Chl Dpth (m) * 2.02 * Hydr. Depth (m) * 0.80 * 1.91 * 1.14 *
* Conv. Total (m3/s) * 1333.3 * Conv. (m3/s) * 225.6 * 628.9 * 478.8 *
* Length Wtd. (m) * 108.83 * Wetted Per. (m) * 19.65 * 6.45 * 23.20 *
* Min Ch El (m) * 301.74 * Shear (N/sq m) * 64.04 * 152.56 * 91.04 *
* Alpha * 2.31 * Stream Power (N/m s) * 83.09 * 706.20 * 149.34 *
* Frctn Loss (m) * 0.57 * Cum Volume (cu m x 10^ * 0.03 * 0.04 * 0.02 *
* C & E Loss (m) * 0.29 * Cum SA (1000 m2) * 50.68 * 22.57 * 54.00 *
*****

```

CROSS SECTION INPUT River Station: 27  
Description: Profile Adjustment

```

Station Elevation Data, num = 17
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0304.93171.531062304.43492.650922303.73083.314818303.56924.114634303.7033
4.995 303.874 10.4182303.983712.39935304.047815.11865302.258617.73266302.0574
21.13233302.252523.55507303.752127.97512303.2858 33.7747303.136450.48478303.2736
51.61094303.889352.01745304.2764

```

```

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .0612.39935 .03523.55507 .04

```

```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
12.3994 23.5551 37.51 39.08 39.2 0.1 0.3

```

CROSS SECTION OUTPUT Riv Sta: 27 Profile # Storm Event

```

*****
* E.G. Elev (m) * 304.84 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.48 * Wt. n-Val * * * 0.035 * 0.040 *
* W.S. Elev (m) * 303.36 * Reach Len. (m) * 37.51 * 39.08 * 39.20 *
* Crit W.S. (m) * 303.75 * Flow Area (m2) * * * 9.13 * 3.44 *
* E.G. Slope (m/m) * 0.044561 * Area (m2) * * * 9.13 * 3.44 *
* Q Total (m3/s) * 56.49 * Flow (m3/s) * * * 51.42 * 5.07 *
* Top Width (m) * 32.82 * Top Width (m) * * * 9.47 * 23.35 *
* Vel Total (m/s) * 4.49 * Avg. Vel. (m/s) * * * 5.63 * 1.47 *
* Max Chl Dpth (m) * 1.30 * Hydr. Depth (m) * * * 0.96 * 0.15 *
* Conv. Total (m3/s) * 267.6 * Conv. (m3/s) * * * 243.6 * 24.0 *
* Length Wtd. (m) * 39.01 * Wetted Per. (m) * * * 10.13 * 23.38 *
* Min Ch El (m) * 302.06 * Shear (N/sq m) * * * 394.11 * 64.37 *
* Alpha * 1.44 * Stream Power (N/m s) * * * 2218.76 * 94.74 *
* Frctn Loss (m) * 1.15 * Cum Volume (cu m x 10^ * 0.01 * 0.03 * 0.01 *
* C & E Loss (m) * 0.09 * Cum SA (1000 m2) * 35.13 * 22.75 * 37.74 *
*****

```

CROSS SECTION OUTPUT Riv Sta: 27 Profile # 25 yr Storm

```

*****
* E.G. Elev (m) * 305.01 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.49 * Wt. n-Val * * * 0.035 * 0.040 *
* W.S. Elev (m) * 303.51 * Reach Len. (m) * 37.51 * 39.08 * 39.20 *
* Crit W.S. (m) * 303.92 * Flow Area (m2) * * * 10.64 * 7.19 *
* E.G. Slope (m/m) * 0.043868 * Area (m2) * * * 10.64 * 7.19 *
* Q Total (m3/s) * 79.74 * Flow (m3/s) * * * 63.40 * 16.34 *
* Top Width (m) * 35.06 * Top Width (m) * * * 9.96 * 25.10 *
* Vel Total (m/s) * 4.47 * Avg. Vel. (m/s) * * * 5.96 * 2.27 *
* Max Chl Dpth (m) * 1.46 * Hydr. Depth (m) * * * 1.07 * 0.29 *
* Conv. Total (m3/s) * 380.7 * Conv. (m3/s) * * * 302.7 * 78.0 *
* Length Wtd. (m) * 38.99 * Wetted Per. (m) * * * 10.70 * 25.18 *
* Min Ch El (m) * 302.06 * Shear (N/sq m) * * * 427.55 * 122.93 *
* Alpha * 1.47 * Stream Power (N/m s) * * * 2548.02 * 279.27 *
* Frctn Loss (m) * 1.19 * Cum Volume (cu m x 10^ * 0.02 * 0.04 * 0.02 *
* C & E Loss (m) * 0.09 * Cum SA (1000 m2) * 42.11 * 22.83 * 43.35 *
*****

```

CROSS SECTION OUTPUT Riv Sta: 27 Profile # 100 yr Storm

```

*****
* E.G. Elev (m) * 305.17 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.52 * Wt. n-Val * * * 0.060 * 0.035 * 0.040 *
* W.S. Elev (m) * 303.65 * Reach Len. (m) * 37.51 * 39.08 * 39.20 *
* Crit W.S. (m) * 304.08 * Flow Area (m2) * * * 0.03 * 12.05 * 10.79 *
* E.G. Slope (m/m) * 0.043023 * Area (m2) * * * 0.03 * 12.05 * 10.79 *
* Q Total (m3/s) * 105.40 * Flow (m3/s) * * * 0.01 * 74.89 * 30.50 *
* Top Width (m) * 37.89 * Top Width (m) * * * 0.83 * 10.39 * 26.67 *
* Vel Total (m/s) * 4.61 * Avg. Vel. (m/s) * * * 0.41 * 6.21 * 2.83 *
* Max Chl Dpth (m) * 1.59 * Hydr. Depth (m) * * * 0.04 * 1.16 * 0.40 *
* Conv. Total (m3/s) * 508.1 * Conv. (m3/s) * * * 0.1 * 361.0 * 147.0 *
* Length Wtd. (m) * 38.98 * Wetted Per. (m) * * * 0.85 * 11.22 * 26.79 *
* Min Ch El (m) * 302.06 * Shear (N/sq m) * * * 17.07 * 453.12 * 169.89 *
* Alpha * 1.40 * Stream Power (N/m s) * * * 6.96 * 2816.07 * 480.36 *
* Frctn Loss (m) * 1.26 * Cum Volume (cu m x 10^ * 0.03 * 0.04 * 0.03 *
* C & E Loss (m) * 0.08 * Cum SA (1000 m2) * 51.06 * 22.89 * 54.98 *
*****

```

CROSS SECTION INPUT River Station: 27.5  
Description:

Station Elevation Data, num = 35

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0	305.5	2.94	305.25	18.89	305.25	34.19	305.25	37.18	305
39.4	304.75	41.31	304.5	43.67	304.25	48.01	304.25	49.88	304.5
51.06	304.75	52.05	305	53.04	305.25	53.83	305.5	54.54	305.75
55.25	306	55.96	306.25	56.61	306.5	57.18	306.75	57.75	307
58.33	307.25	58.91	307.5	59.48	307.75	60.08	308	60.66	308.25
61.25	308.5	61.84	308.75	62.41	309	62.98	309.25	63.57	309.5
64.16	309.75	64.74	310	65.34	310.25	65.76	310.5	66.21	310.75

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.06	41.31	.035	49.88	.04

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	41.31	49.88		47.46	52.13	50.58	0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 27.5 Profile # Storm Event

```

*****
* E.G. Elev (m) * 306.06 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.53 * Wt. n-Val * * * 0.060 * 0.035 * 0.040 *
* W.S. Elev (m) * 305.53 * Reach Len. (m) * 47.46 * 52.13 * 50.58 *
* Crit W.S. (m) * 305.69 * Flow Area (m2) * * * 13.68 * 10.46 * 2.25 *
* E.G. Slope (m/m) * 0.013483 * Area (m2) * * * 13.68 * 10.46 * 2.25 *
* Q Total (m3/s) * 56.49 * Flow (m3/s) * * * 12.65 * 39.52 * 4.32 *
* Top Width (m) * 53.92 * Top Width (m) * * * 41.31 * 8.57 * 4.04 *
* Vel Total (m/s) * 2.14 * Avg. Vel. (m/s) * * * 0.92 * 3.78 * 1.92 *
* Max Chl Dpth (m) * 1.28 * Hydr. Depth (m) * * * 0.33 * 1.22 * 0.56 *
* Conv. Total (m3/s) * 486.5 * Conv. (m3/s) * * * 108.9 * 340.3 * 37.2 *
* Length Wtd. (m) * 51.48 * Wetted Per. (m) * * * 41.39 * 8.60 * 4.17 *
* Min Ch El (m) * 304.25 * Shear (N/sq m) * * * 43.69 * 160.77 * 71.25 *
* Alpha * 2.28 * Stream Power (N/m s) * * * 40.41 * 607.60 * 136.97 *
* Frctn Loss (m) * 0.84 * Cum Volume (cu m x 10^ * 0.01 * 0.03 * 0.01 *
* C & E Loss (m) * 0.10 * Cum SA (1000 m2) * 36.11 * 23.22 * 38.44 *
*****

```

CROSS SECTION OUTPUT Riv Sta: 27.5 Profile # 25 yr Storm

```

*****
* E.G. Elev (m) * 306.28 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.60 * Wt. n-Val * * * 0.060 * 0.035 * 0.040 *

```

* W.S. Elev (m)	* 305.68	* Reach Len. (m)	* 47.46	* 52.13	* 50.58
* Crit W.S. (m)	* 305.84	* Flow Area (m2)	* 19.71	* 11.71	* 2.87
* E.G. Slope (m/m)	* 0.014469	* Area (m2)	* 19.71	* 11.71	* 2.87
* Q Total (m3/s)	* 79.74	* Flow (m3/s)	* 24.03	* 49.42	* 6.28
* Top Width (m)	* 54.33	* Top Width (m)	* 41.31	* 8.57	* 4.45
* Vel Total (m/s)	* 2.33	* Avg. Vel. (m/s)	* 1.22	* 4.22	* 2.19
* Max Chl Dpth (m)	* 1.43	* Hydr. Depth (m)	* 0.48	* 1.37	* 0.64
* Conv. Total (m3/s)	* 662.9	* Conv. (m3/s)	* 199.8	* 410.9	* 52.2
* Length Wtd. (m)	* 51.21	* Wetted Per. (m)	* 41.54	* 8.60	* 4.61
* Min Ch El (m)	* 304.25	* Shear (N/sq m)	* 67.32	* 193.17	* 88.25
* Alpha	* 2.19	* Stream Power (N/m s)	* 82.10	* 815.46	* 193.36
* Frctn Loss (m)	* 0.99	* Cum Volume (cu m x 10^4)	* 0.02	* 0.04	* 0.02
* C & E Loss (m)	* 0.19	* Cum SA (1000 m2)	* 43.09	* 23.31	* 44.10

CROSS SECTION OUTPUT Riv Sta: 27.5 Profile # 100 yr Storm

* E.G. Elev (m)	* 306.50	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.70	* Wt. n-Val	* 0.060	* 0.035	* 0.040
* W.S. Elev (m)	* 305.80	* Reach Len. (m)	* 47.46	* 52.13	* 50.58
* Crit W.S. (m)	* 306.00	* Flow Area (m2)	* 24.83	* 12.77	* 3.44
* E.G. Slope (m/m)	* 0.015916	* Area (m2)	* 24.83	* 12.77	* 3.44
* Q Total (m3/s)	* 105.40	* Flow (m3/s)	* 36.99	* 59.92	* 8.49
* Top Width (m)	* 54.69	* Top Width (m)	* 41.31	* 8.57	* 4.81
* Vel Total (m/s)	* 2.57	* Avg. Vel. (m/s)	* 1.49	* 4.69	* 2.46
* Max Chl Dpth (m)	* 1.55	* Hydr. Depth (m)	* 0.60	* 1.49	* 0.72
* Conv. Total (m3/s)	* 835.5	* Conv. (m3/s)	* 293.2	* 475.0	* 67.3
* Length Wtd. (m)	* 51.02	* Wetted Per. (m)	* 41.66	* 8.60	* 4.99
* Min Ch El (m)	* 304.25	* Shear (N/sq m)	* 93.05	* 231.80	* 107.80
* Alpha	* 2.09	* Stream Power (N/m s)	* 138.58	* 1087.60	* 265.64
* Frctn Loss (m)	* 1.16	* Cum Volume (cu m x 10^4)	* 0.03	* 0.04	* 0.03
* C & E Loss (m)	* 0.28	* Cum SA (1000 m2)	* 52.06	* 23.39	* 55.77

CROSS SECTION INPUT River Station: 28  
Description:

Station Elevation Data, num = 23

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0308.5192	2.51655	306.919	4.89451	306.49537	0.20726	307.12627	8.12591	307.108	
10.97551	307.11114	52165307.071420	0.65873	306.940323	4.43813	306.635524	4.18283	305.9101	
24.77181	305.0323	25.43753	304.843327	0.47883	304.879928	4.01433	304.690929	9.39573	304.9164
31.65602	305.007932	29715305.961943	0.87433	305.669348	2.74783	305.836952	9.2728	305.843	
55.56393	306.507558	6.68573	306.973860	6.86693	307.5987				

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.0423	44381	.03532	29715	.04

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
23.4438	32.2971	42.27	46.58	46.73		0.1	0.3

CROSS SECTION OUTPUT Riv Sta: 28 Profile # Storm Event

* E.G. Elev (m)	* 307.01	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.88	* Wt. n-Val	* 0.035	* 0.040	* 0.040
* W.S. Elev (m)	* 306.13	* Reach Len. (m)	* 42.27	* 46.58	* 46.73
* Crit W.S. (m)	* 306.40	* Flow Area (m2)	* 9.39	* 6.90	* 6.90
* E.G. Slope (m/m)	* 0.026319	* Area (m2)	* 9.39	* 6.90	* 6.90
* Q Total (m3/s)	* 56.49	* Flow (m3/s)	* 43.50	* 12.99	* 12.99
* Top Width (m)	* 29.95	* Top Width (m)	* 8.18	* 21.78	* 21.78
* Vel Total (m/s)	* 3.47	* Avg. Vel. (m/s)	* 4.63	* 1.88	* 1.88
* Max Chl Dpth (m)	* 1.44	* Hydr. Depth (m)	* 1.15	* 0.32	* 0.32
* Conv. Total (m3/s)	* 348.2	* Conv. (m3/s)	* 268.1	* 80.1	* 80.1
* Length Wtd. (m)	* 46.12	* Wetted Per. (m)	* 9.41	* 21.82	* 21.82
* Min Ch El (m)	* 304.69	* Shear (N/sq m)	* 257.69	* 81.63	* 81.63
* Alpha	* 1.44	* Stream Power (N/m s)	* 1193.16	* 153.67	* 153.67
* Frctn Loss (m)	* 0.70	* Cum Volume (cu m x 10^4)	* 0.01	* 0.03	* 0.01
* C & E Loss (m)	* 0.01	* Cum SA (1000 m2)	* 36.99	* 23.61	* 39.04

CROSS SECTION OUTPUT Riv Sta: 28 Profile # 25 yr Storm

* E.G. Elev (m)	* 307.47	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.25	* Wt. n-Val	* 0.035	* 0.040	* 0.040
* W.S. Elev (m)	* 306.22	* Reach Len. (m)	* 42.27	* 46.58	* 46.73
* Crit W.S. (m)	* 306.58	* Flow Area (m2)	* 10.13	* 8.87	* 8.87
* E.G. Slope (m/m)	* 0.035837	* Area (m2)	* 10.13	* 8.87	* 8.87
* Q Total (m3/s)	* 79.74	* Flow (m3/s)	* 56.97	* 22.77	* 22.77
* Top Width (m)	* 30.43	* Top Width (m)	* 8.30	* 22.13	* 22.13
* Vel Total (m/s)	* 4.20	* Avg. Vel. (m/s)	* 5.62	* 2.57	* 2.57
* Max Chl Dpth (m)	* 1.53	* Hydr. Depth (m)	* 1.22	* 0.40	* 0.40
* Conv. Total (m3/s)	* 421.2	* Conv. (m3/s)	* 301.0	* 120.3	* 120.3
* Length Wtd. (m)	* 45.96	* Wetted Per. (m)	* 9.56	* 22.19	* 22.19
* Min Ch El (m)	* 304.69	* Shear (N/sq m)	* 372.50	* 140.46	* 140.46
* Alpha	* 1.39	* Stream Power (N/m s)	* 2094.41	* 360.68	* 360.68
* Frctn Loss (m)	* 0.74	* Cum Volume (cu m x 10^4)	* 0.02	* 0.04	* 0.02
* C & E Loss (m)	* 0.02	* Cum SA (1000 m2)	* 43.96	* 23.70	* 44.72

CROSS SECTION OUTPUT Riv Sta: 28 Profile # 100 yr Storm

* E.G. Elev (m)	* 307.95	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.65	* Wt. n-Val	* 0.035	* 0.040	* 0.040
* W.S. Elev (m)	* 306.30	* Reach Len. (m)	* 42.27	* 46.58	* 46.73
* Crit W.S. (m)	* 306.77	* Flow Area (m2)	* 10.80	* 10.65	* 10.65
* E.G. Slope (m/m)	* 0.045634	* Area (m2)	* 10.80	* 10.65	* 10.65
* Q Total (m3/s)	* 105.40	* Flow (m3/s)	* 70.86	* 34.54	* 34.54
* Top Width (m)	* 30.85	* Top Width (m)	* 8.40	* 22.45	* 22.45
* Vel Total (m/s)	* 4.91	* Avg. Vel. (m/s)	* 6.56	* 3.24	* 3.24
* Max Chl Dpth (m)	* 1.61	* Hydr. Depth (m)	* 1.29	* 0.47	* 0.47

```

* Conv. Total (m3/s) * 493.4 * Conv. (m3/s) * * 331.7 * 161.7 *
* Length Wtd. (m) * 45.86 * Wetted Per. (m) * * 9.69 * 22.51 *
* Min Ch El (m) * 304.69 * Shear (N/sq m) * * 498.65 * 211.75 *
* Alpha * 1.34 * Stream Power (N/m s) * * 3271.06 * 686.67 *
* Frctn Loss (m) * 0.69 * Cum Volume (cu m x 10^ * 0.03 * 0.04 * 0.03 *
* C & E Loss (m) * 0.06 * Cum SA (1000 m2) * * 52.93 * 23.78 * 56.41 *
*****

```

CROSS SECTION INPUT River Station: 29  
Description:

```

Station Elevation Data, num = 23
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0306.68122.636871306.7971 11.9721307.248230.17198307.6993 31.4658307.7602
32.03133307.9248 34.2202307.961434.30959306.976934.39288305.337135.68743305.2304
38.5831305.257839.40747305.428542.01544305.794344.51734306.150945.91828306.9647
45.98868308.196146.61024 308.19346.67554308.043753.73831308.052855.95253308.0376
60.54606308.074265.52356308.089466.19013308.1047

```

```

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .04 34.2202 .03545.98868 .04

```

```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
34.2202 45.9887 16.55 28.28 43.95 0.1 0.3

```

```

Left Levee Station= 34.2202 Elevation=
Right Levee Station= 45.9887 Elevation=

```

```

CROSS SECTION OUTPUT Riv Sta: 29 Profile # Storm Event
*****
* E.G. Elev (m) * 307.72 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.90 * Wt. n-Val * * 0.035 * *
* W.S. Elev (m) * 306.81 * Reach Len. (m) * 16.55 * 28.28 * 43.95 *
* Crit W.S. (m) * 307.00 * Flow Area (m2) * * 13.41 * *
* E.G. Slope (m/m) * 0.020852 * Area (m2) * * 13.41 * *
* Q Total (m3/s) * 56.49 * Flow (m3/s) * * 56.49 * *
* Top Width (m) * 11.34 * Top Width (m) * * 11.34 * *
* Vel Total (m/s) * 4.21 * Avg. Vel. (m/s) * * 4.21 * *
* Max Chl Dpth (m) * 1.58 * Hydr. Depth (m) * * 1.18 * *
* Conv. Total (m3/s) * 391.2 * Conv. (m3/s) * * 391.2 * *
* Length Wtd. (m) * 30.09 * Wetted Per. (m) * * 12.99 * *
* Min Ch El (m) * 305.23 * Shear (N/sq m) * * 211.01 * *
* Alpha * 1.00 * Stream Power (N/m s) * * 888.99 * *
* Frctn Loss (m) * 0.40 * Cum Volume (cu m x 10^ * 0.01 * 0.03 * 0.01 *
* C & E Loss (m) * 0.21 * Cum SA (1000 m2) * 36.99 * 23.89 * 39.52 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 29 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 308.21 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.02 * Wt. n-Val * * 0.035 * *
* W.S. Elev (m) * 307.20 * Reach Len. (m) * 16.55 * 28.28 * 43.95 *
* Crit W.S. (m) * 307.35 * Flow Area (m2) * * 17.85 * *
* E.G. Slope (m/m) * 0.017530 * Area (m2) * * 17.85 * *
* Q Total (m3/s) * 79.74 * Flow (m3/s) * * 79.74 * *
* Top Width (m) * 11.64 * Top Width (m) * * 11.64 * *
* Vel Total (m/s) * 4.47 * Avg. Vel. (m/s) * * 4.47 * *
* Max Chl Dpth (m) * 1.97 * Hydr. Depth (m) * * 1.53 * *
* Conv. Total (m3/s) * 602.3 * Conv. (m3/s) * * 602.3 * *
* Length Wtd. (m) * 30.53 * Wetted Per. (m) * * 13.91 * *
* Min Ch El (m) * 305.23 * Shear (N/sq m) * * 220.57 * *
* Alpha * 1.00 * Stream Power (N/m s) * * 985.21 * *
* Frctn Loss (m) * 0.31 * Cum Volume (cu m x 10^ * 0.02 * 0.04 * 0.02 *
* C & E Loss (m) * 0.18 * Cum SA (1000 m2) * 43.96 * 23.99 * 45.21 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 29 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 308.71 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.01 * Wt. n-Val * * 0.035 * *
* W.S. Elev (m) * 307.70 * Reach Len. (m) * 16.55 * 28.28 * 43.95 *
* Crit W.S. (m) * 307.70 * Flow Area (m2) * * 23.68 * *
* E.G. Slope (m/m) * 0.013094 * Area (m2) * * 23.68 * *
* Q Total (m3/s) * 105.40 * Flow (m3/s) * * 105.40 * *
* Top Width (m) * 11.72 * Top Width (m) * * 11.72 * *
* Vel Total (m/s) * 4.45 * Avg. Vel. (m/s) * * 4.45 * *
* Max Chl Dpth (m) * 2.47 * Hydr. Depth (m) * * 2.02 * *
* Conv. Total (m3/s) * 921.1 * Conv. (m3/s) * * 921.1 * *
* Length Wtd. (m) * 30.85 * Wetted Per. (m) * * 14.92 * *
* Min Ch El (m) * 305.23 * Shear (N/sq m) * * 203.90 * *
* Alpha * 1.00 * Stream Power (N/m s) * * 907.35 * *
* Frctn Loss (m) * 0.37 * Cum Volume (cu m x 10^ * 0.03 * 0.04 * 0.03 *
* C & E Loss (m) * 0.15 * Cum SA (1000 m2) * 52.93 * 24.07 * 56.90 *
*****

```

CROSS SECTION INPUT River Station: 30  
Description:

```

Station Elevation Data, num = 25
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0307.4768 5.23369307.07149.437994307.513314.71857307.815123.64909308.1382
28.15532308.171728.63429308.1656 28.6505307.272528.69039 305.97129.75157306.1966
33.32034305.7668 35.6916305.538238.33284305.8339 39.8274305.797339.84547305.9589
40.06293307.162840.13296308.132142.87645308.144342.99168308.092553.12713308.1717
62.58757308.281472.70273308.360774.61333308.3576 74.7064 308.56875.09352 308.574

```

```

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .0428.63429 .03540.13296 .04

```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 28.6343 40.133 10.35 12.72 13.97 0.1 0.3

Left Levee Station= 28.6343 Elevation=  
 Right Levee Station= 40.133 Elevation=

CROSS SECTION OUTPUT Riv Sta: 30 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 308.33 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.60 \* Wt. n-Val \* \* 0.035 \* \*  
 \* W.S. Elev (m) \* 306.73 \* Reach Len. (m) \* 10.35 \* 12.72 \* 13.97 \*  
 \* Crit W.S. (m) \* 307.20 \* Flow Area (m2) \* \* 10.08 \* \*  
 \* E.G. Slope (m/m) \* 0.053508 \* Area (m2) \* \* 10.08 \* \*  
 \* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* \* 56.49 \* \*  
 \* Top Width (m) \* 11.32 \* Top Width (m) \* \* 11.32 \* \*  
 \* Vel Total (m/s) \* 5.60 \* Avg. Vel. (m/s) \* \* 5.60 \* \*  
 \* Max Chl Dpth (m) \* 1.19 \* Hydr. Depth (m) \* \* 0.89 \* \*  
 \* Conv. Total (m3/s) \* 244.2 \* Conv. (m3/s) \* \* 244.2 \* \*  
 \* Length Wtd. (m) \* 12.72 \* Wetted Per. (m) \* \* 12.91 \* \*  
 \* Min Ch El (m) \* 305.54 \* Shear (N/sq m) \* \* 409.65 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* 2295.40 \* \*  
 \* Frctn Loss (m) \* 0.50 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.03 \* 0.01 \*  
 \* C & E Loss (m) \* 0.06 \* Cum SA (1000 m2) \* 36.99 \* 24.03 \* 39.52 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 30 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 308.71 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.62 \* Wt. n-Val \* \* 0.035 \* \*  
 \* W.S. Elev (m) \* 307.08 \* Reach Len. (m) \* 10.35 \* 12.72 \* 13.97 \*  
 \* Crit W.S. (m) \* 307.55 \* Flow Area (m2) \* \* 14.12 \* \*  
 \* E.G. Slope (m/m) \* 0.037232 \* Area (m2) \* \* 14.12 \* \*  
 \* Q Total (m3/s) \* 79.74 \* Flow (m3/s) \* \* 79.74 \* \*  
 \* Top Width (m) \* 11.39 \* Top Width (m) \* \* 11.39 \* \*  
 \* Vel Total (m/s) \* 5.65 \* Avg. Vel. (m/s) \* \* 5.65 \* \*  
 \* Max Chl Dpth (m) \* 1.55 \* Hydr. Depth (m) \* \* 1.24 \* \*  
 \* Conv. Total (m3/s) \* 413.3 \* Conv. (m3/s) \* \* 413.3 \* \*  
 \* Length Wtd. (m) \* 12.72 \* Wetted Per. (m) \* \* 13.63 \* \*  
 \* Min Ch El (m) \* 305.54 \* Shear (N/sq m) \* \* 378.33 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* 2135.76 \* \*  
 \* Frctn Loss (m) \* 0.38 \* Cum Volume (cu m x 10^ \* 0.02 \* 0.04 \* 0.02 \*  
 \* C & E Loss (m) \* 0.07 \* Cum SA (1000 m2) \* 43.96 \* 24.13 \* 45.21 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 30 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 308.84 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.15 \* Wt. n-Val \* \* 0.040 \* \*  
 \* W.S. Elev (m) \* 308.69 \* Reach Len. (m) \* 10.35 \* 12.72 \* 13.97 \*  
 \* Crit W.S. (m) \* 307.91 \* Flow Area (m2) \* \* 32.59 \* \*  
 \* E.G. Slope (m/m) \* 0.001902 \* Area (m2) \* \* 32.59 \* \*  
 \* Q Total (m3/s) \* 105.40 \* Flow (m3/s) \* \* 105.2 \* \*  
 \* Top Width (m) \* 75.09 \* Top Width (m) \* \* 75.09 \* \*  
 \* Vel Total (m/s) \* 1.38 \* Avg. Vel. (m/s) \* \* 1.04 \* \*  
 \* Max Chl Dpth (m) \* 3.16 \* Hydr. Depth (m) \* \* 2.83 \* \*  
 \* Conv. Total (m3/s) \* 2416.6 \* Conv. (m3/s) \* \* 2411.4 \* \*  
 \* Length Wtd. (m) \* 12.46 \* Wetted Per. (m) \* \* 15.77 \* \*  
 \* Min Ch El (m) \* 305.54 \* Shear (N/sq m) \* \* 38.57 \* \*  
 \* Alpha \* 1.53 \* Stream Power (N/m s) \* \* 77.99 \* \*  
 \* Frctn Loss (m) \* 0.05 \* Cum Volume (cu m x 10^ \* 0.03 \* 0.04 \* 0.03 \*  
 \* C & E Loss (m) \* 0.09 \* Cum SA (1000 m2) \* 53.08 \* 24.22 \* 57.15 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 31  
 Description:

Station Elevation Data, num = 24  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0309.85733.372797308.79664.539859308.30284.691267306.57765.888784306.4252  
 8.176256306.175311.03831306.342911.74249306.434313.88826308.141215.02633308.1534  
 16.50266308.196117.07212308.162620.96559308.232724.34851308.214425.00712308.1961  
 25.06371308.394225.21597308.397325.87701308.287527.95379307.799931.52539307.7938  
 34.57212307.784641.33816307.970546.66349308.287548.36443308.7143

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .044.539859 .03513.88826 .04

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 4.53986 13.8883 30.23 16.6 4.85 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 31 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 308.89 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.97 \* Wt. n-Val \* \* 0.035 \* \*  
 \* W.S. Elev (m) \* 307.92 \* Reach Len. (m) \* 30.23 \* 16.60 \* 4.85 \*  
 \* Crit W.S. (m) \* 308.33 \* Flow Area (m2) \* \* 12.66 \* \*  
 \* E.G. Slope (m/m) \* 0.019139 \* Area (m2) \* \* 12.66 \* \*  
 \* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* \* 55.65 \* \*  
 \* Top Width (m) \* 20.93 \* Top Width (m) \* \* 9.03 \* \*  
 \* Vel Total (m/s) \* 4.09 \* Avg. Vel. (m/s) \* \* 4.39 \* \*  
 \* Max Chl Dpth (m) \* 1.74 \* Hydr. Depth (m) \* \* 1.40 \* \*  
 \* Conv. Total (m3/s) \* 408.3 \* Conv. (m3/s) \* \* 402.2 \* \*  
 \* Length Wtd. (m) \* 16.51 \* Wetted Per. (m) \* \* 10.81 \* \*  
 \* Min Ch El (m) \* 306.18 \* Shear (N/sq m) \* \* 219.94 \* \*  
 \* Alpha \* 1.14 \* Stream Power (N/m s) \* \* 966.30 \* \*  
 \* Frctn Loss (m) \* 2.95 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.03 \* 0.01 \*  
 \* C & E Loss (m) \* 0.03 \* Cum SA (1000 m2) \* 36.99 \* 24.20 \* 39.55 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 31 Profile # 25 yr Storm

* E.G. Elev (m)	* 309.16	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.93	* Wt. n-Val	*	* 0.035	* 0.040
* W.S. Elev (m)	* 308.23	* Reach Len. (m)	* 30.23	* 16.60	* 4.85
* Crit W.S. (m)	* 308.56	* Flow Area (m2)	*	* 15.53	* 6.50
* E.G. Slope (m/m)	* 0.016805	* Area (m2)	*	* 15.53	* 6.50
* Q Total (m3/s)	* 79.74	* Flow (m3/s)	*	* 70.35	* 9.39
* Top Width (m)	* 38.48	* Top Width (m)	*	* 9.34	* 29.14
* Vel Total (m/s)	* 3.62	* Avg. Vel. (m/s)	*	* 4.53	* 1.44
* Max Chl Dpth (m)	* 2.05	* Hydr. Depth (m)	*	* 1.66	* 0.22
* Conv. Total (m3/s)	* 615.1	* Conv. (m3/s)	*	* 542.7	* 72.4
* Length Wtd. (m)	* 15.91	* Wetted Per. (m)	*	* 11.48	* 29.23
* Min Ch El (m)	* 306.18	* Shear (N/sq m)	*	* 222.92	* 36.65
* Alpha	* 1.40	* Stream Power (N/m s)	*	* 1009.81	* 52.93
* Frctn Loss (m)	* 2.81	* Cum Volume (cu m x 10^4)	* 0.02	* 0.04	* 0.02
* C & E Loss (m)	* 0.02	* Cum SA (1000 m2)	* 43.96	* 24.31	* 45.28

CROSS SECTION OUTPUT Riv Sta: 31 Profile # 100 yr Storm

* E.G. Elev (m)	* 309.35	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.91	* Wt. n-Val	* 0.040	* 0.035	* 0.040
* W.S. Elev (m)	* 308.45	* Reach Len. (m)	* 30.23	* 16.60	* 4.85
* Crit W.S. (m)	* 308.73	* Flow Area (m2)	* 0.02	* 17.58	* 13.59
* E.G. Slope (m/m)	* 0.015372	* Area (m2)	* 0.02	* 17.58	* 13.59
* Q Total (m3/s)	* 105.40	* Flow (m3/s)	* 0.01	* 82.37	* 23.02
* Top Width (m)	* 43.09	* Top Width (m)	* 0.34	* 9.35	* 33.41
* Vel Total (m/s)	* 3.38	* Avg. Vel. (m/s)	* 0.51	* 4.69	* 1.69
* Max Chl Dpth (m)	* 2.27	* Hydr. Depth (m)	* 0.07	* 1.88	* 0.41
* Conv. Total (m3/s)	* 850.1	* Conv. (m3/s)	* 0.1	* 664.4	* 185.6
* Length Wtd. (m)	* 15.88	* Wetted Per. (m)	* 0.37	* 11.56	* 33.66
* Min Ch El (m)	* 306.18	* Shear (N/sq m)	* 9.94	* 229.29	* 60.88
* Alpha	* 1.56	* Stream Power (N/m s)	* 5.03	* 1074.27	* 103.09
* Frctn Loss (m)	* 2.82	* Cum Volume (cu m x 10^4)	* 0.03	* 0.04	* 0.03
* C & E Loss (m)	* 0.01	* Cum SA (1000 m2)	* 53.52	* 24.39	* 57.31

CROSS SECTION INPUT River Station: 32  
Description:

Station Elevation Data, num = 15

Sta. Elev.	Sta. Elev.	Sta. Elev.	Sta. Elev.	Sta. Elev.
0312.5669	6051147311.56111	203563309.91213	224137309.6165	5.20378309.6713
7.086471311	20758.364241311	384313.01857310	927116.87589310	933222.59133310.9027
25.19349310	908830.23181310	820431.96195310	817459.36155310	826570.47728312.0091

Mannings n Values, num = 3

Sta. Value	Sta. Value	Sta. Value
0	.05.6051147	.037.086471
		.04

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
0.605115 7.08647 154.14 151.58 142.97 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 32 Profile # Storm Event

* E.G. Elev (m)	* 311.86	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.71	* Wt. n-Val	*	* 0.030	* 0.040
* W.S. Elev (m)	* 311.15	* Reach Len. (m)	* 154.14	* 151.58	* 142.97
* Crit W.S. (m)	* 311.35	* Flow Area (m2)	*	* 7.40	* 14.55
* E.G. Slope (m/m)	* 0.020249	* Area (m2)	*	* 7.40	* 14.55
* Q Total (m3/s)	* 56.49	* Flow (m3/s)	*	* 34.24	* 22.25
* Top Width (m)	* 57.91	* Top Width (m)	*	* 6.26	* 51.65
* Vel Total (m/s)	* 2.57	* Avg. Vel. (m/s)	*	* 4.63	* 1.53
* Max Chl Dpth (m)	* 1.53	* Hydr. Depth (m)	*	* 1.18	* 0.28
* Conv. Total (m3/s)	* 397.0	* Conv. (m3/s)	*	* 240.6	* 156.3
* Length Wtd. (m)	* 149.82	* Wetted Per. (m)	*	* 7.68	* 51.68
* Min Ch El (m)	* 309.62	* Shear (N/sq m)	*	* 191.37	* 55.92
* Alpha	* 2.10	* Stream Power (N/m s)	*	* 885.59	* 85.48
* Frctn Loss (m)	* 4.06	* Cum Volume (cu m x 10^4)	* 0.01	* 0.04	* 0.01
* C & E Loss (m)	* 0.29	* Cum SA (1000 m2)	* 36.99	* 25.36	* 44.09

CROSS SECTION OUTPUT Riv Sta: 32 Profile # 25 yr Storm

* E.G. Elev (m)	* 311.99	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.73	* Wt. n-Val	*	* 0.030	* 0.040
* W.S. Elev (m)	* 311.26	* Reach Len. (m)	* 154.14	* 151.58	* 142.97
* Crit W.S. (m)	* 311.48	* Flow Area (m2)	*	* 8.12	* 20.56
* E.G. Slope (m/m)	* 0.021337	* Area (m2)	*	* 8.12	* 20.56
* Q Total (m3/s)	* 79.74	* Flow (m3/s)	*	* 40.29	* 39.45
* Top Width (m)	* 60.66	* Top Width (m)	*	* 6.37	* 54.28
* Vel Total (m/s)	* 2.78	* Avg. Vel. (m/s)	*	* 4.96	* 1.92
* Max Chl Dpth (m)	* 1.65	* Hydr. Depth (m)	*	* 1.27	* 0.38
* Conv. Total (m3/s)	* 545.9	* Conv. (m3/s)	*	* 275.8	* 270.0
* Length Wtd. (m)	* 148.94	* Wetted Per. (m)	*	* 7.89	* 54.33
* Min Ch El (m)	* 309.62	* Shear (N/sq m)	*	* 215.32	* 79.19
* Alpha	* 1.85	* Stream Power (N/m s)	*	* 1068.62	* 151.94
* Frctn Loss (m)	* 4.08	* Cum Volume (cu m x 10^4)	* 0.02	* 0.04	* 0.02
* C & E Loss (m)	* 0.27	* Cum SA (1000 m2)	* 43.96	* 25.50	* 51.24

CROSS SECTION OUTPUT Riv Sta: 32 Profile # 100 yr Storm

* E.G. Elev (m)	* 312.18	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.83	* Wt. n-Val	*	* 0.030	* 0.040
* W.S. Elev (m)	* 311.35	* Reach Len. (m)	* 154.14	* 151.58	* 142.97
* Crit W.S. (m)	* 311.59	* Flow Area (m2)	*	* 8.67	* 25.33
* E.G. Slope (m/m)	* 0.024106	* Area (m2)	*	* 8.67	* 25.33
* Q Total (m3/s)	* 105.40	* Flow (m3/s)	*	* 47.41	* 57.99
* Top Width (m)	* 63.00	* Top Width (m)	*	* 6.40	* 56.59



* Vel Total (m/s)	*	3.10	* Avg. Vel. (m/s)	*	5.47	*	2.29	*
* Max Chl Dpth (m)	*	1.73	* Hydr. Depth (m)	*	1.35	*	0.45	*
* Conv. Total (m3/s)	*	678.9	* Conv. (m3/s)	*	305.4	*	373.5	*
* Length Wtd. (m)	*	148.27	* Wetted Per. (m)	*	7.98	*	56.65	*
* Min Ch El (m)	*	309.62	* Shear (N/sq m)	*	256.77	*	105.72	*
* Alpha	*	1.70	* Stream Power (N/m s)	*	1404.14	*	242.00	*
* Frctn Loss (m)	*	4.10	* Cum Volume (cu m x 10 <sup>4</sup> )	*	0.03	*	0.03	*
* C & E Loss (m)	*	0.22	* Cum SA (1000 m2)	*	53.54	*	25.58	*

CROSS SECTION INPUT River Station: 33  
Description:

Station Elevation Data, num = 30

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0316.8585	.89126	315.9351	1.22189315	01751.582343314	5908	1.67647	314.03		
1.921249	313.782	2.221274313	7.4042	2.73056313	2.284	2.27641313	1.6133	3.57867313	1.339
5.437827313	0.5466	0.04834313	0.06686	0.039902313	1.9796	2.42552313	8.2586	5.85083313	9.782
9.569937314	0.54413	8.3411314	1.73213	8.7396314	2.61615	5.1936314	2.76915	5.5814314	2.129
19.86146314	2.49426	0.5921314	3.77426	0.8416314	4.96326	8.5874314	4.96328	1.7996314	7.889
28.69821314	7.55431	0.6824314	8.31633	5.7872314	8.25534	8.0977314	8.46840	1.9389314	8.042

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.051582343	.036585083	.04		

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1.58234	6.58508	140.51	145.82	146.56	0.1	0.3

CROSS SECTION OUTPUT Riv Sta: 33 Profile # Storm Event

* E.G. Elev (m)	*	316.19	* Element	*	Left OB	* Channel	* Right OB	*
* Vel Head (m)	*	1.66	* Wt. n-Val	*	0.030	*	0.040	*
* W.S. Elev (m)	*	314.54	* Reach Len. (m)	*	140.51	* 145.82	* 146.56	*
* Crit W.S. (m)	*	315.04	* Flow Area (m2)	*	6.28	*	6.54	*
* E.G. Slope (m/m)	*	0.041440	* Area (m2)	*	6.28	*	6.54	*
* Q Total (m3/s)	*	56.49	* Flow (m3/s)	*	41.01	*	15.48	*
* Top Width (m)	*	25.45	* Top Width (m)	*	4.99	*	20.45	*
* Vel Total (m/s)	*	4.41	* Avg. Vel. (m/s)	*	6.53	*	2.37	*
* Max Chl Dpth (m)	*	1.48	* Hydr. Depth (m)	*	1.26	*	0.32	*
* Conv. Total (m3/s)	*	277.5	* Conv. (m3/s)	*	201.5	*	76.0	*
* Length Wtd. (m)	*	146.07	* Wetted Per. (m)	*	6.65	*	20.65	*
* Min Ch El (m)	*	313.05	* Shear (N/sq m)	*	383.81	*	128.78	*
* Alpha	*	1.67	* Stream Power (N/m s)	*	2506.96	*	304.62	*
* Frctn Loss (m)	*	4.53	* Cum Volume (cu m x 10 <sup>4</sup> )	*	0.01	*	0.04	*
* C & E Loss (m)	*	0.01	* Cum SA (1000 m2)	*	36.99	*	26.18	*

CROSS SECTION OUTPUT Riv Sta: 33 Profile # 25 yr Storm

* E.G. Elev (m)	*	316.34	* Element	*	Left OB	* Channel	* Right OB	*
* Vel Head (m)	*	1.62	* Wt. n-Val	*	0.050	* 0.030	* 0.040	*
* W.S. Elev (m)	*	314.72	* Reach Len. (m)	*	140.51	* 145.82	* 146.56	*
* Crit W.S. (m)	*	315.21	* Flow Area (m2)	*	0.01	* 7.18	* 10.33	*
* E.G. Slope (m/m)	*	0.037962	* Area (m2)	*	0.01	* 7.18	* 10.33	*
* Q Total (m3/s)	*	79.74	* Flow (m3/s)	*	0.00	* 48.88	* 30.86	*
* Top Width (m)	*	26.41	* Top Width (m)	*	0.14	* 5.00	* 21.27	*
* Vel Total (m/s)	*	4.55	* Avg. Vel. (m/s)	*	0.50	* 6.80	* 2.99	*
* Max Chl Dpth (m)	*	1.66	* Hydr. Depth (m)	*	0.06	* 1.44	* 0.49	*
* Conv. Total (m3/s)	*	409.3	* Conv. (m3/s)	*	0.0	* 250.9	* 158.4	*
* Length Wtd. (m)	*	146.15	* Wetted Per. (m)	*	0.19	* 6.70	* 21.49	*
* Min Ch El (m)	*	313.05	* Shear (N/sq m)	*	17.28	* 399.05	* 178.90	*
* Alpha	*	1.54	* Stream Power (N/m s)	*	8.69	* 2714.39	* 534.61	*
* Frctn Loss (m)	*	4.65	* Cum Volume (cu m x 10 <sup>4</sup> )	*	0.02	* 0.04	* 0.02	*
* C & E Loss (m)	*	0.02	* Cum SA (1000 m2)	*	43.97	* 26.33	* 56.78	*

CROSS SECTION OUTPUT Riv Sta: 33 Profile # 100 yr Storm

* E.G. Elev (m)	*	316.50	* Element	*	Left OB	* Channel	* Right OB	*
* Vel Head (m)	*	1.55	* Wt. n-Val	*	0.050	* 0.030	* 0.040	*
* W.S. Elev (m)	*	314.94	* Reach Len. (m)	*	140.51	* 145.82	* 146.56	*
* Crit W.S. (m)	*	315.36	* Flow Area (m2)	*	0.07	* 8.32	* 16.70	*
* E.G. Slope (m/m)	*	0.032966	* Area (m2)	*	0.07	* 8.32	* 16.70	*
* Q Total (m3/s)	*	105.40	* Flow (m3/s)	*	0.06	* 58.12	* 47.22	*
* Top Width (m)	*	38.99	* Top Width (m)	*	0.38	* 5.00	* 33.61	*
* Vel Total (m/s)	*	4.20	* Avg. Vel. (m/s)	*	0.93	* 6.99	* 2.83	*
* Max Chl Dpth (m)	*	1.89	* Hydr. Depth (m)	*	0.18	* 1.66	* 0.50	*
* Conv. Total (m3/s)	*	580.5	* Conv. (m3/s)	*	0.3	* 320.1	* 260.1	*
* Length Wtd. (m)	*	146.19	* Wetted Per. (m)	*	0.52	* 6.70	* 33.98	*
* Min Ch El (m)	*	313.05	* Shear (N/sq m)	*	41.82	* 401.10	* 158.91	*
* Alpha	*	1.73	* Stream Power (N/m s)	*	38.83	* 2802.87	* 449.28	*
* Frctn Loss (m)	*	4.78	* Cum Volume (cu m x 10 <sup>4</sup> )	*	0.03	* 0.05	* 0.03	*
* C & E Loss (m)	*	0.13	* Cum SA (1000 m2)	*	53.57	* 26.41	* 70.36	*

CROSS SECTION INPUT River Station: 34  
Description:

Station Elevation Data, num = 19

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0320.40031	1.02271319	4.981	1.79079319	1.5675	0.20684	318.6665	8.89434317	3.584	
6.886228	317.277	9.22722317	1.10859	3.36358317	3.00510	7.4223319	1.93319	0.0277318	9.434
27.62933319	1.23232	7.5793319	3.427	34.9823319	3.97540	3.4457319	4.61541	3.2357319	4.249
43.10123319	2.17753	9.1716319	0.34862	8.3531319	1.87268	5.7543	319.556		

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.055.020684	.0310.74223	.04		

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 5.02068 10.7422 148.76 152.15 152.74 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 34 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 320.73 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.54 \* Wt. n-Val \* 0.050 \* 0.030 \* 0.040 \*  
 \* W.S. Elev (m) \* 319.19 \* Reach Len. (m) \* 148.76 \* 152.15 \* 152.74 \*  
 \* Crit W.S. (m) \* 319.62 \* Flow Area (m2) \* 0.90 \* 9.10 \* 3.82 \*  
 \* E.G. Slope (m/m) \* 0.022381 \* Area (m2) \* 0.90 \* 9.10 \* 3.82 \*  
 \* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* 1.12 \* 52.08 \* 3.29 \*  
 \* Top Width (m) \* 45.48 \* Top Width (m) \* 3.30 \* 5.72 \* 36.46 \*  
 \* Vel Total (m/s) \* 4.09 \* Avg. Vel. (m/s) \* 1.25 \* 5.72 \* 0.86 \*  
 \* Max Chl Dpth (m) \* 2.08 \* Hydr. Depth (m) \* 0.27 \* 1.59 \* 0.10 \*  
 \* Conv. Total (m3/s) \* 377.6 \* Conv. (m3/s) \* 7.5 \* 348.1 \* 22.0 \*  
 \* Length Wtd. (m) \* 152.21 \* Wetted Per. (m) \* 3.34 \* 7.40 \* 36.47 \*  
 \* Min Ch El (m) \* 317.11 \* Shear (N/sq m) \* 59.16 \* 269.88 \* 22.99 \*  
 \* Alpha \* 1.81 \* Stream Power (N/m s) \* 73.85 \* 1544.64 \* 19.80 \*  
 \* Frctn Loss (m) \* 2.77 \* Cum Volume (cu m x 10^4) \* 0.01 \* 0.04 \* 0.01 \*  
 \* C & E Loss (m) \* 0.06 \* Cum SA (1000 m2) \* 37.23 \* 27.00 \* 53.72 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 34 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 321.02 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.69 \* Wt. n-Val \* 0.050 \* 0.030 \* 0.040 \*  
 \* W.S. Elev (m) \* 319.33 \* Reach Len. (m) \* 148.76 \* 152.15 \* 152.74 \*  
 \* Crit W.S. (m) \* 319.76 \* Flow Area (m2) \* 1.39 \* 9.91 \* 9.70 \*  
 \* E.G. Slope (m/m) \* 0.025014 \* Area (m2) \* 1.39 \* 9.91 \* 9.70 \*  
 \* Q Total (m3/s) \* 79.74 \* Flow (m3/s) \* 2.31 \* 63.50 \* 13.93 \*  
 \* Top Width (m) \* 54.06 \* Top Width (m) \* 3.58 \* 5.72 \* 44.76 \*  
 \* Vel Total (m/s) \* 3.80 \* Avg. Vel. (m/s) \* 1.66 \* 6.40 \* 1.44 \*  
 \* Max Chl Dpth (m) \* 2.22 \* Hydr. Depth (m) \* 0.39 \* 1.73 \* 0.22 \*  
 \* Conv. Total (m3/s) \* 504.2 \* Conv. (m3/s) \* 14.6 \* 401.5 \* 88.1 \*  
 \* Length Wtd. (m) \* 152.27 \* Wetted Per. (m) \* 3.66 \* 7.40 \* 44.78 \*  
 \* Min Ch El (m) \* 317.11 \* Shear (N/sq m) \* 93.18 \* 328.49 \* 53.13 \*  
 \* Alpha \* 2.30 \* Stream Power (N/m s) \* 154.59 \* 2103.90 \* 76.32 \*  
 \* Frctn Loss (m) \* 3.10 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.04 \* 0.02 \*  
 \* C & E Loss (m) \* 0.04 \* Cum SA (1000 m2) \* 44.25 \* 27.14 \* 61.82 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 34 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 321.41 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.98 \* Wt. n-Val \* 0.050 \* 0.030 \* 0.040 \*  
 \* W.S. Elev (m) \* 319.43 \* Reach Len. (m) \* 148.76 \* 152.15 \* 152.74 \*  
 \* Crit W.S. (m) \* 319.88 \* Flow Area (m2) \* 1.74 \* 10.46 \* 14.25 \*  
 \* E.G. Slope (m/m) \* 0.029912 \* Area (m2) \* 1.74 \* 10.46 \* 14.25 \*  
 \* Q Total (m3/s) \* 105.40 \* Flow (m3/s) \* 3.53 \* 75.90 \* 25.97 \*  
 \* Top Width (m) \* 61.56 \* Top Width (m) \* 3.78 \* 5.72 \* 52.07 \*  
 \* Vel Total (m/s) \* 3.99 \* Avg. Vel. (m/s) \* 2.03 \* 7.26 \* 1.82 \*  
 \* Max Chl Dpth (m) \* 2.32 \* Hydr. Depth (m) \* 0.46 \* 1.83 \* 0.27 \*  
 \* Conv. Total (m3/s) \* 609.4 \* Conv. (m3/s) \* 20.4 \* 438.9 \* 150.1 \*  
 \* Length Wtd. (m) \* 152.30 \* Wetted Per. (m) \* 3.88 \* 7.40 \* 52.10 \*  
 \* Min Ch El (m) \* 317.11 \* Shear (N/sq m) \* 131.74 \* 414.35 \* 80.22 \*  
 \* Alpha \* 2.45 \* Stream Power (N/m s) \* 267.23 \* 3007.20 \* 146.21 \*  
 \* Frctn Loss (m) \* 3.28 \* Cum Volume (cu m x 10^4) \* 0.03 \* 0.05 \* 0.03 \*  
 \* C & E Loss (m) \* 0.05 \* Cum SA (1000 m2) \* 53.88 \* 27.23 \* 76.90 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 35  
 Description:

Station Elevation Data, num = 21  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0324.39322.608346323.43314.425268322.99725.518267321.72317.276952321.4824  
 8.324604321.18068.488526320.4674 10.6345 321.0812.80101321.104414.03356321.2141  
 14.28593321.259815.88344322.280917.96862323.411719.28733324.164622.81552324.1859  
 29.02485324.240832.62505324.399336.44548324.362737.93234 324.37840.22956324.2804  
 42.77959324.0762

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .057.276952 .03514.28593 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 7.27695 14.2859 152.27 149.52 143.41 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 35 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 323.55 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.94 \* Wt. n-Val \* 0.050 \* 0.035 \* 0.050 \*  
 \* W.S. Elev (m) \* 322.61 \* Reach Len. (m) \* 152.27 \* 149.52 \* 143.41 \*  
 \* Crit W.S. (m) \* 322.79 \* Flow Area (m2) \* 2.11 \* 11.01 \* 1.44 \*  
 \* E.G. Slope (m/m) \* 0.015619 \* Area (m2) \* 2.11 \* 11.01 \* 1.44 \*  
 \* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* 4.23 \* 49.81 \* 2.45 \*  
 \* Top Width (m) \* 11.74 \* Top Width (m) \* 2.52 \* 7.01 \* 2.21 \*  
 \* Vel Total (m/s) \* 3.88 \* Avg. Vel. (m/s) \* 2.00 \* 4.53 \* 1.69 \*  
 \* Max Chl Dpth (m) \* 2.14 \* Hydr. Depth (m) \* 0.84 \* 1.57 \* 0.65 \*  
 \* Conv. Total (m3/s) \* 452.0 \* Conv. (m3/s) \* 33.9 \* 398.6 \* 19.6 \*  
 \* Length Wtd. (m) \* 149.34 \* Wetted Per. (m) \* 2.95 \* 7.71 \* 2.59 \*  
 \* Min Ch El (m) \* 320.47 \* Shear (N/sq m) \* 109.86 \* 218.55 \* 85.45 \*  
 \* Alpha \* 1.23 \* Stream Power (N/m s) \* 220.04 \* 989.07 \* 144.74 \*  
 \* Frctn Loss (m) \* 4.93 \* Cum Volume (cu m x 10^4) \* 0.01 \* 0.04 \* 0.01 \*  
 \* C & E Loss (m) \* 0.53 \* Cum SA (1000 m2) \* 37.68 \* 27.95 \* 56.49 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 35 Profile # 25 yr Storm  
 \*\*\*\*\*

```

* E.G. Elev (m) * 324.16 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.28 * Wt. n-Val * 0.050 * 0.035 * 0.050 *
* W.S. Elev (m) * 322.88 * Reach Len. (m) * 152.27 * 149.52 * 143.41 *
* Crit W.S. (m) * 323.18 * Flow Area (m2) * 2.83 * 12.90 * 2.11 *
* E.G. Slope (m/m) * 0.017510 * Area (m2) * 2.83 * 12.90 * 2.11 *
* Q Total (m3/s) * 79.74 * Flow (m3/s) * 6.74 * 68.73 * 4.27 *
* Top Width (m) * 12.47 * Top Width (m) * 2.75 * 7.01 * 2.71 *
* Vel Total (m/s) * 4.47 * Avg. Vel. (m/s) * 2.39 * 5.33 * 2.02 *
* Max Chl Dpth (m) * 2.41 * Hydr. Depth (m) * 1.03 * 1.84 * 0.78 *
* Conv. Total (m3/s) * 602.6 * Conv. (m3/s) * 50.9 * 519.4 * 32.2 *
* Length Wtd. (m) * 148.98 * Wetted Per. (m) * 3.30 * 7.71 * 3.16 *
* Min Ch El (m) * 320.47 * Shear (N/sq m) * 146.96 * 287.21 * 114.72 *
* Alpha * 1.26 * Stream Power (N/m s) * 350.60 * 1530.02 * 232.02 *
* Frctn Loss (m) * 4.57 * Cum Volume (cu m x 10^4) * 0.02 * 0.05 * 0.02 *
* C & E Loss (m) * 0.33 * Cum SA (1000 m2) * 44.73 * 28.09 * 65.22 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 35 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 324.73 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.52 * Wt. n-Val * 0.050 * 0.035 * 0.050 *
* W.S. Elev (m) * 323.21 * Reach Len. (m) * 152.27 * 149.52 * 143.41 *
* Crit W.S. (m) * 323.63 * Flow Area (m2) * 3.86 * 15.22 * 3.10 *
* E.G. Slope (m/m) * 0.016985 * Area (m2) * 3.86 * 15.22 * 3.10 *
* Q Total (m3/s) * 105.40 * Flow (m3/s) * 9.25 * 89.14 * 7.01 *
* Top Width (m) * 14.07 * Top Width (m) * 3.75 * 7.01 * 3.32 *
* Vel Total (m/s) * 4.75 * Avg. Vel. (m/s) * 2.40 * 5.86 * 2.26 *
* Max Chl Dpth (m) * 2.75 * Hydr. Depth (m) * 1.03 * 2.17 * 0.94 *
* Conv. Total (m3/s) * 808.7 * Conv. (m3/s) * 71.0 * 684.0 * 53.8 *
* Length Wtd. (m) * 148.73 * Wetted Per. (m) * 4.38 * 7.71 * 3.85 *
* Min Ch El (m) * 320.47 * Shear (N/sq m) * 146.88 * 328.62 * 134.29 *
* Alpha * 1.32 * Stream Power (N/m s) * 352.05 * 1924.82 * 303.21 *
* Frctn Loss (m) * 4.24 * Cum Volume (cu m x 10^4) * 0.03 * 0.05 * 0.04 *
* C & E Loss (m) * 0.23 * Cum SA (1000 m2) * 54.45 * 28.18 * 80.87 *
*****

```

CROSS SECTION INPUT River Station: 36  
Description:

```

Station Elevation Data, num = 31
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0327.76731.519643326.27992.554696326.0513.344208.325.1434.008462325.0485
4.401521324.87484.858985324.82915.231294324.98456.953498325.09737.473229325.2832
8.677201325.06388.873189.324.9548.961254325.05469.148616326.61529.716497326.8407
12.22953326.846815.03894326.9444.18.8711327.0907.21.3868327.166923.83055327.1791
24.95159327.197425.22063327.139525.59874326.938327.23055326.828629.31503326.8468
31.26401326.505535.98911326.5359.38.3335326.435443.86321326.511646.38432327.0023
48.53683.327.874

```

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Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .061.519643 .0359.148616 .04

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Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
1.51964 9.14862 164.25 162.47 156.44 0.1 0.3

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CROSS SECTION OUTPUT Riv Sta: 36 Profile # Storm Event
*****
* E.G. Elev (m) * 329.01 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 2.70 * Wt. n-Val * 0.001 * 0.035 * 0.050 *
* W.S. Elev (m) * 326.31 * Reach Len. (m) * 164.25 * 162.47 * 156.44 *
* Crit W.S. (m) * 327.12 * Flow Area (m2) * 0.00 * 7.76 * 7.76 *
* E.G. Slope (m/m) * 0.082965 * Area (m2) * 0.00 * 7.76 * 7.76 *
* Q Total (m3/s) * 56.49 * Flow (m3/s) * 0.00 * 56.49 * 56.49 *
* Top Width (m) * 7.62 * Top Width (m) * 0.03 * 7.59 * 7.59 *
* Vel Total (m/s) * 7.28 * Avg. Vel. (m/s) * 0.21 * 7.28 * 7.28 *
* Max Chl Dpth (m) * 1.48 * Hydr. Depth (m) * 0.01 * 1.02 * 1.02 *
* Conv. Total (m3/s) * 196.1 * Conv. (m3/s) * 0.0 * 196.1 * 196.1 *
* Length Wtd. (m) * 162.41 * Wetted Per. (m) * 0.04 * 9.32 * 9.32 *
* Min Ch El (m) * 324.83 * Shear (N/sq m) * 75.36 * 574.95 * 91.58 *
* Alpha * 1.00 * Stream Power (N/m s) * 79.81 * 4044.89 * 166.57 *
* Frctn Loss (m) * 3.15 * Cum Volume (cu m x 10^4) * 0.01 * 0.04 * 0.01 *
* C & E Loss (m) * 0.21 * Cum SA (1000 m2) * 37.88 * 29.13 * 56.67 *
*****

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CROSS SECTION OUTPUT Riv Sta: 36 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 329.06 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 2.38 * Wt. n-Val * 0.060 * 0.035 * 0.040 *
* W.S. Elev (m) * 326.69 * Reach Len. (m) * 164.25 * 162.47 * 156.44 *
* Crit W.S. (m) * 327.37 * Flow Area (m2) * 0.08 * 10.65 * 2.60 *
* E.G. Slope (m/m) * 0.053005 * Area (m2) * 0.08 * 10.65 * 2.60 *
* Q Total (m3/s) * 79.74 * Flow (m3/s) * 0.09 * 74.92 * 4.73 *
* Top Width (m) * 22.74 * Top Width (m) * 0.41 * 7.63 * 14.70 *
* Vel Total (m/s) * 5.98 * Avg. Vel. (m/s) * 1.06 * 7.04 * 1.82 *
* Max Chl Dpth (m) * 1.86 * Hydr. Depth (m) * 0.20 * 1.40 * 0.18 *
* Conv. Total (m3/s) * 346.4 * Conv. (m3/s) * 0.4 * 325.4 * 20.5 *
* Length Wtd. (m) * 162.21 * Wetted Per. (m) * 0.58 * 9.63 * 14.75 *
* Min Ch El (m) * 324.83 * Shear (N/sq m) * 75.36 * 574.95 * 91.58 *
* Alpha * 1.31 * Stream Power (N/m s) * 79.81 * 4044.89 * 166.57 *
* Frctn Loss (m) * 3.61 * Cum Volume (cu m x 10^4) * 0.02 * 0.05 * 0.02 *
* C & E Loss (m) * 0.14 * Cum SA (1000 m2) * 44.99 * 29.28 * 66.58 *
*****

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```

CROSS SECTION OUTPUT Riv Sta: 36 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 329.20 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 2.29 * Wt. n-Val * 0.060 * 0.035 * 0.040 *
* W.S. Elev (m) * 326.91 * Reach Len. (m) * 164.25 * 162.47 * 156.44 *
* Crit W.S. (m) * 327.52 * Flow Area (m2) * 0.20 * 12.35 * 6.62 *
* E.G. Slope (m/m) * 0.045841 * Area (m2) * 0.20 * 12.35 * 6.62 *

```

* Q Total (m3/s)	* 105.40	* Flow (m3/s)	* 0.27	* 89.24	* 15.89
* Top Width (m)	* 33.02	* Top Width (m)	* 0.64	* 7.63	* 24.75
* Vel Total (m/s)	* 5.50	* Avg. Vel. (m/s)	* 1.32	* 7.22	* 2.40
* Max Chl Dpth (m)	* 2.08	* Hydr. Depth (m)	* 0.31	* 1.62	* 0.27
* Conv. Total (m3/s)	* 492.3	* Conv. (m3/s)	* 1.2	* 416.8	* 74.2
* Length Wtd. (m)	* 161.89	* Wetted Per. (m)	* 0.90	* 9.63	* 24.86
* Min Ch El (m)	* 324.83	* Shear (N/sq m)	* 101.07	* 576.82	* 119.63
* Alpha	* 1.49	* Stream Power (N/m s)	* 133.34	* 4166.46	* 287.37
* Frctn Loss (m)	* 3.99	* Cum Volume (cu m x 10^4)	* 0.03	* 0.05	* 0.04
* C & E Loss (m)	* 0.10	* Cum SA (1000 m2)	* 54.81	* 29.37	* 83.07

CROSS SECTION INPUT River Station: 37  
Description:

Station Elevation Data, num = 16

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0333.67443	204019333	15625.578286331	11416.636293330	14488.112215330	0564		
9.247597329	885710.52883329	754611.69653	329.90712	56344330	163113	53785330	2911
14.40875330	766615.98038330	809316.72385331	184217.20806331	574325.95865331	4524		
31.72884331	6017						

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.065578286	.03514	4.0875	.06	

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
5.57829	14.4088	146.29	152.81	154.31		0.1	0.3

CROSS SECTION OUTPUT Riv Sta: 37 Profile # Storm Event

* E.G. Elev (m)	* 332.37	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.62	* Wt. n-Val	* 0.060	* 0.035	* 0.060
* W.S. Elev (m)	* 331.75	* Reach Len. (m)	* 146.29	* 152.81	* 154.31
* Crit W.S. (m)	* 331.86	* Flow Area (m2)	* 0.24	* 14.39	* 5.62
* E.G. Slope (m/m)	* 0.009132	* Area (m2)	* 0.24	* 14.39	* 5.62
* Q Total (m3/s)	* 56.49	* Flow (m3/s)	* 0.15	* 52.18	* 4.16
* Top Width (m)	* 26.89	* Top Width (m)	* 0.74	* 8.83	* 17.32
* Vel Total (m/s)	* 2.79	* Avg. Vel. (m/s)	* 0.62	* 3.63	* 0.74
* Max Chl Dpth (m)	* 2.00	* Hydr. Depth (m)	* 0.32	* 1.63	* 0.32
* Conv. Total (m3/s)	* 591.1	* Conv. (m3/s)	* 1.5	* 546.0	* 43.6
* Length Wtd. (m)	* 152.86	* Wetted Per. (m)	* 0.98	* 9.41	* 17.70
* Min Ch El (m)	* 329.75	* Shear (N/sq m)	* 21.61	* 137.04	* 28.43
* Alpha	* 1.57	* Stream Power (N/m s)	* 13.34	* 496.83	* 21.07
* Frctn Loss (m)	* 0.47	* Cum Volume (cu m x 10^4)	* 0.01	* 0.04	* 0.02
* C & E Loss (m)	* 0.24	* Cum SA (1000 m2)	* 37.94	* 30.39	* 58.00

CROSS SECTION OUTPUT Riv Sta: 37 Profile # 25 yr Storm

* E.G. Elev (m)	* 332.83	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.96	* Wt. n-Val	* 0.060	* 0.035	* 0.060
* W.S. Elev (m)	* 331.87	* Reach Len. (m)	* 146.29	* 152.81	* 154.31
* Crit W.S. (m)	* 332.14	* Flow Area (m2)	* 0.34	* 15.48	* 7.75
* E.G. Slope (m/m)	* 0.013239	* Area (m2)	* 0.34	* 15.48	* 7.75
* Q Total (m3/s)	* 79.74	* Flow (m3/s)	* 0.28	* 70.93	* 8.53
* Top Width (m)	* 27.03	* Top Width (m)	* 0.88	* 8.83	* 17.32
* Vel Total (m/s)	* 3.38	* Avg. Vel. (m/s)	* 0.84	* 4.58	* 1.10
* Max Chl Dpth (m)	* 2.12	* Hydr. Depth (m)	* 0.38	* 1.75	* 0.45
* Conv. Total (m3/s)	* 693.0	* Conv. (m3/s)	* 2.4	* 616.4	* 74.1
* Length Wtd. (m)	* 152.92	* Wetted Per. (m)	* 1.16	* 9.41	* 17.82
* Min Ch El (m)	* 329.75	* Shear (N/sq m)	* 37.38	* 213.66	* 56.46
* Alpha	* 1.64	* Stream Power (N/m s)	* 31.26	* 979.07	* 62.14
* Frctn Loss (m)	* 0.60	* Cum Volume (cu m x 10^4)	* 0.02	* 0.05	* 0.03
* C & E Loss (m)	* 0.27	* Cum SA (1000 m2)	* 45.09	* 30.54	* 69.05

CROSS SECTION OUTPUT Riv Sta: 37 Profile # 100 yr Storm

* E.G. Elev (m)	* 333.30	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.29	* Wt. n-Val	* 0.060	* 0.035	* 0.060
* W.S. Elev (m)	* 332.01	* Reach Len. (m)	* 146.29	* 152.81	* 154.31
* Crit W.S. (m)	* 332.39	* Flow Area (m2)	* 0.46	* 16.65	* 10.05
* E.G. Slope (m/m)	* 0.016774	* Area (m2)	* 0.46	* 16.65	* 10.05
* Q Total (m3/s)	* 105.40	* Flow (m3/s)	* 0.49	* 90.18	* 14.74
* Top Width (m)	* 27.19	* Top Width (m)	* 1.04	* 8.83	* 17.32
* Vel Total (m/s)	* 3.88	* Avg. Vel. (m/s)	* 1.05	* 5.42	* 1.47
* Max Chl Dpth (m)	* 2.25	* Hydr. Depth (m)	* 0.45	* 1.89	* 0.58
* Conv. Total (m3/s)	* 813.8	* Conv. (m3/s)	* 3.7	* 696.3	* 113.8
* Length Wtd. (m)	* 153.00	* Wetted Per. (m)	* 1.37	* 9.41	* 17.95
* Min Ch El (m)	* 329.75	* Shear (N/sq m)	* 55.65	* 291.23	* 92.09
* Alpha	* 1.69	* Stream Power (N/m s)	* 58.32	* 1577.14	* 135.02
* Frctn Loss (m)	* 0.70	* Cum Volume (cu m x 10^4)	* 0.03	* 0.06	* 0.04
* C & E Loss (m)	* 0.27	* Cum SA (1000 m2)	* 54.94	* 30.63	* 86.31

CROSS SECTION INPUT River Station: 38  
Description:

Station Elevation Data, num = 28

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0334.05543	411036334	00668.562277333	467112.62931333	259815.67695332	9977		
19.36387333	128822.64865333	034324.81567332	857525.73685332	287526.11335333	0282		
26.35842333	022126.39418332	756926.63082332	753926.72121330	973829.20754331	0775		
30.57435330	876333.55097330	949536.35201330	614237.23899330	492339.42021330	5319		
39.42828332	680739.45364330	696539.68443332	680741.76589	332.5147	35418332	2906	
52.52434332	046755.03519331	982759.96574331	8303				

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
------	-------	------	-------	------	-------

\*\*\*\*\*  
0 .0626.39418 .03539.68443 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
26.3942 39.6844 33.48 24.72 15.94 0.1 0.3

Left Levee Station= 26.3942 Elevation=  
Right Levee Station= 39.6844 Elevation=

CROSS SECTION OUTPUT Riv Sta: 38 Profile # Storm Event

\*\*\*\*\*  
\* E.G. Elev (m) \* 333.08 \* Element \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m) \* 1.43 \* Wt. n-Val \* \* 0.035 \* \*  
\* W.S. Elev (m) \* 331.65 \* Reach Len. (m) \* 33.48 \* 24.72 \* 15.94 \*  
\* Crit W.S. (m) \* 332.08 \* Flow Area (m2) \* \* 10.67 \* \*  
\* E.G. Slope (m/m) \* 0.061247 \* Area (m2) \* \* 10.67 \* \*  
\* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* \* 56.49 \* \*  
\* Top Width (m) \* 12.86 \* Top Width (m) \* \* 12.86 \* \*  
\* Vel Total (m/s) \* 5.29 \* Avg. Vel. (m/s) \* \* 5.29 \* \*  
\* Max Chl Dpth (m) \* 1.16 \* Hydr. Depth (m) \* \* 0.83 \* \*  
\* Conv. Total (m3/s) \* 228.3 \* Conv. (m3/s) \* \* 228.3 \* \*  
\* Length Wtd. (m) \* 24.41 \* Wetted Per. (m) \* \* 16.47 \* \*  
\* Min Ch El (m) \* 330.49 \* Shear (N/sq m) \* \* 389.17 \* \*  
\* Alpha \* 1.00 \* Stream Power (N/m s) \* \* 2060.42 \* \*  
\* Frctn Loss (m) \* 0.34 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.04 \* 0.02 \*  
\* C & E Loss (m) \* 0.05 \* Cum SA (1000 m2) \* 37.95 \* 30.66 \* 58.14 \*  
\*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 38 Profile # 25 yr Storm

\*\*\*\*\*  
\* E.G. Elev (m) \* 333.70 \* Element \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m) \* 1.85 \* Wt. n-Val \* \* 0.035 \* \*  
\* W.S. Elev (m) \* 331.85 \* Reach Len. (m) \* 33.48 \* 24.72 \* 15.94 \*  
\* Crit W.S. (m) \* 332.41 \* Flow Area (m2) \* \* 13.25 \* \*  
\* E.G. Slope (m/m) \* 0.063182 \* Area (m2) \* \* 13.25 \* \*  
\* Q Total (m3/s) \* 79.74 \* Flow (m3/s) \* \* 79.74 \* \*  
\* Top Width (m) \* 12.90 \* Top Width (m) \* \* 12.90 \* \*  
\* Vel Total (m/s) \* 6.02 \* Avg. Vel. (m/s) \* \* 6.02 \* \*  
\* Max Chl Dpth (m) \* 1.36 \* Hydr. Depth (m) \* \* 1.03 \* \*  
\* Conv. Total (m3/s) \* 317.2 \* Conv. (m3/s) \* \* 317.2 \* \*  
\* Length Wtd. (m) \* 24.26 \* Wetted Per. (m) \* \* 17.27 \* \*  
\* Min Ch El (m) \* 330.49 \* Shear (N/sq m) \* \* 475.34 \* \*  
\* Alpha \* 1.00 \* Stream Power (N/m s) \* \* 2860.83 \* \*  
\* Frctn Loss (m) \* 0.34 \* Cum Volume (cu m x 10^ \* 0.02 \* 0.05 \* 0.03 \*  
\* C & E Loss (m) \* 0.04 \* Cum SA (1000 m2) \* 45.10 \* 30.81 \* 69.19 \*  
\*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 38 Profile # 100 yr Storm

\*\*\*\*\*  
\* E.G. Elev (m) \* 334.27 \* Element \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m) \* 2.20 \* Wt. n-Val \* \* 0.035 \* \*  
\* W.S. Elev (m) \* 332.07 \* Reach Len. (m) \* 33.48 \* 24.72 \* 15.94 \*  
\* Crit W.S. (m) \* 332.79 \* Flow Area (m2) \* \* 16.02 \* \*  
\* E.G. Slope (m/m) \* 0.062479 \* Area (m2) \* \* 16.02 \* \*  
\* Q Total (m3/s) \* 105.40 \* Flow (m3/s) \* \* 105.40 \* \*  
\* Top Width (m) \* 12.94 \* Top Width (m) \* \* 12.94 \* \*  
\* Vel Total (m/s) \* 6.58 \* Avg. Vel. (m/s) \* \* 6.58 \* \*  
\* Max Chl Dpth (m) \* 1.58 \* Hydr. Depth (m) \* \* 1.24 \* \*  
\* Conv. Total (m3/s) \* 421.7 \* Conv. (m3/s) \* \* 421.7 \* \*  
\* Length Wtd. (m) \* 24.13 \* Wetted Per. (m) \* \* 18.13 \* \*  
\* Min Ch El (m) \* 330.49 \* Shear (N/sq m) \* \* 541.54 \* \*  
\* Alpha \* 1.00 \* Stream Power (N/m s) \* \* 3561.88 \* \*  
\* Frctn Loss (m) \* 0.33 \* Cum Volume (cu m x 10^ \* 0.03 \* 0.06 \* 0.04 \*  
\* C & E Loss (m) \* 0.03 \* Cum SA (1000 m2) \* 54.95 \* 30.90 \* 86.45 \*  
\*\*\*\*\*

CROSS SECTION INPUT River Station: 39  
Description:

Station Elevation Data, num = 27

Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
\*\*\*\*\*  
0334.06762.530092333.38184.282585333.18675.691598333.28128.959859333.3482  
16.20684333.345224.63155333.1044 27.2629333.028227.51291333.009927.53305332.7417  
27.77114332.726427.82024331.839529.10397331.589531.37131 331.332.84214330.7666  
33.33257330.385634.81785330.294136.59415330.559337.01755330.757437.21555330.9617  
37.86209331.1598 40.1534331.882140.56157332.708242.00965332.845343.99654332.9154  
48.52755332.9185 50.0342333.1715

Mannings n Values, num = 3

Sta. Value Sta. Value Sta. Value  
\*\*\*\*\*  
0 .0627.53305 .03540.56157 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
27.5331 40.5616 5.88 6.05 6.6 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 39 Profile # Storm Event

\*\*\*\*\*  
\* E.G. Elev (m) \* 333.47 \* Element \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m) \* 1.59 \* Wt. n-Val \* \* 0.035 \* \*  
\* W.S. Elev (m) \* 331.89 \* Reach Len. (m) \* 5.88 \* 6.05 \* 6.60 \*  
\* Crit W.S. (m) \* 332.35 \* Flow Area (m2) \* \* 10.12 \* \*  
\* E.G. Slope (m/m) \* 0.052922 \* Area (m2) \* \* 10.12 \* \*  
\* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* \* 56.49 \* \*  
\* Top Width (m) \* 12.34 \* Top Width (m) \* \* 12.34 \* \*  
\* Vel Total (m/s) \* 5.58 \* Avg. Vel. (m/s) \* \* 5.58 \* \*  
\* Max Chl Dpth (m) \* 1.59 \* Hydr. Depth (m) \* \* 0.82 \* \*  
\* Conv. Total (m3/s) \* 245.6 \* Conv. (m3/s) \* \* 245.6 \* \*  
\* Length Wtd. (m) \* 6.05 \* Wetted Per. (m) \* \* 12.95 \* \*  
\* Min Ch El (m) \* 330.29 \* Shear (N/sq m) \* \* 405.84 \* \*  
\* Alpha \* 1.00 \* Stream Power (N/m s) \* \* 2264.10 \* \*  
\* Frctn Loss (m) \* 0.29 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.04 \* 0.02 \*  
\*\*\*\*\*

\* C & E Loss (m) \* 0.07 \* Cum SA (1000 m2) \* 37.95 \* 30.73 \* 58.14 \*

CROSS SECTION OUTPUT Riv Sta: 39 Profile # 25 yr Storm
\*\*\*\*\*
\* E.G. Elev (m) \* 334.07 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 1.97 \* Wt. n-Val \* \* 0.035 \* \*
\* W.S. Elev (m) \* 332.11 \* Reach Len. (m) \* 5.88 \* 6.05 \* 6.60 \*
\* Crit W.S. (m) \* 332.69 \* Flow Area (m2) \* \* 12.83 \* \*
\* E.G. Slope (m/m) \* 0.050162 \* Area (m2) \* \* 12.83 \* \*
\* Q Total (m3/s) \* 79.74 \* Flow (m3/s) \* \* 79.74 \* \*
\* Top Width (m) \* 12.46 \* Top Width (m) \* \* 12.46 \* \*
\* Vel Total (m/s) \* 6.21 \* Avg. Vel. (m/s) \* \* 6.21 \* \*
\* Max Chl Dpth (m) \* 1.81 \* Hydr. Depth (m) \* \* 1.03 \* \*
\* Conv. Total (m3/s) \* 356.0 \* Conv. (m3/s) \* \* 356.0 \* \*
\* Length Wtd. (m) \* 6.05 \* Wetted Per. (m) \* \* 13.41 \* \*
\* Min Ch El (m) \* 330.29 \* Shear (N/sq m) \* \* 470.71 \* \*
\* Alpha \* 1.00 \* Stream Power (N/m s) \* \* 2924.89 \* \*
\* Frctn Loss (m) \* 0.32 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.05 \* 0.03 \*
\* C & E Loss (m) \* 0.07 \* Cum SA (1000 m2) \* 45.10 \* 30.89 \* 69.19 \*

CROSS SECTION OUTPUT Riv Sta: 39 Profile # 100 yr Storm
\*\*\*\*\*
\* E.G. Elev (m) \* 334.63 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 2.30 \* Wt. n-Val \* \* 0.035 \* \*
\* W.S. Elev (m) \* 332.33 \* Reach Len. (m) \* 5.88 \* 6.05 \* 6.60 \*
\* Crit W.S. (m) \* 333.14 \* Flow Area (m2) \* \* 15.69 \* \*
\* E.G. Slope (m/m) \* 0.047036 \* Area (m2) \* \* 15.69 \* \*
\* Q Total (m3/s) \* 105.40 \* Flow (m3/s) \* \* 105.40 \* \*
\* Top Width (m) \* 12.58 \* Top Width (m) \* \* 12.58 \* \*
\* Vel Total (m/s) \* 6.72 \* Avg. Vel. (m/s) \* \* 6.72 \* \*
\* Max Chl Dpth (m) \* 2.04 \* Hydr. Depth (m) \* \* 1.25 \* \*
\* Conv. Total (m3/s) \* 486.0 \* Conv. (m3/s) \* \* 486.0 \* \*
\* Length Wtd. (m) \* 6.05 \* Wetted Per. (m) \* \* 13.89 \* \*
\* Min Ch El (m) \* 330.29 \* Shear (N/sq m) \* \* 520.81 \* \*
\* Alpha \* 1.00 \* Stream Power (N/m s) \* \* 3499.20 \* \*
\* Frctn Loss (m) \* 0.33 \* Cum Volume (cu m x 10^4) \* 0.03 \* 0.06 \* 0.04 \*
\* C & E Loss (m) \* 0.07 \* Cum SA (1000 m2) \* 54.95 \* 30.98 \* 86.45 \*

CROSS SECTION INPUT River Station: 40
Description:

Station Elevation Data, num = 22
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
\*\*\*\*\*
0337.12474.160464335.186218.66048334.680226.92169334.104129.45291333.5433
38.15499333.235539.08715333.220240.62989332.997741.95138333.214143.09646333.2995
45.85102333.262948.05678333.162349.67118333.110550.66389 332.37950.71541 332.382
51.89608331.498154.05279 330.98356.00511330.867257.44691331.007460.10064334.0005
60.5385334.088961.80006335.9573

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
\*\*\*\*\*
0 .0649.67118 .03560.10064 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
49.6712 60.1006 2.32 10.82 19.33 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 40 Profile # Storm Event
\*\*\*\*\*
\* E.G. Elev (m) \* 333.83 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 0.92 \* Wt. n-Val \* \* 0.035 \* \*
\* W.S. Elev (m) \* 332.91 \* Reach Len. (m) \* 2.32 \* 10.82 \* 19.33 \*
\* Crit W.S. (m) \* 333.04 \* Flow Area (m2) \* \* 13.33 \* \*
\* E.G. Slope (m/m) \* 0.016216 \* Area (m2) \* \* 13.33 \* \*
\* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* \* 56.49 \* \*
\* Top Width (m) \* 9.20 \* Top Width (m) \* \* 9.20 \* \*
\* Vel Total (m/s) \* 4.24 \* Avg. Vel. (m/s) \* \* 4.24 \* \*
\* Max Chl Dpth (m) \* 2.05 \* Hydr. Depth (m) \* \* 1.45 \* \*
\* Conv. Total (m3/s) \* 443.6 \* Conv. (m3/s) \* \* 443.6 \* \*
\* Length Wtd. (m) \* 10.82 \* Wetted Per. (m) \* \* 10.60 \* \*
\* Min Ch El (m) \* 330.87 \* Shear (N/sq m) \* \* 199.97 \* \*
\* Alpha \* 1.00 \* Stream Power (N/m s) \* \* 847.61 \* \*
\* Frctn Loss (m) \* 2.95 \* Cum Volume (cu m x 10^4) \* 0.01 \* 0.04 \* 0.02 \*
\* C & E Loss (m) \* 0.44 \* Cum SA (1000 m2) \* 37.95 \* 30.85 \* 58.14 \*

CROSS SECTION OUTPUT Riv Sta: 40 Profile # 25 yr Storm
\*\*\*\*\*
\* E.G. Elev (m) \* 334.47 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 1.29 \* Wt. n-Val \* \* 0.060 \* 0.035 \* \*
\* W.S. Elev (m) \* 333.18 \* Reach Len. (m) \* 2.32 \* 10.82 \* 19.33 \*
\* Crit W.S. (m) \* 333.69 \* Flow Area (m2) \* \* 0.27 \* 15.80 \* \*
\* E.G. Slope (m/m) \* 0.019839 \* Area (m2) \* \* 0.27 \* 15.80 \* \*
\* Q Total (m3/s) \* 79.74 \* Flow (m3/s) \* \* 0.11 \* 79.63 \* \*
\* Top Width (m) \* 13.91 \* Top Width (m) \* \* 4.21 \* 9.70 \* \*
\* Vel Total (m/s) \* 4.96 \* Avg. Vel. (m/s) \* \* 0.41 \* 5.04 \* \*
\* Max Chl Dpth (m) \* 2.31 \* Hydr. Depth (m) \* \* 0.06 \* 1.63 \* \*
\* Conv. Total (m3/s) \* 566.1 \* Conv. (m3/s) \* \* 0.8 \* 565.3 \* \*
\* Length Wtd. (m) \* 10.81 \* Wetted Per. (m) \* \* 4.24 \* 11.28 \* \*
\* Min Ch El (m) \* 330.87 \* Shear (N/sq m) \* \* 12.39 \* 272.60 \* \*
\* Alpha \* 1.03 \* Stream Power (N/m s) \* \* 5.10 \* 1373.66 \* \*
\* Frctn Loss (m) \* 2.84 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.05 \* 0.03 \*
\* C & E Loss (m) \* 0.34 \* Cum SA (1000 m2) \* 45.11 \* 31.00 \* 69.19 \*

CROSS SECTION OUTPUT Riv Sta: 40 Profile # 100 yr Storm
\*\*\*\*\*
\* E.G. Elev (m) \* 335.04 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 1.63 \* Wt. n-Val \* \* 0.060 \* 0.035 \* \*

* W.S. Elev (m)	* 333.41	* Reach Len. (m)	*	2.32	* 10.82	* 19.33	*
* Crit W.S. (m)	* 333.97	* Flow Area (m2)	*	2.82	* 18.07	*	*
* E.G. Slope (m/m)	* 0.022110	* Area (m2)	*	2.82	* 18.07	*	*
* Q Total (m3/s)	* 105.40	* Flow (m3/s)	*	2.16	* 103.24	*	*
* Top Width (m)	* 26.26	* Top Width (m)	*	16.36	* 9.90	*	*
* Vel Total (m/s)	* 5.05	* Avg. Vel. (m/s)	*	0.77	* 5.71	*	*
* Max Chl Dpth (m)	* 2.54	* Hydr. Depth (m)	*	0.17	* 1.82	*	*
* Conv. Total (m3/s)	* 708.8	* Conv. (m3/s)	*	14.5	* 694.3	*	*
* Length Wtd. (m)	* 10.73	* Wetted Per. (m)	*	16.40	* 11.59	*	*
* Min Ch El (m)	* 330.87	* Shear (N/sq m)	*	37.28	* 338.14	*	*
* Alpha	* 1.26	* Stream Power (N/m s)	*	28.57	* 1931.82	*	*
* Frctn Loss (m)	* 2.76	* Cum Volume (cu m x 10^4)	*	0.03	* 0.06	* 0.04	*
* C & E Loss (m)	* 0.27	* Cum SA (1000 m2)	*	54.97	* 31.10	* 86.45	*

CROSS SECTION INPUT River Station: 41  
Description:

Station Elevation Data, num = 23  
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
\*\*\*\*\*  
0335.91771.491276335.27761.754238335.16492.455997335.11912.722046335.2898  
3.978 335.4275.879395335.43618.054044335.34779.150716335.31429.450755335.4148  
10.84425335.527612.61177335.4239 14.0436 335.29915.23416334.826516.93472333.6622  
17.78145333.723118.64812333.601220.90708333.579922.13141333.726222.72542333.8573  
23.54969334.951525.98685335.433128.70586337.6368

Mannings n Values, num = 3  
Sta. Value Sta. Value Sta. Value  
\*\*\*\*\*  
0 .0415.23416 .0323.54969 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
15.2342 23.5497 110.33 113.99 114.64 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 41 Profile # Storm Event  
\*\*\*\*\*  
\* E.G. Elev (m) \* 337.22 \* Element \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m) \* 2.38 \* Wt. n-Val \* 0.000 \* 0.030 \* 0.030 \*  
\* W.S. Elev (m) \* 334.84 \* Reach Len. (m) \* 110.33 \* 113.99 \* 114.64 \*  
\* Crit W.S. (m) \* 335.72 \* Flow Area (m2) \* 0.00 \* 8.26 \* \*  
\* E.G. Slope (m/m) \* 0.047964 \* Area (m2) \* 0.00 \* 8.26 \* \*  
\* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* 0.00 \* 56.49 \* \*  
\* Top Width (m) \* 8.26 \* Top Width (m) \* 0.03 \* 8.23 \* \*  
\* Vel Total (m/s) \* 6.84 \* Avg. Vel. (m/s) \* 0.18 \* 6.84 \* \*  
\* Max Chl Dpth (m) \* 1.26 \* Hydr. Depth (m) \* 0.01 \* 1.00 \* \*  
\* Conv. Total (m3/s) \* 257.9 \* Conv. (m3/s) \* 0.0 \* 257.9 \* \*  
\* Length Wtd. (m) \* 113.99 \* Wetted Per. (m) \* 0.03 \* 9.12 \* \*  
\* Min Ch El (m) \* 333.58 \* Shear (N/sq m) \* \* 426.36 \* \*  
\* Alpha \* 1.00 \* Stream Power (N/m s) \* \* 2915.18 \* \*  
\* Frctn Loss (m) \* 1.21 \* Cum Volume (cu m x 10^4) \* 0.01 \* 0.04 \* 0.02 \*  
\* C & E Loss (m) \* 0.17 \* Cum SA (1000 m2) \* 37.95 \* 31.84 \* 58.14 \*  
\*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 41 Profile # 25 yr Storm  
\*\*\*\*\*  
\* E.G. Elev (m) \* 337.64 \* Element \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m) \* 2.42 \* Wt. n-Val \* 0.040 \* 0.030 \* 0.060 \*  
\* W.S. Elev (m) \* 335.23 \* Reach Len. (m) \* 110.33 \* 113.99 \* 114.64 \*  
\* Crit W.S. (m) \* 336.01 \* Flow Area (m2) \* 0.27 \* 11.47 \* 0.19 \*  
\* E.G. Slope (m/m) \* 0.032238 \* Area (m2) \* 0.27 \* 11.47 \* 0.19 \*  
\* Q Total (m3/s) \* 79.74 \* Flow (m3/s) \* 0.35 \* 79.24 \* 0.15 \*  
\* Top Width (m) \* 11.72 \* Top Width (m) \* 2.02 \* 8.32 \* 1.39 \*  
\* Vel Total (m/s) \* 6.68 \* Avg. Vel. (m/s) \* 1.27 \* 6.91 \* 0.79 \*  
\* Max Chl Dpth (m) \* 1.65 \* Hydr. Depth (m) \* 0.14 \* 1.38 \* 0.14 \*  
\* Conv. Total (m3/s) \* 444.1 \* Conv. (m3/s) \* 1.9 \* 441.3 \* 0.8 \*  
\* Length Wtd. (m) \* 113.98 \* Wetted Per. (m) \* 2.14 \* 9.26 \* 1.42 \*  
\* Min Ch El (m) \* 333.58 \* Shear (N/sq m) \* 40.41 \* 391.92 \* 42.59 \*  
\* Alpha \* 1.06 \* Stream Power (N/m s) \* 51.45 \* 2706.84 \* 33.49 \*  
\* Frctn Loss (m) \* 1.30 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.05 \* 0.03 \*  
\* C & E Loss (m) \* 0.14 \* Cum SA (1000 m2) \* 45.45 \* 32.03 \* 69.27 \*  
\*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 41 Profile # 100 yr Storm  
\*\*\*\*\*  
\* E.G. Elev (m) \* 338.07 \* Element \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m) \* 2.53 \* Wt. n-Val \* 0.040 \* 0.030 \* 0.060 \*  
\* W.S. Elev (m) \* 335.54 \* Reach Len. (m) \* 110.33 \* 113.99 \* 114.64 \*  
\* Crit W.S. (m) \* 336.25 \* Flow Area (m2) \* 2.55 \* 14.05 \* 0.84 \*  
\* E.G. Slope (m/m) \* 0.026700 \* Area (m2) \* 2.55 \* 14.05 \* 0.84 \*  
\* Q Total (m3/s) \* 105.40 \* Flow (m3/s) \* 3.25 \* 101.08 \* 1.07 \*  
\* Top Width (m) \* 25.22 \* Top Width (m) \* 14.34 \* 8.32 \* 2.56 \*  
\* Vel Total (m/s) \* 6.04 \* Avg. Vel. (m/s) \* 1.28 \* 7.19 \* 1.27 \*  
\* Max Chl Dpth (m) \* 1.96 \* Hydr. Depth (m) \* 0.18 \* 1.69 \* 0.33 \*  
\* Conv. Total (m3/s) \* 645.0 \* Conv. (m3/s) \* 19.9 \* 618.6 \* 6.6 \*  
\* Length Wtd. (m) \* 113.90 \* Wetted Per. (m) \* 14.60 \* 9.26 \* 2.65 \*  
\* Min Ch El (m) \* 333.58 \* Shear (N/sq m) \* 45.66 \* 397.49 \* 83.48 \*  
\* Alpha \* 1.36 \* Stream Power (N/m s) \* 58.22 \* 2859.68 \* 106.11 \*  
\* Frctn Loss (m) \* 1.50 \* Cum Volume (cu m x 10^4) \* 0.03 \* 0.06 \* 0.04 \*  
\* C & E Loss (m) \* 0.10 \* Cum SA (1000 m2) \* 56.67 \* 32.14 \* 86.60 \*  
\*\*\*\*\*

CROSS SECTION INPUT River Station: 42  
Description:

Station Elevation Data, num = 23  
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
\*\*\*\*\*  
0338.03611.118837337.41732.434924337.74354.315464337.7557 6.73576337.6764  
9.787599337.728212.90204337.389913.68949337.057714.61428336.179815.76087335.8263  
16.08662 335.68317.27872335.731818.46237335.692219.70018335.835420.54471336.0396  
20.71145337.481322.66858339.142524.62176339.163828.40934 339.10930.15392339.2461  
31.02361338.566431.54474338.566432.83838339.6088

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .0412.90204 .0320.71145 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 12.902 20.7114 74.57 77.42 75.66 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 42 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 338.60 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.70 \* Wt. n-Val \* 0.040 \* 0.030 \* 0.060 \*  
 \* W.S. Elev (m) \* 337.90 \* Reach Len. (m) \* 74.57 \* 77.42 \* 75.66 \*  
 \* Crit W.S. (m) \* 338.03 \* Flow Area (m2) \* 2.97 \* 14.25 \* 0.10 \*  
 \* E.G. Slope (m/m) \* 0.007652 \* Area (m2) \* 2.97 \* 14.25 \* 0.10 \*  
 \* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* 2.45 \* 53.99 \* 0.04 \*  
 \* Top Width (m) \* 20.95 \* Top Width (m) \* 12.65 \* 7.81 \* 0.49 \*  
 \* Vel Total (m/s) \* 3.26 \* Avg. Vel. (m/s) \* 0.83 \* 3.79 \* 0.43 \*  
 \* Max Chl Dpth (m) \* 2.21 \* Hydr. Depth (m) \* 0.24 \* 1.83 \* 0.21 \*  
 \* Conv. Total (m3/s) \* 645.8 \* Conv. (m3/s) \* 28.1 \* 617.2 \* 0.5 \*  
 \* Length Wtd. (m) \* 77.36 \* Wetted Per. (m) \* 12.83 \* 9.63 \* 0.64 \*  
 \* Min Ch El (m) \* 335.68 \* Shear (N/sq m) \* 17.39 \* 111.09 \* 11.86 \*  
 \* Alpha \* 1.29 \* Stream Power (N/m s) \* 14.35 \* 420.77 \* 5.06 \*  
 \* Frctn Loss (m) \* 0.12 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.05 \* 0.02 \*  
 \* C & E Loss (m) \* 0.32 \* Cum SA (1000 m2) \* 38.43 \* 32.46 \* 58.16 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 42 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 339.08 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.02 \* Wt. n-Val \* 0.040 \* 0.030 \* 0.060 \*  
 \* W.S. Elev (m) \* 338.07 \* Reach Len. (m) \* 74.57 \* 77.42 \* 75.66 \*  
 \* Crit W.S. (m) \* 338.34 \* Flow Area (m2) \* 5.16 \* 15.59 \* 0.20 \*  
 \* E.G. Slope (m/m) \* 0.010276 \* Area (m2) \* 5.16 \* 15.59 \* 0.20 \*  
 \* Q Total (m3/s) \* 79.74 \* Flow (m3/s) \* 7.00 \* 72.61 \* 0.13 \*  
 \* Top Width (m) \* 21.40 \* Top Width (m) \* 12.90 \* 7.81 \* 0.69 \*  
 \* Vel Total (m/s) \* 3.81 \* Avg. Vel. (m/s) \* 1.36 \* 4.66 \* 0.62 \*  
 \* Max Chl Dpth (m) \* 2.38 \* Hydr. Depth (m) \* 0.40 \* 2.00 \* 0.29 \*  
 \* Conv. Total (m3/s) \* 786.6 \* Conv. (m3/s) \* 69.1 \* 716.3 \* 1.2 \*  
 \* Length Wtd. (m) \* 77.29 \* Wetted Per. (m) \* 13.15 \* 9.63 \* 0.90 \*  
 \* Min Ch El (m) \* 335.68 \* Shear (N/sq m) \* 39.51 \* 163.13 \* 22.48 \*  
 \* Alpha \* 1.37 \* Stream Power (N/m s) \* 53.65 \* 759.94 \* 13.97 \*  
 \* Frctn Loss (m) \* 0.17 \* Cum Volume (cu m x 10^ \* 0.02 \* 0.05 \* 0.03 \*  
 \* C & E Loss (m) \* 0.23 \* Cum SA (1000 m2) \* 46.01 \* 32.66 \* 69.35 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 42 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 339.67 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.52 \* Wt. n-Val \* 0.040 \* 0.030 \* 0.060 \*  
 \* W.S. Elev (m) \* 338.15 \* Reach Len. (m) \* 74.57 \* 77.42 \* 75.66 \*  
 \* Crit W.S. (m) \* 338.61 \* Flow Area (m2) \* 6.27 \* 16.26 \* 0.27 \*  
 \* E.G. Slope (m/m) \* 0.014810 \* Area (m2) \* 6.27 \* 16.26 \* 0.27 \*  
 \* Q Total (m3/s) \* 105.40 \* Flow (m3/s) \* 11.61 \* 93.57 \* 0.22 \*  
 \* Top Width (m) \* 21.50 \* Top Width (m) \* 12.90 \* 7.81 \* 0.79 \*  
 \* Vel Total (m/s) \* 4.62 \* Avg. Vel. (m/s) \* 1.85 \* 5.75 \* 0.82 \*  
 \* Max Chl Dpth (m) \* 2.47 \* Hydr. Depth (m) \* 0.49 \* 2.08 \* 0.34 \*  
 \* Conv. Total (m3/s) \* 866.1 \* Conv. (m3/s) \* 95.4 \* 768.9 \* 1.8 \*  
 \* Length Wtd. (m) \* 77.21 \* Wetted Per. (m) \* 13.24 \* 9.63 \* 1.04 \*  
 \* Min Ch El (m) \* 335.68 \* Shear (N/sq m) \* 68.85 \* 245.32 \* 37.20 \*  
 \* Alpha \* 1.39 \* Stream Power (N/m s) \* 127.34 \* 1411.45 \* 30.43 \*  
 \* Frctn Loss (m) \* 0.18 \* Cum Volume (cu m x 10^ \* 0.03 \* 0.06 \* 0.04 \*  
 \* C & E Loss (m) \* 0.08 \* Cum SA (1000 m2) \* 57.68 \* 32.76 \* 86.72 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 43  
 Description:

Station Elevation Data, num = 26  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0339.18825.338582339.145511.11884338.9718 17.3507338.825519.58471339.0419  
 29.24529338.974934.96701339.0998 39.1107339.203539.99275339.099842.21903338.3988  
 42.24698338.828642.35677338.828642.50905338.438443.02979338.456743.20475336.7742  
 47.07841336.502948.81282335.9909 50.2709335.768452.31851335.768452.41243335.9665  
 52.65026339.017554.97045339.230958.68145339.163860.66323339.084669.27302339.1791  
 76.96287339.2157

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .0443.02979 .0352.65026 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 43.0298 52.6503 17.8 10.11 1.68 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 43 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 338.92 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.59 \* Wt. n-Val \* \* \* 0.030 \* \*  
 \* W.S. Elev (m) \* 337.33 \* Reach Len. (m) \* 17.80 \* 10.11 \* 1.68 \*  
 \* Crit W.S. (m) \* 337.80 \* Flow Area (m2) \* \* \* 10.10 \* \*  
 \* E.G. Slope (m/m) \* 0.032879 \* Area (m2) \* \* \* 10.10 \* \*  
 \* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* \* \* 56.49 \* \*  
 \* Top Width (m) \* 9.37 \* Top Width (m) \* \* \* 9.37 \* \*  
 \* Vel Total (m/s) \* 5.59 \* Avg. Vel. (m/s) \* \* \* 5.59 \* \*  
 \* Max Chl Dpth (m) \* 1.56 \* Hydr. Depth (m) \* \* \* 1.08 \* \*  
 \* Conv. Total (m3/s) \* 311.5 \* Conv. (m3/s) \* \* \* 311.5 \* \*  
 \* Length Wtd. (m) \* 10.41 \* Wetted Per. (m) \* \* \* 11.36 \* \*  
 \* Min Ch El (m) \* 335.77 \* Shear (N/sq m) \* \* \* 286.79 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* \* 1603.13 \* \*



\* Frctn Loss (m) \* 0.18 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.05 \* 0.02 \*  
 \* C & E Loss (m) \* 0.13 \* Cum SA (1000 m2) \* 38.54 \* 32.55 \* 58.16 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 43 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 339.48 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.80 \* Wt. n-Val \* \* \* 0.030 \* \*  
 \* W.S. Elev (m) \* 337.68 \* Reach Len. (m) \* 17.80 \* 10.11 \* 1.68 \*  
 \* Crit W.S. (m) \* 338.19 \* Flow Area (m2) \* \* \* 13.43 \* \*  
 \* E.G. Slope (m/m) \* 0.027514 \* Area (m2) \* \* \* 13.43 \* \*  
 \* Q Total (m3/s) \* 79.74 \* Flow (m3/s) \* \* \* 79.74 \* \*  
 \* Top Width (m) \* 9.44 \* Top Width (m) \* \* \* 9.44 \* \*  
 \* Vel Total (m/s) \* 5.94 \* Avg. Vel. (m/s) \* \* \* 5.94 \* \*  
 \* Max Chl Dpth (m) \* 1.92 \* Hydr. Depth (m) \* \* \* 1.42 \* \*  
 \* Conv. Total (m3/s) \* 480.7 \* Conv. (m3/s) \* \* \* 480.7 \* \*  
 \* Length Wtd. (m) \* 10.44 \* Wetted Per. (m) \* \* \* 12.07 \* \*  
 \* Min Ch El (m) \* 335.77 \* Shear (N/sq m) \* \* \* 300.20 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* \* 1782.22 \* \*  
 \* Frctn Loss (m) \* 0.15 \* Cum Volume (cu m x 10^ \* 0.02 \* 0.05 \* 0.03 \*  
 \* C & E Loss (m) \* 0.11 \* Cum SA (1000 m2) \* 46.12 \* 32.74 \* 69.35 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 43 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 339.94 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.80 \* Wt. n-Val \* \* \* 0.030 \* \*  
 \* W.S. Elev (m) \* 338.14 \* Reach Len. (m) \* 17.80 \* 10.11 \* 1.68 \*  
 \* Crit W.S. (m) \* 338.62 \* Flow Area (m2) \* \* \* 17.74 \* \*  
 \* E.G. Slope (m/m) \* 0.020968 \* Area (m2) \* \* \* 17.74 \* \*  
 \* Q Total (m3/s) \* 105.40 \* Flow (m3/s) \* \* \* 105.40 \* \*  
 \* Top Width (m) \* 9.52 \* Top Width (m) \* \* \* 9.52 \* \*  
 \* Vel Total (m/s) \* 5.94 \* Avg. Vel. (m/s) \* \* \* 5.94 \* \*  
 \* Max Chl Dpth (m) \* 2.37 \* Hydr. Depth (m) \* \* \* 1.86 \* \*  
 \* Conv. Total (m3/s) \* 727.9 \* Conv. (m3/s) \* \* \* 727.9 \* \*  
 \* Length Wtd. (m) \* 10.52 \* Wetted Per. (m) \* \* \* 12.98 \* \*  
 \* Min Ch El (m) \* 335.77 \* Shear (N/sq m) \* \* \* 280.89 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* \* 1669.18 \* \*  
 \* Frctn Loss (m) \* 0.11 \* Cum Volume (cu m x 10^ \* 0.03 \* 0.06 \* 0.04 \*  
 \* C & E Loss (m) \* 0.09 \* Cum SA (1000 m2) \* 57.80 \* 32.85 \* 86.73 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 44  
 Description:

Station Elevation Data, num = 43  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0 340.2521.073537339.84051.888986339.71862.292731339.37112.525148339.3345  
 3.895501339.35894.234891339.70335.614635 339.8746.708118339.61499.302987339.4229  
 18.54694339.3071 22.7215339.328428.53492339.246133.42829339.0815 43.3492339.1395  
 54.71741339.008462.02252339.124264.79632339.151665.74638338.929166.05809338.4262  
 66.19104336.798669.07955336.646270.95633335.963471.95201335.774572.29752335.9055  
 73.41006335.923874.47004335.698375.16886335.753175.18407335.966575.21644338.5817  
 75.75194338.578675.80932338.9139 75.9065338.913976.24047338.529978.12781338.8987  
 78.66142339.191383.33199339.1882 86.6911 339.109 89.5839339.502291.71649339.2858  
 94.35317338.691499.33965338.8773101.1185340.0112

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .0465.74638 .0375.21644 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 65.7464 75.2164 3.27 4.71 5.4 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 44 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 339.23 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 2.01 \* Wt. n-Val \* \* \* 0.030 \* \*  
 \* W.S. Elev (m) \* 337.22 \* Reach Len. (m) \* 3.27 \* 4.71 \* 5.40 \*  
 \* Crit W.S. (m) \* 337.81 \* Flow Area (m2) \* \* \* 9.00 \* \*  
 \* E.G. Slope (m/m) \* 0.046604 \* Area (m2) \* \* \* 9.00 \* \*  
 \* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* \* \* 56.49 \* \*  
 \* Top Width (m) \* 9.04 \* Top Width (m) \* \* \* 9.04 \* \*  
 \* Vel Total (m/s) \* 6.27 \* Avg. Vel. (m/s) \* \* \* 6.27 \* \*  
 \* Max Chl Dpth (m) \* 1.52 \* Hydr. Depth (m) \* \* \* 1.00 \* \*  
 \* Conv. Total (m3/s) \* 261.7 \* Conv. (m3/s) \* \* \* 261.7 \* \*  
 \* Length Wtd. (m) \* 4.71 \* Wetted Per. (m) \* \* \* 11.06 \* \*  
 \* Min Ch El (m) \* 335.70 \* Shear (N/sq m) \* \* \* 372.07 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* \* 2334.33 \* \*  
 \* Frctn Loss (m) \* 0.24 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.05 \* 0.02 \*  
 \* C & E Loss (m) \* 0.08 \* Cum SA (1000 m2) \* 38.54 \* 32.59 \* 58.16 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 44 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 339.74 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 2.16 \* Wt. n-Val \* \* \* 0.030 \* \*  
 \* W.S. Elev (m) \* 337.58 \* Reach Len. (m) \* 3.27 \* 4.71 \* 5.40 \*  
 \* Crit W.S. (m) \* 338.22 \* Flow Area (m2) \* \* \* 12.25 \* \*  
 \* E.G. Slope (m/m) \* 0.036142 \* Area (m2) \* \* \* 12.25 \* \*  
 \* Q Total (m3/s) \* 79.74 \* Flow (m3/s) \* \* \* 79.74 \* \*  
 \* Top Width (m) \* 9.08 \* Top Width (m) \* \* \* 9.08 \* \*  
 \* Vel Total (m/s) \* 6.51 \* Avg. Vel. (m/s) \* \* \* 6.51 \* \*  
 \* Max Chl Dpth (m) \* 1.88 \* Hydr. Depth (m) \* \* \* 1.35 \* \*  
 \* Conv. Total (m3/s) \* 419.4 \* Conv. (m3/s) \* \* \* 419.4 \* \*  
 \* Length Wtd. (m) \* 4.71 \* Wetted Per. (m) \* \* \* 11.78 \* \*  
 \* Min Ch El (m) \* 335.70 \* Shear (N/sq m) \* \* \* 368.76 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* \* 2399.41 \* \*  
 \* Frctn Loss (m) \* 0.21 \* Cum Volume (cu m x 10^ \* 0.02 \* 0.05 \* 0.03 \*  
 \* C & E Loss (m) \* 0.08 \* Cum SA (1000 m2) \* 46.12 \* 32.79 \* 69.35 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 44 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 340.14 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 2.10 \* Wt. n-Val \* \* \* 0.030 \* \*  
 \* W.S. Elev (m) \* 338.04 \* Reach Len. (m) \* 3.27 \* 4.71 \* 5.40 \*  
 \* Crit W.S. (m) \* 338.63 \* Flow Area (m2) \* \* \* 16.42 \* \*  
 \* E.G. Slope (m/m) \* 0.026313 \* Area (m2) \* \* \* 16.42 \* \*  
 \* Q Total (m3/s) \* 105.40 \* Flow (m3/s) \* \* \* 105.40 \* \*  
 \* Top Width (m) \* 9.12 \* Top Width (m) \* \* \* 9.12 \* \*  
 \* Vel Total (m/s) \* 6.42 \* Avg. Vel. (m/s) \* \* \* 6.42 \* \*  
 \* Max Chl Dpth (m) \* 2.34 \* Hydr. Depth (m) \* \* \* 1.80 \* \*  
 \* Conv. Total (m3/s) \* 649.8 \* Conv. (m3/s) \* \* \* 649.8 \* \*  
 \* Length Wtd. (m) \* 4.71 \* Wetted Per. (m) \* \* \* 12.70 \* \*  
 \* Min Ch El (m) \* 335.70 \* Shear (N/sq m) \* \* \* 333.75 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* \* 2142.20 \* \*  
 \* Frctn Loss (m) \* 0.18 \* Cum Volume (cu m x 10^4) \* 0.03 \* 0.06 \* 0.04 \*  
 \* C & E Loss (m) \* 0.06 \* Cum SA (1000 m2) \* 57.80 \* 32.89 \* 86.73 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 45  
 Description:

Station Elevation Data, num = 25  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0340.00511.225856 338.8566.052726338.752410.99188338.398812.03811337.9843  
 13.53867338.206815.48661338.197617.72474338.112319.33466338.1214 20.2184338.4933  
 25.72993338.831627.11687339.099827.70588339.115130.24044 339.11230.87409339.1242  
 31.99921338.770633.07331337.9538 33.1014336.438933.77057 336.50934.89491336.0884  
 35.4119335.975635.94015336.1463 38.0866336.847439.59317338.249442.14257 339.743

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .0433.07331 .0339.59317 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 33.0733 39.5932 1.63 9.51 16.23 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 45 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 339.55 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.22 \* Wt. n-Val \* \* \* 0.040 \* \* 0.030 \* 0.060 \*  
 \* W.S. Elev (m) \* 338.33 \* Reach Len. (m) \* 1.63 \* 9.51 \* 16.23 \*  
 \* Crit W.S. (m) \* 338.76 \* Flow Area (m2) \* 1.63 \* 11.05 \* 0.01 \*  
 \* E.G. Slope (m/m) \* 0.016328 \* Area (m2) \* 1.63 \* 11.05 \* 0.01 \*  
 \* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* 1.62 \* 54.87 \* 0.00 \*  
 \* Top Width (m) \* 15.82 \* Top Width (m) \* \* 9.16 \* 6.52 \* 0.14 \*  
 \* Vel Total (m/s) \* 4.45 \* Avg. Vel. (m/s) \* \* 0.99 \* 4.96 \* 0.23 \*  
 \* Max Chl Dpth (m) \* 2.35 \* Hydr. Depth (m) \* \* 0.18 \* 1.70 \* 0.04 \*  
 \* Conv. Total (m3/s) \* 442.1 \* Conv. (m3/s) \* \* 12.7 \* 429.4 \* 0.0 \*  
 \* Length Wtd. (m) \* 9.40 \* Wetted Per. (m) \* \* 9.41 \* 8.79 \* 0.16 \*  
 \* Min Ch El (m) \* 335.98 \* Shear (N/sq m) \* \* 27.72 \* 201.42 \* 5.55 \*  
 \* Alpha \* 1.21 \* Stream Power (N/m s) \* \* 27.53 \* 999.70 \* 1.26 \*  
 \* Frctn Loss (m) \* 0.85 \* Cum Volume (cu m x 10^4) \* \* 0.01 \* 0.05 \* 0.02 \*  
 \* C & E Loss (m) \* 0.01 \* Cum SA (1000 m2) \* \* 38.55 \* 32.67 \* 58.16 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 45 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 340.02 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.37 \* Wt. n-Val \* \* \* 0.040 \* \* 0.030 \* 0.060 \*  
 \* W.S. Elev (m) \* 338.65 \* Reach Len. (m) \* 1.63 \* 9.51 \* 16.23 \*  
 \* Crit W.S. (m) \* 339.21 \* Flow Area (m2) \* 5.40 \* 13.14 \* 0.14 \*  
 \* E.G. Slope (m/m) \* 0.015663 \* Area (m2) \* 5.40 \* 13.14 \* 0.14 \*  
 \* Q Total (m3/s) \* 79.74 \* Flow (m3/s) \* \* 8.00 \* 71.65 \* 0.09 \*  
 \* Top Width (m) \* 23.38 \* Top Width (m) \* \* 16.18 \* 6.52 \* 0.68 \*  
 \* Vel Total (m/s) \* 4.27 \* Avg. Vel. (m/s) \* \* 1.48 \* 5.45 \* 0.65 \*  
 \* Max Chl Dpth (m) \* 2.67 \* Hydr. Depth (m) \* \* 0.33 \* 2.02 \* 0.20 \*  
 \* Conv. Total (m3/s) \* 637.2 \* Conv. (m3/s) \* \* 63.9 \* 572.5 \* 0.7 \*  
 \* Length Wtd. (m) \* 9.12 \* Wetted Per. (m) \* \* 16.60 \* 8.79 \* 0.79 \*  
 \* Min Ch El (m) \* 335.98 \* Shear (N/sq m) \* \* 49.97 \* 229.61 \* 26.49 \*  
 \* Alpha \* 1.48 \* Stream Power (N/m s) \* \* 74.01 \* 1252.30 \* 17.12 \*  
 \* Frctn Loss (m) \* 0.90 \* Cum Volume (cu m x 10^4) \* \* 0.02 \* 0.05 \* 0.03 \*  
 \* C & E Loss (m) \* 0.02 \* Cum SA (1000 m2) \* \* 46.14 \* 32.86 \* 69.36 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 45 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 340.37 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.47 \* Wt. n-Val \* \* \* 0.040 \* \* 0.030 \* 0.060 \*  
 \* W.S. Elev (m) \* 338.90 \* Reach Len. (m) \* 1.63 \* 9.51 \* 16.23 \*  
 \* Crit W.S. (m) \* 339.41 \* Flow Area (m2) \* \* 10.80 \* 14.78 \* 0.36 \*  
 \* E.G. Slope (m/m) \* 0.015489 \* Area (m2) \* \* 10.80 \* 14.78 \* 0.36 \*  
 \* Q Total (m3/s) \* 105.40 \* Flow (m3/s) \* \* 18.31 \* 86.77 \* 0.32 \*  
 \* Top Width (m) \* 34.04 \* Top Width (m) \* \* 26.41 \* 6.52 \* 1.11 \*  
 \* Vel Total (m/s) \* 4.06 \* Avg. Vel. (m/s) \* \* 1.69 \* 5.87 \* 0.89 \*  
 \* Max Chl Dpth (m) \* 2.93 \* Hydr. Depth (m) \* \* 0.41 \* 2.27 \* 0.33 \*  
 \* Conv. Total (m3/s) \* 846.9 \* Conv. (m3/s) \* \* 147.1 \* 697.2 \* 2.6 \*  
 \* Length Wtd. (m) \* 8.84 \* Wetted Per. (m) \* \* 26.93 \* 8.79 \* 1.29 \*  
 \* Min Ch El (m) \* 335.98 \* Shear (N/sq m) \* \* 60.95 \* 255.55 \* 42.77 \*  
 \* Alpha \* 1.75 \* Stream Power (N/m s) \* \* 103.27 \* 1499.65 \* 38.11 \*  
 \* Frctn Loss (m) \* 0.90 \* Cum Volume (cu m x 10^4) \* \* 0.03 \* 0.06 \* 0.04 \*  
 \* C & E Loss (m) \* 0.05 \* Cum SA (1000 m2) \* \* 57.82 \* 32.97 \* 86.73 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 46  
 Description:

Station Elevation Data, num = 25  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*

0341.29132.294907339.66982.614225339.37112.636552339.33453.306583339.3498  
4.226398339.88015.146685339.63938.960354339.46569.356554339.471712.81463 339.426  
13.96301339.4382 14.9376339.480815.96772339.529617.66488 339.36520.51152339.1852  
24.06262338.9474 28.4351338.779829.74604338.359229.97722338.045230.26913 337.838  
33.08158337.490534.51744337.645935.67032337.828836.23384339.3467 38.7092340.6086

Mannings n Values, num = 3  
Sta. Value Sta. Value Sta. Value  
\*\*\*\*\*  
0 .04 28.4351 .0336.23384 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
28.4351 36.2338 52.73 51.57 51.26 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 46 Profile # Storm Event  
\*\*\*\*\*  
\* E.G. Elev (m) \* 340.41 \* Element \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m) \* 1.11 \* Wt. n-Val \* 0.040 \* 0.030 \* 0.030 \*  
\* W.S. Elev (m) \* 339.30 \* Reach Len. (m) \* 52.73 \* 51.57 \* 51.26 \*  
\* Crit W.S. (m) \* 339.76 \* Flow Area (m2) \* 2.81 \* 10.87 \* \*  
\* E.G. Slope (m/m) \* 0.016642 \* Area (m2) \* 2.81 \* 10.87 \* \*  
\* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* 3.97 \* 52.52 \* \*  
\* Top Width (m) \* 17.47 \* Top Width (m) \* 9.69 \* 7.78 \* \*  
\* Vel Total (m/s) \* 4.13 \* Avg. Vel. (m/s) \* 1.41 \* 4.83 \* \*  
\* Max Chl Dpth (m) \* 1.81 \* Hydr. Depth (m) \* 0.29 \* 1.40 \* \*  
\* Conv. Total (m3/s) \* 437.9 \* Conv. (m3/s) \* 30.8 \* 407.1 \* \*  
\* Length Wtd. (m) \* 51.63 \* Wetted Per. (m) \* 9.71 \* 9.14 \* \*  
\* Min Ch El (m) \* 337.49 \* Shear (N/sq m) \* 47.28 \* 194.26 \* \*  
\* Alpha \* 1.28 \* Stream Power (N/m s) \* 66.77 \* 938.19 \* \*  
\* Frctn Loss (m) \* 3.43 \* Cum Volume (cu m x 10^4) \* 0.01 \* 0.05 \* 0.02 \*  
\* C & E Loss (m) \* 0.16 \* Cum SA (1000 m2) \* 39.04 \* 33.04 \* 58.16 \*  
\*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 46 Profile # 25 yr Storm  
\*\*\*\*\*  
\* E.G. Elev (m) \* 340.94 \* Element \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m) \* 1.45 \* Wt. n-Val \* 0.040 \* 0.030 \* 0.060 \*  
\* W.S. Elev (m) \* 339.49 \* Reach Len. (m) \* 52.73 \* 51.57 \* 51.26 \*  
\* Crit W.S. (m) \* 340.00 \* Flow Area (m2) \* 5.35 \* 12.39 \* 0.02 \*  
\* E.G. Slope (m/m) \* 0.019292 \* Area (m2) \* 5.35 \* 12.39 \* 0.02 \*  
\* Q Total (m3/s) \* 79.74 \* Flow (m3/s) \* 9.70 \* 70.03 \* 0.01 \*  
\* Top Width (m) \* 28.00 \* Top Width (m) \* 19.92 \* 7.80 \* 0.28 \*  
\* Vel Total (m/s) \* 4.49 \* Avg. Vel. (m/s) \* 1.81 \* 5.65 \* 0.37 \*  
\* Max Chl Dpth (m) \* 2.00 \* Hydr. Depth (m) \* 0.27 \* 1.59 \* 0.07 \*  
\* Conv. Total (m3/s) \* 574.1 \* Conv. (m3/s) \* 69.8 \* 504.2 \* 0.1 \*  
\* Length Wtd. (m) \* 51.70 \* Wetted Per. (m) \* 20.05 \* 9.19 \* 0.32 \*  
\* Min Ch El (m) \* 337.49 \* Shear (N/sq m) \* 50.48 \* 255.15 \* 12.21 \*  
\* Alpha \* 1.41 \* Stream Power (N/m s) \* 91.51 \* 1441.96 \* 4.55 \*  
\* Frctn Loss (m) \* 3.47 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.05 \* 0.03 \*  
\* C & E Loss (m) \* 0.13 \* Cum SA (1000 m2) \* 47.09 \* 33.23 \* 69.38 \*  
\*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 46 Profile # 100 yr Storm  
\*\*\*\*\*  
\* E.G. Elev (m) \* 341.32 \* Element \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m) \* 1.64 \* Wt. n-Val \* 0.040 \* 0.030 \* 0.060 \*  
\* W.S. Elev (m) \* 339.69 \* Reach Len. (m) \* 52.73 \* 51.57 \* 51.26 \*  
\* Crit W.S. (m) \* 340.18 \* Flow Area (m2) \* 9.96 \* 13.93 \* 0.12 \*  
\* E.G. Slope (m/m) \* 0.019836 \* Area (m2) \* 9.96 \* 13.93 \* 0.12 \*  
\* Q Total (m3/s) \* 105.40 \* Flow (m3/s) \* 18.98 \* 86.34 \* 0.08 \*  
\* Top Width (m) \* 33.58 \* Top Width (m) \* 25.11 \* 7.80 \* 0.67 \*  
\* Vel Total (m/s) \* 4.39 \* Avg. Vel. (m/s) \* 1.91 \* 6.20 \* 0.67 \*  
\* Max Chl Dpth (m) \* 2.20 \* Hydr. Depth (m) \* 0.40 \* 1.79 \* 0.17 \*  
\* Conv. Total (m3/s) \* 748.4 \* Conv. (m3/s) \* 134.8 \* 613.0 \* 0.5 \*  
\* Length Wtd. (m) \* 51.77 \* Wetted Per. (m) \* 25.38 \* 9.19 \* 0.75 \*  
\* Min Ch El (m) \* 337.49 \* Shear (N/sq m) \* 76.34 \* 294.97 \* 29.68 \*  
\* Alpha \* 1.67 \* Stream Power (N/m s) \* 145.51 \* 1827.78 \* 19.90 \*  
\* Frctn Loss (m) \* 3.40 \* Cum Volume (cu m x 10^4) \* 0.03 \* 0.06 \* 0.04 \*  
\* C & E Loss (m) \* 0.10 \* Cum SA (1000 m2) \* 59.18 \* 33.33 \* 86.78 \*  
\*\*\*\*\*

CROSS SECTION INPUT River Station: 47  
Description:

Station Elevation Data, num = 32  
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
\*\*\*\*\*  
0 344.5741.055376 344.0012.015688343.18422.596491343.04093.684406343.1323  
4.723643343.37316.059713343.05616.317574342.87026.782742342.67827.408627342.7757  
11.64304342.885513.21462342.781815.30584 342.53818.71478342.626423.40005 342.538  
24.02885341.519924.57098341.547425.06489341.986326.08238342.175327.28095341.4041  
28.14519341.099329.01384340.971331.83674341.105434.01746341.428534.43439341.9497  
36.54967342.385639.73784342.428242.75641343.010446.13869342.760548.05922344.1412  
48.69889343.464650.88516344.0559

Mannings n Values, num = 3  
Sta. Value Sta. Value Sta. Value  
\*\*\*\*\*  
0 .0426.08238 .0334.43439 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
26.0824 34.4344 157.29 158.73 158.47 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 47 Profile # Storm Event  
\*\*\*\*\*  
\* E.G. Elev (m) \* 343.99 \* Element \* Left OB \* Channel \* Right OB \*  
\* Vel Head (m) \* 1.63 \* Wt. n-Val \* 0.040 \* 0.030 \* 0.060 \*  
\* W.S. Elev (m) \* 342.36 \* Reach Len. (m) \* 157.29 \* 158.73 \* 158.47 \*  
\* Crit W.S. (m) \* 343.00 \* Flow Area (m2) \* 1.24 \* 9.18 \* 0.41 \*  
\* E.G. Slope (m/m) \* 0.029211 \* Area (m2) \* 1.24 \* 9.18 \* 0.41 \*  
\* Q Total (m3/s) \* 56.49 \* Flow (m3/s) \* 2.80 \* 53.29 \* 0.40 \*  
\* Top Width (m) \* 12.91 \* Top Width (m) \* 2.57 \* 8.35 \* 1.99 \*  
\*\*\*\*\*

```

* Vel Total (m/s) * 5.22 * Avg. Vel. (m/s) * 2.26 * 5.81 * 0.98 *
* Max Chl Dpth (m) * 1.39 * Hydr. Depth (m) * 0.48 * 1.10 * 0.20 *
* Conv. Total (m3/s) * 330.5 * Conv. (m3/s) * 16.4 * 311.8 * 2.3 *
* Length Wtd. (m) * 158.64 * Wetted Per. (m) * 3.22 * 8.92 * 2.03 *
* Min Ch El (m) * 340.97 * Shear (N/sq m) * 110.18 * 294.80 * 57.41 *
* Alpha * 1.18 * Stream Power (N/m s) * 248.98 * 1711.94 * 56.00 *
* Frctn Loss (m) * 2.08 * Cum Volume (cu m x 10^ * 0.01 * 0.05 * 0.02 *
* C & E Loss (m) * 0.10 * Cum SA (1000 m2) * 40.01 * 34.32 * 58.32 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 47 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 344.54 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.88 * Wt. n-Val * 0.040 * 0.030 * 0.060 *
* W.S. Elev (m) * 342.66 * Reach Len. (m) * 157.29 * 158.73 * 158.47 *
* Crit W.S. (m) * 343.25 * Flow Area (m2) * 2.69 * 11.66 * 1.97 *
* E.G. Slope (m/m) * 0.025046 * Area (m2) * 2.69 * 11.66 * 1.97 *
* Q Total (m3/s) * 79.74 * Flow (m3/s) * 3.82 * 73.60 * 2.32 *
* Top Width (m) * 26.64 * Top Width (m) * 11.80 * 8.35 * 6.49 *
* Vel Total (m/s) * 4.88 * Avg. Vel. (m/s) * 1.42 * 6.31 * 1.18 *
* Max Chl Dpth (m) * 1.69 * Hydr. Depth (m) * 0.23 * 1.40 * 0.30 *
* Conv. Total (m3/s) * 503.9 * Conv. (m3/s) * 24.1 * 465.0 * 14.7 *
* Length Wtd. (m) * 158.60 * Wetted Per. (m) * 12.56 * 8.92 * 6.55 *
* Min Ch El (m) * 340.97 * Shear (N/sq m) * 52.68 * 321.28 * 73.69 *
* Alpha * 1.55 * Stream Power (N/m s) * 74.69 * 2027.15 * 87.10 *
* Frctn Loss (m) * 1.82 * Cum Volume (cu m x 10^ * 0.02 * 0.06 * 0.03 *
* C & E Loss (m) * 0.12 * Cum SA (1000 m2) * 49.58 * 34.51 * 69.92 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 47 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 344.83 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.96 * Wt. n-Val * 0.040 * 0.030 * 0.060 *
* W.S. Elev (m) * 342.87 * Reach Len. (m) * 157.29 * 158.73 * 158.47 *
* Crit W.S. (m) * 343.47 * Flow Area (m2) * 5.66 * 13.41 * 3.52 *
* E.G. Slope (m/m) * 0.023334 * Area (m2) * 5.66 * 13.41 * 3.52 *
* Q Total (m3/s) * 105.40 * Flow (m3/s) * 10.57 * 89.67 * 5.16 *
* Top Width (m) * 36.23 * Top Width (m) * 18.72 * 8.35 * 9.15 *
* Vel Total (m/s) * 4.66 * Avg. Vel. (m/s) * 1.87 * 6.68 * 1.47 *
* Max Chl Dpth (m) * 1.89 * Hydr. Depth (m) * 0.30 * 1.61 * 0.38 *
* Conv. Total (m3/s) * 690.0 * Conv. (m3/s) * 69.2 * 587.0 * 33.8 *
* Length Wtd. (m) * 158.52 * Wetted Per. (m) * 19.54 * 8.92 * 9.28 *
* Min Ch El (m) * 340.97 * Shear (N/sq m) * 66.33 * 344.22 * 86.90 *
* Alpha * 1.77 * Stream Power (N/m s) * 123.77 * 2300.98 * 127.37 *
* Frctn Loss (m) * 1.75 * Cum Volume (cu m x 10^ * 0.03 * 0.06 * 0.04 *
* C & E Loss (m) * 0.12 * Cum SA (1000 m2) * 62.62 * 34.62 * 87.56 *
*****

```

CROSS SECTION INPUT River Station: 48  
Description: Profile Adjustment

```

Station Elevation Data, num = 26
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0347.76532.235437347.02772.838107346.00976.009318345.94876.855137345.6378
8.41617345.570710.69135345.451912.68138345.247713.68168345.235514.70413345.3604
26.32071345.390934.63051345.741438.36629346.561340.10261346.067641.98867 344.568
44.20047344.519245.08183344.214446.26798344.089447.14128343.946248.52686343.9279
49.04809343.9614 49.1442344.086449.28309344.424750.56946 344.89157.54004346.6589
60.05371348.4785

```

```

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .0641.98867 .03550.56946 .06

```

```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
41.9887 50.5695 97.22 98.59 97.96 0.1 0.3

```

```

CROSS SECTION OUTPUT Riv Sta: 48 Profile # Storm Event
*****
* E.G. Elev (m) * 346.17 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.68 * Wt. n-Val * 0.060 * 0.035 * 0.060 *
* W.S. Elev (m) * 345.49 * Reach Len. (m) * 97.22 * 98.59 * 97.96 *
* Crit W.S. (m) * 345.73 * Flow Area (m2) * 2.70 * 10.29 * 0.70 *
* E.G. Slope (m/m) * 0.014471 * Area (m2) * 2.70 * 10.29 * 0.70 *
* Q Total (m3/s) * 40.78 * Flow (m3/s) * 1.57 * 38.59 * 0.62 *
* Top Width (m) * 30.76 * Top Width (m) * 19.82 * 8.58 * 2.36 *
* Vel Total (m/s) * 2.98 * Avg. Vel. (m/s) * 0.58 * 3.75 * 0.88 *
* Max Chl Dpth (m) * 1.56 * Hydr. Depth (m) * 0.14 * 1.20 * 0.30 *
* Conv. Total (m3/s) * 339.0 * Conv. (m3/s) * 13.1 * 320.8 * 5.1 *
* Length Wtd. (m) * 98.52 * Wetted Per. (m) * 20.16 * 9.02 * 2.43 *
* Min Ch El (m) * 343.93 * Shear (N/sq m) * 18.98 * 161.82 * 41.13 *
* Alpha * 1.50 * Stream Power (N/m s) * 11.06 * 607.01 * 36.11 *
* Frctn Loss (m) * 0.79 * Cum Volume (cu m x 10^ * 0.01 * 0.05 * 0.02 *
* C & E Loss (m) * 0.13 * Cum SA (1000 m2) * 41.10 * 35.15 * 58.53 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 48 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 346.47 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.72 * Wt. n-Val * 0.060 * 0.035 * 0.060 *
* W.S. Elev (m) * 345.75 * Reach Len. (m) * 97.22 * 98.59 * 97.96 *
* Crit W.S. (m) * 345.94 * Flow Area (m2) * 9.34 * 12.54 * 1.46 *
* E.G. Slope (m/m) * 0.013173 * Area (m2) * 9.34 * 12.54 * 1.46 *
* Q Total (m3/s) * 61.02 * Flow (m3/s) * 8.27 * 51.19 * 1.56 *
* Top Width (m) * 41.59 * Top Width (m) * 29.62 * 8.58 * 3.39 *
* Vel Total (m/s) * 2.61 * Avg. Vel. (m/s) * 0.88 * 4.08 * 1.07 *
* Max Chl Dpth (m) * 1.82 * Hydr. Depth (m) * 0.32 * 1.46 * 0.43 *
* Conv. Total (m3/s) * 531.7 * Conv. (m3/s) * 72.0 * 446.0 * 13.6 *
* Length Wtd. (m) * 98.45 * Wetted Per. (m) * 30.08 * 9.02 * 3.50 *
* Min Ch El (m) * 343.93 * Shear (N/sq m) * 40.13 * 179.51 * 53.85 *
* Alpha * 2.07 * Stream Power (N/m s) * 35.51 * 733.03 * 57.49 *

```

\* Frctn Loss (m) \* 0.72 \* Cum Volume (cu m x 10^ \* 0.02 \* 0.06 \* 0.03 \*  
 \* C & E Loss (m) \* 0.15 \* Cum SA (1000 m2) \* 51.59 \* 35.35 \* 70.40 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 48 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 346.69 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.76 \* Wt. n-Val \* 0.060 \* 0.035 \* 0.060 \*  
 \* W.S. Elev (m) \* 345.93 \* Reach Len. (m) \* 97.22 \* 98.59 \* 97.96 \*  
 \* Crit W.S. (m) \* 346.17 \* Flow Area (m2) \* 14.79 \* 14.07 \* 2.13 \*  
 \* E.G. Slope (m/m) \* 0.013054 \* Area (m2) \* 14.79 \* 14.07 \* 2.13 \*  
 \* Q Total (m3/s) \* 81.33 \* Flow (m3/s) \* 16.95 \* 61.81 \* 2.57 \*  
 \* Top Width (m) \* 43.83 \* Top Width (m) \* 31.15 \* 8.58 \* 4.10 \*  
 \* Vel Total (m/s) \* 2.62 \* Avg. Vel. (m/s) \* 1.15 \* 4.39 \* 1.21 \*  
 \* Max Chl Dpth (m) \* 2.00 \* Hydr. Depth (m) \* 0.47 \* 1.64 \* 0.52 \*  
 \* Conv. Total (m3/s) \* 711.8 \* Conv. (m3/s) \* 148.4 \* 541.0 \* 22.5 \*  
 \* Length Wtd. (m) \* 98.36 \* Wetted Per. (m) \* 31.73 \* 9.02 \* 4.23 \*  
 \* Min Ch El (m) \* 343.93 \* Shear (N/sq m) \* 59.69 \* 199.73 \* 64.49 \*  
 \* Alpha \* 2.18 \* Stream Power (N/m s) \* 68.41 \* 877.06 \* 77.76 \*  
 \* Frctn Loss (m) \* 0.68 \* Cum Volume (cu m x 10^ \* 0.03 \* 0.06 \* 0.04 \*  
 \* C & E Loss (m) \* 0.15 \* Cum SA (1000 m2) \* 65.05 \* 35.45 \* 88.21 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 49  
 Description:

Station Elevation Data, num = 24  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0347.51543.826934345.47328.651116345.70799.621317345.4854 11.5771345.5189  
 15.54495345.5342 20.3445345.549421.87333345.576827.14216346.3998 30.0008347.2167  
 31.71486346.994235.54853347.146636.85785346.241336.99716345.226337.32551345.2507  
 38.40166344.848439.55408345.674440.71293346.613250.26722346.3541 57.6856 346.098  
 59.82602345.872561.46389346.399863.20499346.122465.75638346.2596

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .0636.85785 .03540.71293 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 36.8579 40.7129 20.13 26.86 29.61 0.1 0.3

Right Levee Station= 40.7129 Elevation=

CROSS SECTION OUTPUT Riv Sta: 49 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 347.08 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.11 \* Wt. n-Val \* 0.060 \* 0.035 \* 0.060 \*  
 \* W.S. Elev (m) \* 345.98 \* Reach Len. (m) \* 20.13 \* 26.86 \* 29.61 \*  
 \* Crit W.S. (m) \* 346.27 \* Flow Area (m2) \* 8.41 \* 2.16 \* 2.16 \*  
 \* E.G. Slope (m/m) \* 0.127130 \* Area (m2) \* 8.41 \* 2.16 \* 2.16 \*  
 \* Q Total (m3/s) \* 40.78 \* Flow (m3/s) \* 26.52 \* 14.26 \* 2.16 \*  
 \* Top Width (m) \* 24.58 \* Top Width (m) \* 21.55 \* 3.03 \* 2.16 \*  
 \* Vel Total (m/s) \* 3.86 \* Avg. Vel. (m/s) \* 3.15 \* 6.61 \* 2.16 \*  
 \* Max Chl Dpth (m) \* 1.13 \* Hydr. Depth (m) \* 0.39 \* 0.71 \* 0.71 \*  
 \* Conv. Total (m3/s) \* 114.4 \* Conv. (m3/s) \* 74.4 \* 40.0 \* 2.16 \*  
 \* Length Wtd. (m) \* 24.56 \* Wetted Per. (m) \* 21.74 \* 4.13 \* 2.16 \*  
 \* Min Ch El (m) \* 344.85 \* Shear (N/sq m) \* 482.22 \* 651.14 \* 2.16 \*  
 \* Alpha \* 1.46 \* Stream Power (N/m s) \* 1521.22 \* 4301.95 \* 2.16 \*  
 \* Frctn Loss (m) \* 0.46 \* Cum Volume (cu m x 10^ \* 0.01 \* 0.05 \* 0.02 \*  
 \* C & E Loss (m) \* 0.02 \* Cum SA (1000 m2) \* 41.51 \* 35.31 \* 58.57 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 49 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 347.34 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.22 \* Wt. n-Val \* 0.060 \* 0.035 \* 0.060 \*  
 \* W.S. Elev (m) \* 346.12 \* Reach Len. (m) \* 20.13 \* 26.86 \* 29.61 \*  
 \* Crit W.S. (m) \* 346.48 \* Flow Area (m2) \* 11.61 \* 2.61 \* 2.61 \*  
 \* E.G. Slope (m/m) \* 0.122122 \* Area (m2) \* 11.61 \* 2.61 \* 2.61 \*  
 \* Q Total (m3/s) \* 61.02 \* Flow (m3/s) \* 42.90 \* 18.12 \* 2.61 \*  
 \* Top Width (m) \* 25.98 \* Top Width (m) \* 22.74 \* 3.23 \* 2.61 \*  
 \* Vel Total (m/s) \* 4.29 \* Avg. Vel. (m/s) \* 3.69 \* 6.94 \* 2.61 \*  
 \* Max Chl Dpth (m) \* 1.27 \* Hydr. Depth (m) \* 0.51 \* 0.81 \* 0.81 \*  
 \* Conv. Total (m3/s) \* 174.6 \* Conv. (m3/s) \* 122.8 \* 51.8 \* 2.61 \*  
 \* Length Wtd. (m) \* 24.07 \* Wetted Per. (m) \* 22.98 \* 4.51 \* 2.61 \*  
 \* Min Ch El (m) \* 344.85 \* Shear (N/sq m) \* 605.13 \* 693.71 \* 2.61 \*  
 \* Alpha \* 1.30 \* Stream Power (N/m s) \* 2235.85 \* 4812.98 \* 2.61 \*  
 \* Frctn Loss (m) \* 0.42 \* Cum Volume (cu m x 10^ \* 0.02 \* 0.06 \* 0.03 \*  
 \* C & E Loss (m) \* 0.04 \* Cum SA (1000 m2) \* 52.12 \* 35.51 \* 70.45 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 49 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 347.51 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.24 \* Wt. n-Val \* 0.060 \* 0.035 \* 0.060 \*  
 \* W.S. Elev (m) \* 346.27 \* Reach Len. (m) \* 20.13 \* 26.86 \* 29.61 \*  
 \* Crit W.S. (m) \* 346.64 \* Flow Area (m2) \* 15.05 \* 3.10 \* 3.10 \*  
 \* E.G. Slope (m/m) \* 0.107430 \* Area (m2) \* 15.05 \* 3.10 \* 3.10 \*  
 \* Q Total (m3/s) \* 81.33 \* Flow (m3/s) \* 59.81 \* 21.52 \* 3.10 \*  
 \* Top Width (m) \* 27.43 \* Top Width (m) \* 24.00 \* 3.43 \* 3.10 \*  
 \* Vel Total (m/s) \* 4.48 \* Avg. Vel. (m/s) \* 3.97 \* 6.94 \* 3.10 \*  
 \* Max Chl Dpth (m) \* 1.42 \* Hydr. Depth (m) \* 0.63 \* 0.90 \* 0.90 \*  
 \* Conv. Total (m3/s) \* 248.1 \* Conv. (m3/s) \* 182.5 \* 65.7 \* 3.10 \*  
 \* Length Wtd. (m) \* 23.72 \* Wetted Per. (m) \* 24.29 \* 4.86 \* 3.10 \*  
 \* Min Ch El (m) \* 344.85 \* Shear (N/sq m) \* 652.60 \* 671.88 \* 3.10 \*  
 \* Alpha \* 1.21 \* Stream Power (N/m s) \* 2593.77 \* 4661.74 \* 3.10 \*  
 \* Frctn Loss (m) \* 0.38 \* Cum Volume (cu m x 10^ \* 0.03 \* 0.06 \* 0.04 \*  
 \* C & E Loss (m) \* 0.05 \* Cum SA (1000 m2) \* 65.60 \* 35.61 \* 88.27 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 50  
 Description:

Station Elevation Data, num = 29  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0 347.1775.197321347.19237.389427347.66478.462211 347.61910.33886346.5827  
 10.5199346.168211.10708346.201711.59954346.686312.40853346.7259 13.0657346.4425  
 16.99812346.131620.95572346.253528.09454346.725931.15785346.780832.61022 346.857  
 33.10288345.198933.49102344.820935.12773344.805735.92172345.092236.45767345.2659  
 37.11786346.003638.31157 346.91846.39068347.018556.35871347.061261.39898347.0094  
 68.92553347.262473.41544347.463674.29935347.478878.98923347.3691

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .0632.61022 .03538.31157 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 32.6102 38.3116 9.49 9.94 9.3 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 50 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 347.57 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.86 \* Wt. n-Val \* 0.060 \* 0.035 \* 9.30 \*  
 \* W.S. Elev (m) \* 346.71 \* Reach Len. (m) \* 9.49 \* 9.94 \*  
 \* Crit W.S. (m) \* 347.04 \* Flow Area (m2) \* 5.96 \* 7.38 \*  
 \* E.G. Slope (m/m) \* 0.024645 \* Area (m2) \* 5.96 \* 7.38 \*  
 \* Q Total (m3/s) \* 40.78 \* Flow (m3/s) \* 7.52 \* 33.26 \*  
 \* Top Width (m) \* 22.93 \* Top Width (m) \* 17.54 \* 5.39 \*  
 \* Vel Total (m/s) \* 3.06 \* Avg. Vel. (m/s) \* 1.26 \* 4.51 \*  
 \* Max Chl Dpth (m) \* 1.91 \* Hydr. Depth (m) \* 0.34 \* 1.37 \*  
 \* Conv. Total (m3/s) \* 259.8 \* Conv. (m3/s) \* 47.9 \* 211.9 \*  
 \* Length Wtd. (m) \* 9.75 \* Wetted Per. (m) \* 18.13 \* 7.32 \*  
 \* Min Ch El (m) \* 344.81 \* Shear (N/sq m) \* 79.42 \* 243.48 \*  
 \* Alpha \* 1.80 \* Stream Power (N/m s) \* 100.27 \* 1097.48 \*  
 \* Frctn Loss (m) \* 0.72 \* Cum Volume (cu m x 10^6) \* 0.01 \* 0.05 \* 0.02 \*  
 \* C & E Loss (m) \* 0.01 \* Cum SA (1000 m2) \* 41.70 \* 35.35 \* 58.57 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 50 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 347.79 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.79 \* Wt. n-Val \* 0.060 \* 0.035 \* 0.060 \*  
 \* W.S. Elev (m) \* 347.00 \* Reach Len. (m) \* 9.49 \* 9.94 \* 9.30 \*  
 \* Crit W.S. (m) \* 347.29 \* Flow Area (m2) \* 12.18 \* 8.98 \* 0.27 \*  
 \* E.G. Slope (m/m) \* 0.021917 \* Area (m2) \* 12.18 \* 8.98 \* 0.27 \*  
 \* Q Total (m3/s) \* 61.02 \* Flow (m3/s) \* 19.28 \* 41.66 \* 0.08 \*  
 \* Top Width (m) \* 35.26 \* Top Width (m) \* 23.03 \* 5.70 \* 6.54 \*  
 \* Vel Total (m/s) \* 2.85 \* Avg. Vel. (m/s) \* 1.58 \* 4.64 \* 0.29 \*  
 \* Max Chl Dpth (m) \* 2.19 \* Hydr. Depth (m) \* 0.53 \* 1.57 \* 0.04 \*  
 \* Conv. Total (m3/s) \* 412.2 \* Conv. (m3/s) \* 130.3 \* 281.4 \* 0.5 \*  
 \* Length Wtd. (m) \* 9.71 \* Wetted Per. (m) \* 23.70 \* 7.81 \* 6.54 \*  
 \* Min Ch El (m) \* 344.81 \* Shear (N/sq m) \* 110.48 \* 247.04 \* 8.74 \*  
 \* Alpha \* 1.91 \* Stream Power (N/m s) \* 174.91 \* 1146.59 \* 2.55 \*  
 \* Frctn Loss (m) \* 0.72 \* Cum Volume (cu m x 10^6) \* 0.02 \* 0.06 \* 0.03 \*  
 \* C & E Loss (m) \* 0.02 \* Cum SA (1000 m2) \* 52.34 \* 35.55 \* 70.48 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 50 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 347.94 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.76 \* Wt. n-Val \* 0.060 \* 0.035 \* 0.060 \*  
 \* W.S. Elev (m) \* 347.18 \* Reach Len. (m) \* 9.49 \* 9.94 \* 9.30 \*  
 \* Crit W.S. (m) \* 347.43 \* Flow Area (m2) \* 16.42 \* 10.02 \* 4.32 \*  
 \* E.G. Slope (m/m) \* 0.020329 \* Area (m2) \* 16.42 \* 10.02 \* 4.32 \*  
 \* Q Total (m3/s) \* 81.33 \* Flow (m3/s) \* 30.22 \* 48.17 \* 2.94 \*  
 \* Top Width (m) \* 58.94 \* Top Width (m) \* 25.02 \* 5.70 \* 28.22 \*  
 \* Vel Total (m/s) \* 2.64 \* Avg. Vel. (m/s) \* 1.84 \* 4.81 \* 0.68 \*  
 \* Max Chl Dpth (m) \* 2.38 \* Hydr. Depth (m) \* 0.66 \* 1.76 \* 0.15 \*  
 \* Conv. Total (m3/s) \* 570.4 \* Conv. (m3/s) \* 211.9 \* 337.9 \* 20.6 \*  
 \* Length Wtd. (m) \* 9.68 \* Wetted Per. (m) \* 25.74 \* 7.81 \* 28.22 \*  
 \* Min Ch El (m) \* 344.81 \* Shear (N/sq m) \* 127.17 \* 255.72 \* 30.54 \*  
 \* Alpha \* 2.14 \* Stream Power (N/m s) \* 234.04 \* 1229.82 \* 20.78 \*  
 \* Frctn Loss (m) \* 0.72 \* Cum Volume (cu m x 10^6) \* 0.03 \* 0.06 \* 0.04 \*  
 \* C & E Loss (m) \* 0.06 \* Cum SA (1000 m2) \* 65.84 \* 35.66 \* 88.40 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 51  
 Description:

Station Elevation Data, num = 22  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0348.07625.470103347.612911.17152347.676913.37949347.320314.02299346.4486  
 14.96181346.369315.44073346.195616.43967 346.03416.93529346.0371 17.5996346.2169  
 17.99261346.2809 18.7112347.515422.31793347.518427.88682 347.36633.20605347.2929  
 41.29642347.094742.96621347.091745.40011347.378246.89317347.506247.19788347.5001  
 50.12898347.384353.99074347.1191

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .0613.37949 .035 18.7112 .04

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 13.3795 18.7112 34.01 29.02 22.03 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 51 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 348.30 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.75 \* Wt. n-Val \* 0.060 \* 0.035 \* 0.040 \*  
 \* W.S. Elev (m) \* 347.56 \* Reach Len. (m) \* 34.01 \* 29.02 \* 22.03 \*  
 \* Crit W.S. (m) \* 347.77 \* Flow Area (m2) \* 0.13 \* 6.26 \* 8.24 \*  
 \*\*\*\*\*

* E.G. Slope (m/m)	* 0.026332	* Area (m2)	* 0.13	* 6.26	* 8.24
* Q Total (m3/s)	* 40.78	* Flow (m3/s)	* 0.09	* 28.14	* 12.56
* Top Width (m)	* 41.72	* Top Width (m)	* 1.11	* 5.33	* 35.28
* Vel Total (m/s)	* 2.79	* Avg. Vel. (m/s)	* 0.64	* 4.49	* 1.52
* Max Chl Dpth (m)	* 1.52	* Hydr. Depth (m)	* 0.12	* 1.17	* 0.23
* Conv. Total (m3/s)	* 251.3	* Conv. (m3/s)	* 0.5	* 173.4	* 77.4
* Length Wtd. (m)	* 28.41	* Wetted Per. (m)	* 1.13	* 6.56	* 35.76
* Min Ch El (m)	* 346.03	* Shear (N/sq m)	* 30.04	* 246.51	* 59.49
* Alpha	* 1.89	* Stream Power (N/m s)	* 19.36	* 1108.07	* 90.69
* Frctn Loss (m)	* 3.91	* Cum Volume (cu m x 10^4)	* 0.01	* 0.05	* 0.02
* C & E Loss (m)	* 0.02	* Cum SA (1000 m2)	* 42.02	* 35.51	* 58.96

CROSS SECTION OUTPUT Riv Sta: 51 Profile # 25 yr Storm

* E.G. Elev (m)	* 348.53	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.86	* Wt. n-Val	* 0.060	* 0.035	* 0.040
* W.S. Elev (m)	* 347.67	* Reach Len. (m)	* 34.01	* 29.02	* 22.03
* Crit W.S. (m)	* 347.91	* Flow Area (m2)	* 0.45	* 6.85	* 12.13
* E.G. Slope (m/m)	* 0.030346	* Area (m2)	* 0.45	* 6.85	* 12.13
* Q Total (m3/s)	* 61.02	* Flow (m3/s)	* 0.30	* 35.08	* 25.64
* Top Width (m)	* 48.32	* Top Width (m)	* 7.71	* 5.33	* 35.28
* Vel Total (m/s)	* 3.14	* Avg. Vel. (m/s)	* 0.66	* 5.12	* 2.11
* Max Chl Dpth (m)	* 1.63	* Hydr. Depth (m)	* 0.06	* 1.28	* 0.34
* Conv. Total (m3/s)	* 350.3	* Conv. (m3/s)	* 1.7	* 201.4	* 147.2
* Length Wtd. (m)	* 28.35	* Wetted Per. (m)	* 7.75	* 6.56	* 35.87
* Min Ch El (m)	* 346.03	* Shear (N/sq m)	* 17.35	* 310.79	* 100.64
* Alpha	* 1.72	* Stream Power (N/m s)	* 11.41	* 1592.22	* 212.74
* Frctn Loss (m)	* 4.17	* Cum Volume (cu m x 10^4)	* 0.02	* 0.06	* 0.03
* C & E Loss (m)	* 0.07	* Cum SA (1000 m2)	* 52.86	* 35.71	* 70.94

CROSS SECTION OUTPUT Riv Sta: 51 Profile # 100 yr Storm

* E.G. Elev (m)	* 348.72	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.96	* Wt. n-Val	* 0.060	* 0.035	* 0.040
* W.S. Elev (m)	* 347.76	* Reach Len. (m)	* 34.01	* 29.02	* 22.03
* Crit W.S. (m)	* 348.04	* Flow Area (m2)	* 1.28	* 7.33	* 15.34
* E.G. Slope (m/m)	* 0.032873	* Area (m2)	* 1.28	* 7.33	* 15.34
* Q Total (m3/s)	* 81.33	* Flow (m3/s)	* 1.00	* 40.93	* 39.40
* Top Width (m)	* 50.25	* Top Width (m)	* 9.64	* 5.33	* 35.28
* Vel Total (m/s)	* 3.40	* Avg. Vel. (m/s)	* 0.78	* 5.58	* 2.57
* Max Chl Dpth (m)	* 1.73	* Hydr. Depth (m)	* 0.13	* 1.38	* 0.43
* Conv. Total (m3/s)	* 448.6	* Conv. (m3/s)	* 5.5	* 225.7	* 217.3
* Length Wtd. (m)	* 28.16	* Wetted Per. (m)	* 9.69	* 6.56	* 35.96
* Min Ch El (m)	* 346.03	* Shear (N/sq m)	* 42.50	* 360.52	* 137.53
* Alpha	* 1.64	* Stream Power (N/m s)	* 33.27	* 2012.11	* 353.26
* Frctn Loss (m)	* 4.37	* Cum Volume (cu m x 10^4)	* 0.03	* 0.06	* 0.04
* C & E Loss (m)	* 0.10	* Cum SA (1000 m2)	* 66.43	* 35.82	* 89.10

CROSS SECTION INPUT River Station: 52  
Description:

Station Elevation Data, num = 16

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.														
0352.9865	3.61	351.48	4.65587350	74936.580751350	69447.951014350	5542	9.177121	350.28311	28406350.258613	57553350.1763	15.79	352.01	17.96	352.08	20.90711352	148325.24596351	779527.12298351	599732.16773351	8192	36.88	352.1	39.47	353.43

Mannings n Values, num = 5

Sta.	Value	Sta.	Value	Sta.	Value	Sta.	Value		
0	.06	3.61	.035	15.79	.06	17.96	.04	36.88	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

3.61	15.79	152.16	153.27	155.72	0.1	0.3
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CROSS SECTION OUTPUT Riv Sta: 52 Profile # Storm Event

* E.G. Elev (m)	* 352.24	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.81	* Wt. n-Val	* 0.060	* 0.035	* 0.040
* W.S. Elev (m)	* 351.43	* Reach Len. (m)	* 152.16	* 153.27	* 155.72
* Crit W.S. (m)	* 351.64	* Flow Area (m2)	* 0.05	* 13.21	* 0.13
* E.G. Slope (m/m)	* 0.024438	* Area (m2)	* 0.05	* 13.21	* 0.13
* Q Total (m3/s)	* 40.78	* Flow (m3/s)	* 0.03	* 60.93	* 0.06
* Top Width (m)	* 11.41	* Top Width (m)	* 0.05	* 11.41	* 0.13
* Vel Total (m/s)	* 3.99	* Avg. Vel. (m/s)	* 0.05	* 3.99	* 0.13
* Max Chl Dpth (m)	* 1.26	* Hydr. Depth (m)	* 0.05	* 0.90	* 0.04
* Conv. Total (m3/s)	* 260.9	* Conv. (m3/s)	* 0.2	* 389.3	* 0.4
* Length Wtd. (m)	* 153.64	* Wetted Per. (m)	* 0.05	* 12.61	* 2.95
* Min Ch El (m)	* 350.18	* Shear (N/sq m)	* 0.05	* 202.23	* 10.57
* Alpha	* 1.00	* Stream Power (N/m s)	* 0.01	* 806.55	* 0.02
* Frctn Loss (m)	* 4.60	* Cum Volume (cu m x 10^4)	* 0.01	* 0.05	* 0.02
* C & E Loss (m)	* 0.06	* Cum SA (1000 m2)	* 42.10	* 36.79	* 61.70

CROSS SECTION OUTPUT Riv Sta: 52 Profile # 25 yr Storm

* E.G. Elev (m)	* 352.77	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.08	* Wt. n-Val	* 0.060	* 0.035	* 0.040
* W.S. Elev (m)	* 351.69	* Reach Len. (m)	* 152.16	* 153.27	* 155.72
* Crit W.S. (m)	* 352.10	* Flow Area (m2)	* 0.05	* 13.21	* 0.13
* E.G. Slope (m/m)	* 0.024499	* Area (m2)	* 0.05	* 13.21	* 0.13
* Q Total (m3/s)	* 61.02	* Flow (m3/s)	* 0.03	* 60.93	* 0.06
* Top Width (m)	* 15.23	* Top Width (m)	* 0.50	* 11.79	* 2.95
* Vel Total (m/s)	* 4.56	* Avg. Vel. (m/s)	* 0.55	* 4.61	* 0.49
* Max Chl Dpth (m)	* 1.51	* Hydr. Depth (m)	* 0.10	* 1.12	* 0.04
* Conv. Total (m3/s)	* 389.8	* Conv. (m3/s)	* 0.2	* 389.3	* 0.4
* Length Wtd. (m)	* 153.78	* Wetted Per. (m)	* 0.54	* 12.61	* 2.95
* Min Ch El (m)	* 350.18	* Shear (N/sq m)	* 22.99	* 251.73	* 10.57

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* Alpha * 1.02 * Stream Power (N/m s) * 12.55 * 1161.31 * 5.15 *
* Frctn Loss (m) * 4.58 * Cum Volume (cu m x 10^ * 0.02 * 0.06 * 0.03 *
* C & E Loss (m) * 0.07 * Cum SA (1000 m2) * 53.49 * 37.02 * 73.92 *
*****

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CROSS SECTION OUTPUT Riv Sta: 52 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 353.19 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.30 * Wt. n-Val * 0.060 * 0.035 * 0.040 *
* W.S. Elev (m) * 351.89 * Reach Len. (m) * 152.16 * 153.27 * 155.72 *
* Crit W.S. (m) * 352.37 * Flow Area (m2) * 0.20 * 15.61 * 1.40 *
* E.G. Slope (m/m) * 0.024768 * Area (m2) * 0.20 * 15.61 * 1.40 *
* Q Total (m3/s) * 81.33 * Flow (m3/s) * 0.17 * 79.62 * 1.54 *
* Top Width (m) * 22.41 * Top Width (m) * 0.98 * 12.04 * 9.40 *
* Vel Total (m/s) * 4.73 * Avg. Vel. (m/s) * 0.86 * 5.10 * 1.10 *
* Max Chl Dpth (m) * 1.71 * Hydr. Depth (m) * 0.20 * 1.30 * 0.15 *
* Conv. Total (m3/s) * 516.8 * Conv. (m3/s) * 1.1 * 505.9 * 9.8 *
* Length Wtd. (m) * 153.88 * Wetted Per. (m) * 1.06 * 12.92 * 9.42 *
* Min Ch El (m) * 350.18 * Shear (N/sq m) * 45.85 * 293.43 * 36.03 *
* Alpha * 1.14 * Stream Power (N/m s) * 39.58 * 1496.62 * 39.72 *
* Frctn Loss (m) * 4.60 * Cum Volume (cu m x 10^ * 0.03 * 0.07 * 0.04 *
* C & E Loss (m) * 0.10 * Cum SA (1000 m2) * 67.23 * 37.15 * 92.58 *
*****

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CROSS SECTION INPUT River Station: 53  
Description:

```

Station Elevation Data, num = 26
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0358.5888 3.29236358.32665.451908356.18696.528106355.60177.302632355.4737
7.781002354.97998.215001354.91298.462119354.8184 9.63549 354.666 10.6288354.8306
10.83911354.928111.66832355.156713.47626355.196314.18727355.598714.94087355.3122
18.59414355.293920.50317356.519225.27304356.439926.09426356.449127.91736356.3546
29.74714356.196131.16152356.052833.86488356.345435.37228356.8514 36.089356.4887
37.93725357.4183

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Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .065.451908 .03520.50317 .06

```

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Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
5.45191 20.5032 143.13 143.44 139.35 0.1 0.3

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CROSS SECTION OUTPUT Riv Sta: 53 Profile # Storm Event
*****
* E.G. Elev (m) * 356.91 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.01 * Wt. n-Val * 0.035 * 0.035 * 0.035 *
* W.S. Elev (m) * 355.89 * Reach Len. (m) * 143.13 * 143.44 * 139.35 *
* Crit W.S. (m) * 356.21 * Flow Area (m2) * 9.14 * 9.14 * 9.14 *
* E.G. Slope (m/m) * 0.044044 * Area (m2) * 9.14 * 9.14 * 9.14 *
* Q Total (m3/s) * 40.78 * Flow (m3/s) * 40.78 * 40.78 * 40.78 *
* Top Width (m) * 13.53 * Top Width (m) * 13.53 * 13.53 *
* Vel Total (m/s) * 4.46 * Avg. Vel. (m/s) * 4.46 * 4.46 * 4.46 *
* Max Chl Dpth (m) * 1.23 * Hydr. Depth (m) * 0.68 * 0.68 * 0.68 *
* Conv. Total (m3/s) * 194.3 * Conv. (m3/s) * 194.3 * 194.3 * 194.3 *
* Length Wtd. (m) * 143.44 * Wetted Per. (m) * 14.26 * 14.26 * 14.26 *
* Min Ch El (m) * 354.67 * Shear (N/sq m) * 277.02 * 277.02 * 277.02 *
* Alpha * 1.00 * Stream Power (N/m s) * 1235.31 * 1235.31 * 1235.31 *
* Frctn Loss (m) * 5.08 * Cum Volume (cu m x 10^ * 0.01 * 0.05 * 0.02 *
* C & E Loss (m) * 0.00 * Cum SA (1000 m2) * 42.10 * 38.58 * 61.70 *
*****

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CROSS SECTION OUTPUT Riv Sta: 53 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 357.42 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.32 * Wt. n-Val * 0.035 * 0.035 * 0.060 *
* W.S. Elev (m) * 356.10 * Reach Len. (m) * 143.13 * 143.44 * 139.35 *
* Crit W.S. (m) * 356.57 * Flow Area (m2) * 11.96 * 11.96 * 0.02 *
* E.G. Slope (m/m) * 0.043304 * Area (m2) * 11.96 * 11.96 * 0.02 *
* Q Total (m3/s) * 61.02 * Flow (m3/s) * 61.02 * 61.02 * 61.02 *
* Top Width (m) * 15.04 * Top Width (m) * 14.22 * 14.22 * 0.81 *
* Vel Total (m/s) * 5.09 * Avg. Vel. (m/s) * 5.10 * 5.10 * 0.27 *
* Max Chl Dpth (m) * 1.43 * Hydr. Depth (m) * 0.84 * 0.84 * 0.02 *
* Conv. Total (m3/s) * 293.2 * Conv. (m3/s) * 293.2 * 293.2 * 0.0 *
* Length Wtd. (m) * 143.44 * Wetted Per. (m) * 15.06 * 15.06 * 0.82 *
* Min Ch El (m) * 354.67 * Shear (N/sq m) * 337.36 * 337.36 * 9.00 *
* Alpha * 1.00 * Stream Power (N/m s) * 1720.51 * 1720.51 * 2.39 *
* Frctn Loss (m) * 4.94 * Cum Volume (cu m x 10^ * 0.02 * 0.06 * 0.03 *
* C & E Loss (m) * 0.02 * Cum SA (1000 m2) * 53.52 * 38.89 * 74.18 *
*****

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CROSS SECTION OUTPUT Riv Sta: 53 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 357.87 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.61 * Wt. n-Val * 0.060 * 0.035 * 0.060 *
* W.S. Elev (m) * 356.26 * Reach Len. (m) * 143.13 * 143.44 * 139.35 *
* Crit W.S. (m) * 356.79 * Flow Area (m2) * 0.00 * 14.37 * 0.42 *
* E.G. Slope (m/m) * 0.043312 * Area (m2) * 0.00 * 14.37 * 0.42 *
* Q Total (m3/s) * 81.33 * Flow (m3/s) * 0.00 * 81.01 * 0.32 *
* Top Width (m) * 18.82 * Top Width (m) * 0.08 * 14.65 * 4.10 *
* Vel Total (m/s) * 5.50 * Avg. Vel. (m/s) * 0.31 * 5.64 * 0.76 *
* Max Chl Dpth (m) * 1.60 * Hydr. Depth (m) * 0.04 * 0.98 * 0.10 *
* Conv. Total (m3/s) * 390.8 * Conv. (m3/s) * 0.0 * 389.3 * 1.5 *
* Length Wtd. (m) * 143.39 * Wetted Per. (m) * 0.11 * 15.56 * 4.12 *
* Min Ch El (m) * 354.67 * Shear (N/sq m) * 11.24 * 392.22 * 43.28 *
* Alpha * 1.05 * Stream Power (N/m s) * 3.46 * 2211.52 * 32.75 *
* Frctn Loss (m) * 4.78 * Cum Volume (cu m x 10^ * 0.03 * 0.07 * 0.04 *
* C & E Loss (m) * 0.04 * Cum SA (1000 m2) * 67.31 * 39.06 * 93.52 *
*****

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CROSS SECTION INPUT River Station: 54



Description:

Station Elevation Data, num = 18
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
0362.65793.793304361.83198.575655361.22849.560511 360.951 11.6965360.5883
12.63616360.850413.97168359.704315.19786359.597716.80766359.402617.87748359.5977
19.0475360.792522.01262360.743726.17426360.640127.02993360.353627.40104360.2499
27.92174360.368829.54496361.338130.84658363.4534

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
0 .0612.63616 .035 19.0475 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
12.6362 19.0475 159.14 153.84 146.83 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 54 Profile # Storm Event
\* E.G. Elev (m) \* 361.99 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 0.99 \* Wt. n-Val \* 0.060 \* 0.035 \* 0.060 \*
\* W.S. Elev (m) \* 361.00 \* Reach Len. (m) \* 159.14 \* 153.84 \* 146.83 \*
\* Crit W.S. (m) \* 361.31 \* Flow Area (m2) \* 0.77 \* 7.60 \* 3.39 \*
\* E.G. Slope (m/m) \* 0.025800 \* Area (m2) \* 0.77 \* 7.60 \* 3.39 \*
\* Q Total (m3/s) \* 40.78 \* Flow (m3/s) \* 0.78 \* 35.64 \* 4.36 \*
\* Top Width (m) \* 19.61 \* Top Width (m) \* 3.26 \* 6.41 \* 9.94 \*
\* Vel Total (m/s) \* 3.46 \* Avg. Vel. (m/s) \* 1.01 \* 4.69 \* 1.29 \*
\* Max Chl Dpth (m) \* 1.60 \* Hydr. Depth (m) \* 0.24 \* 1.19 \* 0.34 \*
\* Conv. Total (m3/s) \* 253.9 \* Conv. (m3/s) \* 4.9 \* 221.9 \* 27.2 \*
\* Length Wtd. (m) \* 153.52 \* Wetted Per. (m) \* 3.34 \* 7.37 \* 10.19 \*
\* Min Ch El (m) \* 359.40 \* Shear (N/sq m) \* 58.61 \* 261.03 \* 84.23 \*
\* Alpha \* 1.61 \* Stream Power (N/m s) \* 59.17 \* 1223.13 \* 108.32 \*
\* Frctn Loss (m) \* 2.75 \* Cum Volume (cu m x 10^4) \* 0.01 \* 0.05 \* 0.02 \*
\* C & E Loss (m) \* 0.08 \* Cum SA (1000 m2) \* 42.36 \* 40.11 \* 62.43 \*

CROSS SECTION OUTPUT Riv Sta: 54 Profile # 25 yr Storm
\* E.G. Elev (m) \* 362.38 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 1.13 \* Wt. n-Val \* 0.060 \* 0.035 \* 0.060 \*
\* W.S. Elev (m) \* 361.25 \* Reach Len. (m) \* 159.14 \* 153.84 \* 146.83 \*
\* Crit W.S. (m) \* 361.61 \* Flow Area (m2) \* 1.70 \* 9.20 \* 5.92 \*
\* E.G. Slope (m/m) \* 0.024949 \* Area (m2) \* 1.70 \* 9.20 \* 5.92 \*
\* Q Total (m3/s) \* 61.02 \* Flow (m3/s) \* 2.38 \* 48.13 \* 10.51 \*
\* Top Width (m) \* 21.02 \* Top Width (m) \* 4.25 \* 6.41 \* 10.35 \*
\* Vel Total (m/s) \* 3.63 \* Avg. Vel. (m/s) \* 1.40 \* 5.23 \* 1.78 \*
\* Max Chl Dpth (m) \* 1.85 \* Hydr. Depth (m) \* 0.40 \* 1.44 \* 0.57 \*
\* Conv. Total (m3/s) \* 386.3 \* Conv. (m3/s) \* 15.1 \* 304.7 \* 66.5 \*
\* Length Wtd. (m) \* 153.34 \* Wetted Per. (m) \* 4.36 \* 7.37 \* 10.67 \*
\* Min Ch El (m) \* 359.40 \* Shear (N/sq m) \* 95.22 \* 305.37 \* 135.61 \*
\* Alpha \* 1.69 \* Stream Power (N/m s) \* 133.63 \* 1597.49 \* 240.89 \*
\* Frctn Loss (m) \* 2.69 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.06 \* 0.03 \*
\* C & E Loss (m) \* 0.08 \* Cum SA (1000 m2) \* 53.86 \* 40.47 \* 75.00 \*

CROSS SECTION OUTPUT Riv Sta: 54 Profile # 100 yr Storm
\* E.G. Elev (m) \* 362.70 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 1.22 \* Wt. n-Val \* 0.060 \* 0.035 \* 0.060 \*
\* W.S. Elev (m) \* 361.48 \* Reach Len. (m) \* 159.14 \* 153.84 \* 146.83 \*
\* Crit W.S. (m) \* 361.86 \* Flow Area (m2) \* 2.84 \* 10.63 \* 8.26 \*
\* E.G. Slope (m/m) \* 0.023561 \* Area (m2) \* 2.84 \* 10.63 \* 8.26 \*
\* Q Total (m3/s) \* 81.33 \* Flow (m3/s) \* 4.35 \* 59.52 \* 17.46 \*
\* Top Width (m) \* 23.01 \* Top Width (m) \* 6.02 \* 6.41 \* 10.58 \*
\* Vel Total (m/s) \* 3.74 \* Avg. Vel. (m/s) \* 1.53 \* 5.60 \* 2.11 \*
\* Max Chl Dpth (m) \* 2.07 \* Hydr. Depth (m) \* 0.47 \* 1.66 \* 0.78 \*
\* Conv. Total (m3/s) \* 529.9 \* Conv. (m3/s) \* 28.4 \* 387.8 \* 113.7 \*
\* Length Wtd. (m) \* 153.22 \* Wetted Per. (m) \* 6.14 \* 7.37 \* 11.00 \*
\* Min Ch El (m) \* 359.40 \* Shear (N/sq m) \* 106.96 \* 333.25 \* 173.46 \*
\* Alpha \* 1.72 \* Stream Power (N/m s) \* 163.74 \* 1865.61 \* 366.56 \*
\* Frctn Loss (m) \* 2.64 \* Cum Volume (cu m x 10^4) \* 0.03 \* 0.07 \* 0.04 \*
\* C & E Loss (m) \* 0.09 \* Cum SA (1000 m2) \* 67.79 \* 40.68 \* 94.60 \*

CROSS SECTION INPUT River Station: 55
Description:

Station Elevation Data, num = 18
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
0365.8065 7.03 365.299.265208 363.8111.42776363.258316.01786362.9992
18.13 363.1918.91863362.648720.45257 362.47521.82552362.398822.98773362.5481
25.07 364.24 29.5392363.852736.41245363.6637 40.221363.4961 45.22 363.31
46.05917364.425749.30279364.4592 50.95 365.38

Mannings n Values, num = 5
Sta. Value Sta. Value Sta. Value Sta. Value
0 .06 7.03 .045 18.13 .035 25.07 .045 45.22 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
18.13 25.07 83.55 81.13 75.85 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 55 Profile # Storm Event
\* E.G. Elev (m) \* 364.82 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 1.24 \* Wt. n-Val \* 0.045 \* 0.035 \* 0.045 \*
\* W.S. Elev (m) \* 363.58 \* Reach Len. (m) \* 83.55 \* 81.13 \* 75.85 \*
\* Crit W.S. (m) \* 363.96 \* Flow Area (m2) \* 3.30 \* 5.60 \* 0.99 \*
\* E.G. Slope (m/m) \* 0.046785 \* Area (m2) \* 3.30 \* 5.60 \* 0.99 \*
\* Q Total (m3/s) \* 40.78 \* Flow (m3/s) \* 8.79 \* 30.72 \* 1.27 \*

* Top Width (m)	* 21.21	* Top Width (m)	* 7.96	* 6.13	* 7.12
* Vel Total (m/s)	* 4.12	* Avg. Vel. (m/s)	* 2.66	* 5.49	* 1.28
* Max Chl Dpth (m)	* 1.18	* Hydr. Depth (m)	* 0.41	* 0.91	* 0.14
* Conv. Total (m3/s)	* 188.5	* Conv. (m3/s)	* 40.6	* 142.0	* 5.9
* Length Wtd. (m)	* 81.05	* Wetted Per. (m)	* 8.02	* 6.68	* 7.26
* Min Ch El (m)	* 362.40	* Shear (N/sq m)	* 188.93	* 384.13	* 62.84
* Alpha	* 1.43	* Stream Power (N/m s)	* 502.63	* 2108.80	* 80.25
* Frctn Loss (m)	* 0.46	* Cum Volume (cu m x 10^4)	* 0.02	* 0.05	* 0.02
* C & E Loss (m)	* 0.05	* Cum SA (1000 m2)	* 42.83	* 40.62	* 63.08

CROSS SECTION OUTPUT Riv Sta: 55 Profile # 25 yr Storm

* E.G. Elev (m)	* 365.15	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.38	* Wt. n-Val	* 0.045	* 0.035	* 0.045
* W.S. Elev (m)	* 363.76	* Reach Len. (m)	* 83.55	* 81.13	* 75.85
* Crit W.S. (m)	* 364.17	* Flow Area (m2)	* 4.84	* 6.75	* 2.77
* E.G. Slope (m/m)	* 0.046601	* Area (m2)	* 4.84	* 6.75	* 2.77
* Q Total (m3/s)	* 61.02	* Flow (m3/s)	* 15.61	* 40.69	* 4.73
* Top Width (m)	* 27.86	* Top Width (m)	* 8.69	* 6.36	* 12.82
* Vel Total (m/s)	* 4.25	* Avg. Vel. (m/s)	* 3.23	* 6.03	* 1.70
* Max Chl Dpth (m)	* 1.37	* Hydr. Depth (m)	* 0.56	* 1.06	* 0.22
* Conv. Total (m3/s)	* 282.7	* Conv. (m3/s)	* 72.3	* 188.5	* 21.9
* Length Wtd. (m)	* 80.83	* Wetted Per. (m)	* 8.77	* 6.98	* 13.06
* Min Ch El (m)	* 362.40	* Shear (N/sq m)	* 252.13	* 441.91	* 97.06
* Alpha	* 1.50	* Stream Power (N/m s)	* 813.61	* 2665.26	* 165.42
* Frctn Loss (m)	* 0.45	* Cum Volume (cu m x 10^4)	* 0.02	* 0.06	* 0.03
* C & E Loss (m)	* 0.05	* Cum SA (1000 m2)	* 54.40	* 40.99	* 75.88

CROSS SECTION OUTPUT Riv Sta: 55 Profile # 100 yr Storm

* E.G. Elev (m)	* 365.43	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.54	* Wt. n-Val	* 0.045	* 0.035	* 0.045
* W.S. Elev (m)	* 363.89	* Reach Len. (m)	* 83.55	* 81.13	* 75.85
* Crit W.S. (m)	* 364.33	* Flow Area (m2)	* 5.97	* 7.57	* 4.70
* E.G. Slope (m/m)	* 0.048641	* Area (m2)	* 5.97	* 7.57	* 4.70
* Q Total (m3/s)	* 81.33	* Flow (m3/s)	* 22.11	* 49.42	* 9.81
* Top Width (m)	* 32.08	* Top Width (m)	* 8.99	* 6.51	* 16.58
* Vel Total (m/s)	* 4.46	* Avg. Vel. (m/s)	* 3.70	* 6.53	* 2.09
* Max Chl Dpth (m)	* 1.49	* Hydr. Depth (m)	* 0.66	* 1.16	* 0.28
* Conv. Total (m3/s)	* 368.8	* Conv. (m3/s)	* 100.2	* 224.1	* 44.5
* Length Wtd. (m)	* 80.64	* Wetted Per. (m)	* 9.10	* 7.18	* 16.88
* Min Ch El (m)	* 362.40	* Shear (N/sq m)	* 313.10	* 502.95	* 132.78
* Alpha	* 1.52	* Stream Power (N/m s)	* 1158.97	* 3283.14	* 277.05
* Frctn Loss (m)	* 0.45	* Cum Volume (cu m x 10^4)	* 0.04	* 0.07	* 0.04
* C & E Loss (m)	* 0.05	* Cum SA (1000 m2)	* 68.42	* 41.21	* 95.63

CROSS SECTION INPUT River Station: 56  
Description:

Station Elevation Data, num = 19

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0368.1321	2.15	366.586	500268366.3429	9.15951366	257612.45973365	92223			
17.58586	365.59	22.8554364	922527.24837	364.822	29.3	364.7431	54441363	6759	
33.56312363	9136	35.05	364.7639	02654364	358746	67835	364.127	50.8613363	8679
54.66	363.6555	58824365	285260	06352365	1877	62.11	366.4		

Mannings n Values, num = 5

Sta.	Value	Sta.	Value	Sta.	Value	Sta.	Value		
0	.06	2.15	.045	29.3	.035	35.05	.045	54.66	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

29.3	35.05	8.82	8.55	7.86		0.1	0.3
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CROSS SECTION OUTPUT Riv Sta: 56 Profile # Storm Event

* E.G. Elev (m)	* 365.32	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.76	* Wt. n-Val	* 0.035	* 0.035	* 0.045
* W.S. Elev (m)	* 364.56	* Reach Len. (m)	* 8.82	* 8.55	* 7.86
* Crit W.S. (m)	* 364.79	* Flow Area (m2)	* 2.74	* 2.74	* 8.26
* E.G. Slope (m/m)	* 0.067778	* Area (m2)	* 2.74	* 2.74	* 8.26
* Q Total (m3/s)	* 40.78	* Flow (m3/s)	* 12.94	* 27.84	* 18.15
* Top Width (m)	* 23.17	* Top Width (m)	* 5.02	* 5.02	* 16.15
* Vel Total (m/s)	* 3.71	* Avg. Vel. (m/s)	* 4.73	* 3.37	* 3.37
* Max Chl Dpth (m)	* 0.91	* Hydr. Depth (m)	* 0.55	* 0.46	* 0.46
* Conv. Total (m3/s)	* 156.6	* Conv. (m3/s)	* 49.7	* 106.9	* 106.9
* Length Wtd. (m)	* 8.33	* Wetted Per. (m)	* 5.40	* 18.70	* 18.70
* Min Ch El (m)	* 363.65	* Shear (N/sq m)	* 336.72	* 293.65	* 293.65
* Alpha	* 1.08	* Stream Power (N/m s)	* 1591.65	* 989.33	* 989.33
* Frctn Loss (m)	* 0.23	* Cum Volume (cu m x 10^4)	* 0.02	* 0.05	* 0.02
* C & E Loss (m)	* 0.05	* Cum SA (1000 m2)	* 42.86	* 40.67	* 63.18

CROSS SECTION OUTPUT Riv Sta: 56 Profile # 25 yr Storm

* E.G. Elev (m)	* 365.63	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.92	* Wt. n-Val	* 0.035	* 0.035	* 0.045
* W.S. Elev (m)	* 364.72	* Reach Len. (m)	* 8.82	* 8.55	* 7.86
* Crit W.S. (m)	* 365.01	* Flow Area (m2)	* 3.56	* 3.56	* 11.21
* E.G. Slope (m/m)	* 0.065018	* Area (m2)	* 3.56	* 3.56	* 11.21
* Q Total (m3/s)	* 61.02	* Flow (m3/s)	* 18.19	* 42.83	* 42.83
* Top Width (m)	* 25.40	* Top Width (m)	* 5.62	* 19.78	* 19.78
* Vel Total (m/s)	* 4.13	* Avg. Vel. (m/s)	* 5.10	* 3.82	* 3.82
* Max Chl Dpth (m)	* 1.07	* Hydr. Depth (m)	* 0.63	* 0.57	* 0.57
* Conv. Total (m3/s)	* 239.3	* Conv. (m3/s)	* 71.3	* 168.0	* 168.0
* Length Wtd. (m)	* 8.32	* Wetted Per. (m)	* 6.08	* 20.43	* 20.43
* Min Ch El (m)	* 363.65	* Shear (N/sq m)	* 373.78	* 349.88	* 349.88
* Alpha	* 1.06	* Stream Power (N/m s)	* 1907.34	* 1336.54	* 1336.54
* Frctn Loss (m)	* 0.23	* Cum Volume (cu m x 10^4)	* 0.02	* 0.06	* 0.03

\* C & E Loss (m) \* 0.03 \* Cum SA (1000 m2) \* 54.44 \* 41.04 \* 76.01 \*

CROSS SECTION OUTPUT Riv Sta: 56 Profile # 100 yr Storm
\*\*\*\*\*
\* E.G. Elev (m) \* 365.92 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 1.07 \* Wt. n-Val \* 0.045 \* 0.035 \* 0.045 \*
\* W.S. Elev (m) \* 364.85 \* Reach Len. (m) \* 8.82 \* 8.55 \* 7.86 \*
\* Crit W.S. (m) \* 365.19 \* Flow Area (m2) \* 0.14 \* 4.31 \* 13.84 \*
\* E.G. Slope (m/m) \* 0.060189 \* Area (m2) \* 0.14 \* 4.31 \* 13.84 \*
\* Q Total (m3/s) \* 81.33 \* Flow (m3/s) \* 0.10 \* 23.66 \* 57.57 \*
\* Top Width (m) \* 29.13 \* Top Width (m) \* 3.09 \* 5.75 \* 20.29 \*
\* Vel Total (m/s) \* 4.45 \* Avg. Vel. (m/s) \* 0.71 \* 5.49 \* 4.16 \*
\* Max Chl Dpth (m) \* 1.20 \* Hydr. Depth (m) \* 0.05 \* 0.75 \* 0.68 \*
\* Conv. Total (m3/s) \* 331.5 \* Conv. (m3/s) \* 0.4 \* 96.4 \* 234.7 \*
\* Length Wtd. (m) \* 8.30 \* Wetted Per. (m) \* 3.09 \* 6.22 \* 21.03 \*
\* Min Ch El (m) \* 363.65 \* Shear (N/sq m) \* 27.67 \* 408.79 \* 388.46 \*
\* Alpha \* 1.06 \* Stream Power (N/m s) \* 19.61 \* 2243.37 \* 1615.99 \*
\* Frctn Loss (m) \* 0.21 \* Cum Volume (cu m x 10^ \* 0.04 \* 0.07 \* 0.04 \*
\* C & E Loss (m) \* 0.00 \* Cum SA (1000 m2) \* 68.47 \* 41.26 \* 95.77 \*

CROSS SECTION INPUT River Station: 57
Description:

Station Elevation Data, num = 29
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
\*\*\*\*\*
0369.67743.232103368.3272 5.95 366.3910.67666366.129516.62915366.0472
17.74473365.894822.89113365.361426.32978365.187732.13623365.0749 33.46 364.86
33.857364.145334.62324364.136134.93743 362.9235.23205362.831635.67879362.7889
35.81767362.718836.53742362.907836.83424363.002336.91163363.749137.74928364.0843
38.05 364.839.96969364.931742.75954364.648248.90885364.3221 53.9722364.0539
56.43 363.7957.32938364.105757.63477365.6937 62.01 366.27

Mannings n Values, num = 5
Sta. Value Sta. Value Sta. Value Sta. Value
\*\*\*\*\*
0 .06 5.95 .045 33.46 .035 38.05 .045 56.43 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
33.46 38.05 3.92 4.03 4.26 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 57 Profile # Storm Event
\*\*\*\*\*
\* E.G. Elev (m) \* 365.60 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 0.93 \* Wt. n-Val \* 0.035 \* 0.046 \* 0.046 \*
\* W.S. Elev (m) \* 364.67 \* Reach Len. (m) \* 3.92 \* 4.03 \* 4.26 \*
\* Crit W.S. (m) \* 364.92 \* Flow Area (m2) \* 5.10 \* 6.06 \* 6.06 \*
\* E.G. Slope (m/m) \* 0.046239 \* Area (m2) \* 5.10 \* 6.06 \* 6.06 \*
\* Q Total (m3/s) \* 40.78 \* Flow (m3/s) \* 25.71 \* 15.07 \* 15.07 \*
\* Top Width (m) \* 19.29 \* Top Width (m) \* 4.43 \* 14.87 \* 14.87 \*
\* Vel Total (m/s) \* 3.65 \* Avg. Vel. (m/s) \* 5.04 \* 2.49 \* 2.49 \*
\* Max Chl Dpth (m) \* 1.95 \* Hydr. Depth (m) \* 1.15 \* 0.41 \* 0.41 \*
\* Conv. Total (m3/s) \* 189.6 \* Conv. (m3/s) \* 119.6 \* 70.1 \* 70.1 \*
\* Length Wtd. (m) \* 4.15 \* Wetted Per. (m) \* 6.87 \* 15.41 \* 15.41 \*
\* Min Ch El (m) \* 362.72 \* Shear (N/sq m) \* 336.70 \* 178.19 \* 178.19 \*
\* Alpha \* 1.37 \* Stream Power (N/m s) \* 1696.20 \* 443.42 \* 443.42 \*
\* Frctn Loss (m) \* 0.20 \* Cum Volume (cu m x 10^ \* 0.02 \* 0.05 \* 0.02 \*
\* C & E Loss (m) \* 0.01 \* Cum SA (1000 m2) \* 42.86 \* 40.69 \* 63.25 \*

CROSS SECTION OUTPUT Riv Sta: 57 Profile # 25 yr Storm
\*\*\*\*\*
\* E.G. Elev (m) \* 365.89 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 1.01 \* Wt. n-Val \* 0.045 \* 0.035 \* 0.046 \*
\* W.S. Elev (m) \* 364.87 \* Reach Len. (m) \* 3.92 \* 4.03 \* 4.26 \*
\* Crit W.S. (m) \* 365.21 \* Flow Area (m2) \* 0.00 \* 6.04 \* 9.38 \*
\* E.G. Slope (m/m) \* 0.045674 \* Area (m2) \* 0.00 \* 6.04 \* 9.38 \*
\* Q Total (m3/s) \* 61.02 \* Flow (m3/s) \* 0.00 \* 32.67 \* 28.35 \*
\* Top Width (m) \* 22.69 \* Top Width (m) \* 0.08 \* 4.60 \* 18.01 \*
\* Vel Total (m/s) \* 3.96 \* Avg. Vel. (m/s) \* 0.17 \* 5.41 \* 3.02 \*
\* Max Chl Dpth (m) \* 2.16 \* Hydr. Depth (m) \* 0.01 \* 1.31 \* 0.52 \*
\* Conv. Total (m3/s) \* 285.5 \* Conv. (m3/s) \* 0.0 \* 152.8 \* 132.7 \*
\* Length Wtd. (m) \* 4.16 \* Wetted Per. (m) \* 0.08 \* 7.24 \* 18.74 \*
\* Min Ch El (m) \* 362.72 \* Shear (N/sq m) \* 2.93 \* 373.31 \* 224.18 \*
\* Alpha \* 1.27 \* Stream Power (N/m s) \* 0.49 \* 2019.89 \* 677.60 \*
\* Frctn Loss (m) \* 0.20 \* Cum Volume (cu m x 10^ \* 0.02 \* 0.06 \* 0.03 \*
\* C & E Loss (m) \* 0.01 \* Cum SA (1000 m2) \* 54.44 \* 41.06 \* 76.09 \*

CROSS SECTION OUTPUT Riv Sta: 57 Profile # 100 yr Storm
\*\*\*\*\*
\* E.G. Elev (m) \* 366.12 \* Element \* Left OB \* Channel \* Right OB \*
\* Vel Head (m) \* 1.06 \* Wt. n-Val \* 0.045 \* 0.035 \* 0.046 \*
\* W.S. Elev (m) \* 365.06 \* Reach Len. (m) \* 3.92 \* 4.03 \* 4.26 \*
\* Crit W.S. (m) \* 365.40 \* Flow Area (m2) \* 0.12 \* 6.88 \* 12.91 \*
\* E.G. Slope (m/m) \* 0.041612 \* Area (m2) \* 0.12 \* 6.88 \* 12.91 \*
\* Q Total (m3/s) \* 81.33 \* Flow (m3/s) \* 0.11 \* 38.78 \* 42.43 \*
\* Top Width (m) \* 25.27 \* Top Width (m) \* 1.21 \* 4.60 \* 19.46 \*
\* Vel Total (m/s) \* 4.08 \* Avg. Vel. (m/s) \* 0.96 \* 5.63 \* 3.29 \*
\* Max Chl Dpth (m) \* 2.34 \* Hydr. Depth (m) \* 0.10 \* 1.50 \* 0.66 \*
\* Conv. Total (m3/s) \* 398.7 \* Conv. (m3/s) \* 0.6 \* 190.1 \* 208.0 \*
\* Length Wtd. (m) \* 4.17 \* Wetted Per. (m) \* 1.23 \* 7.24 \* 20.35 \*
\* Min Ch El (m) \* 362.72 \* Shear (N/sq m) \* 39.71 \* 387.73 \* 259.03 \*
\* Alpha \* 1.25 \* Stream Power (N/m s) \* 38.08 \* 2184.78 \* 851.03 \*
\* Frctn Loss (m) \* 0.20 \* Cum Volume (cu m x 10^ \* 0.04 \* 0.07 \* 0.04 \*
\* C & E Loss (m) \* 0.00 \* Cum SA (1000 m2) \* 68.48 \* 41.28 \* 95.86 \*

CROSS SECTION INPUT River Station: 58
Description:

Station Elevation Data, num = 20  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0368.1382 2.26 366.27 13.7804366.089915.58608365.757717.18184365.0932  
 28.55 365.0428.98949364.242830.20982363.749130.27994363.276630.37686363.1699  
 31.56187363.023632.29741363.054132.57955363.2949 34.54 364.9538.77399364.8951  
 44.80589364.605548.12206364.4592 51.26 364.2251.60638 365.587 52.55 366.46

Mannings n Values, num = 5  
 Sta. Value Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .06 2.26 .045 28.55 .035 34.54 .045 51.26 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 28.55 34.54 5.81 5.71 6.61 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 58 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 365.81 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.84 \* Wt. n-Val \* 0.035 \* 0.045 \*  
 \* W.S. Elev (m) \* 364.97 \* Reach Len. (m) \* 5.81 \* 5.71 \* 6.61 \*  
 \* Crit W.S. (m) \* 365.25 \* Flow Area (m2) \* 7.42 \* 7.42 \* 5.04 \*  
 \* E.G. Slope (m/m) \* 0.025109 \* Area (m2) \* 7.42 \* 5.04 \*  
 \* Q Total (m3/s) \* 40.78 \* Flow (m3/s) \* 32.95 \* 7.83 \*  
 \* Top Width (m) \* 22.86 \* Top Width (m) \* 5.95 \* 16.91 \*  
 \* Vel Total (m/s) \* 3.27 \* Avg. Vel. (m/s) \* 4.44 \* 1.55 \*  
 \* Max Chl Dpth (m) \* 1.95 \* Hydr. Depth (m) \* 1.25 \* 0.30 \*  
 \* Conv. Total (m3/s) \* 257.4 \* Conv. (m3/s) \* 207.9 \* 49.4 \*  
 \* Length Wtd. (m) \* 5.96 \* Wetted Per. (m) \* 7.64 \* 17.51 \*  
 \* Min Ch El (m) \* 363.02 \* Shear (N/sq m) \* 239.16 \* 70.90 \*  
 \* Alpha \* 1.53 \* Stream Power (N/m s) \* 1062.13 \* 110.09 \*  
 \* Frctn Loss (m) \* 1.38 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.05 \* 0.02 \*  
 \* C & E Loss (m) \* 0.10 \* Cum SA (1000 m2) \* 42.86 \* 40.72 \* 63.35 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 58 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 366.09 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.94 \* Wt. n-Val \* 0.045 \* 0.045 \*  
 \* W.S. Elev (m) \* 365.16 \* Reach Len. (m) \* 5.81 \* 5.71 \* 6.61 \*  
 \* Crit W.S. (m) \* 365.45 \* Flow Area (m2) \* 1.04 \* 8.54 \* 8.21 \*  
 \* E.G. Slope (m/m) \* 0.026200 \* Area (m2) \* 1.04 \* 8.54 \* 8.21 \*  
 \* Q Total (m3/s) \* 61.02 \* Flow (m3/s) \* 0.75 \* 42.25 \* 18.02 \*  
 \* Top Width (m) \* 34.47 \* Top Width (m) \* 11.52 \* 6.00 \* 16.95 \*  
 \* Vel Total (m/s) \* 3.43 \* Avg. Vel. (m/s) \* 0.72 \* 4.95 \* 2.20 \*  
 \* Max Chl Dpth (m) \* 2.13 \* Hydr. Depth (m) \* 0.09 \* 1.42 \* 0.48 \*  
 \* Conv. Total (m3/s) \* 377.0 \* Conv. (m3/s) \* 4.7 \* 261.0 \* 111.3 \*  
 \* Length Wtd. (m) \* 6.05 \* Wetted Per. (m) \* 11.53 \* 7.72 \* 17.70 \*  
 \* Min Ch El (m) \* 363.02 \* Shear (N/sq m) \* 23.22 \* 284.10 \* 119.12 \*  
 \* Alpha \* 1.56 \* Stream Power (N/m s) \* 16.81 \* 1405.55 \* 261.49 \*  
 \* Frctn Loss (m) \* 1.44 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.06 \* 0.03 \*  
 \* C & E Loss (m) \* 0.13 \* Cum SA (1000 m2) \* 54.47 \* 41.09 \* 76.20 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 58 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 366.32 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.02 \* Wt. n-Val \* 0.045 \* 0.035 \* 0.045 \*  
 \* W.S. Elev (m) \* 365.29 \* Reach Len. (m) \* 5.81 \* 5.71 \* 6.61 \*  
 \* Crit W.S. (m) \* 365.60 \* Flow Area (m2) \* 2.63 \* 9.35 \* 10.51 \*  
 \* E.G. Slope (m/m) \* 0.027183 \* Area (m2) \* 2.63 \* 9.35 \* 10.51 \*  
 \* Q Total (m3/s) \* 81.33 \* Flow (m3/s) \* 3.53 \* 50.09 \* 27.71 \*  
 \* Top Width (m) \* 34.83 \* Top Width (m) \* 11.85 \* 6.00 \* 16.99 \*  
 \* Vel Total (m/s) \* 3.61 \* Avg. Vel. (m/s) \* 1.34 \* 5.35 \* 2.64 \*  
 \* Max Chl Dpth (m) \* 2.27 \* Hydr. Depth (m) \* 0.22 \* 1.56 \* 0.62 \*  
 \* Conv. Total (m3/s) \* 493.3 \* Conv. (m3/s) \* 21.4 \* 303.8 \* 168.1 \*  
 \* Length Wtd. (m) \* 6.10 \* Wetted Per. (m) \* 11.89 \* 7.72 \* 17.84 \*  
 \* Min Ch El (m) \* 363.02 \* Shear (N/sq m) \* 58.99 \* 322.90 \* 157.09 \*  
 \* Alpha \* 1.54 \* Stream Power (N/m s) \* 79.08 \* 1728.98 \* 414.03 \*  
 \* Frctn Loss (m) \* 1.45 \* Cum Volume (cu m x 10^4) \* 0.04 \* 0.07 \* 0.04 \*  
 \* C & E Loss (m) \* 0.13 \* Cum SA (1000 m2) \* 68.52 \* 41.31 \* 95.98 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 59  
 Description:

Station Elevation Data, num = 23  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0367.95534.415413367.04395.365208366.50757.834943366.58679.506518367.0165  
 12.76722366.0229 17.48 366.1318.57005365.388918.93264365.282219.37349 364.822  
 20.30416364.648221.76545364.849422.92277365.096324.16444365.0749 26.13 366.42  
 29.62753366.193633.16396365.992437.98383365.900938.70173365.855239.73493365.6297  
 40.88792366.0838 41.35 366.04 44.43 368.08

Mannings n Values, num = 4  
 Sta. Value Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .06 17.48 .035 26.13 .045 41.35 .06  
 Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 17.48 26.13 45.57 46.12 46.22 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 59 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 367.28 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.17 \* Wt. n-Val \* 0.060 \* 0.035 \* 0.045 \*  
 \* W.S. Elev (m) \* 366.11 \* Reach Len. (m) \* 45.57 \* 46.12 \* 46.22 \*  
 \* Crit W.S. (m) \* 366.49 \* Flow Area (m2) \* 0.18 \* 7.77 \* 1.78 \*  
 \* E.G. Slope (m/m) \* 0.036195 \* Area (m2) \* 0.18 \* 7.77 \* 1.78 \*  
 \* Q Total (m3/s) \* 40.78 \* Flow (m3/s) \* 0.07 \* 38.39 \* 2.32 \*  
 \* Top Width (m) \* 22.69 \* Top Width (m) \* 4.15 \* 8.17 \* 10.37 \*  
 \* Vel Total (m/s) \* 4.19 \* Avg. Vel. (m/s) \* 0.39 \* 4.94 \* 1.30 \*

* Max Chl Dpth (m)	* 1.46	* Hydr. Depth (m)	* 0.04	* 0.95	* 0.17
* Conv. Total (m3/s)	* 214.4	* Conv. (m3/s)	* 0.4	* 201.8	* 12.2
* Length Wtd. (m)	* 46.13	* Wetted Per. (m)	* 4.16	* 8.98	* 10.51
* Min Ch El (m)	* 364.65	* Shear (N/sq m)	* 15.50	* 307.32	* 60.14
* Alpha	* 1.31	* Stream Power (N/m s)	* 6.09	* 1517.50	* 78.25
* Frctn Loss (m)	* 3.77	* Cum Volume (cu m x 10^4)	* 0.02	* 0.05	* 0.02
* C & E Loss (m)	* 0.04	* Cum SA (1000 m2)	* 42.96	* 41.04	* 63.98

CROSS SECTION OUTPUT Riv Sta: 59 Profile # 25 yr Storm

* E.G. Elev (m)	* 367.66	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.37	* Wt. n-Val	* 0.060	* 0.035	* 0.045
* W.S. Elev (m)	* 366.30	* Reach Len. (m)	* 45.57	* 46.12	* 46.22
* Crit W.S. (m)	* 366.71	* Flow Area (m2)	* 1.17	* 9.34	* 4.05
* E.G. Slope (m/m)	* 0.037910	* Area (m2)	* 1.17	* 9.34	* 4.05
* Q Total (m3/s)	* 61.02	* Flow (m3/s)	* 1.33	* 51.94	* 7.75
* Top Width (m)	* 27.82	* Top Width (m)	* 5.61	* 8.48	* 13.73
* Vel Total (m/s)	* 4.19	* Avg. Vel. (m/s)	* 1.14	* 5.56	* 1.91
* Max Chl Dpth (m)	* 1.65	* Hydr. Depth (m)	* 0.21	* 1.10	* 0.30
* Conv. Total (m3/s)	* 313.4	* Conv. (m3/s)	* 6.8	* 266.8	* 39.8
* Length Wtd. (m)	* 46.13	* Wetted Per. (m)	* 5.66	* 9.35	* 13.94
* Min Ch El (m)	* 364.65	* Shear (N/sq m)	* 76.92	* 371.42	* 108.16
* Alpha	* 1.53	* Stream Power (N/m s)	* 87.32	* 2065.19	* 206.85
* Frctn Loss (m)	* 4.02	* Cum Volume (cu m x 10^4)	* 0.02	* 0.06	* 0.03
* C & E Loss (m)	* 0.03	* Cum SA (1000 m2)	* 54.86	* 41.43	* 76.91

CROSS SECTION OUTPUT Riv Sta: 59 Profile # 100 yr Storm

* E.G. Elev (m)	* 367.90	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.44	* Wt. n-Val	* 0.060	* 0.035	* 0.045
* W.S. Elev (m)	* 366.45	* Reach Len. (m)	* 45.57	* 46.12	* 46.22
* Crit W.S. (m)	* 366.88	* Flow Area (m2)	* 2.09	* 10.68	* 6.39
* E.G. Slope (m/m)	* 0.037060	* Area (m2)	* 2.09	* 10.68	* 6.39
* Q Total (m3/s)	* 81.33	* Flow (m3/s)	* 3.24	* 63.22	* 14.87
* Top Width (m)	* 30.62	* Top Width (m)	* 6.13	* 8.66	* 15.84
* Vel Total (m/s)	* 4.25	* Avg. Vel. (m/s)	* 1.55	* 5.92	* 2.33
* Max Chl Dpth (m)	* 1.81	* Hydr. Depth (m)	* 0.34	* 1.23	* 0.40
* Conv. Total (m3/s)	* 422.5	* Conv. (m3/s)	* 16.8	* 328.4	* 77.2
* Length Wtd. (m)	* 46.12	* Wetted Per. (m)	* 6.19	* 9.57	* 16.09
* Min Ch El (m)	* 364.65	* Shear (N/sq m)	* 122.42	* 405.64	* 144.34
* Alpha	* 1.57	* Stream Power (N/m s)	* 190.15	* 2401.37	* 335.77
* Frctn Loss (m)	* 4.25	* Cum Volume (cu m x 10^4)	* 0.04	* 0.07	* 0.04
* C & E Loss (m)	* 0.01	* Cum SA (1000 m2)	* 68.93	* 41.65	* 96.73

CROSS SECTION INPUT River Station: 60  
Description:

Station Elevation Data, num = 16

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0371.5154	8.92	370.689	115069	369.14410	65599368	7112	12.4123368	6929	
14.61752	368.699	17.95	370.9518	57041370	945421	94019370	7137	25.5582370	5796
29.31256370	573530	37076370	521731	25417370	408934	17804370	8509	42.97	371.06
45.24	372.28								

Mannings n Values, num = 4

Sta.	Value	Sta.	Value	Sta.	Value	Sta.	Value
0	.06	8.92	.035	17.95	.045	42.97	.06
Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
8.92	17.95	155.11	151.73	147.71		0.1	0.3

CROSS SECTION OUTPUT Riv Sta: 60 Profile # Storm Event

* E.G. Elev (m)	* 371.09	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 0.82	* Wt. n-Val	* 0.035	* 0.035	* 0.045
* W.S. Elev (m)	* 370.26	* Reach Len. (m)	* 155.11	* 151.73	* 147.71
* Crit W.S. (m)	* 370.38	* Flow Area (m2)	* 10.15	* 10.15	* 0.54
* E.G. Slope (m/m)	* 0.018085	* Area (m2)	* 10.15	* 10.15	* 0.54
* Q Total (m3/s)	* 40.78	* Flow (m3/s)	* 40.78	* 40.78	* 0.4
* Top Width (m)	* 7.96	* Top Width (m)	* 7.96	* 7.96	* 0.4
* Vel Total (m/s)	* 4.02	* Avg. Vel. (m/s)	* 4.02	* 4.02	* 0.4
* Max Chl Dpth (m)	* 1.57	* Hydr. Depth (m)	* 1.27	* 1.27	* 0.4
* Conv. Total (m3/s)	* 303.2	* Conv. (m3/s)	* 303.2	* 303.2	* 0.4
* Length Wtd. (m)	* 151.62	* Wetted Per. (m)	* 9.48	* 9.48	* 0.4
* Min Ch El (m)	* 368.69	* Shear (N/sq m)	* 189.74	* 189.74	* 0.4
* Alpha	* 1.00	* Stream Power (N/m s)	* 762.57	* 762.57	* 0.4
* Frctn Loss (m)	* 5.75	* Cum Volume (cu m x 10^4)	* 0.02	* 0.06	* 0.02
* C & E Loss (m)	* 0.87	* Cum SA (1000 m2)	* 43.28	* 42.27	* 64.75

CROSS SECTION OUTPUT Riv Sta: 60 Profile # 25 yr Storm

* E.G. Elev (m)	* 371.71	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.09	* Wt. n-Val	* 0.035	* 0.035	* 0.045
* W.S. Elev (m)	* 370.62	* Reach Len. (m)	* 155.11	* 151.73	* 147.71
* Crit W.S. (m)	* 371.12	* Flow Area (m2)	* 13.09	* 13.09	* 0.54
* E.G. Slope (m/m)	* 0.019624	* Area (m2)	* 13.09	* 13.09	* 0.54
* Q Total (m3/s)	* 61.02	* Flow (m3/s)	* 60.74	* 60.74	* 0.28
* Top Width (m)	* 16.71	* Top Width (m)	* 8.53	* 8.53	* 8.18
* Vel Total (m/s)	* 4.48	* Avg. Vel. (m/s)	* 4.64	* 4.64	* 0.51
* Max Chl Dpth (m)	* 1.93	* Hydr. Depth (m)	* 1.53	* 1.53	* 0.07
* Conv. Total (m3/s)	* 435.6	* Conv. (m3/s)	* 433.6	* 433.6	* 2.0
* Length Wtd. (m)	* 151.50	* Wetted Per. (m)	* 10.48	* 10.48	* 8.20
* Min Ch El (m)	* 368.69	* Shear (N/sq m)	* 240.31	* 240.31	* 12.77
* Alpha	* 1.07	* Stream Power (N/m s)	* 1115.34	* 1115.34	* 6.52
* Frctn Loss (m)	* 5.49	* Cum Volume (cu m x 10^4)	* 0.02	* 0.06	* 0.03
* C & E Loss (m)	* 0.76	* Cum SA (1000 m2)	* 55.30	* 42.72	* 78.53

CROSS SECTION OUTPUT Riv Sta: 60 Profile # 100 yr Storm

* E.G. Elev (m)	* 372.16	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.33	* Wt. n-Val	* 0.060	* 0.035	* 0.045
* W.S. Elev (m)	* 370.83	* Reach Len. (m)	* 155.11	* 151.73	* 147.71
* Crit W.S. (m)	* 371.32	* Flow Area (m2)	* 0.12	* 14.92	* 2.93
* E.G. Slope (m/m)	* 0.021921	* Area (m2)	* 0.12	* 14.92	* 2.93
* Q Total (m3/s)	* 81.33	* Flow (m3/s)	* 0.05	* 77.85	* 3.42
* Top Width (m)	* 24.27	* Top Width (m)	* 1.61	* 8.85	* 13.81
* Vel Total (m/s)	* 4.53	* Avg. Vel. (m/s)	* 0.44	* 5.22	* 1.17
* Max Chl Dpth (m)	* 2.14	* Hydr. Depth (m)	* 0.08	* 1.69	* 0.21
* Conv. Total (m3/s)	* 549.3	* Conv. (m3/s)	* 0.4	* 525.8	* 23.1
* Length Wtd. (m)	* 151.35	* Wetted Per. (m)	* 1.64	* 10.89	* 13.85
* Min Ch El (m)	* 368.69	* Shear (N/sq m)	* 15.91	* 294.51	* 45.47
* Alpha	* 1.28	* Stream Power (N/m s)	* 6.97	* 1536.70	* 53.12
* Frctn Loss (m)	* 5.43	* Cum Volume (cu m x 10 <sup>4</sup> )	* 0.04	* 0.07	* 0.04
* C & E Loss (m)	* 0.70	* Cum SA (1000 m2)	* 69.53	* 42.98	* 98.92

CROSS SECTION INPUT River Station: 61  
Description:

Station Elevation Data, num = 16

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0	378.09	1.04	376.181	983344374	27694	422282372	9845	5.48292372	9571
8.660422373	3594	11.01	376.3312	24894376	325116	07425376	2367	16.9621375	8618
22.9286375	596726	21178375	694229	89543375	6546	31.66	375.5437	98381376	9591
43.61	377.91								

Mannings n Values, num = 4

Sta.	Value	Sta.	Value	Sta.	Value		
0	.06	1.04	.035	11.01	.045	31.66	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
1.04 11.01 141.69 143.2 144.92 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 61 Profile # Storm Event

* E.G. Elev (m)	* 377.71	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 3.73	* Wt. n-Val	* 0.035	* 0.035	* 0.035
* W.S. Elev (m)	* 373.98	* Reach Len. (m)	* 141.69	* 143.20	* 144.92
* Crit W.S. (m)	* 374.82	* Flow Area (m2)	* 4.76	* 4.76	* 4.76
* E.G. Slope (m/m)	* 0.154993	* Area (m2)	* 4.76	* 4.76	* 4.76
* Q Total (m3/s)	* 40.78	* Flow (m3/s)	* 40.78	* 40.78	* 40.78
* Top Width (m)	* 6.61	* Top Width (m)	* 6.61	* 6.61	* 6.61
* Vel Total (m/s)	* 8.56	* Avg. Vel. (m/s)	* 8.56	* 8.56	* 8.56
* Max Chl Dpth (m)	* 1.02	* Hydr. Depth (m)	* 0.72	* 0.72	* 0.72
* Conv. Total (m3/s)	* 103.6	* Conv. (m3/s)	* 103.6	* 103.6	* 103.6
* Length Wtd. (m)	* 143.20	* Wetted Per. (m)	* 7.18	* 7.18	* 7.18
* Min Ch El (m)	* 372.96	* Shear (N/sq m)	* 1008.83	* 1008.83	* 1008.83
* Alpha	* 1.00	* Stream Power (N/m s)	* 8634.21	* 8634.21	* 8634.21
* Frctn Loss (m)	* 0.73	* Cum Volume (cu m x 10 <sup>4</sup> )	* 0.02	* 0.06	* 0.02
* C & E Loss (m)	* 0.32	* Cum SA (1000 m2)	* 43.28	* 43.31	* 64.75

CROSS SECTION OUTPUT Riv Sta: 61 Profile # 25 yr Storm

* E.G. Elev (m)	* 377.96	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 3.63	* Wt. n-Val	* 0.035	* 0.035	* 0.035
* W.S. Elev (m)	* 374.33	* Reach Len. (m)	* 141.69	* 143.20	* 144.92
* Crit W.S. (m)	* 375.27	* Flow Area (m2)	* 7.23	* 7.23	* 7.23
* E.G. Slope (m/m)	* 0.105268	* Area (m2)	* 7.23	* 7.23	* 7.23
* Q Total (m3/s)	* 61.02	* Flow (m3/s)	* 61.02	* 61.02	* 61.02
* Top Width (m)	* 7.47	* Top Width (m)	* 7.47	* 7.47	* 7.47
* Vel Total (m/s)	* 8.44	* Avg. Vel. (m/s)	* 8.44	* 8.44	* 8.44
* Max Chl Dpth (m)	* 1.37	* Hydr. Depth (m)	* 0.97	* 0.97	* 0.97
* Conv. Total (m3/s)	* 188.1	* Conv. (m3/s)	* 188.1	* 188.1	* 188.1
* Length Wtd. (m)	* 143.20	* Wetted Per. (m)	* 8.32	* 8.32	* 8.32
* Min Ch El (m)	* 372.96	* Shear (N/sq m)	* 897.27	* 897.27	* 897.27
* Alpha	* 1.00	* Stream Power (N/m s)	* 7575.34	* 7575.34	* 7575.34
* Frctn Loss (m)	* 0.94	* Cum Volume (cu m x 10 <sup>4</sup> )	* 0.02	* 0.07	* 0.03
* C & E Loss (m)	* 0.28	* Cum SA (1000 m2)	* 55.30	* 43.86	* 79.12

CROSS SECTION OUTPUT Riv Sta: 61 Profile # 100 yr Storm

* E.G. Elev (m)	* 378.29	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 3.65	* Wt. n-Val	* 0.035	* 0.035	* 0.035
* W.S. Elev (m)	* 374.64	* Reach Len. (m)	* 141.69	* 143.20	* 144.92
* Crit W.S. (m)	* 376.00	* Flow Area (m2)	* 9.61	* 9.61	* 9.61
* E.G. Slope (m/m)	* 0.081021	* Area (m2)	* 9.61	* 9.61	* 9.61
* Q Total (m3/s)	* 81.33	* Flow (m3/s)	* 81.33	* 81.33	* 81.33
* Top Width (m)	* 7.87	* Top Width (m)	* 7.87	* 7.87	* 7.87
* Vel Total (m/s)	* 8.46	* Avg. Vel. (m/s)	* 8.46	* 8.46	* 8.46
* Max Chl Dpth (m)	* 1.68	* Hydr. Depth (m)	* 1.22	* 1.22	* 1.22
* Conv. Total (m3/s)	* 285.7	* Conv. (m3/s)	* 285.7	* 285.7	* 285.7
* Length Wtd. (m)	* 143.24	* Wetted Per. (m)	* 9.06	* 9.06	* 9.06
* Min Ch El (m)	* 372.96	* Shear (N/sq m)	* 843.10	* 843.10	* 843.10
* Alpha	* 1.00	* Stream Power (N/m s)	* 7133.04	* 7133.04	* 7133.04
* Frctn Loss (m)	* 0.95	* Cum Volume (cu m x 10 <sup>4</sup> )	* 0.04	* 0.08	* 0.04
* C & E Loss (m)	* 0.26	* Cum SA (1000 m2)	* 69.64	* 44.17	* 99.92

CROSS SECTION INPUT River Station: 62  
Description:

Station Elevation Data, num = 11

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0377.66937	0.99144378	202712	85314378	080813	67202	377.5914	21932376	1483	
14.97923376	029517	63382	376.63319	23458377	800420	95916377	751624	68599377	7181
27.98863	377.715								

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .04512.85314 .03519.23458 .045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 12.8531 19.2346 30.57 25.02 17.72 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 62 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 378.74 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.52 \* Wt. n-Val \* 0.045 \* 0.035 \* 0.045 \*  
 \* W.S. Elev (m) \* 378.22 \* Reach Len. (m) \* 30.57 \* 25.02 \* 17.72 \*  
 \* Crit W.S. (m) \* 378.36 \* Flow Area (m2) \* 2.50 \* 9.31 \* 4.26 \*  
 \* E.G. Slope (m/m) \* 0.012181 \* Area (m2) \* 2.50 \* 9.31 \* 4.26 \*  
 \* Q Total (m3/s) \* 40.78 \* Flow (m3/s) \* 2.00 \* 32.56 \* 6.22 \*  
 \* Top Width (m) \* 27.99 \* Top Width (m) \* 12.85 \* 6.38 \* 8.75 \*  
 \* Vel Total (m/s) \* 2.54 \* Avg. Vel. (m/s) \* 0.80 \* 3.50 \* 1.46 \*  
 \* Max Chl Dpth (m) \* 2.19 \* Hydr. Depth (m) \* 0.19 \* 1.46 \* 0.49 \*  
 \* Conv. Total (m3/s) \* 369.5 \* Conv. (m3/s) \* 18.1 \* 295.0 \* 56.4 \*  
 \* Length Wtd. (m) \* 24.60 \* Wetted Per. (m) \* 13.43 \* 7.97 \* 9.26 \*  
 \* Min Ch El (m) \* 376.03 \* Shear (N/sq m) \* 22.22 \* 139.54 \* 54.92 \*  
 \* Alpha \* 1.57 \* Stream Power (N/m s) \* 17.76 \* 488.07 \* 80.24 \*  
 \* Frctn Loss (m) \* 0.77 \* Cum Volume (cu m x 10^ \* 0.02 \* 0.06 \* 0.02 \*  
 \* C & E Loss (m) \* 0.37 \* Cum SA (1000 m2) \* 43.48 \* 43.47 \* 64.83 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 62 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 379.17 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.86 \* Wt. n-Val \* 0.045 \* 0.035 \* 0.045 \*  
 \* W.S. Elev (m) \* 378.31 \* Reach Len. (m) \* 30.57 \* 25.02 \* 17.72 \*  
 \* Crit W.S. (m) \* 378.58 \* Flow Area (m2) \* 3.68 \* 9.90 \* 5.06 \*  
 \* E.G. Slope (m/m) \* 0.019613 \* Area (m2) \* 3.68 \* 9.90 \* 5.06 \*  
 \* Q Total (m3/s) \* 61.02 \* Flow (m3/s) \* 4.81 \* 45.75 \* 10.46 \*  
 \* Top Width (m) \* 27.99 \* Top Width (m) \* 12.85 \* 6.38 \* 8.75 \*  
 \* Vel Total (m/s) \* 3.27 \* Avg. Vel. (m/s) \* 1.31 \* 4.62 \* 2.07 \*  
 \* Max Chl Dpth (m) \* 2.28 \* Hydr. Depth (m) \* 0.29 \* 1.55 \* 0.58 \*  
 \* Conv. Total (m3/s) \* 435.7 \* Conv. (m3/s) \* 34.3 \* 326.7 \* 74.7 \*  
 \* Length Wtd. (m) \* 24.61 \* Wetted Per. (m) \* 13.52 \* 7.97 \* 9.35 \*  
 \* Min Ch El (m) \* 376.03 \* Shear (N/sq m) \* 52.34 \* 238.84 \* 104.10 \*  
 \* Alpha \* 1.58 \* Stream Power (N/m s) \* 68.41 \* 1104.07 \* 215.17 \*  
 \* Frctn Loss (m) \* 0.94 \* Cum Volume (cu m x 10^ \* 0.02 \* 0.07 \* 0.03 \*  
 \* C & E Loss (m) \* 0.32 \* Cum SA (1000 m2) \* 55.49 \* 44.04 \* 79.20 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 62 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 379.49 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.05 \* Wt. n-Val \* 0.045 \* 0.035 \* 0.045 \*  
 \* W.S. Elev (m) \* 378.44 \* Reach Len. (m) \* 30.57 \* 25.02 \* 17.72 \*  
 \* Crit W.S. (m) \* 378.77 \* Flow Area (m2) \* 5.34 \* 10.72 \* 6.19 \*  
 \* E.G. Slope (m/m) \* 0.022642 \* Area (m2) \* 5.34 \* 10.72 \* 6.19 \*  
 \* Q Total (m3/s) \* 81.33 \* Flow (m3/s) \* 9.56 \* 56.17 \* 15.60 \*  
 \* Top Width (m) \* 27.99 \* Top Width (m) \* 12.85 \* 6.38 \* 8.75 \*  
 \* Vel Total (m/s) \* 3.65 \* Avg. Vel. (m/s) \* 1.79 \* 5.24 \* 2.52 \*  
 \* Max Chl Dpth (m) \* 2.41 \* Hydr. Depth (m) \* 0.42 \* 1.68 \* 0.71 \*  
 \* Conv. Total (m3/s) \* 540.5 \* Conv. (m3/s) \* 63.5 \* 373.3 \* 103.7 \*  
 \* Length Wtd. (m) \* 24.65 \* Wetted Per. (m) \* 13.65 \* 7.97 \* 9.48 \*  
 \* Min Ch El (m) \* 376.03 \* Shear (N/sq m) \* 86.91 \* 298.73 \* 145.06 \*  
 \* Alpha \* 1.54 \* Stream Power (N/m s) \* 155.49 \* 1565.13 \* 365.18 \*  
 \* Frctn Loss (m) \* 0.98 \* Cum Volume (cu m x 10^ \* 0.04 \* 0.08 \* 0.04 \*  
 \* C & E Loss (m) \* 0.29 \* Cum SA (1000 m2) \* 69.84 \* 44.35 \* 100.00 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 63  
 Description:

Station Elevation Data, num = 19  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0 379.554.775144378.38568.916668378.531911.15905378.5349 13.0717378.4465  
 15.93751378.260618.04504376.989618.75652376.9225 19.3599376.797619.85415376.9225  
 20.44981377.0048 21.1351376.8433 22.3859376.6787 22.4316376.843322.66284377.5931  
 23.39 378.3324.18153379.254326.40934379.043929.27928379.0927

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .04515.93751 .035 23.39 .045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 15.9375 23.39 30.99 34.36 38.5 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 63 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 379.89 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.76 \* Wt. n-Val \* \* 0.035 \* \*  
 \* W.S. Elev (m) \* 378.13 \* Reach Len. (m) \* 30.99 \* 34.36 \* 38.50 \*  
 \* Crit W.S. (m) \* 378.81 \* Flow Area (m2) \* \* 6.94 \* \*  
 \* E.G. Slope (m/m) \* 0.053755 \* Area (m2) \* \* 6.94 \* \*  
 \* Q Total (m3/s) \* 40.78 \* Flow (m3/s) \* \* 40.78 \* \*  
 \* Top Width (m) \* 7.03 \* Top Width (m) \* \* 7.03 \* \*  
 \* Vel Total (m/s) \* 5.87 \* Avg. Vel. (m/s) \* \* 5.87 \* \*  
 \* Max Chl Dpth (m) \* 1.45 \* Hydr. Depth (m) \* \* 0.99 \* \*  
 \* Conv. Total (m3/s) \* 175.9 \* Conv. (m3/s) \* \* 175.9 \* \*  
 \* Length Wtd. (m) \* 34.59 \* Wetted Per. (m) \* \* 8.32 \* \*  
 \* Min Ch El (m) \* 376.68 \* Shear (N/sq m) \* \* 440.02 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* 2584.00 \* \*  
 \* Frctn Loss (m) \* 2.12 \* Cum Volume (cu m x 10^ \* 0.02 \* 0.06 \* 0.02 \*  
 \* C & E Loss (m) \* 0.14 \* Cum SA (1000 m2) \* 43.68 \* 43.70 \* 65.00 \*  
 \*\*\*\*\*

\*\*\*\*\*  
 CROSS SECTION OUTPUT Riv Sta: 63 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 380.43 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.92 \* Wt. n-Val \* 0.045 \* 0.035 \* 0.045 \*  
 \* W.S. Elev (m) \* 378.51 \* Reach Len. (m) \* 30.99 \* 34.36 \* 38.50 \*  
 \* Crit W.S. (m) \* 379.12 \* Flow Area (m2) \* 0.75 \* 9.76 \* 0.01 \*  
 \* E.G. Slope (m/m) \* 0.041143 \* Area (m2) \* 0.75 \* 9.76 \* 0.01 \*  
 \* Q Total (m3/s) \* 61.02 \* Flow (m3/s) \* 0.71 \* 60.30 \* 0.01 \*  
 \* Top Width (m) \* 15.90 \* Top Width (m) \* 8.29 \* 7.45 \* 0.15 \*  
 \* Vel Total (m/s) \* 5.80 \* Avg. Vel. (m/s) \* 0.95 \* 6.18 \* 0.68 \*  
 \* Max Chl Dpth (m) \* 1.83 \* Hydr. Depth (m) \* 0.09 \* 1.31 \* 0.09 \*  
 \* Conv. Total (m3/s) \* 300.8 \* Conv. (m3/s) \* 3.5 \* 297.3 \* 0.0 \*  
 \* Length Wtd. (m) \* 34.56 \* Wetted Per. (m) \* 8.31 \* 8.86 \* 0.24 \*  
 \* Min Ch El (m) \* 376.68 \* Shear (N/sq m) \* 36.19 \* 444.38 \* 23.67 \*  
 \* Alpha \* 1.12 \* Stream Power (N/m s) \* 34.34 \* 2746.51 \* 16.11 \*  
 \* Frctn Loss (m) \* 1.89 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.07 \* 0.03 \*  
 \* C & E Loss (m) \* 0.15 \* Cum SA (1000 m2) \* 55.82 \* 44.28 \* 79.37 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 63 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 380.76 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 2.02 \* Wt. n-Val \* 0.045 \* 0.035 \* 0.045 \*  
 \* W.S. Elev (m) \* 378.74 \* Reach Len. (m) \* 30.99 \* 34.36 \* 38.50 \*  
 \* Crit W.S. (m) \* 379.38 \* Flow Area (m2) \* 3.48 \* 11.47 \* 0.07 \*  
 \* E.G. Slope (m/m) \* 0.037059 \* Area (m2) \* 3.48 \* 11.47 \* 0.07 \*  
 \* Q Total (m3/s) \* 81.33 \* Flow (m3/s) \* 6.28 \* 74.97 \* 0.08 \*  
 \* Top Width (m) \* 20.42 \* Top Width (m) \* 12.62 \* 7.45 \* 0.35 \*  
 \* Vel Total (m/s) \* 5.41 \* Avg. Vel. (m/s) \* 1.81 \* 6.53 \* 1.12 \*  
 \* Max Chl Dpth (m) \* 2.06 \* Hydr. Depth (m) \* 0.28 \* 1.54 \* 0.21 \*  
 \* Conv. Total (m3/s) \* 422.5 \* Conv. (m3/s) \* 32.6 \* 389.4 \* 0.4 \*  
 \* Length Wtd. (m) \* 34.43 \* Wetted Per. (m) \* 12.67 \* 8.86 \* 0.54 \*  
 \* Min Ch El (m) \* 376.68 \* Shear (N/sq m) \* 99.72 \* 470.65 \* 48.53 \*  
 \* Alpha \* 1.35 \* Stream Power (N/m s) \* 180.13 \* 3075.61 \* 54.23 \*  
 \* Frctn Loss (m) \* 1.82 \* Cum Volume (cu m x 10^4) \* 0.04 \* 0.08 \* 0.04 \*  
 \* C & E Loss (m) \* 0.15 \* Cum SA (1000 m2) \* 70.24 \* 44.59 \* 100.18 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 64  
 Description:

Station Elevation Data, num = 16  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0382.94844.096505382.13777.907409381.896910.97371381.5128 12.62 381.23  
 13.74742381.403117.58852381.430519.66792381.3421 20.83 381.2822.17933379.5743  
 23.83533379.482925.30553379.690128.05953381.387929.98743381.927432.03774382.8997  
 34.13 383.42

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .06 12.62 .045 20.83 .06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 20.83 28.0595 65.25 68.84 72.27 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 64 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 382.14 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.39 \* Wt. n-Val \* 0.047 \* 0.060 \* 0.060 \*  
 \* W.S. Elev (m) \* 381.74 \* Reach Len. (m) \* 65.25 \* 68.84 \* 72.27 \*  
 \* Crit W.S. (m) \* 381.74 \* Flow Area (m2) \* 3.81 \* 11.93 \* 0.23 \*  
 \* E.G. Slope (m/m) \* 0.019965 \* Area (m2) \* 3.81 \* 11.93 \* 0.23 \*  
 \* Q Total (m3/s) \* 40.78 \* Flow (m3/s) \* 5.51 \* 35.11 \* 0.16 \*  
 \* Top Width (m) \* 20.20 \* Top Width (m) \* 11.71 \* 7.22 \* 1.27 \*  
 \* Vel Total (m/s) \* 2.55 \* Avg. Vel. (m/s) \* 1.44 \* 2.94 \* 0.73 \*  
 \* Max Chl Dpth (m) \* 2.26 \* Hydr. Depth (m) \* 0.33 \* 1.65 \* 0.18 \*  
 \* Conv. Total (m3/s) \* 288.6 \* Conv. (m3/s) \* 39.0 \* 248.5 \* 1.2 \*  
 \* Length Wtd. (m) \* 68.60 \* Wetted Per. (m) \* 11.76 \* 8.55 \* 1.32 \*  
 \* Min Ch El (m) \* 379.48 \* Shear (N/sq m) \* 63.47 \* 273.40 \* 33.55 \*  
 \* Alpha \* 1.19 \* Stream Power (N/m s) \* 91.69 \* 804.37 \* 24.38 \*  
 \* Frctn Loss (m) \* 0.80 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.06 \* 0.02 \*  
 \* C & E Loss (m) \* 0.00 \* Cum SA (1000 m2) \* 44.06 \* 44.19 \* 65.04 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 64 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 382.48 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.45 \* Wt. n-Val \* 0.047 \* 0.060 \* 0.060 \*  
 \* W.S. Elev (m) \* 382.02 \* Reach Len. (m) \* 65.25 \* 68.84 \* 72.27 \*  
 \* Crit W.S. (m) \* 382.02 \* Flow Area (m2) \* 7.47 \* 13.96 \* 0.72 \*  
 \* E.G. Slope (m/m) \* 0.019875 \* Area (m2) \* 7.47 \* 13.96 \* 0.72 \*  
 \* Q Total (m3/s) \* 61.02 \* Flow (m3/s) \* 14.74 \* 45.49 \* 0.79 \*  
 \* Top Width (m) \* 24.30 \* Top Width (m) \* 14.94 \* 7.22 \* 2.13 \*  
 \* Vel Total (m/s) \* 2.76 \* Avg. Vel. (m/s) \* 1.97 \* 3.26 \* 1.10 \*  
 \* Max Chl Dpth (m) \* 2.54 \* Hydr. Depth (m) \* 0.50 \* 1.93 \* 0.34 \*  
 \* Conv. Total (m3/s) \* 432.8 \* Conv. (m3/s) \* 104.6 \* 322.6 \* 5.6 \*  
 \* Length Wtd. (m) \* 68.41 \* Wetted Per. (m) \* 15.01 \* 8.55 \* 2.23 \*  
 \* Min Ch El (m) \* 379.48 \* Shear (N/sq m) \* 97.01 \* 318.36 \* 62.68 \*  
 \* Alpha \* 1.17 \* Stream Power (N/m s) \* 191.44 \* 1037.45 \* 69.12 \*  
 \* Frctn Loss (m) \* 0.79 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.07 \* 0.03 \*  
 \* C & E Loss (m) \* 0.00 \* Cum SA (1000 m2) \* 56.58 \* 44.78 \* 79.46 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 64 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 382.74 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 0.51 \* Wt. n-Val \* 0.048 \* 0.060 \* 0.060 \*  
 \* W.S. Elev (m) \* 382.24 \* Reach Len. (m) \* 65.25 \* 68.84 \* 72.27 \*  
 \* Crit W.S. (m) \* 382.24 \* Flow Area (m2) \* 10.96 \* 15.50 \* 1.22 \*  
 \*\*\*\*\*



* E.G. Slope (m/m)	* 0.020058	* Area (m2)	* 10.96	* 15.50	* 1.22
* Q Total (m3/s)	* 81.33	* Flow (m3/s)	* 25.25	* 54.40	* 1.68
* Top Width (m)	* 27.05	* Top Width (m)	* 17.24	* 7.22	* 2.58
* Vel Total (m/s)	* 2.94	* Avg. Vel. (m/s)	* 2.30	* 3.51	* 1.38
* Max Chl Dpth (m)	* 2.75	* Hydr. Depth (m)	* 0.64	* 2.15	* 0.47
* Conv. Total (m3/s)	* 574.3	* Conv. (m3/s)	* 178.3	* 384.1	* 11.9
* Length Wtd. (m)	* 68.18	* Wetted Per. (m)	* 17.33	* 8.55	* 2.73
* Min Ch El (m)	* 379.48	* Shear (N/sq m)	* 124.46	* 356.74	* 87.97
* Alpha	* 1.15	* Stream Power (N/m s)	* 286.61	* 1252.29	* 121.43
* Frctn Loss (m)	* 0.78	* Cum Volume (cu m x 10^4)	* 0.04	* 0.08	* 0.04
* C & E Loss (m)	* 0.00	* Cum SA (1000 m2)	* 71.21	* 45.09	* 100.28

CROSS SECTION INPUT River Station: 65  
Description:

Station Elevation Data, num = 15

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0388.00512	6.67693387	78264.642252387	4.1688	399539387	2.126	10.0761386	8926	11.80707387	0.69315
51934387	0.17516	59987387	0.05318	49514386	6.70120	10064	383.936	22.57939	383.74725
53993	383.93926	69715386	1.24529	49653387	0.23632	32206387	8039		

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.0618	49514	.03526	69715	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
18.4951	26.6972	177.4	176.08	175.54	0.1	0.3

CROSS SECTION OUTPUT Riv Sta: 65 Profile # Storm Event

* E.G. Elev (m)	* 386.88	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 1.92	* Wt. n-Val	* 0.035	* *	* *
* W.S. Elev (m)	* 384.96	* Reach Len. (m)	* 177.40	* 176.08	* 175.54
* Crit W.S. (m)	* 385.54	* Flow Area (m2)	* *	* 6.64	* *
* E.G. Slope (m/m)	* 0.057015	* Area (m2)	* *	* 6.64	* *
* Q Total (m3/s)	* 40.78	* Flow (m3/s)	* *	* 40.78	* *
* Top Width (m)	* 6.58	* Top Width (m)	* *	* 6.58	* *
* Vel Total (m/s)	* 6.14	* Avg. Vel. (m/s)	* *	* 6.14	* *
* Max Chl Dpth (m)	* 1.21	* Hydr. Depth (m)	* *	* 1.01	* *
* Conv. Total (m3/s)	* 170.8	* Conv. (m3/s)	* *	* 170.8	* *
* Length Wtd. (m)	* 176.17	* Wetted Per. (m)	* *	* 7.79	* *
* Min Ch El (m)	* 383.75	* Shear (N/sq m)	* *	* 477.03	* *
* Alpha	* 1.00	* Stream Power (N/m s)	* *	* 2927.46	* *
* Frctn Loss (m)	* 4.61	* Cum Volume (cu m x 10^4)	* 0.02	* 0.06	* 0.02
* C & E Loss (m)	* 0.06	* Cum SA (1000 m2)	* 45.10	* 45.41	* 65.15

CROSS SECTION OUTPUT Riv Sta: 65 Profile # 25 yr Storm

* E.G. Elev (m)	* 387.68	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 2.38	* Wt. n-Val	* 0.035	* *	* *
* W.S. Elev (m)	* 385.29	* Reach Len. (m)	* 177.40	* 176.08	* 175.54
* Crit W.S. (m)	* 386.03	* Flow Area (m2)	* *	* 8.92	* *
* E.G. Slope (m/m)	* 0.054274	* Area (m2)	* *	* 8.92	* *
* Q Total (m3/s)	* 61.02	* Flow (m3/s)	* *	* 61.02	* *
* Top Width (m)	* 6.95	* Top Width (m)	* *	* 6.95	* *
* Vel Total (m/s)	* 6.84	* Avg. Vel. (m/s)	* *	* 6.84	* *
* Max Chl Dpth (m)	* 1.55	* Hydr. Depth (m)	* *	* 1.28	* *
* Conv. Total (m3/s)	* 261.9	* Conv. (m3/s)	* *	* 261.9	* *
* Length Wtd. (m)	* 176.24	* Wetted Per. (m)	* *	* 8.56	* *
* Min Ch El (m)	* 383.75	* Shear (N/sq m)	* *	* 554.64	* *
* Alpha	* 1.00	* Stream Power (N/m s)	* *	* 3794.64	* *
* Frctn Loss (m)	* 4.57	* Cum Volume (cu m x 10^4)	* 0.03	* 0.07	* 0.03
* C & E Loss (m)	* 0.06	* Cum SA (1000 m2)	* 57.91	* 46.03	* 79.64

CROSS SECTION OUTPUT Riv Sta: 65 Profile # 100 yr Storm

* E.G. Elev (m)	* 388.49	* Element	* Left OB	* Channel	* Right OB
* Vel Head (m)	* 2.95	* Wt. n-Val	* 0.035	* *	* *
* W.S. Elev (m)	* 385.54	* Reach Len. (m)	* 177.40	* 176.08	* 175.54
* Crit W.S. (m)	* 386.46	* Flow Area (m2)	* *	* 10.69	* *
* E.G. Slope (m/m)	* 0.057400	* Area (m2)	* *	* 10.69	* *
* Q Total (m3/s)	* 81.33	* Flow (m3/s)	* *	* 81.33	* *
* Top Width (m)	* 7.23	* Top Width (m)	* *	* 7.23	* *
* Vel Total (m/s)	* 7.60	* Avg. Vel. (m/s)	* *	* 7.60	* *
* Max Chl Dpth (m)	* 1.80	* Hydr. Depth (m)	* *	* 1.48	* *
* Conv. Total (m3/s)	* 339.5	* Conv. (m3/s)	* *	* 339.5	* *
* Length Wtd. (m)	* 176.28	* Wetted Per. (m)	* *	* 9.13	* *
* Min Ch El (m)	* 383.75	* Shear (N/sq m)	* *	* 659.18	* *
* Alpha	* 1.00	* Stream Power (N/m s)	* *	* 5013.07	* *
* Frctn Loss (m)	* 4.24	* Cum Volume (cu m x 10^4)	* 0.04	* 0.08	* 0.04
* C & E Loss (m)	* 0.11	* Cum SA (1000 m2)	* 72.74	* 46.37	* 100.51

CROSS SECTION INPUT River Station: 66  
Description:

Station Elevation Data, num = 11

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0391.0379	9.617162391	0.08662	343458391	1.689	4.2839391	1.9339	0.18466390	9952	10.40121389
038415	3.1035388	782316	0.7455388	840216	1.0008388	9926	16.4085390	7666	19.84049390
9373									

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.0459	018466	.035	16.4085	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 9.01847 16.4085 99.62 102.42 104.88 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 66 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 391.55 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.37 \* Wt. n-Val \* \* \* 0.035 \* \*  
 \* W.S. Elev (m) \* 390.17 \* Reach Len. (m) \* 99.62 \* 102.42 \* 104.88 \*  
 \* Crit W.S. (m) \* 390.57 \* Flow Area (m2) \* \* \* 7.86 \* \*  
 \* E.G. Slope (m/m) \* 0.036196 \* Area (m2) \* \* \* 7.86 \* \*  
 \* Q Total (m3/s) \* 40.78 \* Flow (m3/s) \* \* \* 40.78 \* \*  
 \* Top Width (m) \* 6.71 \* Top Width (m) \* \* \* 6.71 \* \*  
 \* Vel Total (m/s) \* 5.19 \* Avg. Vel. (m/s) \* \* \* 5.19 \* \*  
 \* Max Chl Dpth (m) \* 1.39 \* Hydr. Depth (m) \* \* \* 1.17 \* \*  
 \* Conv. Total (m3/s) \* 214.3 \* Conv. (m3/s) \* \* \* 214.3 \* \*  
 \* Length Wtd. (m) \* 102.42 \* Wetted Per. (m) \* \* \* 8.43 \* \*  
 \* Min Ch El (m) \* 388.78 \* Shear (N/sq m) \* \* \* 331.02 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* \* 1717.51 \* \*  
 \* Frctn Loss (m) \* 0.84 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.06 \* 0.02 \*  
 \* C & E Loss (m) \* 0.10 \* Cum SA (1000 m2) \* 45.10 \* 46.09 \* 65.15 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 66 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 392.32 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.79 \* Wt. n-Val \* \* \* 0.035 \* \*  
 \* W.S. Elev (m) \* 390.53 \* Reach Len. (m) \* 99.62 \* 102.42 \* 104.88 \*  
 \* Crit W.S. (m) \* 391.32 \* Flow Area (m2) \* \* \* 10.30 \* \*  
 \* E.G. Slope (m/m) \* 0.037107 \* Area (m2) \* \* \* 10.30 \* \*  
 \* Q Total (m3/s) \* 61.02 \* Flow (m3/s) \* \* \* 61.02 \* \*  
 \* Top Width (m) \* 7.02 \* Top Width (m) \* \* \* 7.02 \* \*  
 \* Vel Total (m/s) \* 5.92 \* Avg. Vel. (m/s) \* \* \* 5.92 \* \*  
 \* Max Chl Dpth (m) \* 1.75 \* Hydr. Depth (m) \* \* \* 1.47 \* \*  
 \* Conv. Total (m3/s) \* 316.8 \* Conv. (m3/s) \* \* \* 316.8 \* \*  
 \* Length Wtd. (m) \* 102.42 \* Wetted Per. (m) \* \* \* 9.22 \* \*  
 \* Min Ch El (m) \* 388.78 \* Shear (N/sq m) \* \* \* 406.35 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* \* 2407.20 \* \*  
 \* Frctn Loss (m) \* 0.71 \* Cum Volume (cu m x 10^4) \* 0.03 \* 0.07 \* 0.03 \*  
 \* C & E Loss (m) \* 0.01 \* Cum SA (1000 m2) \* 57.91 \* 46.74 \* 79.64 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 66 Profile # 100 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 392.84 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.90 \* Wt. n-Val \* \* \* 0.035 \* \*  
 \* W.S. Elev (m) \* 390.94 \* Reach Len. (m) \* 99.62 \* 102.42 \* 104.88 \*  
 \* Crit W.S. (m) \* 391.65 \* Flow Area (m2) \* \* \* 13.28 \* \*  
 \* E.G. Slope (m/m) \* 0.031220 \* Area (m2) \* \* \* 13.28 \* \*  
 \* Q Total (m3/s) \* 81.33 \* Flow (m3/s) \* \* \* 81.14 \* \*  
 \* Top Width (m) \* 10.79 \* Top Width (m) \* \* \* 7.35 \* \*  
 \* Vel Total (m/s) \* 5.98 \* Avg. Vel. (m/s) \* \* \* 6.11 \* \*  
 \* Max Chl Dpth (m) \* 2.16 \* Hydr. Depth (m) \* \* \* 1.81 \* \*  
 \* Conv. Total (m3/s) \* 460.3 \* Conv. (m3/s) \* \* \* 459.2 \* \*  
 \* Length Wtd. (m) \* 102.42 \* Wetted Per. (m) \* \* \* 9.97 \* \*  
 \* Min Ch El (m) \* 388.78 \* Shear (N/sq m) \* \* \* 407.73 \* \*  
 \* Alpha \* 1.04 \* Stream Power (N/m s) \* \* \* 2491.46 \* \*  
 \* Frctn Loss (m) \* 0.68 \* Cum Volume (cu m x 10^4) \* 0.04 \* 0.08 \* 0.04 \*  
 \* C & E Loss (m) \* 0.00 \* Cum SA (1000 m2) \* 72.74 \* 47.11 \* 100.69 \*  
 \*\*\*\*\*

CROSS SECTION INPUT River Station: 67  
 Description:

Station Elevation Data, num = 18  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0393.2842 5.52037392.491710.41059391.796815.45132391.5225 20.099391.3366  
 24.98 390.8825.25256 389.01726.18397389.126827.85348389.178628.87123389.0993  
 30.41 391.631.87071391.507234.36873391.278636.99354391.1963 39.17 391.88  
 40.54516391.827342.93254392.0925 44.25 392.38

Mannings n Values, num = 4  
 Sta. Value Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .06 24.98 .035 30.41 .045 39.17 .06  
 Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 24.98 30.41 20.14 21.09 20.55 0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 67 Profile # Storm Event  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 392.48 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.71 \* Wt. n-Val \* \* \* 0.035 \* \*  
 \* W.S. Elev (m) \* 390.77 \* Reach Len. (m) \* 20.14 \* 21.09 \* 20.55 \*  
 \* Crit W.S. (m) \* 391.63 \* Flow Area (m2) \* \* \* 7.03 \* \*  
 \* E.G. Slope (m/m) \* 0.043824 \* Area (m2) \* \* \* 7.03 \* \*  
 \* Q Total (m3/s) \* 40.78 \* Flow (m3/s) \* \* \* 40.78 \* \*  
 \* Top Width (m) \* 4.90 \* Top Width (m) \* \* \* 4.90 \* \*  
 \* Vel Total (m/s) \* 5.80 \* Avg. Vel. (m/s) \* \* \* 5.80 \* \*  
 \* Max Chl Dpth (m) \* 1.75 \* Hydr. Depth (m) \* \* \* 1.43 \* \*  
 \* Conv. Total (m3/s) \* 194.8 \* Conv. (m3/s) \* \* \* 194.8 \* \*  
 \* Length Wtd. (m) \* 21.09 \* Wetted Per. (m) \* \* \* 7.37 \* \*  
 \* Min Ch El (m) \* 389.02 \* Shear (N/sq m) \* \* \* 410.32 \* \*  
 \* Alpha \* 1.00 \* Stream Power (N/m s) \* \* \* 2379.56 \* \*  
 \* Frctn Loss (m) \* 0.24 \* Cum Volume (cu m x 10^4) \* 0.02 \* 0.06 \* 0.02 \*  
 \* C & E Loss (m) \* 0.13 \* Cum SA (1000 m2) \* 45.10 \* 46.21 \* 65.15 \*  
 \*\*\*\*\*

CROSS SECTION OUTPUT Riv Sta: 67 Profile # 25 yr Storm  
 \*\*\*\*\*  
 \* E.G. Elev (m) \* 393.04 \* Element \* Left OB \* Channel \* Right OB \*  
 \* Vel Head (m) \* 1.66 \* Wt. n-Val \* \* \* 0.060 \* \*  
 \* W.S. Elev (m) \* 391.39 \* Reach Len. (m) \* 20.14 \* 21.09 \* 20.55 \*  
 \*\*\*\*\*

```

* Crit W.S. (m) * 392.01 * Flow Area (m2) * 1.40 * 10.18 * 0.52 *
* E.G. Slope (m/m) * 0.030811 * Area (m2) * 1.40 * 10.18 * 0.52 *
* Q Total (m3/s) * 61.02 * Flow (m3/s) * 1.52 * 59.02 * 0.49 *
* Top Width (m) * 15.91 * Top Width (m) * 6.17 * 5.30 * 4.44 *
* Vel Total (m/s) * 5.04 * Avg. Vel. (m/s) * 1.09 * 5.79 * 0.93 *
* Max Chl Dpth (m) * 2.37 * Hydr. Depth (m) * 0.23 * 1.92 * 0.12 *
* Conv. Total (m3/s) * 347.6 * Conv. (m3/s) * 8.7 * 336.2 * 2.8 *
* Length Wtd. (m) * 21.08 * Wetted Per. (m) * 6.20 * 8.20 * 4.47 *
* Min Ch El (m) * 389.02 * Shear (N/sq m) * 68.26 * 375.25 * 35.23 *
* Alpha * 1.28 * Stream Power (N/m s) * 74.07 * 2174.35 * 32.79 *
* Frctn Loss (m) * 0.36 * Cum Volume (cu m x 10^4) * 0.03 * 0.07 * 0.03 *
* C & E Loss (m) * 0.06 * Cum SA (1000 m2) * 57.97 * 46.87 * 79.69 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 67 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 393.53 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.91 * Wt. n-Val * 0.060 * 0.035 * 0.045 *
* W.S. Elev (m) * 391.62 * Reach Len. (m) * 20.14 * 21.09 * 20.55 *
* Crit W.S. (m) * 392.23 * Flow Area (m2) * 3.45 * 11.42 * 1.94 *
* E.G. Slope (m/m) * 0.033877 * Area (m2) * 3.45 * 11.42 * 1.94 *
* Q Total (m3/s) * 81.33 * Flow (m3/s) * 4.80 * 73.44 * 3.09 *
* Top Width (m) * 24.65 * Top Width (m) * 11.29 * 5.43 * 7.93 *
* Vel Total (m/s) * 4.84 * Avg. Vel. (m/s) * 1.39 * 6.43 * 1.59 *
* Max Chl Dpth (m) * 2.60 * Hydr. Depth (m) * 0.31 * 2.10 * 0.25 *
* Conv. Total (m3/s) * 441.9 * Conv. (m3/s) * 26.1 * 399.0 * 16.8 *
* Length Wtd. (m) * 21.05 * Wetted Per. (m) * 11.32 * 8.45 * 8.01 *
* Min Ch El (m) * 389.02 * Shear (N/sq m) * 101.32 * 449.23 * 80.60 *
* Alpha * 1.61 * Stream Power (N/m s) * 140.82 * 2888.74 * 128.28 *
* Frctn Loss (m) * 0.47 * Cum Volume (cu m x 10^4) * 0.04 * 0.08 * 0.04 *
* C & E Loss (m) * 0.03 * Cum SA (1000 m2) * 72.85 * 47.25 * 100.81 *
*****

```

CROSS SECTION INPUT River Station: 68  
Description:

```

Station Elevation Data, num = 15
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0 393.3972.739694392.052813.21189 392.25418.71423391.955322.55782391.6322
22.84607389.934523.58307389.6906 25.22389.724225.91195390.038128.27222392.3942
28.94563392.409529.28391392.418634.38072392.4552 40.5416 392.19344.63651 392.51

```

```

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .0622.55782 .03528.27222 .045

```

```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
22.5578 28.2722 15.44 15.04 16.28 0.1 0.3

```

```

CROSS SECTION OUTPUT Riv Sta: 68 Profile # Storm Event
*****
* E.G. Elev (m) * 392.85 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.45 * Wt. n-Val * 0.060 * 0.035 * 0.045 *
* W.S. Elev (m) * 392.40 * Reach Len. (m) * 15.44 * 15.04 * 16.28 *
* Crit W.S. (m) * 392.51 * Flow Area (m2) * 6.63 * 11.31 * 0.77 *
* E.G. Slope (m/m) * 0.008029 * Area (m2) * 6.63 * 11.31 * 0.77 *
* Q Total (m3/s) * 40.78 * Flow (m3/s) * 4.65 * 35.79 * 0.34 *
* Top Width (m) * 33.93 * Top Width (m) * 20.52 * 5.71 * 7.69 *
* Vel Total (m/s) * 2.18 * Avg. Vel. (m/s) * 0.70 * 3.16 * 0.44 *
* Max Chl Dpth (m) * 2.71 * Hydr. Depth (m) * 0.32 * 1.98 * 0.10 *
* Conv. Total (m3/s) * 455.1 * Conv. (m3/s) * 51.9 * 399.4 * 3.8 *
* Length Wtd. (m) * 15.07 * Wetted Per. (m) * 20.63 * 8.23 * 7.70 *
* Min Ch El (m) * 389.69 * Shear (N/sq m) * 25.33 * 108.21 * 7.89 *
* Alpha * 1.86 * Stream Power (N/m s) * 17.76 * 342.42 * 3.45 *
* Frctn Loss (m) * 0.22 * Cum Volume (cu m x 10^4) * 0.02 * 0.06 * 0.02 *
* C & E Loss (m) * 0.42 * Cum SA (1000 m2) * 45.26 * 46.29 * 65.22 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 68 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 393.46 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.09 * Wt. n-Val * 0.060 * 0.035 * 0.045 *
* W.S. Elev (m) * 392.37 * Reach Len. (m) * 15.44 * 15.04 * 16.28 *
* Crit W.S. (m) * 392.74 * Flow Area (m2) * 6.04 * 11.14 * 0.57 *
* E.G. Slope (m/m) * 0.019422 * Area (m2) * 6.04 * 11.14 * 0.57 *
* Q Total (m3/s) * 61.02 * Flow (m3/s) * 6.20 * 54.47 * 0.35 *
* Top Width (m) * 32.59 * Top Width (m) * 20.46 * 5.69 * 6.44 *
* Vel Total (m/s) * 3.44 * Avg. Vel. (m/s) * 1.03 * 4.89 * 0.61 *
* Max Chl Dpth (m) * 2.68 * Hydr. Depth (m) * 0.30 * 1.96 * 0.09 *
* Conv. Total (m3/s) * 437.8 * Conv. (m3/s) * 44.5 * 390.8 * 2.5 *
* Length Wtd. (m) * 15.07 * Wetted Per. (m) * 20.56 * 8.20 * 6.45 *
* Min Ch El (m) * 389.69 * Shear (N/sq m) * 55.96 * 259.01 * 16.82 *
* Alpha * 1.81 * Stream Power (N/m s) * 57.44 * 1265.89 * 10.33 *
* Frctn Loss (m) * 0.40 * Cum Volume (cu m x 10^4) * 0.03 * 0.07 * 0.03 *
* C & E Loss (m) * 0.36 * Cum SA (1000 m2) * 58.17 * 46.96 * 79.78 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 68 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 394.03 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.59 * Wt. n-Val * 0.060 * 0.035 * 0.045 *
* W.S. Elev (m) * 392.44 * Reach Len. (m) * 15.44 * 15.04 * 16.28 *
* Crit W.S. (m) * 392.92 * Flow Area (m2) * 7.55 * 11.56 * 1.22 *
* E.G. Slope (m/m) * 0.028112 * Area (m2) * 7.55 * 11.56 * 1.22 *
* Q Total (m3/s) * 81.33 * Flow (m3/s) * 10.76 * 69.49 * 1.08 *
* Top Width (m) * 39.86 * Top Width (m) * 20.61 * 5.71 * 13.53 *
* Vel Total (m/s) * 4.00 * Avg. Vel. (m/s) * 1.42 * 6.01 * 0.89 *
* Max Chl Dpth (m) * 2.75 * Hydr. Depth (m) * 0.37 * 2.02 * 0.09 *
* Conv. Total (m3/s) * 485.1 * Conv. (m3/s) * 64.1 * 414.5 * 6.5 *
* Length Wtd. (m) * 15.11 * Wetted Per. (m) * 20.73 * 8.23 * 13.54 *
* Min Ch El (m) * 389.69 * Shear (N/sq m) * 100.39 * 387.36 * 24.82 *

```

```

* Alpha * 1.95 * Stream Power (N/m s) * 143.05 * 2327.81 * 22.02 *
* Frctn Loss (m) * 0.49 * Cum Volume (cu m x 10^ * 0.04 * 0.08 * 0.04 *
* C & E Loss (m) * 0.31 * Cum SA (1000 m2) * 73.10 * 47.33 * 100.98 *
*****

```

CROSS SECTION INPUT River Station: 69  
Description:

```

Station Elevation Data, num = 14
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0 394.1562.994634393.79327.504286393.67448.204859390.861111.42194 390.794
11.59414390.525814.41475390.531916.88323392.586218.31532392.586226.81967392.7661
30.88474392.918533.24903392.686836.19816392.848438.44666393.1958

```

```

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .067.504286 .03516.88323 .045

```

```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
7.50429 16.8832 12.5 12.78 13.16 0.1 0.3

```

```

CROSS SECTION OUTPUT Riv Sta: 69 Profile # Storm Event
*****
* E.G. Elev (m) * 393.49 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 1.85 * Wt. n-Val * * 0.035 * *
* W.S. Elev (m) * 391.65 * Reach Len. (m) * 12.50 * 12.78 * 13.16 *
* Crit W.S. (m) * 392.20 * Flow Area (m2) * * 6.77 * *
* E.G. Slope (m/m) * 0.064038 * Area (m2) * * 6.77 * *
* Q Total (m3/s) * 40.78 * Flow (m3/s) * * 40.78 * *
* Top Width (m) * 7.74 * Top Width (m) * * 7.74 * *
* Vel Total (m/s) * 6.02 * Avg. Vel. (m/s) * * 6.02 * *
* Max Chl Dpth (m) * 1.12 * Hydr. Depth (m) * * 0.87 * *
* Conv. Total (m3/s) * 161.1 * Conv. (m3/s) * * 161.1 * *
* Length Wtd. (m) * 12.77 * Wetted Per. (m) * * 8.91 * *
* Min Ch El (m) * 390.53 * Shear (N/sq m) * * 477.46 * *
* Alpha * 1.00 * Stream Power (N/m s) * * 2875.66 * *
* Frctn Loss (m) * 5.69 * Cum Volume (cu m x 10^ * 0.02 * 0.06 * 0.02 *
* C & E Loss (m) * 0.08 * Cum SA (1000 m2) * 45.38 * 46.38 * 65.27 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 69 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 394.23 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 2.29 * Wt. n-Val * * 0.035 * *
* W.S. Elev (m) * 391.94 * Reach Len. (m) * 12.50 * 12.78 * 13.16 *
* Crit W.S. (m) * 392.91 * Flow Area (m2) * * 9.09 * *
* E.G. Slope (m/m) * 0.059773 * Area (m2) * * 9.09 * *
* Q Total (m3/s) * 61.02 * Flow (m3/s) * * 61.02 * *
* Top Width (m) * 8.17 * Top Width (m) * * 8.17 * *
* Vel Total (m/s) * 6.71 * Avg. Vel. (m/s) * * 6.71 * *
* Max Chl Dpth (m) * 1.41 * Hydr. Depth (m) * * 1.11 * *
* Conv. Total (m3/s) * 249.6 * Conv. (m3/s) * * 249.6 * *
* Length Wtd. (m) * 12.77 * Wetted Per. (m) * * 9.66 * *
* Min Ch El (m) * 390.53 * Shear (N/sq m) * * 551.72 * *
* Alpha * 1.00 * Stream Power (N/m s) * * 3701.32 * *
* Frctn Loss (m) * 5.42 * Cum Volume (cu m x 10^ * 0.03 * 0.07 * 0.03 *
* C & E Loss (m) * 0.11 * Cum SA (1000 m2) * 58.30 * 47.05 * 79.82 *
*****

```

```

CROSS SECTION OUTPUT Riv Sta: 69 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 394.82 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 2.61 * Wt. n-Val * * 0.035 * *
* W.S. Elev (m) * 392.21 * Reach Len. (m) * 12.50 * 12.78 * 13.16 *
* Crit W.S. (m) * 393.24 * Flow Area (m2) * * 11.37 * *
* E.G. Slope (m/m) * 0.055460 * Area (m2) * * 11.37 * *
* Q Total (m3/s) * 81.33 * Flow (m3/s) * * 81.33 * *
* Top Width (m) * 8.56 * Top Width (m) * * 8.56 * *
* Vel Total (m/s) * 7.15 * Avg. Vel. (m/s) * * 7.15 * *
* Max Chl Dpth (m) * 1.68 * Hydr. Depth (m) * * 1.33 * *
* Conv. Total (m3/s) * 345.4 * Conv. (m3/s) * * 345.4 * *
* Length Wtd. (m) * 12.76 * Wetted Per. (m) * * 10.37 * *
* Min Ch El (m) * 390.53 * Shear (N/sq m) * * 596.31 * *
* Alpha * 1.00 * Stream Power (N/m s) * * 4266.14 * *
* Frctn Loss (m) * 5.21 * Cum Volume (cu m x 10^ * 0.04 * 0.08 * 0.04 *
* C & E Loss (m) * 0.13 * Cum SA (1000 m2) * 73.23 * 47.42 * 101.07 *
*****

```

CROSS SECTION INPUT River Station: 70  
Description:

```

Station Elevation Data, num = 19
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.
*****
0400.59642.060675 399.0456.066986398.843810.16914398.484115.25576397.8867
19.11231398.194619.39691396.972321.13127396.484622.30937396.490723.69066396.5608
26.59383 399.04828.86689399.322329.32405399.352833.10229399.346735.16999399.0572
37.21377399.459541.88951399.483948.67592400.172752.06664401.3919

```

```

Mannings n Values, num = 3
Sta. Value Sta. Value Sta. Value
*****
0 .0719.11231 .03526.59383 .045

```

```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
19.1123 26.5938 161.87 157.07 154.37 0.1 0.3

```

```

CROSS SECTION OUTPUT Riv Sta: 70 Profile # Storm Event
*****
* E.G. Elev (m) * 399.26 * Element * Left OB * Channel * Right OB *

```

* Vel Head (m)	* 1.04	* Wt. n-Val	* 0.070	* 0.035	*
* W.S. Elev (m)	* 398.22	* Reach Len. (m)	* 161.87	* 157.07	* 154.37
* Crit W.S. (m)	* 398.55	* Flow Area (m2)	* 1.17	* 8.77	*
* E.G. Slope (m/m)	* 0.023203	* Area (m2)	* 1.17	* 8.77	*
* Q Total (m3/s)	* 40.78	* Flow (m3/s)	* 0.80	* 39.98	*
* Top Width (m)	* 13.22	* Top Width (m)	* 6.71	* 6.52	*
* Vel Total (m/s)	* 4.10	* Avg. Vel. (m/s)	* 0.68	* 4.56	*
* Max Chl Dpth (m)	* 1.74	* Hydr. Depth (m)	* 0.18	* 1.35	*
* Conv. Total (m3/s)	* 267.7	* Conv. (m3/s)	* 5.2	* 262.5	*
* Length Wtd. (m)	* 157.12	* Wetted Per. (m)	* 6.74	* 8.17	*
* Min Ch El (m)	* 396.48	* Shear (N/sq m)	* 39.65	* 244.14	*
* Alpha	* 1.21	* Stream Power (N/m s)	* 26.92	* 1113.55	*
* Frctn Loss (m)	* 5.46	* Cum Volume (cu m x 10^4)	* 0.02	* 0.06	* 0.02
* C & E Loss (m)	* 0.01	* Cum SA (1000 m2)	* 45.93	* 47.50	* 65.27

CROSS SECTION OUTPUT Riv Sta: 70 Profile # 25 yr Storm

* E.G. Elev (m)	* 399.77	* Element	* Left OB	* Channel	* Right OB	*
* Vel Head (m)	* 1.20	* Wt. n-Val	* 0.070	* 0.035	*	*
* W.S. Elev (m)	* 398.58	* Reach Len. (m)	* 161.87	* 157.07	* 154.37	*
* Crit W.S. (m)	* 398.92	* Flow Area (m2)	* 4.11	* 11.16	*	*
* E.G. Slope (m/m)	* 0.022359	* Area (m2)	* 4.11	* 11.16	*	*
* Q Total (m3/s)	* 61.02	* Flow (m3/s)	* 4.83	* 56.19	*	*
* Top Width (m)	* 16.93	* Top Width (m)	* 10.00	* 6.93	*	*
* Vel Total (m/s)	* 4.00	* Avg. Vel. (m/s)	* 1.18	* 5.04	*	*
* Max Chl Dpth (m)	* 2.09	* Hydr. Depth (m)	* 0.41	* 1.61	*	*
* Conv. Total (m3/s)	* 408.1	* Conv. (m3/s)	* 32.3	* 375.8	*	*
* Length Wtd. (m)	* 157.26	* Wetted Per. (m)	* 10.05	* 8.72	*	*
* Min Ch El (m)	* 396.48	* Shear (N/sq m)	* 89.62	* 280.64	*	*
* Alpha	* 1.47	* Stream Power (N/m s)	* 105.44	* 1413.34	*	*
* Frctn Loss (m)	* 5.40	* Cum Volume (cu m x 10^4)	* 0.03	* 0.07	* 0.03	*
* C & E Loss (m)	* 0.00	* Cum SA (1000 m2)	* 59.11	* 48.23	* 79.82	*

CROSS SECTION OUTPUT Riv Sta: 70 Profile # 100 yr Storm

* E.G. Elev (m)	* 400.16	* Element	* Left OB	* Channel	* Right OB	*
* Vel Head (m)	* 1.30	* Wt. n-Val	* 0.070	* 0.035	*	*
* W.S. Elev (m)	* 398.86	* Reach Len. (m)	* 161.87	* 157.07	* 154.37	*
* Crit W.S. (m)	* 399.32	* Flow Area (m2)	* 7.36	* 13.14	*	*
* E.G. Slope (m/m)	* 0.021954	* Area (m2)	* 7.36	* 13.14	*	*
* Q Total (m3/s)	* 81.33	* Flow (m3/s)	* 10.46	* 70.87	*	*
* Top Width (m)	* 20.57	* Top Width (m)	* 13.31	* 7.26	*	*
* Vel Total (m/s)	* 3.97	* Avg. Vel. (m/s)	* 1.42	* 5.39	*	*
* Max Chl Dpth (m)	* 2.37	* Hydr. Depth (m)	* 0.55	* 1.81	*	*
* Conv. Total (m3/s)	* 548.9	* Conv. (m3/s)	* 70.6	* 478.3	*	*
* Length Wtd. (m)	* 157.38	* Wetted Per. (m)	* 13.38	* 9.15	*	*
* Min Ch El (m)	* 396.48	* Shear (N/sq m)	* 118.48	* 309.39	*	*
* Alpha	* 1.63	* Stream Power (N/m s)	* 168.41	* 1667.91	*	*
* Frctn Loss (m)	* 5.34	* Cum Volume (cu m x 10^4)	* 0.04	* 0.08	* 0.04	*
* C & E Loss (m)	* 0.04	* Cum SA (1000 m2)	* 74.31	* 48.67	* 101.07	*

CROSS SECTION INPUT River Station: 71  
Description: Profile Adjustment

Station Elevation Data, num = 21

Sta. Elev.	Sta. Elev.	Sta. Elev.	Sta. Elev.	Sta. Elev.
0408.53041	916586406	84185.157173404	10166.525017404	00717.597573403
1141	8.396254	403.0479	145789403	129311.75075403
723714	22709403	275616	76248403	3884
19.17615	403.49220	86302403	949221.71315405	6957
28.7853406	585729	46998407	2898	30.11601
407.29933	62407407	277638	28214	407.23539
90985407	119142	14554407	5001	44.95881407
9512				

Mannings n Values, num = 3

Sta. Value	Sta. Value	Sta. Value
0	.0656	.525017
.03511	.75075	.065

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
6.52502	11.7507	166.39	168.17	169.09	0.1	0.3	

CROSS SECTION OUTPUT Riv Sta: 71 Profile # Storm Event

* E.G. Elev (m)	* 404.73	* Element	* Left OB	* Channel	* Right OB	*
* Vel Head (m)	* 0.90	* Wt. n-Val	* 0.035	* 0.065	*	*
* W.S. Elev (m)	* 403.83	* Reach Len. (m)	* 166.39	* 168.17	* 169.09	*
* Crit W.S. (m)	* 404.10	* Flow Area (m2)	* 2.54	* 3.27	*	*
* E.G. Slope (m/m)	* 0.082986	* Area (m2)	* 2.54	* 3.27	*	*
* Q Total (m3/s)	* 20.19	* Flow (m3/s)	* 12.68	* 7.51	*	*
* Top Width (m)	* 13.71	* Top Width (m)	* 5.02	* 8.69	*	*
* Vel Total (m/s)	* 3.48	* Avg. Vel. (m/s)	* 5.00	* 2.29	*	*
* Max Chl Dpth (m)	* 0.79	* Hydr. Depth (m)	* 0.51	* 0.38	*	*
* Conv. Total (m3/s)	* 70.1	* Conv. (m3/s)	* 44.0	* 26.1	*	*
* Length Wtd. (m)	* 168.26	* Wetted Per. (m)	* 5.35	* 8.78	*	*
* Min Ch El (m)	* 403.05	* Shear (N/sq m)	* 385.53	* 303.22	*	*
* Alpha	* 1.46	* Stream Power (N/m s)	* 1928.27	* 695.82	*	*
* Frctn Loss (m)	* 8.79	* Cum Volume (cu m x 10^4)	* 0.02	* 0.06	* 0.02	*
* C & E Loss (m)	* 0.02	* Cum SA (1000 m2)	* 46.48	* 48.47	* 66.00	*

CROSS SECTION OUTPUT Riv Sta: 71 Profile # 25 yr Storm

* E.G. Elev (m)	* 405.17	* Element	* Left OB	* Channel	* Right OB	*
* Vel Head (m)	* 1.18	* Wt. n-Val	* 0.035	* 0.065	*	*
* W.S. Elev (m)	* 403.99	* Reach Len. (m)	* 166.39	* 168.17	* 169.09	*
* Crit W.S. (m)	* 404.34	* Flow Area (m2)	* 3.34	* 4.68	*	*
* E.G. Slope (m/m)	* 0.082000	* Area (m2)	* 3.34	* 4.68	*	*
* Q Total (m3/s)	* 32.42	* Flow (m3/s)	* 19.35	* 13.07	*	*
* Top Width (m)	* 14.34	* Top Width (m)	* 5.21	* 9.13	*	*
* Vel Total (m/s)	* 4.04	* Avg. Vel. (m/s)	* 5.80	* 2.79	*	*

* Max Chl Dpth (m)	* 0.94	* Hydr. Depth (m)	*	*	0.64	* 0.51
* Conv. Total (m3/s)	* 113.2	* Conv. (m3/s)	*	*	67.6	* 45.6
* Length Wtd. (m)	* 168.21	* Wetted Per. (m)	*	*	5.60	* 9.27
* Min Ch El (m)	* 403.05	* Shear (N/sq m)	*	*	479.55	* 406.03
* Alpha	* 1.42	* Stream Power (N/m s)	*	*	2779.76	* 1134.20
* Frctn Loss (m)	* 8.85	* Cum Volume (cu m x 10^4)	*	0.03	* 0.07	* 0.03
* C & E Loss (m)	* 0.02	* Cum SA (1000 m2)	*	59.94	* 49.25	* 80.59

CROSS SECTION OUTPUT Riv Sta: 71 Profile # 100 yr Storm

* E.G. Elev (m)	* 405.55	* Element	* Left OB	* Channel	* Right OB	*
* Vel Head (m)	* 1.45	* Wt. n-Val	* 0.065	* 0.035	* 0.065	*
* W.S. Elev (m)	* 404.09	* Reach Len. (m)	* 166.39	* 168.17	* 169.09	*
* Crit W.S. (m)	* 404.51	* Flow Area (m2)	* 0.05	* 3.87	* 5.61	*
* E.G. Slope (m/m)	* 0.084012	* Area (m2)	* 0.05	* 3.87	* 5.61	*
* Q Total (m3/s)	* 42.79	* Flow (m3/s)	* 0.03	* 24.99	* 17.77	*
* Top Width (m)	* 15.66	* Top Width (m)	* 1.25	* 5.23	* 9.18	*
* Vel Total (m/s)	* 4.49	* Avg. Vel. (m/s)	* 0.55	* 6.46	* 3.17	*
* Max Chl Dpth (m)	* 1.05	* Hydr. Depth (m)	* 0.04	* 0.74	* 0.61	*
* Conv. Total (m3/s)	* 147.6	* Conv. (m3/s)	* 0.1	* 86.2	* 61.3	*
* Length Wtd. (m)	* 168.15	* Wetted Per. (m)	* 1.25	* 5.62	* 9.38	*
* Min Ch El (m)	* 403.05	* Shear (N/sq m)	* 35.44	* 567.19	* 492.95	*
* Alpha	* 1.42	* Stream Power (N/m s)	* 19.41	* 3662.17	* 1560.80	*
* Frctn Loss (m)	* 8.87	* Cum Volume (cu m x 10^4)	* 0.04	* 0.08	* 0.04	*
* C & E Loss (m)	* 0.02	* Cum SA (1000 m2)	* 75.52	* 49.72	* 101.85	*

CROSS SECTION INPUT River Station: 72  
Description: Profile Adjustment

Station Elevation Data, num = 15

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0415.65051	.937376414	63554	.349014414	25458	.304198412	6208	8.73777412	2306	10.55985411
974611	.974611	62359412	.020312	45398412	.297712	99356413	.9802	15.2058414	1326
18.31675414	.0412	23.9948414	.147825	57025414	.242328	94342	415.17531	39358416	.1778

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.065	8.73777	.03512	45398	.065

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	8.73777	12.454		163.91	168.94	171.31	0.1 0.3

CROSS SECTION OUTPUT Riv Sta: 72 Profile # Storm Event

* E.G. Elev (m)	* 413.55	* Element	* Left OB	* Channel	* Right OB	*
* Vel Head (m)	* 0.72	* Wt. n-Val	* 0.065	* 0.035	* 0.065	*
* W.S. Elev (m)	* 412.83	* Reach Len. (m)	* 163.91	* 168.94	* 171.31	*
* Crit W.S. (m)	* 413.03	* Flow Area (m2)	* 0.23	* 2.77	* 0.05	*
* E.G. Slope (m/m)	* 0.026692	* Area (m2)	* 0.23	* 2.77	* 0.05	*
* Q Total (m3/s)	* 10.70	* Flow (m3/s)	* 0.20	* 10.48	* 0.02	*
* Top Width (m)	* 4.83	* Top Width (m)	* 0.94	* 3.72	* 0.17	*
* Vel Total (m/s)	* 3.52	* Avg. Vel. (m/s)	* 0.86	* 3.79	* 0.47	*
* Max Chl Dpth (m)	* 0.85	* Hydr. Depth (m)	* 0.24	* 0.74	* 0.27	*
* Conv. Total (m3/s)	* 65.5	* Conv. (m3/s)	* 1.2	* 64.2	* 0.1	*
* Length Wtd. (m)	* 169.49	* Wetted Per. (m)	* 1.13	* 3.78	* 0.56	*
* Min Ch El (m)	* 411.97	* Shear (N/sq m)	* 52.76	* 191.51	* 21.25	*
* Alpha	* 1.14	* Stream Power (N/m s)	* 45.58	* 725.83	* 10.01	*
* Frctn Loss (m)	* 7.64	* Cum Volume (cu m x 10^4)	* 0.02	* 0.06	* 0.02	*
* C & E Loss (m)	* 0.01	* Cum SA (1000 m2)	* 46.56	* 49.20	* 66.76	*

CROSS SECTION OUTPUT Riv Sta: 72 Profile # 25 yr Storm

* E.G. Elev (m)	* 414.06	* Element	* Left OB	* Channel	* Right OB	*
* Vel Head (m)	* 1.00	* Wt. n-Val	* 0.065	* 0.035	* 0.065	*
* W.S. Elev (m)	* 413.05	* Reach Len. (m)	* 163.91	* 168.94	* 171.31	*
* Crit W.S. (m)	* 413.35	* Flow Area (m2)	* 0.50	* 3.59	* 0.09	*
* E.G. Slope (m/m)	* 0.026711	* Area (m2)	* 0.50	* 3.59	* 0.09	*
* Q Total (m3/s)	* 16.83	* Flow (m3/s)	* 0.55	* 16.23	* 0.05	*
* Top Width (m)	* 5.44	* Top Width (m)	* 1.48	* 3.72	* 0.24	*
* Vel Total (m/s)	* 4.02	* Avg. Vel. (m/s)	* 1.10	* 4.52	* 0.60	*
* Max Chl Dpth (m)	* 1.08	* Hydr. Depth (m)	* 0.34	* 0.97	* 0.38	*
* Conv. Total (m3/s)	* 103.0	* Conv. (m3/s)	* 3.4	* 99.3	* 0.3	*
* Length Wtd. (m)	* 169.51	* Wetted Per. (m)	* 1.71	* 3.78	* 0.79	*
* Min Ch El (m)	* 411.97	* Shear (N/sq m)	* 75.98	* 249.06	* 30.18	*
* Alpha	* 1.22	* Stream Power (N/m s)	* 83.72	* 1124.54	* 17.97	*
* Frctn Loss (m)	* 7.34	* Cum Volume (cu m x 10^4)	* 0.03	* 0.07	* 0.03	*
* C & E Loss (m)	* 0.03	* Cum SA (1000 m2)	* 60.06	* 50.01	* 81.39	*

CROSS SECTION OUTPUT Riv Sta: 72 Profile # 100 yr Storm

* E.G. Elev (m)	* 414.44	* Element	* Left OB	* Channel	* Right OB	*
* Vel Head (m)	* 1.22	* Wt. n-Val	* 0.065	* 0.035	* 0.065	*
* W.S. Elev (m)	* 413.22	* Reach Len. (m)	* 163.91	* 168.94	* 171.31	*
* Crit W.S. (m)	* 413.59	* Flow Area (m2)	* 0.78	* 4.23	* 0.14	*
* E.G. Slope (m/m)	* 0.026445	* Area (m2)	* 0.78	* 4.23	* 0.14	*
* Q Total (m3/s)	* 22.27	* Flow (m3/s)	* 1.00	* 21.18	* 0.09	*
* Top Width (m)	* 5.90	* Top Width (m)	* 1.89	* 3.72	* 0.30	*
* Vel Total (m/s)	* 4.32	* Avg. Vel. (m/s)	* 1.27	* 5.01	* 0.68	*
* Max Chl Dpth (m)	* 1.25	* Hydr. Depth (m)	* 0.41	* 1.14	* 0.46	*
* Conv. Total (m3/s)	* 136.9	* Conv. (m3/s)	* 6.1	* 130.2	* 0.6	*
* Length Wtd. (m)	* 169.51	* Wetted Per. (m)	* 2.16	* 3.78	* 0.97	*
* Min Ch El (m)	* 411.97	* Shear (N/sq m)	* 94.20	* 290.15	* 36.65	*
* Alpha	* 1.28	* Stream Power (N/m s)	* 119.98	* 1452.86	* 24.88	*
* Frctn Loss (m)	* 7.11	* Cum Volume (cu m x 10^4)	* 0.04	* 0.09	* 0.04	*
* C & E Loss (m)	* 0.04	* Cum SA (1000 m2)	* 75.77	* 50.47	* 102.66	*

CROSS SECTION INPUT River Station: 73

Description:

Station Elevation Data, num = 9

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0422.95352	504802421	423414	04628420	396222	24722420	362724	31444420	2438	26.78361
420.31729	02242	421.33230	72698422	368341	26879429	9914			

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.0722.24722	.0426	.78361	.07	

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	22.2472	26.7836		159.88	157.82	157.06	0.1	0.3

CROSS SECTION OUTPUT Riv Sta: 73 Profile # Storm Event

	*	421.20	* Element	*	Left OB	*	Channel	*	Right OB
* E.G. Elev (m)	*	421.20	* Element	*	0.070	*	0.040	*	0.070
* Vel Head (m)	*	0.57	* Wt. n-Val	*	159.88	*	157.82	*	157.06
* W.S. Elev (m)	*	420.63	* Reach Len. (m)	*	2.40	*	1.55	*	0.11
* Crit W.S. (m)	*	420.80	* Flow Area (m2)	*	2.40	*	1.55	*	0.11
* E.G. Slope (m/m)	*	0.112258	* Area (m2)	*	4.19	*	6.37	*	0.15
* Q Total (m3/s)	*	10.70	* Flow (m3/s)	*	10.86	*	4.54	*	0.70
* Top Width (m)	*	16.10	* Top Width (m)	*	1.75	*	4.10	*	1.32
* Vel Total (m/s)	*	2.63	* Avg. Vel. (m/s)	*	0.22	*	0.34	*	0.16
* Max Chl Dpth (m)	*	0.39	* Hydr. Depth (m)	*	12.5	*	19.0	*	0.4
* Conv. Total (m3/s)	*	31.9	* Conv. (m3/s)	*	10.88	*	4.54	*	0.77
* Length Wtd. (m)	*	158.24	* Wetted Per. (m)	*	242.72	*	376.68	*	158.59
* Min Ch El (m)	*	420.24	* Shear (N/sq m)	*	423.98	*	1543.53	*	208.60
* Alpha	*	1.62	* Stream Power (N/m s)	*	0.02	*	0.06	*	0.02
* Frctn Loss (m)	*	7.79	* Cum Volume (cu m x 10^)	*	47.50	*	49.86	*	66.83
* C & E Loss (m)	*	0.02	* Cum SA (1000 m2)	*		*		*	

CROSS SECTION OUTPUT Riv Sta: 73 Profile # 25 yr Storm

	*	421.42	* Element	*	Left OB	*	Channel	*	Right OB
* E.G. Elev (m)	*	421.42	* Element	*	0.070	*	0.040	*	0.070
* Vel Head (m)	*	0.69	* Wt. n-Val	*	159.88	*	157.82	*	157.06
* W.S. Elev (m)	*	420.74	* Reach Len. (m)	*	3.59	*	2.03	*	0.20
* Crit W.S. (m)	*	420.95	* Flow Area (m2)	*	3.59	*	2.03	*	0.20
* E.G. Slope (m/m)	*	0.099211	* Area (m2)	*	7.21	*	9.32	*	0.29
* Q Total (m3/s)	*	16.83	* Flow (m3/s)	*	12.04	*	4.54	*	0.93
* Top Width (m)	*	17.50	* Top Width (m)	*	2.01	*	4.60	*	1.50
* Vel Total (m/s)	*	2.89	* Avg. Vel. (m/s)	*	0.30	*	0.45	*	0.21
* Max Chl Dpth (m)	*	0.49	* Hydr. Depth (m)	*	22.9	*	29.6	*	0.9
* Conv. Total (m3/s)	*	53.4	* Conv. (m3/s)	*	12.05	*	4.54	*	1.02
* Length Wtd. (m)	*	158.29	* Wetted Per. (m)	*	290.03	*	434.35	*	186.40
* Min Ch El (m)	*	420.24	* Shear (N/sq m)	*	582.36	*	1997.82	*	278.74
* Alpha	*	1.61	* Stream Power (N/m s)	*	0.03	*	0.08	*	0.03
* Frctn Loss (m)	*	7.94	* Cum Volume (cu m x 10^)	*	61.14	*	50.66	*	81.49
* C & E Loss (m)	*	0.01	* Cum SA (1000 m2)	*		*		*	

CROSS SECTION OUTPUT Riv Sta: 73 Profile # 100 yr Storm

	*	421.59	* Element	*	Left OB	*	Channel	*	Right OB
* E.G. Elev (m)	*	421.59	* Element	*	0.070	*	0.040	*	0.070
* Vel Head (m)	*	0.78	* Wt. n-Val	*	159.88	*	157.82	*	157.06
* W.S. Elev (m)	*	420.82	* Reach Len. (m)	*	4.59	*	2.39	*	0.28
* Crit W.S. (m)	*	421.05	* Flow Area (m2)	*	4.59	*	2.39	*	0.28
* E.G. Slope (m/m)	*	0.092538	* Area (m2)	*	9.98	*	11.84	*	0.45
* Q Total (m3/s)	*	22.27	* Flow (m3/s)	*	12.93	*	4.54	*	1.10
* Top Width (m)	*	18.57	* Top Width (m)	*	2.18	*	4.96	*	1.62
* Vel Total (m/s)	*	3.07	* Avg. Vel. (m/s)	*	0.35	*	0.53	*	0.25
* Max Chl Dpth (m)	*	0.57	* Hydr. Depth (m)	*	32.8	*	38.9	*	1.5
* Conv. Total (m3/s)	*	73.2	* Conv. (m3/s)	*	12.95	*	4.54	*	1.21
* Length Wtd. (m)	*	158.32	* Wetted Per. (m)	*	321.49	*	477.42	*	206.81
* Min Ch El (m)	*	420.24	* Shear (N/sq m)	*	699.47	*	2366.12	*	335.32
* Alpha	*	1.62	* Stream Power (N/m s)	*	0.04	*	0.09	*	0.04
* Frctn Loss (m)	*	8.07	* Cum Volume (cu m x 10^)	*	76.96	*	51.12	*	102.77
* C & E Loss (m)	*	0.00	* Cum SA (1000 m2)	*		*		*	

CROSS SECTION INPUT River Station: 74

Description:

Station Elevation Data, num = 10

Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.	Sta.	Elev.
0430.62541	818242	429.7114	223902428	40647	365062427	9309	8.46171427	7694	10.02679427
900410	72359	428.25411	71418431	064313	35477432	018331	78982443	8628	

Mannings n Values, num = 3

Sta.	Value	Sta.	Value	Sta.	Value
0	.074.223902	.0410	.72359	.07	

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	4.2239	10.7236		161.83	162.06	159.75	0.1	0.3

CROSS SECTION OUTPUT Riv Sta: 74 Profile # Storm Event

	*	429.01	* Element	*	Left OB	*	Channel	*	Right OB
* E.G. Elev (m)	*	429.01	* Element	*	0.070	*	0.040	*	0.070
* Vel Head (m)	*	0.40	* Wt. n-Val	*	161.83	*	162.06	*	159.75
* W.S. Elev (m)	*	428.61	* Reach Len. (m)	*	0.04	*	3.80	*	0.02
* Crit W.S. (m)	*	428.68	* Flow Area (m2)	*	0.04	*	3.80	*	0.02
* E.G. Slope (m/m)	*	0.026564	* Area (m2)	*	0.02	*	10.67	*	0.01
* Q Total (m3/s)	*	10.70	* Flow (m3/s)	*	0.37	*	6.50	*	0.13
* Top Width (m)	*	7.00	* Top Width (m)	*	0.46	*	2.81	*	0.35
* Vel Total (m/s)	*	2.77	* Avg. Vel. (m/s)	*	0.10	*	0.58	*	0.18
* Max Chl Dpth (m)	*	0.84	* Hydr. Depth (m)	*		*		*	

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* Conv. Total (m3/s) * 65.7 * Conv. (m3/s) * 0.1 * 65.5 * 0.0 *
* Length Wtd. (m) * 162.00 * Wetted Per. (m) * 0.43 * 6.64 * 0.38 *
* Min Ch El (m) * 427.77 * Shear (N/sq m) * 23.24 * 149.14 * 15.39 *
* Alpha * 1.02 * Stream Power (N/m s) * 10.80 * 418.96 * 5.43 *
* Frctn Loss (m) * 13.68 * Cum Volume (cu m x 10^4) * 0.02 * 0.06 * 0.02 *
* C & E Loss (m) * 2.00 * Cum SA (1000 m2) * 48.41 * 50.75 * 66.90 *
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CROSS SECTION OUTPUT Riv Sta: 74 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 429.37 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.60 * Wt. n-Val * 0.070 * 0.040 * 0.070 *
* W.S. Elev (m) * 428.77 * Reach Len. (m) * 161.83 * 162.06 * 159.75 *
* Crit W.S. (m) * 428.90 * Flow Area (m2) * 0.12 * 4.84 * 0.05 *
* E.G. Slope (m/m) * 0.029131 * Area (m2) * 0.12 * 4.84 * 0.05 *
* Q Total (m3/s) * 16.83 * Flow (m3/s) * 0.09 * 16.72 * 0.02 *
* Top Width (m) * 7.35 * Top Width (m) * 0.67 * 6.50 * 0.18 *
* Vel Total (m/s) * 3.36 * Avg. Vel. (m/s) * 0.72 * 3.46 * 0.47 *
* Max Chl Dpth (m) * 1.00 * Hydr. Depth (m) * 0.18 * 0.74 * 0.26 *
* Conv. Total (m3/s) * 98.6 * Conv. (m3/s) * 0.5 * 98.0 * 0.1 *
* Length Wtd. (m) * 161.99 * Wetted Per. (m) * 0.76 * 6.64 * 0.55 *
* Min Ch El (m) * 427.77 * Shear (N/sq m) * 45.55 * 208.25 * 24.46 *
* Alpha * 1.05 * Stream Power (N/m s) * 32.65 * 719.70 * 11.59 *
* Frctn Loss (m) * 14.07 * Cum Volume (cu m x 10^4) * 0.03 * 0.08 * 0.03 *
* C & E Loss (m) * 2.19 * Cum SA (1000 m2) * 62.17 * 51.55 * 81.58 *
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CROSS SECTION OUTPUT Riv Sta: 74 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 429.67 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.78 * Wt. n-Val * 0.070 * 0.040 * 0.070 *
* W.S. Elev (m) * 428.89 * Reach Len. (m) * 161.83 * 162.06 * 159.75 *
* Crit W.S. (m) * 429.09 * Flow Area (m2) * 0.21 * 5.60 * 0.07 *
* E.G. Slope (m/m) * 0.031099 * Area (m2) * 0.21 * 5.60 * 0.07 *
* Q Total (m3/s) * 22.27 * Flow (m3/s) * 0.19 * 22.04 * 0.04 *
* Top Width (m) * 7.61 * Top Width (m) * 0.88 * 6.50 * 0.22 *
* Vel Total (m/s) * 3.79 * Avg. Vel. (m/s) * 0.89 * 3.94 * 0.56 *
* Max Chl Dpth (m) * 1.12 * Hydr. Depth (m) * 0.24 * 0.86 * 0.32 *
* Conv. Total (m3/s) * 126.3 * Conv. (m3/s) * 1.1 * 125.0 * 0.2 *
* Length Wtd. (m) * 161.98 * Wetted Per. (m) * 1.01 * 6.64 * 0.67 *
* Min Ch El (m) * 427.77 * Shear (N/sq m) * 64.33 * 257.30 * 32.05 *
* Alpha * 1.07 * Stream Power (N/m s) * 57.42 * 1012.79 * 17.98 *
* Frctn Loss (m) * 14.19 * Cum Volume (cu m x 10^4) * 0.04 * 0.09 * 0.04 *
* C & E Loss (m) * 2.25 * Cum SA (1000 m2) * 78.08 * 52.02 * 102.87 *
*****

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CROSS SECTION INPUT River Station: 75  
Description:

Station Elevation Data, num = 9  
 Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
 \*\*\*\*\*  
 0440.63812.898998 439.4284.769853437.41946.459794437.50788.257576437.1237  
 9.553716438.324612.11963439.223813.94689440.662426.40761448.9439

Mannings n Values, num = 3  
 Sta. Value Sta. Value Sta. Value  
 \*\*\*\*\*  
 0 .074.769853 .048.257576 .07

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 4.76985 8.25758 164.02 163.09 163.39 0.1 0.3

```

CROSS SECTION OUTPUT Riv Sta: 75 Profile # Storm Event
*****
* E.G. Elev (m) * 444.70 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 7.08 * Wt. n-Val * 0.070 * 0.040 * 0.070 *
* W.S. Elev (m) * 437.62 * Reach Len. (m) * 164.02 * 163.09 * 163.39 *
* Crit W.S. (m) * 438.30 * Flow Area (m2) * 0.02 * 0.81 * 0.13 *
* E.G. Slope (m/m) * 1.685813 * Area (m2) * 0.02 * 0.81 * 0.13 *
* Q Total (m3/s) * 10.70 * Flow (m3/s) * 0.06 * 9.85 * 0.79 *
* Top Width (m) * 4.21 * Top Width (m) * 0.19 * 3.49 * 0.54 *
* Vel Total (m/s) * 11.13 * Avg. Vel. (m/s) * 3.10 * 12.16 * 5.95 *
* Max Chl Dpth (m) * 0.50 * Hydr. Depth (m) * 0.10 * 0.23 * 0.25 *
* Conv. Total (m3/s) * 8.2 * Conv. (m3/s) * 0.0 * 7.6 * 0.6 *
* Length Wtd. (m) * 163.10 * Wetted Per. (m) * 0.27 * 3.53 * 0.73 *
* Min Ch El (m) * 437.12 * Shear (N/sq m) * 1128.00 * 3792.67 * 3006.74 *
* Alpha * 1.12 * Stream Power (N/m s) * 3493.51 * 46134.76 * 17902.23 *
* Frctn Loss (m) * 6.22 * Cum Volume (cu m x 10^4) * 0.02 * 0.06 * 0.02 *
* C & E Loss (m) * 0.69 * Cum SA (1000 m2) * 48.46 * 51.56 * 66.95 *
*****

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CROSS SECTION OUTPUT Riv Sta: 75 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 445.64 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 7.90 * Wt. n-Val * 0.070 * 0.040 * 0.070 *
* W.S. Elev (m) * 437.73 * Reach Len. (m) * 164.02 * 163.09 * 163.39 *
* Crit W.S. (m) * 438.63 * Flow Area (m2) * 0.05 * 1.21 * 0.20 *
* E.G. Slope (m/m) * 1.104783 * Area (m2) * 0.05 * 1.21 * 0.20 *
* Q Total (m3/s) * 16.83 * Flow (m3/s) * 0.16 * 15.56 * 1.11 *
* Top Width (m) * 4.44 * Top Width (m) * 0.29 * 3.49 * 0.66 *
* Vel Total (m/s) * 11.55 * Avg. Vel. (m/s) * 3.39 * 12.87 * 5.54 *
* Max Chl Dpth (m) * 0.61 * Hydr. Depth (m) * 0.16 * 0.35 * 0.31 *
* Conv. Total (m3/s) * 16.0 * Conv. (m3/s) * 0.1 * 14.8 * 1.1 *
* Length Wtd. (m) * 163.11 * Wetted Per. (m) * 0.43 * 3.53 * 0.90 *
* Min Ch El (m) * 437.12 * Shear (N/sq m) * 1162.21 * 3711.63 * 2425.68 *
* Alpha * 1.16 * Stream Power (N/m s) * 3939.81 * 47751.05 * 13429.48 *
* Frctn Loss (m) * 5.48 * Cum Volume (cu m x 10^4) * 0.03 * 0.08 * 0.03 *
* C & E Loss (m) * 0.76 * Cum SA (1000 m2) * 62.25 * 52.37 * 81.64 *
*****

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CROSS SECTION OUTPUT Riv Sta: 75 Profile # 100 yr Storm
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* E.G. Elev (m) * 446.10 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 8.27 * Wt. n-Val * 0.070 * 0.040 * 0.070 *
* W.S. Elev (m) * 437.83 * Reach Len. (m) * 164.02 * 163.09 * 163.39 *
* Crit W.S. (m) * 438.87 * Flow Area (m2) * 0.08 * 1.56 * 0.27 *
* E.G. Slope (m/m) * 0.827707 * Area (m2) * 0.08 * 1.56 * 0.27 *
* Q Total (m3/s) * 22.27 * Flow (m3/s) * 0.28 * 20.54 * 1.44 *
* Top Width (m) * 4.64 * Top Width (m) * 0.39 * 3.49 * 0.77 *
* Vel Total (m/s) * 11.66 * Avg. Vel. (m/s) * 3.53 * 13.18 * 5.30 *
* Max Chl Dpth (m) * 0.71 * Hydr. Depth (m) * 0.21 * 0.45 * 0.36 *
* Conv. Total (m3/s) * 24.5 * Conv. (m3/s) * 0.3 * 22.6 * 1.6 *
* Length Wtd. (m) * 163.11 * Wetted Per. (m) * 0.57 * 3.53 * 1.05 *
* Min Ch El (m) * 437.12 * Shear (N/sq m) * 1147.28 * 3582.44 * 2114.97 *
* Alpha * 1.19 * Stream Power (N/m s) * 4045.95 * 47232.32 * 11213.58 *
* Frctn Loss (m) * 5.05 * Cum Volume (cu m x 10^4) * 0.04 * 0.09 * 0.04 *
* C & E Loss (m) * 0.80 * Cum SA (1000 m2) * 78.18 * 52.83 * 102.96 *
*****

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CROSS SECTION INPUT River Station: 76  
Description:

Station Elevation Data, num = 12  
Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev. Sta. Elev.  
\*\*\*\*\*  
0455.09784.716599452.833114.88762452.653315.54033452.653318.42745451.1994  
27.036451.022627.19542451.135436.92986451.129341.66951452.5588 52.1999452.4978  
58.77082452.906361.78748454.4455

Mannings n Values, num = 3  
Sta. Value Sta. Value Sta. Value  
\*\*\*\*\*  
0 .04515.54033 .0341.66951 .045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
15.5403 41.6695 143.16 136.76 133.12 0.1 0.3

```

CROSS SECTION OUTPUT Riv Sta: 76 Profile # Storm Event
*****
* E.G. Elev (m) * 451.60 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.16 * Wt. n-Val * 0.030 * 0.030 * 0.030 *
* W.S. Elev (m) * 451.44 * Reach Len. (m) * 143.16 * 136.76 * 133.12 *
* Crit W.S. (m) * 451.44 * Flow Area (m2) * 6.12 * 6.12 * 6.12 *
* E.G. Slope (m/m) * 0.013506 * Area (m2) * 6.12 * 6.12 * 6.12 *
* Q Total (m3/s) * 10.70 * Flow (m3/s) * 10.70 * 10.70 * 10.70 *
* Top Width (m) * 20.01 * Top Width (m) * 20.01 * 20.01 * 20.01 *
* Vel Total (m/s) * 1.75 * Avg. Vel. (m/s) * 1.75 * 1.75 * 1.75 *
* Max Chl Dpth (m) * 0.42 * Hydr. Depth (m) * 0.31 * 0.31 * 0.31 *
* Conv. Total (m3/s) * 92.1 * Conv. (m3/s) * 92.1 * 92.1 * 92.1 *
* Length Wtd. (m) * 136.64 * Wetted Per. (m) * 20.16 * 20.16 * 20.16 *
* Min Ch El (m) * 451.02 * Shear (N/sq m) * 40.20 * 40.20 * 40.20 *
* Alpha * 1.00 * Stream Power (N/m s) * 70.32 * 70.32 * 70.32 *
* Frctn Loss (m) * 2.06 * Cum Volume (cu m x 10^4) * 0.02 * 0.06 * 0.02 *
* C & E Loss (m) * 0.03 * Cum SA (1000 m2) * 48.47 * 53.17 * 66.98 *
*****

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CROSS SECTION OUTPUT Riv Sta: 76 Profile # 25 yr Storm
*****
* E.G. Elev (m) * 451.76 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.21 * Wt. n-Val * 0.030 * 0.030 * 0.030 *
* W.S. Elev (m) * 451.55 * Reach Len. (m) * 143.16 * 136.76 * 133.12 *
* Crit W.S. (m) * 451.55 * Flow Area (m2) * 8.36 * 8.36 * 8.36 *
* E.G. Slope (m/m) * 0.012271 * Area (m2) * 8.36 * 8.36 * 8.36 *
* Q Total (m3/s) * 16.83 * Flow (m3/s) * 16.83 * 16.83 * 16.83 *
* Top Width (m) * 20.60 * Top Width (m) * 20.60 * 20.60 * 20.60 *
* Vel Total (m/s) * 2.01 * Avg. Vel. (m/s) * 2.01 * 2.01 * 2.01 *
* Max Chl Dpth (m) * 0.53 * Hydr. Depth (m) * 0.41 * 0.41 * 0.41 *
* Conv. Total (m3/s) * 151.9 * Conv. (m3/s) * 151.9 * 151.9 * 151.9 *
* Length Wtd. (m) * 136.67 * Wetted Per. (m) * 20.78 * 20.78 * 20.78 *
* Min Ch El (m) * 451.02 * Shear (N/sq m) * 48.42 * 48.42 * 48.42 *
* Alpha * 1.00 * Stream Power (N/m s) * 97.45 * 97.45 * 97.45 *
* Frctn Loss (m) * 1.81 * Cum Volume (cu m x 10^4) * 0.03 * 0.08 * 0.03 *
* C & E Loss (m) * 0.03 * Cum SA (1000 m2) * 62.27 * 54.01 * 81.69 *
*****

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CROSS SECTION OUTPUT Riv Sta: 76 Profile # 100 yr Storm
*****
* E.G. Elev (m) * 451.88 * Element * Left OB * Channel * Right OB *
* Vel Head (m) * 0.24 * Wt. n-Val * 0.030 * 0.030 * 0.030 *
* W.S. Elev (m) * 451.64 * Reach Len. (m) * 143.16 * 136.76 * 133.12 *
* Crit W.S. (m) * 451.64 * Flow Area (m2) * 10.17 * 10.17 * 10.17 *
* E.G. Slope (m/m) * 0.011561 * Area (m2) * 10.17 * 10.17 * 10.17 *
* Q Total (m3/s) * 22.27 * Flow (m3/s) * 22.27 * 22.27 * 22.27 *
* Top Width (m) * 21.06 * Top Width (m) * 21.06 * 21.06 * 21.06 *
* Vel Total (m/s) * 2.19 * Avg. Vel. (m/s) * 2.19 * 2.19 * 2.19 *
* Max Chl Dpth (m) * 0.62 * Hydr. Depth (m) * 0.48 * 0.48 * 0.48 *
* Conv. Total (m3/s) * 207.1 * Conv. (m3/s) * 207.1 * 207.1 * 207.1 *
* Length Wtd. (m) * 136.68 * Wetted Per. (m) * 21.28 * 21.28 * 21.28 *
* Min Ch El (m) * 451.02 * Shear (N/sq m) * 54.18 * 54.18 * 54.18 *
* Alpha * 1.00 * Stream Power (N/m s) * 118.68 * 118.68 * 118.68 *
* Frctn Loss (m) * 1.69 * Cum Volume (cu m x 10^4) * 0.04 * 0.09 * 0.04 *
* C & E Loss (m) * 0.04 * Cum SA (1000 m2) * 78.21 * 54.51 * 103.01 *
*****

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SUMMARY OF MANNING'S N VALUES

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*****
* River Sta. * n1 * n2 * n3 * n4 * n5 *
*****
* 76 * 0.045 * 0.03 * 0.045 * * *
* 75 * 0.07 * 0.04 * 0.07 * * *
* 74 * 0.07 * 0.04 * 0.07 * * *
* 73 * 0.07 * 0.04 * 0.07 * * *
* 72 * 0.065 * 0.035 * 0.065 * * *
*****

```

*	71	*	0.065*	0.035*	0.065*	*	*
*	70	*	0.07*	0.035*	0.045*	*	*
*	69	*	0.06*	0.035*	0.045*	*	*
*	68	*	0.06*	0.035*	0.045*	*	*
*	67	*	0.06*	0.035*	0.045*	0.06*	*
*	66	*	0.045*	0.035*	0.06*	*	*
*	65	*	0.06*	0.035*	0.06*	*	*
*	64	*	0.06*	0.045*	0.06*	*	*
*	63	*	0.045*	0.035*	0.045*	*	*
*	62	*	0.045*	0.035*	0.045*	*	*
*	61	*	0.06*	0.035*	0.045*	0.06*	*
*	60	*	0.06*	0.035*	0.045*	0.06*	*
*	59	*	0.06*	0.035*	0.045*	0.06*	*
*	58	*	0.06*	0.045*	0.035*	0.045*	0.06*
*	57	*	0.06*	0.045*	0.035*	0.045*	0.06*
*	56	*	0.06*	0.045*	0.035*	0.045*	0.06*
*	55	*	0.06*	0.045*	0.035*	0.045*	0.06*
*	54	*	0.06*	0.035*	0.06*	*	*
*	53	*	0.06*	0.035*	0.06*	*	*
*	52	*	0.06*	0.035*	0.06*	0.04*	0.06*
*	51	*	0.06*	0.035*	0.04*	*	*
*	50	*	0.06*	0.035*	0.06*	*	*
*	49	*	0.06*	0.035*	0.06*	*	*
*	48	*	0.06*	0.035*	0.06*	*	*
*	47	*	0.04*	0.03*	0.06*	*	*
*	46	*	0.04*	0.03*	0.06*	*	*
*	45	*	0.04*	0.03*	0.06*	*	*
*	44	*	0.04*	0.03*	0.06*	*	*
*	43	*	0.04*	0.03*	0.06*	*	*
*	42	*	0.04*	0.03*	0.06*	*	*
*	41	*	0.04*	0.03*	0.06*	*	*
*	40	*	0.06*	0.035*	0.06*	*	*
*	39	*	0.06*	0.035*	0.06*	*	*
*	38	*	0.06*	0.035*	0.06*	*	*
*	37	*	0.06*	0.035*	0.06*	*	*
*	36	*	0.06*	0.035*	0.04*	*	*
*	35	*	0.05*	0.035*	0.05*	*	*
*	34	*	0.05*	0.03*	0.04*	*	*
*	33	*	0.05*	0.03*	0.04*	*	*
*	32	*	0.05*	0.03*	0.04*	*	*
*	31	*	0.04*	0.035*	0.04*	*	*
*	30	*	0.04*	0.035*	0.04*	*	*
*	29	*	0.04*	0.035*	0.04*	*	*
*	28	*	0.04*	0.035*	0.04*	*	*
*	27.5	*	0.06*	0.035*	0.04*	*	*
*	27	*	0.06*	0.035*	0.04*	*	*
*	26.7	*	0.06*	0.03*	0.06*	*	*
*	26	*	0.06*	0.03*	0.06*	*	*
*	25	*	0.045*	0.035*	0.06*	*	*
*	24	*	0.04*	0.035*	0.06*	*	*
*	23	*	0.06*	0.04*	0.065*	*	*
*	22	*	0.06*	0.04*	0.065*	*	*
*	21	*	0.06*	0.04*	0.065*	*	*
*	20	*	0.06*	0.04*	0.065*	*	*
*	19	*	0.06*	0.04*	0.065*	*	*
*	18	*	0.06*	0.04*	0.065*	*	*
*	17	*	0.06*	0.04*	0.065*	*	*
*	16	*	0.06*	0.035*	0.04*	*	*
*	15	*	0.06*	0.03*	0.06*	*	*
*	14	*	0.07*	0.035*	0.035*	*	*
*	13	*	0.07*	0.035*	0.035*	*	*
*	12	*	0.07*	0.035*	0.035*	*	*
*	11	*	0.085*	0.035*	0.035*	*	*
*	10	*	0.085*	0.035*	0.035*	*	*
*	9	*	0.06*	0.035*	0.04*	*	*
*	8	*	0.04*	0.035*	0.04*	*	*
*	7	*	0.05*	0.03*	0.035*	*	*
*	6	*	0.035*	0.03*	0.035*	*	*
*	5	*	0.035*	0.03*	0.035*	*	*
*	4	*	0.045*	0.035*	0.045*	*	*
*	3	*	0.045*	0.035*	0.045*	*	*
*	2	*	0.045*	0.035*	0.045*	*	*
*	1	*	0.05*	0.035*	0.05*	*	*

\*\*\*\*\*

SUMMARY OF REACH LENGTHS

* River Sta. *	* Left *	* Channel* *	* Right *
*	76	* 143.16*	136.76* 133.12*
*	75	* 164.02*	163.09* 163.39*
*	74	* 161.83*	162.06* 159.75*
*	73	* 159.88*	157.82* 157.06*
*	72	* 163.91*	168.94* 171.31*
*	71	* 166.39*	168.17* 169.09*
*	70	* 161.87*	157.07* 154.37*
*	69	* 12.5*	12.78* 13.16*
*	68	* 15.44*	15.04* 16.28*
*	67	* 20.14*	21.09* 20.55*
*	66	* 99.62*	102.42* 104.88*
*	65	* 177.4*	176.08* 175.54*
*	64	* 65.25*	68.84* 72.27*
*	63	* 30.99*	34.36* 38.5*
*	62	* 30.57*	25.02* 17.72*
*	61	* 141.69*	143.2* 144.92*
*	60	* 155.11*	151.73* 147.71*
*	59	* 45.57*	46.12* 46.22*
*	58	* 5.81*	5.71* 6.61*
*	57	* 3.92*	4.03* 4.26*
*	56	* 8.82*	8.55* 7.86*
*	55	* 83.55*	81.13* 75.85*
*	54	* 159.14*	153.84* 146.83*

*	53	*	143.13*	143.44*	139.35*
*	52	*	152.16*	153.27*	155.72*
*	51	*	34.01*	29.02*	22.03*
*	50	*	9.49*	9.94*	9.3*
*	49	*	20.13*	26.86*	29.61*
*	48	*	97.22*	98.59*	97.96*
*	47	*	157.29*	158.73*	158.47*
*	46	*	52.73*	51.57*	51.26*
*	45	*	1.63*	9.51*	16.23*
*	44	*	3.27*	4.71*	5.4*
*	43	*	17.8*	10.11*	1.68*
*	42	*	74.57*	77.42*	75.66*
*	41	*	110.33*	113.99*	114.64*
*	40	*	2.32*	10.82*	19.33*
*	39	*	5.88*	6.05*	6.6*
*	38	*	33.48*	24.72*	15.94*
*	37	*	146.29*	152.81*	154.31*
*	36	*	164.25*	162.47*	156.44*
*	35	*	152.27*	149.52*	143.41*
*	34	*	148.76*	152.15*	152.74*
*	33	*	140.51*	145.82*	146.56*
*	32	*	154.14*	151.58*	142.97*
*	31	*	30.23*	16.6*	4.85*
*	30	*	10.35*	12.72*	13.97*
*	29	*	16.55*	28.28*	43.95*
*	28	*	42.27*	46.58*	46.73*
*	27.5	*	47.46*	52.13*	50.58*
*	27	*	37.51*	39.08*	39.2*
*	26.7	*	107.68*	109.19*	108*
*	26	*	121.08*	118.58*	118.78*
*	25	*	151.42*	153.56*	151.86*
*	24	*	56.07*	56.51*	57.29*
*	23	*	10.62*	16.19*	21.45*
*	22	*	7.89*	7.33*	7.62*
*	21	*	18.58*	12.29*	8.84*
*	20	*	67.95*	64.8*	61.77*
*	19	*	136.51*	141.07*	141.33*
*	18	*	148.37*	150.11*	150.92*
*	17	*	143.61*	142.98*	139.86*
*	16	*	111.13*	113.18*	110.66*
*	15	*	147.05*	150.91*	146.4*
*	14	*	151.28*	151.55*	149.32*
*	13	*	154.04*	157.88*	158.39*
*	12	*	161.93*	164.25*	163.03*
*	11	*	152.19*	150.48*	144.88*
*	10	*	114.5*	117.01*	117.97*
*	9	*	145.91*	144.42*	138.24*
*	8	*	148.63*	148.39*	146.83*
*	7	*	149.36*	151.67*	142.61*
*	6	*	146.08*	157.2*	150.88*
*	5	*	151.64*	152.43*	146.94*
*	4	*	9.71*	8.31*	7.45*
*	3	*	8.33*	8.38*	8.51*
*	2	*	3.76*	3.68*	3.85*
*	1	*	*	*	*

\*\*\*\*\*

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS

* River Sta.	* Contr.*	* Expan.*
*	76	* 0.1* 0.3*
*	75	* 0.1* 0.3*
*	74	* 0.1* 0.3*
*	73	* 0.1* 0.3*
*	72	* 0.1* 0.3*
*	71	* 0.1* 0.3*
*	70	* 0.1* 0.3*
*	69	* 0.1* 0.3*
*	68	* 0.1* 0.3*
*	67	* 0.1* 0.3*
*	66	* 0.1* 0.3*
*	65	* 0.1* 0.3*
*	64	* 0.1* 0.3*
*	63	* 0.1* 0.3*
*	62	* 0.1* 0.3*
*	61	* 0.1* 0.3*
*	60	* 0.1* 0.3*
*	59	* 0.1* 0.3*
*	58	* 0.1* 0.3*
*	57	* 0.1* 0.3*
*	56	* 0.1* 0.3*
*	55	* 0.1* 0.3*
*	54	* 0.1* 0.3*
*	53	* 0.1* 0.3*
*	52	* 0.1* 0.3*
*	51	* 0.1* 0.3*
*	50	* 0.1* 0.3*
*	49	* 0.1* 0.3*
*	48	* 0.1* 0.3*
*	47	* 0.1* 0.3*
*	46	* 0.1* 0.3*
*	45	* 0.1* 0.3*
*	44	* 0.1* 0.3*
*	43	* 0.1* 0.3*
*	42	* 0.1* 0.3*
*	41	* 0.1* 0.3*
*	40	* 0.1* 0.3*
*	39	* 0.1* 0.3*
*	38	* 0.1* 0.3*
*	37	* 0.1* 0.3*
*	36	* 0.1* 0.3*

*	35	*	0.1*	0.3*
*	34	*	0.1*	0.3*
*	33	*	0.1*	0.3*
*	32	*	0.1*	0.3*
*	31	*	0.1*	0.3*
*	30	*	0.1*	0.3*
*	29	*	0.1*	0.3*
*	28	*	0.1*	0.3*
*	27.5	*	0.1*	0.3*
*	27	*	0.1*	0.3*
*	26.7	*	0.1*	0.3*
*	26	*	0.1*	0.3*
*	25	*	0.1*	0.3*
*	24	*	0.1*	0.3*
*	23	*	0.1*	0.3*
*	22	*	0.1*	0.3*
*	21	*	0.1*	0.3*
*	20	*	0.1*	0.3*
*	19	*	0.1*	0.3*
*	18	*	0.1*	0.3*
*	17	*	0.1*	0.3*
*	16	*	0.1*	0.3*
*	15	*	0.1*	0.3*
*	14	*	0.1*	0.3*
*	13	*	0.1*	0.3*
*	12	*	0.1*	0.3*
*	11	*	0.1*	0.3*
*	10	*	0.1*	0.3*
*	9	*	0.1*	0.3*
*	8	*	0.1*	0.3*
*	7	*	0.1*	0.3*
*	6	*	0.1*	0.3*
*	5	*	0.1*	0.3*
*	4	*	0.1*	0.3*
*	3	*	0.1*	0.3*
*	2	*	0.1*	0.3*
*	1	*	0.1*	0.3*

Profile Output - Standard Table 1

* River Sta. *	Q Total (m3/s) *	*Min Ch El (m) *	*W.S. Elev (m) *	*Crit W.S. (m) *	*E.G. Elev (m) *	*E.G. Slope (m/m) *	* Vel Chnl (m/s) *	*Flow Area (m2) *	*Top Width (m) *	*Froude #	* Chl *
* 1	73.48	240.91	242.43	242.98	244.23	0.040471	5.96	12.56	11.38		1.79
* 1	98.17	240.91	242.69	243.37	244.79	0.036977	6.45	15.59	11.63		1.75
* 1	130.88	240.91	243.02	243.81	245.45	0.033682	6.95	19.58	13.17		1.70
* 2	73.48	240.95	242.81	243.29	244.39	0.033316	5.56	13.21	8.77		1.45
* 2	98.17	240.95	243.21	243.71	244.96	0.030888	5.86	16.74	9.52		1.41
* 2	130.88	240.95	243.60	244.14	245.61	0.032070	6.28	20.82	11.10		1.46
* 3	73.48	240.74	243.66	243.66	244.64	0.015894	4.40	16.70	8.54		1.00
* 3	98.17	240.74	244.15	244.15	245.20	0.015714	4.55	21.56	10.31		1.00
* 3	130.88	240.74	244.60	244.60	245.87	0.015769	5.00	26.19	10.38		1.00
* 4	73.48	241.09	244.38	243.47	244.76	0.004168	2.74	26.86	10.32		0.54
* 4	98.17	241.09	244.83	243.86	245.33	0.004717	3.11	31.53	10.39		0.57
* 4	130.88	241.09	245.37	244.31	246.00	0.005307	3.52	37.13	10.48		0.60
* 5	73.48	243.56	245.43	245.81	246.71	0.019213	5.22	18.49	50.64		1.41
* 5	98.17	243.56	245.57	245.94	246.87	0.019624	5.56	25.67	53.20		1.44
* 5	130.88	243.56	245.71	246.09	247.05	0.020166	5.94	33.31	55.41		1.48
* 6	73.48	246.51	248.44	248.81	249.73	0.019426	5.36	18.67	44.19		1.44
* 6	98.17	246.51	248.59	248.96	249.89	0.019267	5.70	25.26	46.25		1.46
* 6	130.88	246.51	248.74	249.14	250.08	0.019002	6.03	32.62	47.60		1.47
* 7	73.48	249.65	251.34	251.58	252.10	0.012561	4.47	25.59	49.32		1.20
* 7	98.17	249.65	251.48	251.66	252.28	0.012925	4.80	32.19	51.88		1.23
* 7	130.88	249.65	251.61	251.91	252.50	0.013720	5.24	39.52	55.62		1.29
* 8	73.48	252.10	253.63	253.90	254.52	0.021395	4.90	22.41	39.57		1.36
* 8	98.17	252.10	253.78	254.06	254.71	0.020924	5.20	28.30	40.67		1.37
* 8	130.88	252.10	253.96	254.25	254.93	0.019871	5.47	35.59	41.84		1.36
* 9	73.48	255.37	257.06	257.33	257.96	0.026706	5.16	25.48	54.23		1.45
* 9	98.17	255.37	257.17	257.46	258.12	0.027403	5.53	31.95	56.94		1.49
* 9	130.88	255.37	257.30	257.60	258.32	0.028248	5.96	39.38	58.34		1.54
* 10	73.48	257.49	259.49	259.82	260.52	0.018130	5.18	24.86	27.26		1.24
* 10	98.17	257.49	259.68	260.16	260.92	0.020053	5.84	30.34	29.93		1.33
* 10	130.88	257.49	259.89	260.47	261.37	0.022316	6.58	36.93	34.74		1.43
* 11	73.48	260.39	262.28	262.58	263.38	0.019553	4.83	19.53	20.16		1.23
* 11	98.17	260.39	262.57	262.89	263.77	0.017856	5.17	25.54	21.06		1.20
* 11	130.88	260.39	262.92	263.25	264.22	0.016081	5.50	33.13	22.27		1.18
* 12	73.48	263.51	265.56	265.86	266.54	0.018897	4.76	22.33	36.72		1.25
* 12	98.17	263.51	265.74	266.13	266.78	0.018781	5.12	29.42	41.41		1.27
* 12	130.88	263.51	265.95	266.30	267.07	0.018708	5.53	39.18	57.95		1.29
* 13	73.48	267.47	269.08	269.39	270.03	0.026202	4.96	20.00	35.24		1.43
* 13	98.17	267.47	269.22	269.55	270.25	0.026126	5.31	24.80	37.01		1.46
* 13	130.88	267.47	269.37	269.73	270.51	0.025589	5.64	32.27	57.55		1.47
* 14	73.48	271.04	272.76	273.16	274.05	0.025905	5.57	19.53	45.28		1.45
* 14	98.17	271.04	272.90	273.28	274.13	0.024651	5.77	26.05	47.34		1.44
* 14	130.88	271.04	273.06	273.43	274.31	0.024550	6.11	33.71	53.68		1.45
* 15	65.04	274.43	276.19	276.61	277.78	0.022570	6.05	20.04	58.17		1.52
* 15	90.87	274.43	276.32	276.78	278.14	0.026368	6.88	27.48	58.54		1.67
* 15	120.49	274.43	276.47	276.94	278.27	0.026419	7.28	36.32	58.99		1.69



* 40	*	56.49	* 330.87	* 332.91	* 333.04	* 333.83	* 0.016216	* 4.24	* 13.33	* 9.20	* 1.12
* 40	*	79.74	* 330.87	* 333.18	* 333.69	* 334.47	* 0.019839	* 5.04	* 16.07	* 13.91	* 1.26
* 40	*	105.40	* 330.87	* 333.41	* 333.97	* 335.04	* 0.022110	* 5.71	* 20.89	* 26.26	* 1.35
* 41	*	56.49	* 333.58	* 334.84	* 335.72	* 337.22	* 0.047964	* 6.84	* 8.26	* 8.26	* 2.18
* 41	*	79.74	* 333.58	* 335.23	* 336.01	* 337.64	* 0.032238	* 6.91	* 11.94	* 11.72	* 1.88
* 41	*	105.40	* 333.58	* 335.54	* 336.25	* 338.07	* 0.026700	* 7.19	* 17.44	* 25.22	* 1.77
* 42	*	56.49	* 335.68	* 337.90	* 338.03	* 338.60	* 0.007652	* 3.79	* 17.33	* 20.95	* 0.89
* 42	*	79.74	* 335.68	* 338.07	* 338.34	* 339.08	* 0.010276	* 4.66	* 20.94	* 21.40	* 1.05
* 42	*	105.40	* 335.68	* 338.15	* 338.61	* 339.67	* 0.014810	* 5.75	* 22.80	* 21.50	* 1.27
* 43	*	56.49	* 335.77	* 337.33	* 337.80	* 338.92	* 0.032879	* 5.59	* 10.10	* 9.37	* 1.72
* 43	*	79.74	* 335.77	* 337.68	* 338.19	* 339.48	* 0.027514	* 5.94	* 13.43	* 9.44	* 1.59
* 43	*	105.40	* 335.77	* 338.14	* 338.62	* 339.94	* 0.020968	* 5.94	* 17.74	* 9.52	* 1.39
* 44	*	56.49	* 335.70	* 337.22	* 337.81	* 339.23	* 0.046604	* 6.27	* 9.00	* 9.04	* 2.01
* 44	*	79.74	* 335.70	* 337.58	* 338.22	* 339.74	* 0.036142	* 6.51	* 12.25	* 9.08	* 1.79
* 44	*	105.40	* 335.70	* 338.04	* 338.63	* 340.14	* 0.026313	* 6.42	* 16.42	* 9.12	* 1.53
* 45	*	56.49	* 335.98	* 338.33	* 338.76	* 339.55	* 0.016328	* 4.96	* 12.69	* 15.82	* 1.22
* 45	*	79.74	* 335.98	* 338.65	* 339.21	* 340.02	* 0.015663	* 5.45	* 18.67	* 23.38	* 1.23
* 45	*	105.40	* 335.98	* 338.90	* 339.41	* 340.37	* 0.015489	* 5.87	* 25.95	* 34.04	* 1.24
* 46	*	56.49	* 337.49	* 339.30	* 339.76	* 340.41	* 0.016642	* 4.83	* 13.69	* 17.47	* 1.30
* 46	*	79.74	* 337.49	* 339.49	* 340.00	* 340.94	* 0.019292	* 5.65	* 17.76	* 28.00	* 1.43
* 46	*	105.40	* 337.49	* 339.69	* 340.18	* 341.32	* 0.019836	* 6.20	* 24.01	* 33.58	* 1.48
* 47	*	56.49	* 340.97	* 342.36	* 343.00	* 343.99	* 0.029211	* 5.81	* 10.82	* 12.91	* 1.77
* 47	*	79.74	* 340.97	* 342.66	* 343.25	* 344.54	* 0.025046	* 6.31	* 16.32	* 26.64	* 1.70
* 47	*	105.40	* 340.97	* 342.87	* 343.47	* 344.83	* 0.023334	* 6.68	* 22.60	* 36.23	* 1.68
* 48	*	40.78	* 343.93	* 345.49	* 345.73	* 346.17	* 0.014471	* 3.75	* 13.69	* 30.76	* 1.09
* 48	*	61.02	* 343.93	* 345.75	* 345.94	* 346.47	* 0.013173	* 4.08	* 23.34	* 41.59	* 1.08
* 48	*	81.33	* 343.93	* 345.93	* 346.17	* 346.69	* 0.013054	* 4.39	* 31.00	* 43.83	* 1.09
* 49	*	40.78	* 344.85	* 345.98	* 346.27	* 347.08	* 0.127130	* 6.61	* 10.56	* 24.58	* 2.50
* 49	*	61.02	* 344.85	* 346.12	* 346.48	* 347.34	* 0.122122	* 6.94	* 14.22	* 25.98	* 2.46
* 49	*	81.33	* 344.85	* 346.27	* 346.64	* 347.51	* 0.107430	* 6.94	* 18.15	* 27.43	* 2.33
* 50	*	40.78	* 344.81	* 346.71	* 347.04	* 347.57	* 0.024645	* 4.51	* 13.33	* 22.93	* 1.23
* 50	*	61.02	* 344.81	* 347.00	* 347.29	* 347.79	* 0.021917	* 4.64	* 21.42	* 35.26	* 1.18
* 50	*	81.33	* 344.81	* 347.18	* 347.43	* 347.94	* 0.020329	* 4.81	* 30.76	* 58.94	* 1.16
* 51	*	40.78	* 346.03	* 347.56	* 347.77	* 348.30	* 0.026332	* 4.49	* 14.63	* 41.72	* 1.32
* 51	*	61.02	* 346.03	* 347.67	* 347.91	* 348.53	* 0.030346	* 5.12	* 19.43	* 48.32	* 1.44
* 51	*	81.33	* 346.03	* 347.76	* 348.04	* 348.72	* 0.032873	* 5.58	* 23.95	* 50.25	* 1.52
* 52	*	40.78	* 350.18	* 351.43	* 351.64	* 352.24	* 0.024438	* 3.99	* 10.22	* 11.41	* 1.34
* 52	*	61.02	* 350.18	* 351.69	* 352.10	* 352.77	* 0.024499	* 4.61	* 13.39	* 15.23	* 1.39
* 52	*	81.33	* 350.18	* 351.89	* 352.37	* 353.19	* 0.024768	* 5.10	* 17.21	* 22.41	* 1.43
* 53	*	40.78	* 354.67	* 355.89	* 356.21	* 356.91	* 0.044044	* 4.46	* 9.14	* 13.53	* 1.73
* 53	*	61.02	* 354.67	* 356.10	* 356.57	* 357.42	* 0.043304	* 5.10	* 11.98	* 15.04	* 1.77
* 53	*	81.33	* 354.67	* 356.26	* 356.79	* 357.87	* 0.043312	* 5.64	* 14.79	* 18.82	* 1.82
* 54	*	40.78	* 359.40	* 361.00	* 361.31	* 361.99	* 0.025800	* 4.69	* 11.77	* 19.61	* 1.37
* 54	*	61.02	* 359.40	* 361.25	* 361.61	* 362.38	* 0.024949	* 5.23	* 16.81	* 21.02	* 1.39
* 54	*	81.33	* 359.40	* 361.48	* 361.86	* 362.70	* 0.023561	* 5.60	* 21.73	* 23.01	* 1.39
* 55	*	40.78	* 362.40	* 363.58	* 363.96	* 364.82	* 0.046785	* 5.49	* 9.89	* 21.21	* 1.83
* 55	*	61.02	* 362.40	* 363.76	* 364.17	* 365.15	* 0.046601	* 6.03	* 14.35	* 27.86	* 1.87
* 55	*	81.33	* 362.40	* 363.89	* 364.33	* 365.43	* 0.048641	* 6.53	* 18.24	* 32.08	* 1.93
* 56	*	40.78	* 363.65	* 364.56	* 364.79	* 365.32	* 0.067778	* 4.73	* 11.00	* 23.17	* 2.04
* 56	*	61.02	* 363.65	* 364.72	* 365.01	* 365.63	* 0.065018	* 5.10	* 14.78	* 25.40	* 2.05
* 56	*	81.33	* 363.65	* 364.85	* 365.19	* 365.92	* 0.060189	* 5.49	* 18.29	* 29.13	* 2.02
* 57	*	40.78	* 362.72	* 364.67	* 364.92	* 365.60	* 0.046239	* 5.04	* 11.16	* 19.29	* 1.50
* 57	*	61.02	* 362.72	* 364.87	* 365.21	* 365.89	* 0.045674	* 5.41	* 15.42	* 22.69	* 1.51
* 57	*	81.33	* 362.72	* 365.06	* 365.40	* 366.12	* 0.041612	* 5.63	* 19.92	* 25.27	* 1.47
* 58	*	40.78	* 363.02	* 364.97	* 365.25	* 365.81	* 0.025109	* 4.44	* 12.46	* 22.86	* 1.27
* 58	*	61.02	* 363.02	* 365.16	* 365.45	* 366.09	* 0.026200	* 4.95	* 17.79	* 34.47	* 1.32
* 58	*	81.33	* 363.02	* 365.29	* 365.60	* 366.32	* 0.027183	* 5.35	* 22.50	* 34.83	* 1.37
* 59	*	40.78	* 364.65	* 366.11	* 366.49	* 367.28	* 0.036195	* 4.94	* 9.74	* 22.69	* 1.62
* 59	*	61.02	* 364.65	* 366.30	* 366.71	* 367.66	* 0.037910	* 5.56	* 14.56	* 27.82	* 1.69
* 59	*	81.33	* 364.65	* 366.45	* 366.88	* 367.90	* 0.037060	* 5.92	* 19.15	* 30.62	* 1.70
* 60	*	40.78	* 368.69	* 370.26	* 370.38	* 371.09	* 0.018085	* 4.02	* 10.15	* 7.96	* 1.14
* 60	*	61.02	* 368.69	* 370.62	* 371.12	* 371.71	* 0.019624	* 4.64	* 13.63	* 16.71	* 1.20
* 60	*	81.33	* 368.69	* 370.83	* 371.32	* 372.16	* 0.021921	* 5.22	* 17.97	* 24.27	* 1.28
* 61	*	40.78	* 372.96	* 373.98	* 374.82	* 377.71	* 0.154993	* 8.56	* 4.76	* 6.61	* 3.22
* 61	*	61.02	* 372.96	* 374.33	* 375.27	* 377.96	* 0.105268	* 8.44	* 7.23	* 7.47	* 2.74
* 61	*	81.33	* 372.96	* 374.64	* 376.00	* 378.29	* 0.081021	* 8.46	* 9.61	* 7.87	* 2.44
* 62	*	40.78	* 376.03	* 378.22	* 378.36	* 378.74	* 0.012181	* 3.50	* 16.06	* 27.99	* 0.92
* 62	*	61.02	* 376.03	* 378.31	* 378.58	* 379.17	* 0.019613	* 4.62	* 18.64	* 27.99	* 1.18
* 62	*	81.33	* 376.03	* 378.44	* 378.77	* 379.49	* 0.022642	* 5.24	* 22.26	* 27.99	* 1.29
* 63	*	40.78	* 376.68	* 378.13	* 378.81	* 379.89	* 0.053755	* 5.87	* 6.94	* 7.03	* 1.89
* 63	*	61.02	* 376.68	* 378.51	* 379.12	* 380.43	* 0.041143	* 6.18	* 10.52	* 15.90	* 1.72
* 63	*	81.33	* 376.68	* 378.74	* 379.38	* 380.76	* 0.037059	* 6.53	* 15.02	* 20.42	* 1.68
* 64	*	40.78	* 379.48	* 381.74	* 381.74	* 382.14	* 0.019965	* 2.94	* 15.97	* 20.20	* 0.73
* 64	*	61.02	* 379.48	* 382.02	* 382.02	* 382.48	* 0.019875	* 3.26	* 22.14	* 24.30	* 0.75
* 64	*	81.33	* 379.48	* 382.24	* 382.24	* 382.74	* 0.020058	* 3.51	* 27.68	* 27.05	* 0.77
* 65	*	40.78	* 383.75	* 384.96	* 385.54	* 386.88	* 0.057015	* 6.14	* 6.64	* 6.58	* 1.95
* 65	*	61.02	* 383.75	* 385.29	* 386.03	* 387.68	* 0.054274	* 6.84	* 8.92	* 6.95	* 1.93
* 65	*	81.33	* 383.75	* 385.54	* 386.46	* 388.49	* 0.057400	* 7.60	* 10.69	* 7.23	* 2.00

* 66	*	40.78	* 388.78	* 390.17	* 390.57	* 391.55	* 0.036196	* 5.19	* 7.86	* 6.71	* 1.53
* 66	*	61.02	* 388.78	* 390.53	* 391.32	* 392.32	* 0.037107	* 5.92	* 10.30	* 7.02	* 1.56
* 66	*	81.33	* 388.78	* 390.94	* 391.65	* 392.84	* 0.031220	* 6.11	* 13.59	* 10.79	* 1.45
* 67	*	40.78	* 389.02	* 390.77	* 391.63	* 392.48	* 0.043824	* 5.80	* 7.03	* 4.90	* 1.55
* 67	*	61.02	* 389.02	* 391.39	* 392.01	* 393.04	* 0.030811	* 5.79	* 12.11	* 15.91	* 1.33
* 67	*	81.33	* 389.02	* 391.62	* 392.23	* 393.53	* 0.033877	* 6.43	* 16.81	* 24.65	* 1.42
* 68	*	40.78	* 389.69	* 392.40	* 392.51	* 392.85	* 0.008029	* 3.16	* 18.72	* 33.93	* 0.72
* 68	*	61.02	* 389.69	* 392.37	* 392.74	* 393.46	* 0.019422	* 4.89	* 17.75	* 32.59	* 1.11
* 68	*	81.33	* 389.69	* 392.44	* 392.92	* 394.03	* 0.028112	* 6.01	* 20.33	* 39.86	* 1.35
* 69	*	40.78	* 390.53	* 391.65	* 392.20	* 393.49	* 0.064038	* 6.02	* 6.77	* 7.74	* 2.06
* 69	*	61.02	* 390.53	* 391.94	* 392.91	* 394.23	* 0.059773	* 6.71	* 9.09	* 8.17	* 2.03
* 69	*	81.33	* 390.53	* 392.21	* 393.24	* 394.82	* 0.055460	* 7.15	* 11.37	* 8.56	* 1.98
* 70	*	40.78	* 396.48	* 398.22	* 398.55	* 399.26	* 0.023203	* 4.56	* 9.94	* 13.22	* 1.26
* 70	*	61.02	* 396.48	* 398.58	* 398.92	* 399.77	* 0.022359	* 5.04	* 15.26	* 16.93	* 1.27
* 70	*	81.33	* 396.48	* 398.86	* 399.32	* 400.16	* 0.021954	* 5.39	* 20.50	* 20.57	* 1.28
* 71	*	20.19	* 403.05	* 403.83	* 404.10	* 404.73	* 0.082986	* 5.00	* 5.81	* 13.71	* 2.25
* 71	*	32.42	* 403.05	* 403.99	* 404.34	* 405.17	* 0.082000	* 5.80	* 8.02	* 14.34	* 2.31
* 71	*	42.79	* 403.05	* 404.09	* 404.51	* 405.55	* 0.084012	* 6.46	* 9.54	* 15.66	* 2.39
* 72	*	10.70	* 411.97	* 412.83	* 413.03	* 413.55	* 0.026692	* 3.79	* 3.04	* 4.83	* 1.40
* 72	*	16.83	* 411.97	* 413.05	* 413.35	* 414.06	* 0.026711	* 4.52	* 4.18	* 5.44	* 1.47
* 72	*	22.27	* 411.97	* 413.22	* 413.59	* 414.44	* 0.026445	* 5.01	* 5.15	* 5.90	* 1.50
* 73	*	10.70	* 420.24	* 420.63	* 420.80	* 421.20	* 0.112258	* 4.10	* 4.06	* 16.10	* 2.23
* 73	*	16.83	* 420.24	* 420.74	* 420.95	* 421.42	* 0.099211	* 4.60	* 5.81	* 17.50	* 2.20
* 73	*	22.27	* 420.24	* 420.82	* 421.05	* 421.59	* 0.092538	* 4.96	* 7.25	* 18.57	* 2.18
* 74	*	10.70	* 427.77	* 428.61	* 428.68	* 429.01	* 0.026564	* 2.81	* 3.86	* 7.00	* 1.17
* 74	*	16.83	* 427.77	* 428.77	* 428.90	* 429.37	* 0.029131	* 3.46	* 5.01	* 7.35	* 1.28
* 74	*	22.27	* 427.77	* 428.89	* 429.09	* 429.67	* 0.031099	* 3.94	* 5.88	* 7.61	* 1.35
* 75	*	10.70	* 437.12	* 437.62	* 438.30	* 444.70	* 1.685813	* 12.16	* 0.96	* 4.21	* 8.06
* 75	*	16.83	* 437.12	* 437.73	* 438.63	* 445.64	* 1.104783	* 12.87	* 1.46	* 4.44	* 6.97
* 75	*	22.27	* 437.12	* 437.83	* 438.87	* 446.10	* 0.827707	* 13.18	* 1.91	* 4.64	* 6.30
* 76	*	10.70	* 451.02	* 451.44	* 451.44	* 451.60	* 0.013506	* 1.75	* 6.12	* 20.01	* 1.01
* 76	*	16.83	* 451.02	* 451.55	* 451.55	* 451.76	* 0.012271	* 2.01	* 8.36	* 20.60	* 1.01
* 76	*	22.27	* 451.02	* 451.64	* 451.64	* 451.88	* 0.011561	* 2.19	* 10.17	* 21.06	* 1.01

Profile Output - Standard Table 2

* River Sta.	* E.G. Elev (m)	* W.S. Elev (m)	* Vel Head (m)	* Frctn Loss (m)	* C & E Loss (m)	* Q Left (m3/s)	* Q Channel (m3/s)	* Q Right (m3/s)	* Top Width (m)
* 1	* 244.23	* 242.43	* 1.80	* 0.13	* 0.02	* 0.58	* 72.90	*	* 11.38
* 1	* 244.79	* 242.69	* 2.10	* 0.12	* 0.04	* 1.01	* 97.16	*	* 11.63
* 1	* 245.45	* 243.02	* 2.43	* 0.12	* 0.04	* 1.77	* 129.11	*	* 13.17
* 2	* 244.39	* 242.81	* 1.57	* 0.19	* 0.06	*	* 73.48	*	* 8.77
* 2	* 244.96	* 243.21	* 1.75	* 0.18	* 0.07	*	* 98.17	*	* 9.52
* 2	* 245.61	* 243.60	* 2.01	* 0.18	* 0.07	*	* 130.88	*	* 11.10
* 3	* 244.64	* 243.66	* 0.99	* 0.13	* 0.03	*	* 73.48	*	* 8.54
* 3	* 245.20	* 244.15	* 1.06	* 0.13	* 0.01	*	* 98.17	*	* 10.31
* 3	* 245.87	* 244.60	* 1.27	* 0.13	* 0.02	*	* 130.88	*	* 10.38
* 4	* 244.76	* 244.38	* 0.38	* 0.06	* 0.06	*	* 73.48	*	* 10.32
* 4	* 245.33	* 244.83	* 0.49	* 0.07	* 0.06	*	* 98.17	*	* 10.39
* 4	* 246.00	* 245.37	* 0.63	* 0.07	* 0.06	*	* 130.88	*	* 10.48
* 5	* 246.71	* 245.43	* 1.28	* 3.01	* 0.00	*	* 67.78	* 5.70	* 50.64
* 5	* 246.87	* 245.57	* 1.30	* 3.02	* 0.00	*	* 79.45	* 18.72	* 53.20
* 5	* 247.05	* 245.71	* 1.34	* 3.03	* 0.00	* 0.00	* 92.75	* 38.13	* 55.41
* 6	* 249.73	* 248.44	* 1.29	* 2.32	* 0.05	* 9.05	* 63.75	* 0.67	* 44.19
* 6	* 249.89	* 248.59	* 1.31	* 2.33	* 0.05	* 19.68	* 74.73	* 3.76	* 46.25
* 6	* 250.08	* 248.74	* 1.34	* 2.39	* 0.04	* 34.42	* 87.09	* 9.37	* 47.60
* 7	* 252.10	* 251.34	* 0.75	* 2.39	* 0.04	* 0.55	* 51.59	* 21.34	* 49.32
* 7	* 252.28	* 251.48	* 0.80	* 2.40	* 0.04	* 1.20	* 60.61	* 36.36	* 51.88
* 7	* 252.50	* 251.61	* 0.89	* 2.41	* 0.03	* 2.13	* 71.92	* 56.84	* 55.62
* 8	* 254.52	* 253.63	* 0.89	* 3.43	* 0.00	* 17.78	* 49.52	* 6.18	* 39.57
* 8	* 254.71	* 253.78	* 0.93	* 3.41	* 0.01	* 30.51	* 58.43	* 9.23	* 40.67
* 8	* 254.93	* 253.96	* 0.98	* 3.38	* 0.01	* 48.53	* 68.87	* 13.48	* 41.84
* 9	* 257.96	* 257.06	* 0.90	* 2.53	* 0.04	* 15.51	* 45.96	* 12.01	* 54.23
* 9	* 258.12	* 257.17	* 0.95	* 2.71	* 0.09	* 22.62	* 53.77	* 21.77	* 56.94
* 9	* 258.32	* 257.30	* 1.02	* 2.91	* 0.14	* 31.88	* 63.20	* 35.81	* 58.34
* 10	* 260.52	* 259.49	* 1.03	* 2.83	* 0.02	* 17.53	* 54.04	* 1.91	* 27.26
* 10	* 260.92	* 259.68	* 1.24	* 2.85	* 0.00	* 26.37	* 67.43	* 4.37	* 29.93
* 10	* 261.37	* 259.89	* 1.48	* 2.83	* 0.02	* 38.10	* 83.99	* 8.79	* 34.74
* 11	* 263.38	* 262.28	* 1.09	* 3.15	* 0.01	* 5.59	* 67.17	* 0.72	* 20.16
* 11	* 263.77	* 262.57	* 1.20	* 3.00	* 0.01	* 10.70	* 85.08	* 2.39	* 21.06
* 11	* 264.22	* 262.92	* 1.30	* 2.83	* 0.02	* 18.03	* 107.46	* 5.39	* 22.27
* 12	* 266.54	* 265.56	* 0.98	* 3.49	* 0.00	* 9.77	* 61.59	* 2.12	* 36.72
* 12	* 266.78	* 265.74	* 1.05	* 3.47	* 0.00	* 15.33	* 74.52	* 8.32	* 41.41
* 12	* 267.07	* 265.95	* 1.13	* 3.43	* 0.00	* 22.83	* 90.45	* 17.60	* 57.95
* 13	* 270.03	* 269.08	* 0.94	* 3.92	* 0.10	* 0.04	* 49.92	* 23.52	* 35.24
* 13	* 270.25	* 269.22	* 1.03	* 3.82	* 0.06	* 0.11	* 59.31	* 38.76	* 37.01
* 13	* 270.51	* 269.37	* 1.14	* 3.77	* 0.04	* 1.10	* 70.30	* 59.48	* 57.55
* 14	* 274.05	* 272.76	* 1.28	* 3.64	* 0.09	* 0.77	* 58.06	* 14.64	* 45.28
* 14	* 274.13	* 272.90	* 1.22	* 3.83	* 0.18	* 1.24	* 65.75	* 31.18	* 47.34

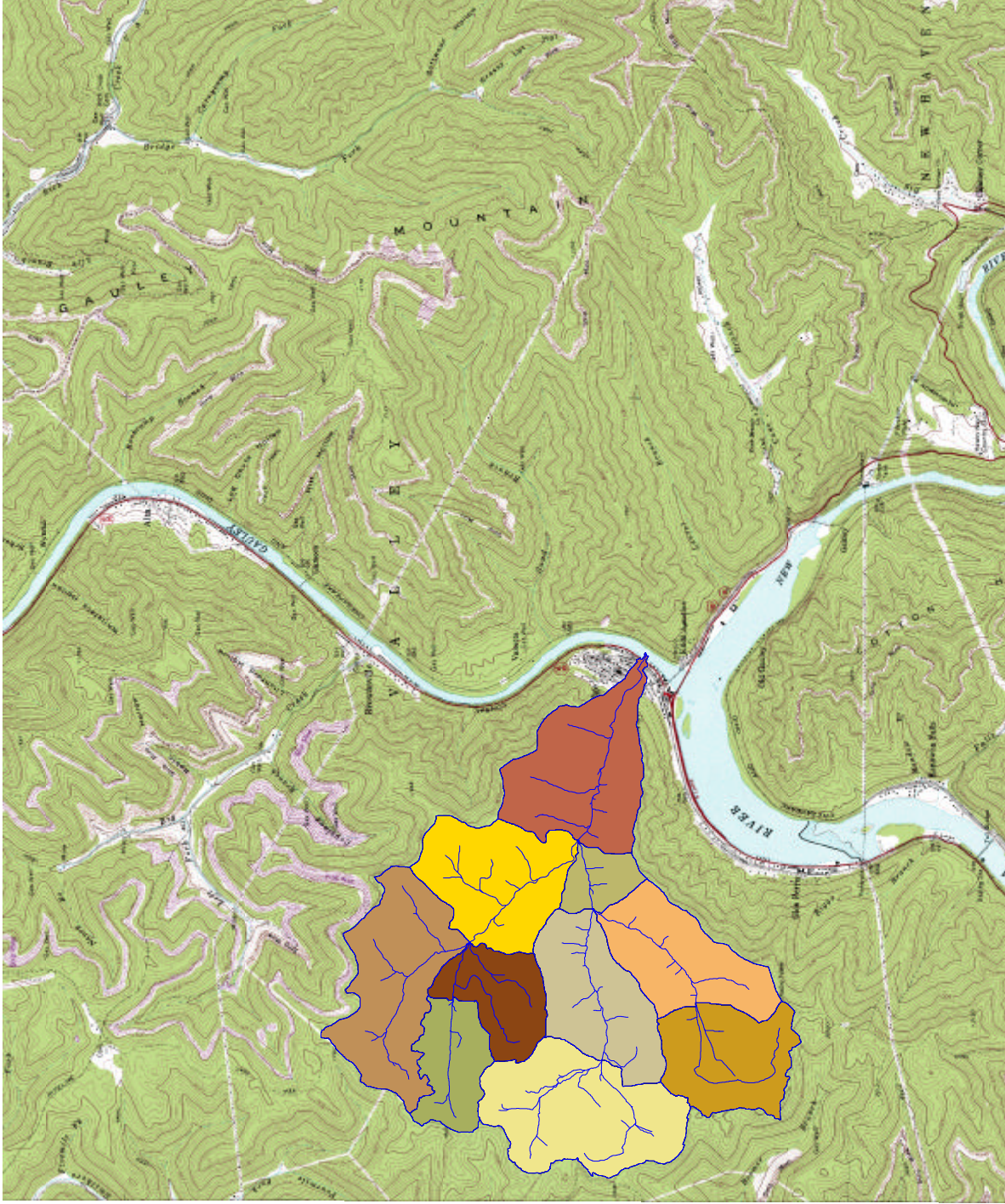
* 14	*	274.31 *	273.06 *	1.25 *	3.79 *	0.16 *	1.90 *	76.06 *	52.91 *	53.68 *
* 15	*	277.78 *	276.19 *	1.59 *	2.27 *	0.04 *	8.09 *	55.40 *	1.55 *	58.17 *
* 15	*	278.14 *	276.32 *	1.83 *	2.45 *	0.04 *	20.04 *	68.03 *	2.80 *	58.54 *
* 15	*	278.27 *	276.47 *	1.80 *	2.61 *	0.02 *	37.79 *	78.24 *	4.45 *	58.99 *
* 16	*	280.10 *	278.91 *	1.20 *	3.19 *	0.02 *	1.77 *	60.33 *	2.94 *	16.02 *
* 16	*	280.63 *	279.19 *	1.45 *	3.01 *	0.02 *	3.78 *	80.07 *	7.02 *	20.68 *
* 16	*	280.90 *	279.31 *	1.59 *	3.08 *	0.02 *	5.18 *	94.73 *	20.58 *	58.48 *
* 17	*	283.31 *	282.05 *	1.26 *	3.12 *	0.06 *	8.82 *	54.62 *	1.60 *	20.97 *
* 17	*	283.66 *	282.36 *	1.29 *	3.11 *	0.05 *	15.69 *	69.36 *	5.82 *	26.56 *
* 17	*	284.01 *	282.65 *	1.35 *	3.07 *	0.04 *	22.03 *	85.13 *	13.32 *	31.17 *
* 18	*	286.49 *	285.81 *	0.68 *	3.44 *	0.28 *	6.78 *	58.06 *	0.20 *	36.41 *
* 18	*	286.82 *	285.99 *	0.83 *	3.31 *	0.17 *	15.09 *	74.69 *	1.10 *	38.68 *
* 18	*	287.12 *	286.18 *	0.94 *	3.26 *	0.14 *	26.09 *	91.62 *	2.78 *	41.13 *
* 19	*	290.21 *	288.60 *	1.61 *	1.18 *	0.11 *	2.97 *	54.78 *	7.29 *	25.86 *
* 19	*	290.30 *	288.89 *	1.40 *	1.60 *	0.05 *	8.02 *	65.78 *	17.07 *	34.80 *
* 19	*	290.51 *	289.12 *	1.39 *	1.77 *	0.02 *	13.29 *	77.72 *	29.47 *	39.25 *
* 20	*	291.50 *	291.02 *	0.48 *	0.18 *	0.11 *	6.45 *	52.59 *	6.00 *	66.44 *
* 20	*	291.95 *	291.03 *	0.92 *	0.29 *	0.09 *	9.17 *	73.13 *	8.57 *	66.62 *
* 20	*	292.31 *	291.12 *	1.19 *	0.35 *	0.05 *	15.48 *	90.09 *	14.92 *	69.45 *
* 21	*	291.79 *	290.93 *	0.86 *	0.22 *	0.21 *	*	64.85 *	0.19 *	16.31 *
* 21	*	292.33 *	291.12 *	1.21 *	0.25 *	0.16 *	0.23 *	89.02 *	1.62 *	28.09 *
* 21	*	292.71 *	291.34 *	1.37 *	0.24 *	0.09 *	2.33 *	112.62 *	5.54 *	41.69 *
* 22	*	292.22 *	290.65 *	1.58 *	0.44 *	0.05 *	*	65.04 *	*	10.35 *
* 22	*	292.74 *	291.00 *	1.74 *	0.40 *	0.06 *	*	90.82 *	0.05 *	15.98 *
* 22	*	293.04 *	291.38 *	1.66 *	0.37 *	0.05 *	*	116.69 *	3.80 *	23.58 *
* 23	*	292.72 *	291.66 *	1.06 *	1.27 *	0.11 *	1.53 *	60.58 *	2.93 *	15.72 *
* 23	*	293.21 *	292.02 *	1.18 *	1.18 *	0.12 *	4.82 *	78.62 *	7.43 *	40.10 *
* 23	*	293.46 *	292.29 *	1.17 *	1.10 *	0.11 *	16.29 *	92.21 *	11.98 *	52.49 *
* 24	*	294.10 *	292.67 *	1.44 *	3.80 *	0.02 *	0.45 *	64.59 *	0.00 *	19.84 *
* 24	*	294.51 *	292.93 *	1.58 *	3.84 *	0.01 *	5.90 *	84.91 *	0.06 *	38.45 *
* 24	*	294.67 *	293.13 *	1.54 *	4.00 *	0.04 *	19.70 *	100.62 *	0.17 *	60.63 *
* 25	*	297.92 *	296.74 *	1.18 *	3.44 *	0.14 *	11.72 *	53.03 *	0.29 *	32.01 *
* 25	*	298.36 *	296.93 *	1.44 *	3.53 *	0.17 *	21.97 *	68.39 *	0.51 *	54.69 *
* 25	*	298.72 *	297.03 *	1.69 *	3.66 *	0.17 *	37.77 *	82.01 *	0.71 *	57.85 *
* 26	*	301.49 *	299.85 *	1.65 *	2.22 *	0.10 *	0.33 *	64.71 *	*	15.02 *
* 26	*	302.06 *	300.06 *	2.00 *	1.88 *	0.14 *	1.03 *	89.82 *	0.02 *	16.24 *
* 26	*	302.56 *	300.29 *	2.26 *	1.61 *	0.17 *	3.04 *	117.28 *	0.16 *	29.22 *
* 26.7	*	303.81 *	303.19 *	0.62 *	0.77 *	0.26 *	6.95 *	38.14 *	19.95 *	40.18 *
* 26.7	*	304.07 *	303.47 *	0.60 *	0.67 *	0.27 *	12.86 *	47.31 *	30.70 *	44.73 *
* 26.7	*	304.34 *	303.76 *	0.58 *	0.57 *	0.29 *	20.39 *	56.84 *	43.27 *	49.08 *
* 27	*	304.84 *	303.36 *	1.48 *	1.15 *	0.09 *	*	51.42 *	5.07 *	32.82 *
* 27	*	305.01 *	303.51 *	1.49 *	1.19 *	0.09 *	*	63.40 *	16.34 *	35.06 *
* 27	*	305.17 *	303.65 *	1.52 *	1.26 *	0.08 *	0.01 *	74.89 *	30.50 *	37.89 *
* 27.5	*	306.06 *	305.53 *	0.53 *	0.84 *	0.10 *	12.65 *	39.52 *	4.32 *	53.92 *
* 27.5	*	306.28 *	305.68 *	0.60 *	0.99 *	0.19 *	24.03 *	49.42 *	6.28 *	54.33 *
* 27.5	*	306.50 *	305.80 *	0.70 *	1.16 *	0.28 *	36.99 *	59.92 *	8.49 *	54.69 *
* 28	*	307.01 *	306.13 *	0.88 *	0.70 *	0.01 *	*	43.50 *	12.99 *	29.95 *
* 28	*	307.47 *	306.22 *	1.25 *	0.74 *	0.02 *	*	56.97 *	22.77 *	30.43 *
* 28	*	307.95 *	306.30 *	1.65 *	0.69 *	0.06 *	*	70.86 *	34.54 *	30.85 *
* 29	*	307.72 *	306.81 *	0.90 *	0.40 *	0.21 *	*	56.49 *	*	11.34 *
* 29	*	308.21 *	307.20 *	1.02 *	0.31 *	0.18 *	*	79.74 *	*	11.64 *
* 29	*	308.71 *	307.70 *	1.01 *	0.37 *	0.15 *	*	105.40 *	*	11.72 *
* 30	*	308.33 *	306.73 *	1.60 *	0.50 *	0.06 *	*	56.49 *	*	11.32 *
* 30	*	308.71 *	307.08 *	1.62 *	0.38 *	0.07 *	*	79.74 *	*	11.39 *
* 30	*	308.84 *	308.69 *	0.15 *	0.05 *	0.09 *	28.96 *	65.92 *	10.52 *	75.09 *
* 31	*	308.89 *	307.92 *	0.97 *	2.95 *	0.03 *	*	55.65 *	0.84 *	20.93 *
* 31	*	309.16 *	308.23 *	0.93 *	2.81 *	0.02 *	*	70.35 *	9.39 *	38.48 *
* 31	*	309.35 *	308.45 *	0.91 *	2.82 *	0.01 *	0.01 *	82.37 *	23.02 *	43.09 *
* 32	*	311.86 *	311.15 *	0.71 *	4.06 *	0.29 *	*	34.24 *	22.25 *	57.91 *
* 32	*	311.99 *	311.26 *	0.73 *	4.08 *	0.27 *	*	40.29 *	39.45 *	60.66 *
* 32	*	312.18 *	311.35 *	0.83 *	4.10 *	0.22 *	*	47.41 *	57.99 *	63.00 *
* 33	*	316.19 *	314.54 *	1.66 *	4.53 *	0.01 *	*	41.01 *	15.48 *	25.45 *
* 33	*	316.34 *	314.72 *	1.62 *	4.65 *	0.02 *	0.00 *	48.88 *	30.86 *	26.41 *
* 33	*	316.50 *	314.94 *	1.55 *	4.78 *	0.13 *	0.06 *	58.12 *	47.22 *	38.99 *
* 34	*	320.73 *	319.19 *	1.54 *	2.77 *	0.06 *	1.12 *	52.08 *	3.29 *	45.48 *
* 34	*	321.02 *	319.33 *	1.69 *	3.10 *	0.04 *	2.31 *	63.50 *	13.93 *	54.06 *
* 34	*	321.41 *	319.43 *	1.98 *	3.28 *	0.05 *	3.53 *	75.90 *	25.97 *	61.56 *
* 35	*	323.55 *	322.61 *	0.94 *	4.93 *	0.53 *	4.23 *	49.81 *	2.45 *	11.74 *
* 35	*	324.16 *	322.88 *	1.28 *	4.57 *	0.33 *	6.74 *	68.73 *	4.27 *	12.47 *
* 35	*	324.73 *	323.21 *	1.52 *	4.24 *	0.23 *	9.25 *	89.14 *	7.01 *	14.07 *
* 36	*	329.01 *	326.31 *	2.70 *	3.15 *	0.21 *	0.00 *	56.49 *	*	7.62 *
* 36	*	329.06 *	326.69 *	2.38 *	3.61 *	0.14 *	0.09 *	74.92 *	4.73 *	22.74 *
* 36	*	329.20 *	326.91 *	2.29 *	3.99 *	0.10 *	0.27 *	89.24 *	15.89 *	33.02 *
* 37	*	332.37 *	331.75 *	0.62 *	0.47 *	0.24 *	0.15 *	52.18 *	4.16 *	26.89 *
* 37	*	332.83 *	331.87 *	0.96 *	0.60 *	0.27 *	0.28 *	70.93 *	8.53 *	27.03 *
* 37	*	333.30 *	332.01 *	1.29 *	0.70 *	0.27 *	0.49 *	90.18 *	14.74 *	27.19 *
* 38	*	333.08 *	331.65 *	1.43 *	0.34 *	0.05 *	*	56.49 *	*	12.86 *
* 38	*	333.70 *	331.85 *	1.85 *	0.34 *	0.04 *	*	79.74 *	*	12.90 *



* 38	*	334.27 *	332.07 *	2.20 *	0.33 *	0.03 *	*	105.40 *	*	12.94 *
*	*	*	*	*	*	*	*	*	*	*
* 39	*	333.47 *	331.89 *	1.59 *	0.29 *	0.07 *	*	56.49 *	*	12.34 *
* 39	*	334.07 *	332.11 *	1.97 *	0.32 *	0.07 *	*	79.74 *	*	12.46 *
* 39	*	334.63 *	332.33 *	2.30 *	0.33 *	0.07 *	*	105.40 *	*	12.58 *
*	*	*	*	*	*	*	*	*	*	*
* 40	*	333.83 *	332.91 *	0.92 *	2.95 *	0.44 *	*	56.49 *	*	9.20 *
* 40	*	334.47 *	333.18 *	1.29 *	2.84 *	0.34 *	0.11 *	79.63 *	*	13.91 *
* 40	*	335.04 *	333.41 *	1.63 *	2.76 *	0.27 *	2.16 *	103.24 *	*	26.26 *
*	*	*	*	*	*	*	*	*	*	*
* 41	*	337.22 *	334.84 *	2.38 *	1.21 *	0.17 *	0.00 *	56.49 *	*	8.26 *
* 41	*	337.64 *	335.23 *	2.42 *	1.30 *	0.14 *	0.35 *	79.24 *	0.15 *	11.72 *
* 41	*	338.07 *	335.54 *	2.53 *	1.50 *	0.10 *	3.25 *	101.08 *	1.07 *	25.22 *
*	*	*	*	*	*	*	*	*	*	*
* 42	*	338.60 *	337.90 *	0.70 *	0.12 *	0.32 *	2.45 *	53.99 *	0.04 *	20.95 *
* 42	*	339.08 *	338.07 *	1.02 *	0.17 *	0.23 *	7.00 *	72.61 *	0.13 *	21.40 *
* 42	*	339.67 *	338.15 *	1.52 *	0.18 *	0.08 *	11.61 *	93.57 *	0.22 *	21.50 *
*	*	*	*	*	*	*	*	*	*	*
* 43	*	338.92 *	337.33 *	1.59 *	0.18 *	0.13 *	*	56.49 *	*	9.37 *
* 43	*	339.48 *	337.68 *	1.80 *	0.15 *	0.11 *	*	79.74 *	*	9.44 *
* 43	*	339.94 *	338.14 *	1.80 *	0.11 *	0.09 *	*	105.40 *	*	9.52 *
*	*	*	*	*	*	*	*	*	*	*
* 44	*	339.23 *	337.22 *	2.01 *	0.24 *	0.08 *	*	56.49 *	*	9.04 *
* 44	*	339.74 *	337.58 *	2.16 *	0.21 *	0.08 *	*	79.74 *	*	9.08 *
* 44	*	340.14 *	338.04 *	2.10 *	0.18 *	0.06 *	*	105.40 *	*	9.12 *
*	*	*	*	*	*	*	*	*	*	*
* 45	*	339.55 *	338.33 *	1.22 *	0.85 *	0.01 *	1.62 *	54.87 *	0.00 *	15.82 *
* 45	*	340.02 *	338.65 *	1.37 *	0.90 *	0.02 *	8.00 *	71.65 *	0.09 *	23.38 *
* 45	*	340.37 *	338.90 *	1.47 *	0.90 *	0.05 *	18.31 *	86.77 *	0.32 *	34.04 *
*	*	*	*	*	*	*	*	*	*	*
* 46	*	340.41 *	339.30 *	1.11 *	3.43 *	0.16 *	3.97 *	52.52 *	*	17.47 *
* 46	*	340.94 *	339.49 *	1.45 *	3.47 *	0.13 *	9.70 *	70.03 *	0.01 *	28.00 *
* 46	*	341.32 *	339.69 *	1.64 *	3.40 *	0.10 *	18.98 *	86.34 *	0.08 *	33.58 *
*	*	*	*	*	*	*	*	*	*	*
* 47	*	343.99 *	342.36 *	1.63 *	2.08 *	0.10 *	2.80 *	53.29 *	0.40 *	12.91 *
* 47	*	344.54 *	342.66 *	1.88 *	1.82 *	0.12 *	3.82 *	73.60 *	2.32 *	26.64 *
* 47	*	344.83 *	342.87 *	1.96 *	1.75 *	0.12 *	10.57 *	89.67 *	5.16 *	36.23 *
*	*	*	*	*	*	*	*	*	*	*
* 48	*	346.17 *	345.49 *	0.68 *	0.79 *	0.13 *	1.57 *	38.59 *	0.62 *	30.76 *
* 48	*	346.47 *	345.75 *	0.72 *	0.72 *	0.15 *	8.27 *	51.19 *	1.56 *	41.59 *
* 48	*	346.69 *	345.93 *	0.76 *	0.68 *	0.15 *	16.95 *	61.81 *	2.57 *	43.83 *
*	*	*	*	*	*	*	*	*	*	*
* 49	*	347.08 *	345.98 *	1.11 *	0.46 *	0.02 *	26.52 *	14.26 *	*	24.58 *
* 49	*	347.34 *	346.12 *	1.22 *	0.42 *	0.04 *	42.90 *	18.12 *	*	25.98 *
* 49	*	347.51 *	346.27 *	1.24 *	0.38 *	0.05 *	59.81 *	21.52 *	*	27.43 *
*	*	*	*	*	*	*	*	*	*	*
* 50	*	347.57 *	346.71 *	0.86 *	0.72 *	0.01 *	7.52 *	33.26 *	*	22.93 *
* 50	*	347.79 *	347.00 *	0.79 *	0.72 *	0.02 *	19.28 *	41.66 *	0.08 *	35.26 *
* 50	*	347.94 *	347.18 *	0.76 *	0.72 *	0.06 *	30.22 *	48.17 *	2.94 *	58.94 *
*	*	*	*	*	*	*	*	*	*	*
* 51	*	348.30 *	347.56 *	0.75 *	3.91 *	0.02 *	0.09 *	28.14 *	12.56 *	41.72 *
* 51	*	348.53 *	347.67 *	0.86 *	4.17 *	0.07 *	0.30 *	35.08 *	25.64 *	48.32 *
* 51	*	348.72 *	347.76 *	0.96 *	4.37 *	0.10 *	1.00 *	40.93 *	39.40 *	50.25 *
*	*	*	*	*	*	*	*	*	*	*
* 52	*	352.24 *	351.43 *	0.81 *	4.60 *	0.06 *	*	40.78 *	*	11.41 *
* 52	*	352.77 *	351.69 *	1.08 *	4.58 *	0.07 *	0.03 *	60.93 *	0.06 *	15.23 *
* 52	*	353.19 *	351.89 *	1.30 *	4.60 *	0.10 *	0.17 *	79.62 *	1.54 *	22.41 *
*	*	*	*	*	*	*	*	*	*	*
* 53	*	356.91 *	355.89 *	1.01 *	5.08 *	0.00 *	*	40.78 *	*	13.53 *
* 53	*	357.42 *	356.10 *	1.32 *	4.94 *	0.02 *	*	61.02 *	0.00 *	15.04 *
* 53	*	357.87 *	356.26 *	1.61 *	4.78 *	0.04 *	0.00 *	81.01 *	0.32 *	18.82 *
*	*	*	*	*	*	*	*	*	*	*
* 54	*	361.99 *	361.00 *	0.99 *	2.75 *	0.08 *	0.78 *	35.64 *	4.36 *	19.61 *
* 54	*	362.38 *	361.25 *	1.13 *	2.69 *	0.08 *	2.38 *	48.13 *	10.51 *	21.02 *
* 54	*	362.70 *	361.48 *	1.22 *	2.64 *	0.09 *	4.35 *	59.52 *	17.46 *	23.01 *
*	*	*	*	*	*	*	*	*	*	*
* 55	*	364.82 *	363.58 *	1.24 *	0.46 *	0.05 *	8.79 *	30.72 *	1.27 *	21.21 *
* 55	*	365.15 *	363.76 *	1.38 *	0.45 *	0.05 *	15.61 *	40.69 *	4.73 *	27.86 *
* 55	*	365.43 *	363.89 *	1.54 *	0.45 *	0.05 *	22.11 *	49.42 *	9.81 *	32.08 *
*	*	*	*	*	*	*	*	*	*	*
* 56	*	365.32 *	364.56 *	0.76 *	0.23 *	0.05 *	*	12.94 *	27.84 *	23.17 *
* 56	*	365.63 *	364.72 *	0.92 *	0.23 *	0.03 *	*	18.19 *	42.83 *	25.40 *
* 56	*	365.92 *	364.85 *	1.07 *	0.21 *	0.00 *	0.10 *	23.66 *	57.57 *	29.13 *
*	*	*	*	*	*	*	*	*	*	*
* 57	*	365.60 *	364.67 *	0.93 *	0.20 *	0.01 *	*	25.71 *	15.07 *	19.29 *
* 57	*	365.89 *	364.87 *	1.01 *	0.20 *	0.01 *	0.00 *	32.67 *	28.35 *	22.69 *
* 57	*	366.12 *	365.06 *	1.06 *	0.20 *	0.00 *	0.11 *	38.78 *	42.43 *	25.27 *
*	*	*	*	*	*	*	*	*	*	*
* 58	*	365.81 *	364.97 *	0.84 *	1.38 *	0.10 *	*	32.95 *	7.83 *	22.86 *
* 58	*	366.09 *	365.16 *	0.94 *	1.44 *	0.13 *	0.75 *	42.25 *	18.02 *	34.47 *
* 58	*	366.32 *	365.29 *	1.02 *	1.45 *	0.13 *	3.53 *	50.09 *	27.71 *	34.83 *
*	*	*	*	*	*	*	*	*	*	*
* 59	*	367.28 *	366.11 *	1.17 *	3.77 *	0.04 *	0.07 *	38.39 *	2.32 *	22.69 *
* 59	*	367.66 *	366.30 *	1.37 *	4.02 *	0.03 *	1.33 *	51.94 *	7.75 *	27.82 *
* 59	*	367.90 *	366.45 *	1.44 *	4.25 *	0.01 *	3.24 *	63.22 *	14.87 *	30.62 *
*	*	*	*	*	*	*	*	*	*	*
* 60	*	371.09 *	370.26 *	0.82 *	5.75 *	0.87 *	*	40.78 *	*	7.96 *
* 60	*	371.71 *	370.62 *	1.09 *	5.49 *	0.76 *	*	60.74 *	0.28 *	16.71 *
* 60	*	372.16 *	370.83 *	1.33 *	5.43 *	0.70 *	0.05 *	77.85 *	3.42 *	24.27 *
*	*	*	*	*	*	*	*	*	*	*
* 61	*	377.71 *	373.98 *	3.73 *	0.73 *	0.32 *	*	40.78 *	*	6.61 *
* 61	*	377.96 *	374.33 *	3.63 *	0.94 *	0.28 *	*	61.02 *	*	7.47 *
* 61	*	378.29 *	374.64 *	3.65 *	0.95 *	0.26 *	*	81.33 *	*	7.87 *
*	*	*	*	*	*	*	*	*	*	*
* 62	*	378.74 *	378.22 *	0.52 *	0.77 *	0.37 *	2.00 *	32.56 *	6.22 *	27.99 *
* 62	*	379.17 *	378.31 *	0.86 *	0.94 *	0.32 *	4.81 *	45.75 *	10.46 *	27.99 *
* 62	*	379.49 *	378.44 *	1.05 *	0.98 *	0.29 *	9.56 *	56.17 *	15.60 *	27.99 *
*	*	*	*	*	*	*	*	*	*	*
* 63	*	379.89 *	378.13 *	1.76 *	2.12 *	0.14 *	*	40.78 *	*	7.03 *
* 63	*	380.43 *	378.51 *	1.92 *	1.89 *	0.15 *	0.71 *	60.30 *	0.01 *	15.90 *
* 63	*	380.76 *	378.74 *	2.02 *	1.82 *	0.15 *	6.28 *	74.97 *	0.08 *	20.42 *
*	*	*	*	*	*	*	*	*	*	*
* 64	*	382.14 *	381.74 *	0.39 *	0.80 *	0.00 *	5.51 *	35.11 *	0.16 *	20.20 *
* 64	*	382.48 *	382.02 *	0.45 *	0.79 *	0.00 *	14.74 *	45.49 *	0.79 *	24.30 *

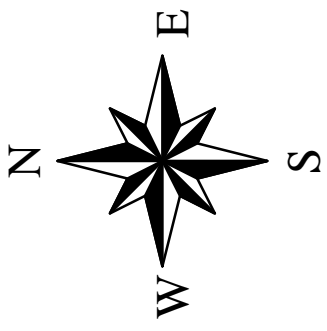
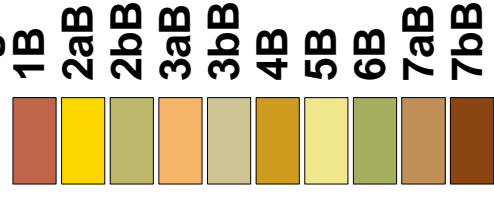
* 64	*	382.74 *	382.24 *	0.51 *	0.78 *	0.00 *	25.25 *	54.40 *	1.68 *	27.05 *
*	*	*	*	*	*	*	*	*	*	*
* 65	*	386.88 *	384.96 *	1.92 *	4.61 *	0.06 *	*	40.78 *	*	6.58 *
* 65	*	387.68 *	385.29 *	2.38 *	4.57 *	0.06 *	*	61.02 *	*	6.95 *
* 65	*	388.49 *	385.54 *	2.95 *	4.24 *	0.11 *	*	81.33 *	*	7.23 *
*	*	*	*	*	*	*	*	*	*	*
* 66	*	391.55 *	390.17 *	1.37 *	0.84 *	0.10 *	*	40.78 *	*	6.71 *
* 66	*	392.32 *	390.53 *	1.79 *	0.71 *	0.01 *	*	61.02 *	*	7.02 *
* 66	*	392.84 *	390.94 *	1.90 *	0.68 *	0.00 *	*	81.14 *	0.19 *	10.79 *
*	*	*	*	*	*	*	*	*	*	*
* 67	*	392.48 *	390.77 *	1.71 *	0.24 *	0.13 *	*	40.78 *	*	4.90 *
* 67	*	393.04 *	391.39 *	1.66 *	0.36 *	0.06 *	1.52 *	59.02 *	0.49 *	15.91 *
* 67	*	393.53 *	391.62 *	1.91 *	0.47 *	0.03 *	4.80 *	73.44 *	3.09 *	24.65 *
*	*	*	*	*	*	*	*	*	*	*
* 68	*	392.85 *	392.40 *	0.45 *	0.22 *	0.42 *	4.65 *	35.79 *	0.34 *	33.93 *
* 68	*	393.46 *	392.37 *	1.09 *	0.40 *	0.36 *	6.20 *	54.47 *	0.35 *	32.59 *
* 68	*	394.03 *	392.44 *	1.59 *	0.49 *	0.31 *	10.76 *	69.49 *	1.08 *	39.86 *
*	*	*	*	*	*	*	*	*	*	*
* 69	*	393.49 *	391.65 *	1.85 *	5.69 *	0.08 *	*	40.78 *	*	7.74 *
* 69	*	394.23 *	391.94 *	2.29 *	5.42 *	0.11 *	*	61.02 *	*	8.17 *
* 69	*	394.82 *	392.21 *	2.61 *	5.21 *	0.13 *	*	81.33 *	*	8.56 *
*	*	*	*	*	*	*	*	*	*	*
* 70	*	399.26 *	398.22 *	1.04 *	5.46 *	0.01 *	0.80 *	39.98 *	*	13.22 *
* 70	*	399.77 *	398.58 *	1.20 *	5.40 *	0.00 *	4.83 *	56.19 *	*	16.93 *
* 70	*	400.16 *	398.86 *	1.30 *	5.34 *	0.04 *	10.46 *	70.87 *	*	20.57 *
*	*	*	*	*	*	*	*	*	*	*
* 71	*	404.73 *	403.83 *	0.90 *	8.79 *	0.02 *	*	12.68 *	7.51 *	13.71 *
* 71	*	405.17 *	403.99 *	1.18 *	8.85 *	0.02 *	*	19.35 *	13.07 *	14.34 *
* 71	*	405.55 *	404.09 *	1.45 *	8.87 *	0.02 *	0.03 *	24.99 *	17.77 *	15.66 *
*	*	*	*	*	*	*	*	*	*	*
* 72	*	413.55 *	412.83 *	0.72 *	7.64 *	0.01 *	0.20 *	10.48 *	0.02 *	4.83 *
* 72	*	414.06 *	413.05 *	1.00 *	7.34 *	0.03 *	0.55 *	16.23 *	0.05 *	5.44 *
* 72	*	414.44 *	413.22 *	1.22 *	7.11 *	0.04 *	1.00 *	21.18 *	0.09 *	5.90 *
*	*	*	*	*	*	*	*	*	*	*
* 73	*	421.20 *	420.63 *	0.57 *	7.79 *	0.02 *	4.19 *	6.37 *	0.15 *	16.10 *
* 73	*	421.42 *	420.74 *	0.69 *	7.94 *	0.01 *	7.21 *	9.32 *	0.29 *	17.50 *
* 73	*	421.59 *	420.82 *	0.78 *	8.07 *	0.00 *	9.98 *	11.84 *	0.45 *	18.57 *
*	*	*	*	*	*	*	*	*	*	*
* 74	*	429.01 *	428.61 *	0.40 *	13.68 *	2.00 *	0.02 *	10.67 *	0.01 *	7.00 *
* 74	*	429.37 *	428.77 *	0.60 *	14.07 *	2.19 *	0.09 *	16.72 *	0.02 *	7.35 *
* 74	*	429.67 *	428.89 *	0.78 *	14.19 *	2.25 *	0.19 *	22.04 *	0.04 *	7.61 *
*	*	*	*	*	*	*	*	*	*	*
* 75	*	444.70 *	437.62 *	7.08 *	6.22 *	0.69 *	0.06 *	9.85 *	0.79 *	4.21 *
* 75	*	445.64 *	437.73 *	7.90 *	5.48 *	0.76 *	0.16 *	15.56 *	1.11 *	4.44 *
* 75	*	446.10 *	437.83 *	8.27 *	5.05 *	0.80 *	0.28 *	20.54 *	1.44 *	4.64 *
*	*	*	*	*	*	*	*	*	*	*
* 76	*	451.60 *	451.44 *	0.16 *	2.06 *	0.03 *	*	10.70 *	*	20.01 *
* 76	*	451.76 *	451.55 *	0.21 *	1.81 *	0.03 *	*	16.83 *	*	20.60 *
* 76	*	451.88 *	451.64 *	0.24 *	1.69 *	0.04 *	*	22.27 *	*	21.06 *

# Scrabble Creek Watershed



Streams

Drainage Areas

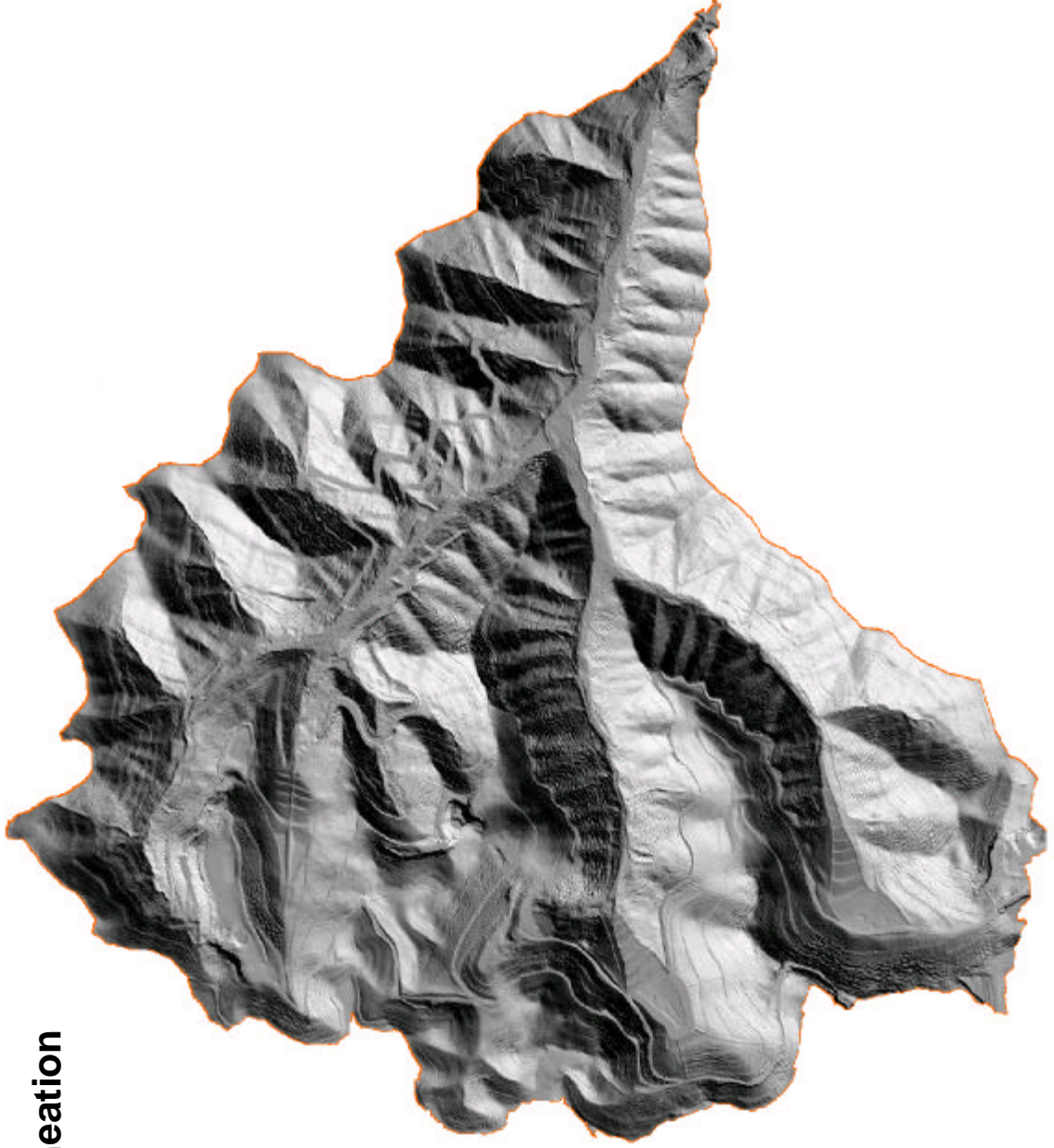


Printed March 27, 2002

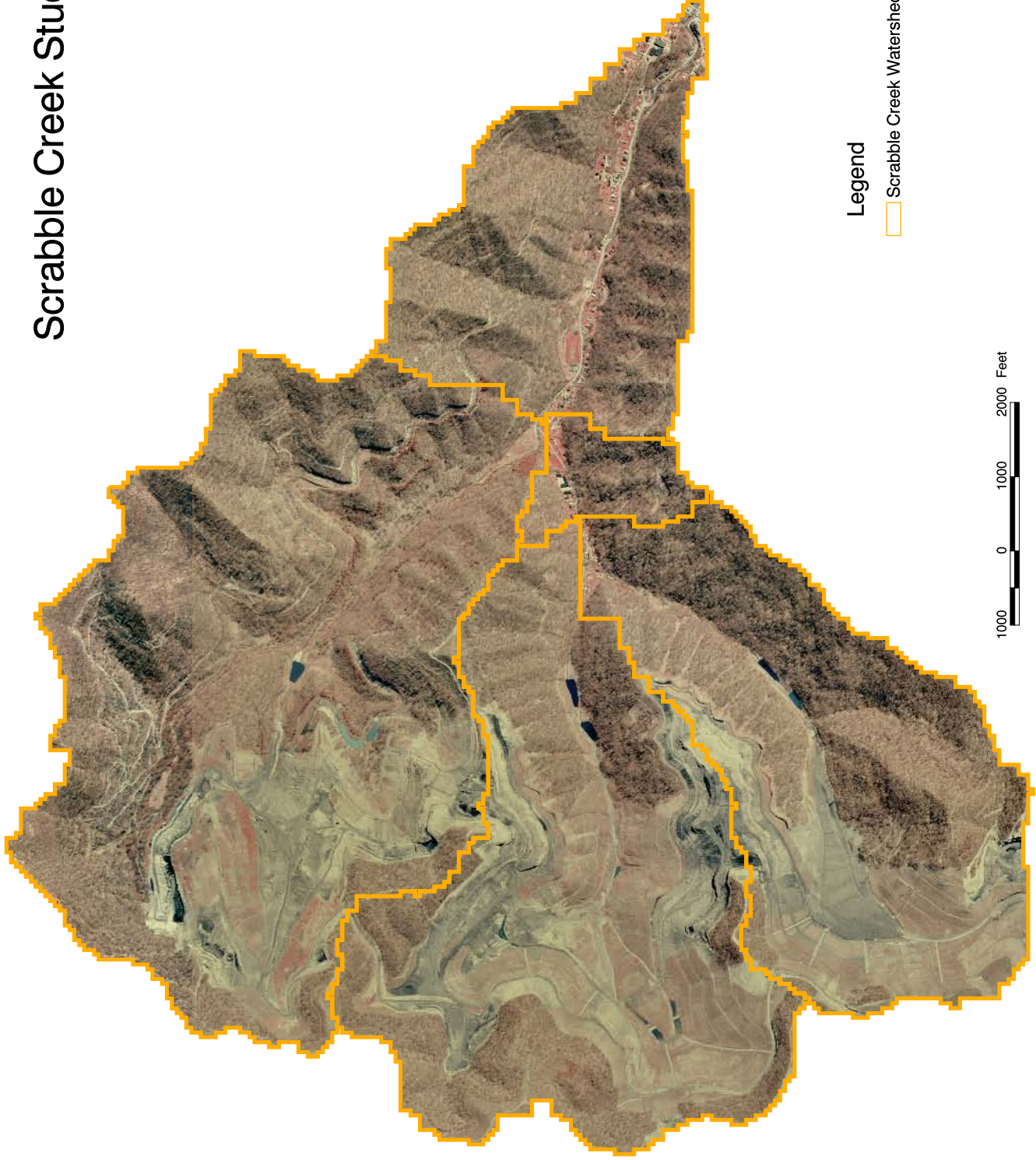
**Scrabble Creek LIDAR  
3D View  
Watershed Delineation**




**Scrabble Creek LIDAR  
Plan View  
Watershed Delineation**



# Scrabble Creek Study Area



## Legend

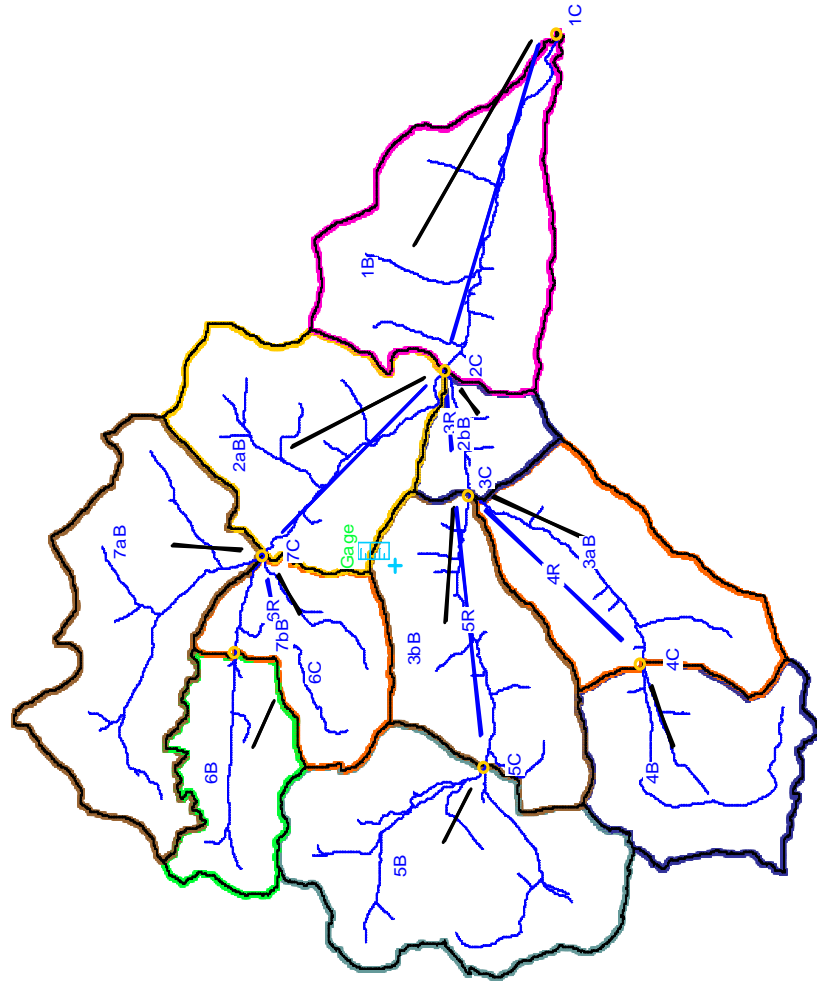
 Scrabble Creek Watershed Boundaries.



Outlet Node	Scenario 1			Scenario 2			Scenario 3			Scenario 4			Scenario 5		
	Event	25 yr	100 yr	Event	25 yr	100 yr	Event	25 yr	100 yr	Event	25 yr	100 yr	Event	25 yr	100 yr
1C	2045	3760	5165	1970	3595	4980	1663	2745	3879	1802	3242	4573	1877	3405	4755
2C	1803	3621	4926	1738	3515	4808	1426	2004	2848	1533	3041	4254	1586	3143	4368
3C	938	1886	2568	928	1867	2547	767	1320	1864	818	1634	2294	827	1654	2316
4C	203	395	535	203	395	535	171	336	470	173	341	477	173	341	477
5C	338	682	932	338	682	932	278	552	785	279	530	747	279	530	747
6C	134	286	392	134	286	392	113	238	337	112	228	324	112	228	324
7C	594	1489	2032	571	1422	1958	470	1108	1560	503	1241	1748	525	1307	1821

14 fps

Watershed Delineation and Basin / Outlet / Routing Naming



Scrabble Creek Hydrology Analysis

Scrabble Creek Watershed Hydrology Analysis	Scenario 1			Scenario 2			Scenario 3			Scenario 4			Scenario 5		
	With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (10m DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (10m DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (10m DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (10m DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (10m DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (10m DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (10m DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (10m DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (10m DEM Data)	Without Logging (CN 70) With Mining (CN 70) Pristine Topography (10m DEM Data)	
Bottom of Scrabble Creek at Node 1C	Storm Event	2045	3760	5165	1970	1663	2745	3879	1802	1877	3242	4573	1877	3405	4755
Max Flow															

Comparison with Scenario 3		Comparison with Scenario 1		Comparison with Scenario 4		
Difference	382	1015	1286	307	850	1101
% Difference	23.0%	37.0%	33.2%	18.5%	31.0%	28.4%

Comparison with Scenario 2		Comparison with Scenario 3		Comparison with Scenario 4		
Difference	75	165	185	168	353	407
% Difference	3.8%	4.6%	3.7%	9.3%	10.9%	8.9%

At Node 2C		At Node 2C		At Node 2C		
Max Flow	1803	3621	4926	1738	3515	4806

Comparison with Scenario 3		Comparison with Scenario 1		Comparison with Scenario 4		
Difference	377	1617	2078	312	1511	1960
% Difference	26.4%	80.7%	73.0%	21.9%	75.4%	68.8%

Comparison with Scenario 2		Comparison with Scenario 3		Comparison with Scenario 4		
Difference	65	106	118	205	474	554
% Difference	3.7%	3.0%	2.5%	13.4%	15.6%	13.0%

At Node 3C		At Node 3C		At Node 3C		
Max Flow	938	1886	2568	928	1867	2547

Comparison with Scenario 3		Comparison with Scenario 1		Comparison with Scenario 4		
Difference	171	566	704	161	547	683
% Difference	22.3%	42.9%	37.8%	21.0%	41.4%	36.6%

Comparison with Scenario 2		Comparison with Scenario 3		Comparison with Scenario 4		
Difference	10	19	21	110	233	253
% Difference	1.1%	1.0%	0.8%	13.4%	14.3%	11.0%

Downstream of Valley Fill at Node 4C		Downstream of Valley Fill at Node 4C		Downstream of Valley Fill at Node 4C		
Max Flow	203	395	535	203	395	535

Comparison with Scenario 3		Comparison with Scenario 1		Comparison with Scenario 4		
Difference	32	59	65	32	59	65
% Difference	18.7%	17.6%	13.8%	18.7%	14.9%	13.8%

Comparison with Scenario 2		Comparison with Scenario 3		Comparison with Scenario 4		
Difference	0	0	0	30	54	58
% Difference	0.0%	0.0%	0.0%	17.3%	15.8%	12.2%



Scrabble Creek Hydrology Analysis

Downstream of Valley Fill at Node 5C	Scenario 1				Scenario 2				Scenario 3				Scenario 4				Scenario 5								
	With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Storm Event	25 Yr Storm	100 yr Storm	932	338	338	682	682	932	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Storm Event	25 Yr Storm	100 yr Storm	785	552	530	747	Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (10m DEM Data)	Storm Event	25 Yr Storm	100 yr Storm	747	530	530

Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 1				Comparison with Scenario 4															
Difference	60	130	147	60	130	147	59	152	185	59	152	185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Difference	21.6%	23.6%	18.7%	21.6%	23.6%	18.7%	21.1%	28.7%	24.8%	21.1%	28.7%	24.8%	21.1%	28.7%	24.8%	21.1%	28.7%	24.8%	21.1%	28.7%	24.8%	21.1%	28.7%	24.8%	21.1%	28.7%	24.8%

Comparison with Scenario 2				Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 3															
Difference	0	0	0	59	152	185	-1	22	38	-1	22	38	-1	22	38	-1	22	38	-1	22	38	-1	22	38	-1	22	38
% Difference	0.0%	0.0%	0.0%	21.1%	28.7%	24.8%	-0.4%	4.2%	5.1%	-0.4%	4.2%	5.1%	-0.4%	4.2%	5.1%	-0.4%	4.2%	5.1%	-0.4%	4.2%	5.1%	-0.4%	4.2%	5.1%	-0.4%	4.2%	5.1%

Comparison with Scenario 2				Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 3															
Difference	0	0	0	59	152	185	-1	22	38	-1	22	38	-1	22	38	-1	22	38	-1	22	38	-1	22	38	-1	22	38
% Difference	0.0%	0.0%	0.0%	21.1%	28.7%	24.8%	-0.4%	4.2%	5.1%	-0.4%	4.2%	5.1%	-0.4%	4.2%	5.1%	-0.4%	4.2%	5.1%	-0.4%	4.2%	5.1%	-0.4%	4.2%	5.1%	-0.4%	4.2%	5.1%

Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 1				Comparison with Scenario 4															
Difference	21	48	55	21	48	55	22	58	68	22	58	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Difference	18.6%	20.2%	16.3%	18.6%	20.2%	16.3%	19.6%	25.4%	21.0%	19.6%	25.4%	21.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Comparison with Scenario 2				Comparison with Scenario 4				Comparison with Scenario 3				Comparison with Scenario 3															
Difference	0	0	0	22	58	68	1	10	13	1	10	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Difference	0.0%	0.0%	0.0%	19.6%	25.4%	21.0%	0.9%	4.4%	4.0%	0.9%	4.4%	4.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 1				Comparison with Scenario 4															
Difference	124	381	472	101	314	388	91	248	284	91	248	284	22	66	73	22	66	73	22	66	73	22	66	73	22	66	73
% Difference	26.4%	34.4%	30.3%	21.5%	28.3%	25.5%	18.1%	20.0%	16.2%	18.1%	20.0%	16.2%	4.4%	5.3%	4.2%	4.4%	5.3%	4.2%	4.4%	5.3%	4.2%	4.4%	5.3%	4.2%	4.4%	5.3%	4.2%

Comparison with Scenario 2				Comparison with Scenario 4				Comparison with Scenario 3				Comparison with Scenario 3															
Difference	23	67	74	68	181	210	-33	-133	-188	-33	-133	-188	-33	-133	-188	-33	-133	-188	-33	-133	-188	-33	-133	-188	-33	-133	-188
% Difference	4.0%	4.7%	3.8%	13.5%	14.6%	12.0%	-7.0%	-12.0%	-12.1%	-7.0%	-12.0%	-12.1%	-7.0%	-12.0%	-12.1%	-7.0%	-12.0%	-12.1%	-7.0%	-12.0%	-12.1%	-7.0%	-12.0%	-12.1%	-7.0%	-12.0%	-12.1%

Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 1				Comparison with Scenario 4															
Difference	134	286	392	134	286	392	113	238	337	113	238	337	112	228	324	112	228	324	112	228	324	112	228	324	112	228	324
% Difference	13.4%	28.6%	39.2%	13.4%	28.6%	39.2%	11.3%	23.8%	33.7%	11.3%	23.8%	33.7%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%

Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 1				Comparison with Scenario 4															
Difference	134	286	392	134	286	392	113	238	337	113	238	337	112	228	324	112	228	324	112	228	324	112	228	324	112	228	324
% Difference	13.4%	28.6%	39.2%	13.4%	28.6%	39.2%	11.3%	23.8%	33.7%	11.3%	23.8%	33.7%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%

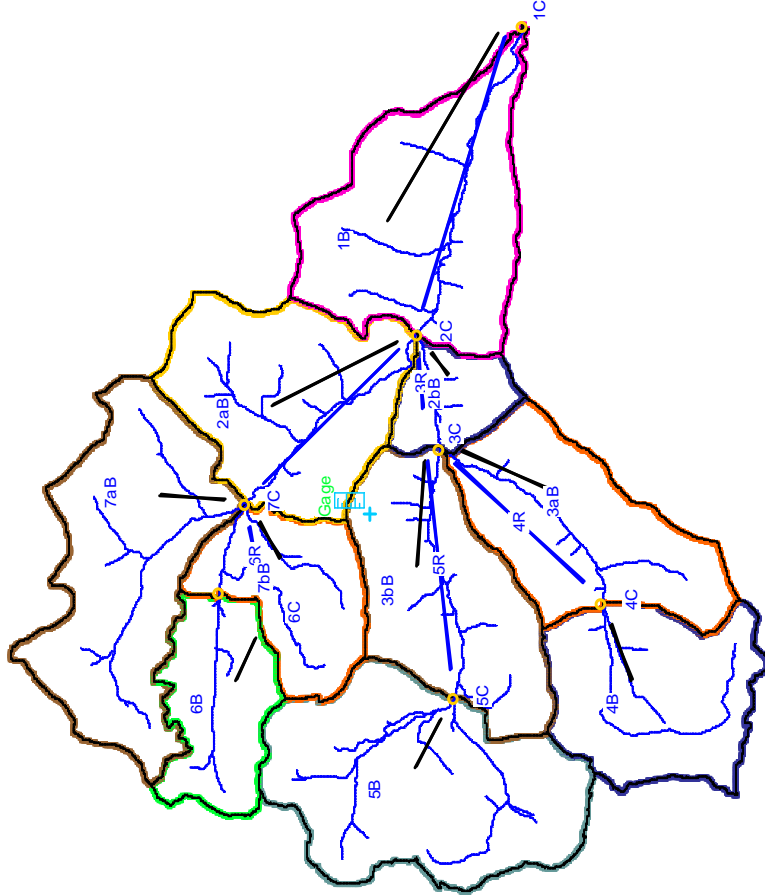
Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 1				Comparison with Scenario 4															
Difference	134	286	392	134	286	392	113	238	337	113	238	337	112	228	324	112	228	324	112	228	324	112	228	324	112	228	324
% Difference	13.4%	28.6%	39.2%	13.4%	28.6%	39.2%	11.3%	23.8%	33.7%	11.3%	23.8%	33.7%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%

Comparison with Scenario 3				Comparison with Scenario 3				Comparison with Scenario 1				Comparison with Scenario 4															
Difference	134	286	392	134	286	392	113	238	337	113	238	337	112	228	324	112	228	324	112	228	324	112	228	324	112	228	324
% Difference	13.4%	28.6%	39.2%	13.4%	28.6%	39.2%	11.3%	23.8%	33.7%	11.3%	23.8%	33.7%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%	11.2%	22.8%	32.4%

Scrabble Creek Hydrology Analysis

<b>Scrabble Creek Watershed Hydrology Analysis</b>	<b>Scenario 1</b> With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	<b>Scenario 2</b> Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	<b>Scenario 3</b> Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	<b>Scenario 4</b> Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (10m DEM Data)	<b>Scenario 5</b> With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (10m DEM Data)
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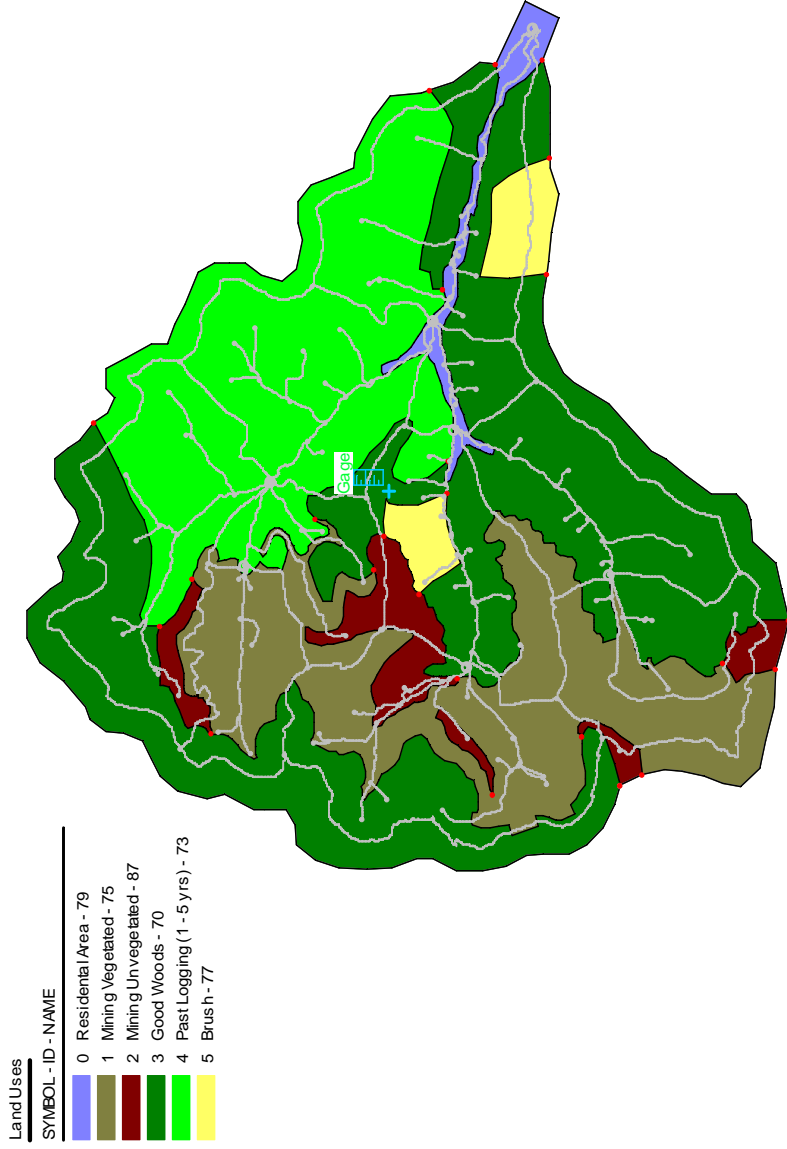
Watershed Delineation and Basin / Outlet / Routing Naming



Scrabble Creek Hydrology Analysis

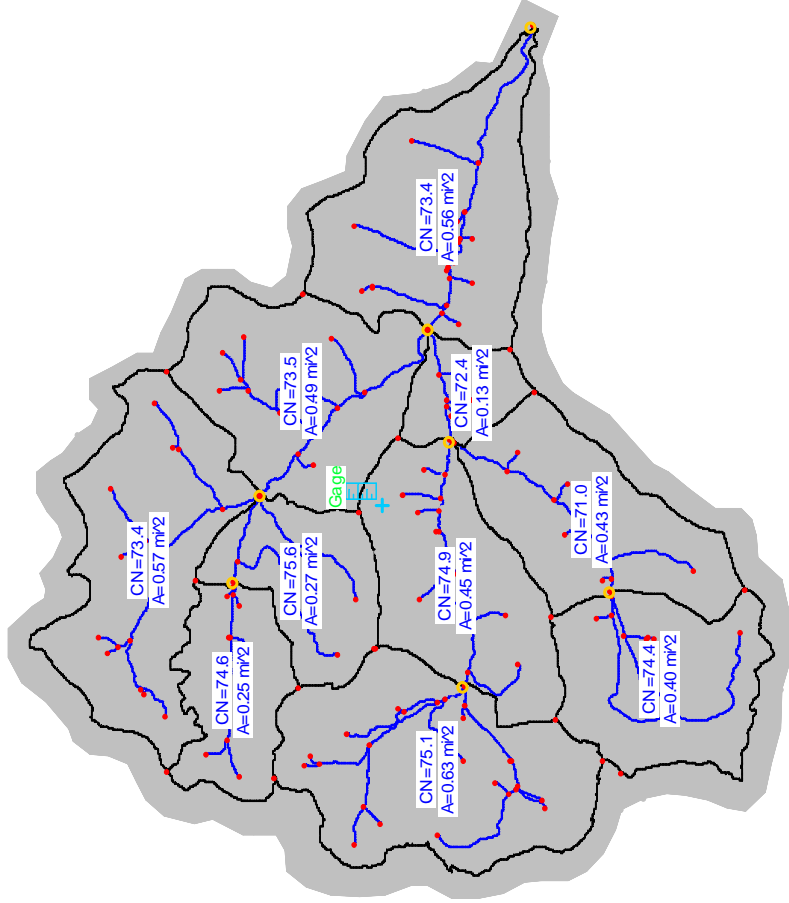
Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
<b>Scrabble Creek Watershed Hydrology Analysis</b> With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (10m DEM Data)	With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (10m DEM Data)

Scenario 1 Land Use



<b>Scrabble Creek Watershed Hydrology Analysis</b>	<b>Scenario 1</b>	<b>Scenario 2</b>	<b>Scenario 3</b>	<b>Scenario 4</b>	<b>Scenario 5</b>
	With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (10m DEM Data)	With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (10m DEM Data)

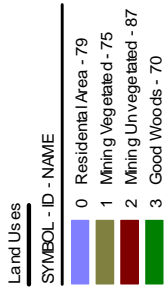
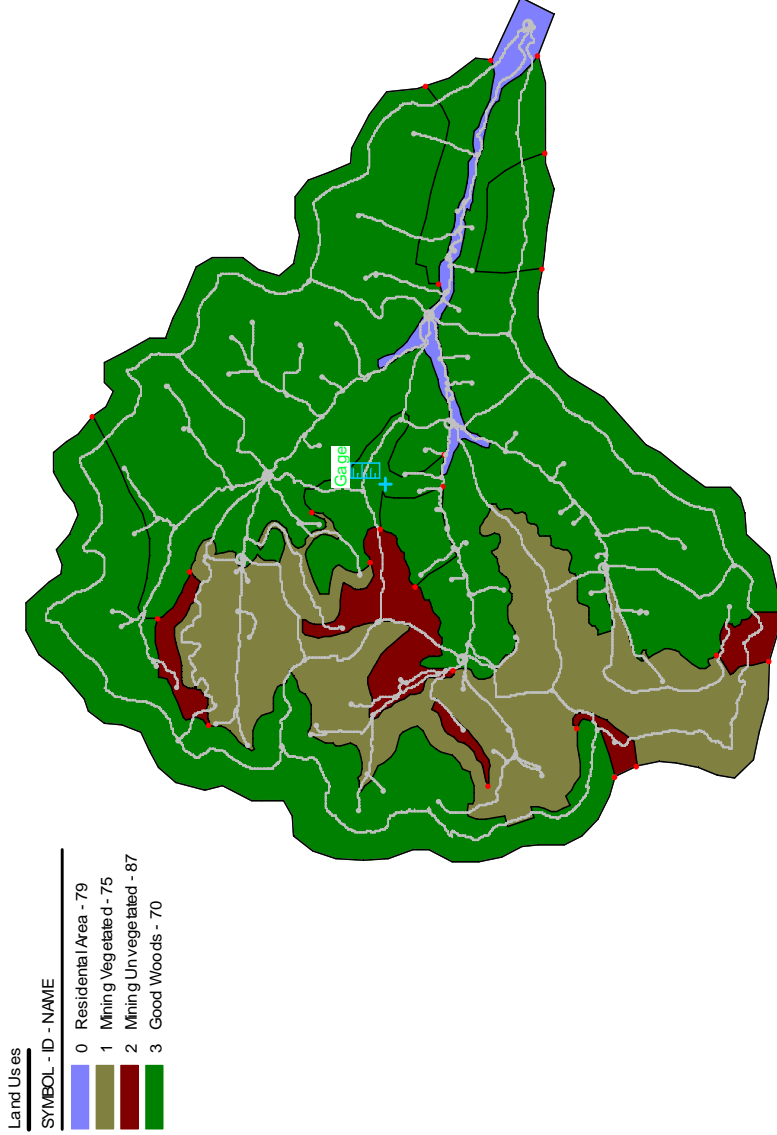
Scenario 1 Watershed Boundaries and Composite CN and Computed Areas



Scrabble Creek Hydrology Analysis

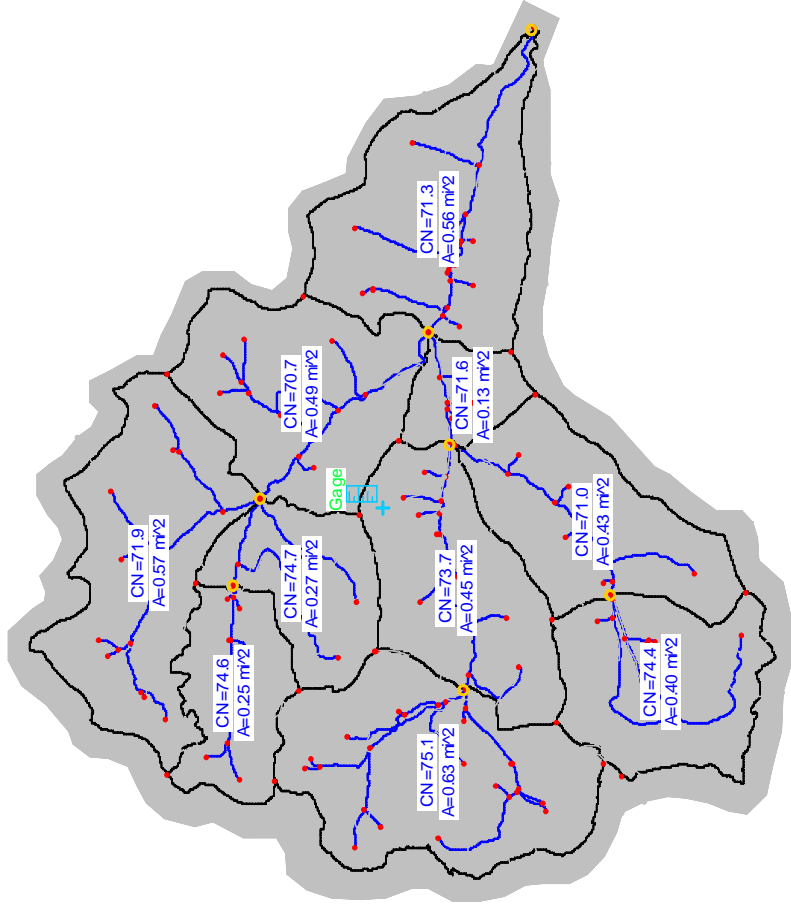
Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
<b>Scrabble Creek Watershed Hydrology Analysis</b> With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (10m DEM Data)	With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (10m DEM Data)

Scenario 2 Land Use



Scenario 1 With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 2 Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 3 Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Scenario 4 Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (10m DEM Data)	Scenario 5 With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (10m DEM Data)
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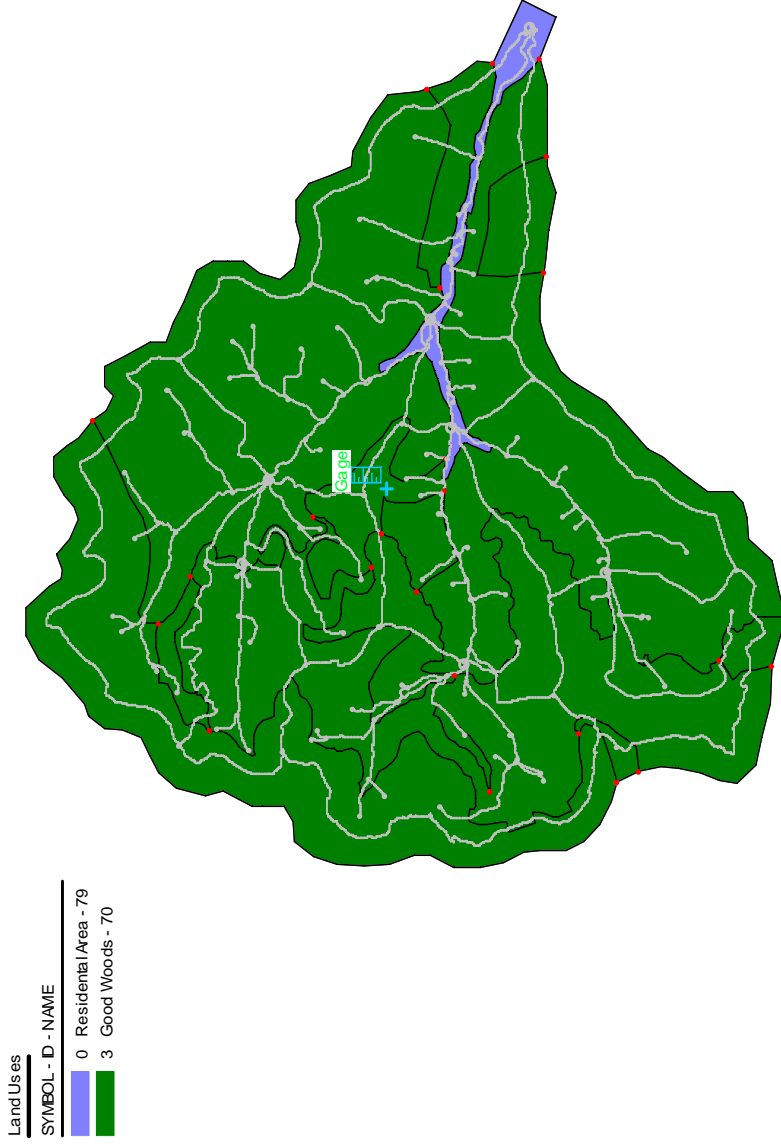
Scenario 2 Watershed Boundaries and Composite CN and Computed Areas



Scrabble Creek Hydrology Analysis

Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
<b>Scrabble Creek Watershed Hydrology Analysis</b> With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (10m DEM Data)	With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (10m DEM Data)

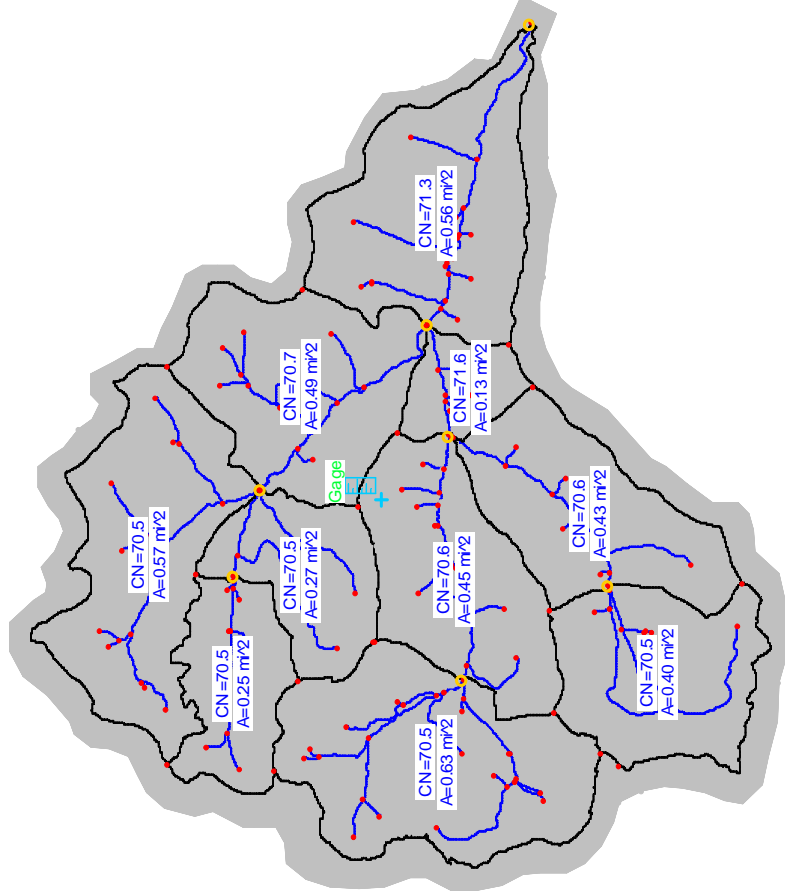
Scenario 3 Land Use



Scrabble Creek Hydrology Analysis

Scrabble Creek Watershed Hydrology Analysis	<b>Scenario 1</b> With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	<b>Scenario 2</b> Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	<b>Scenario 3</b> Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	<b>Scenario 4</b> Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (10m DEM Data)	<b>Scenario 5</b> With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (10m DEM Data)
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Scenario 3 Watershed Boundaries and Composite CN and Computed Areas

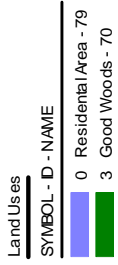
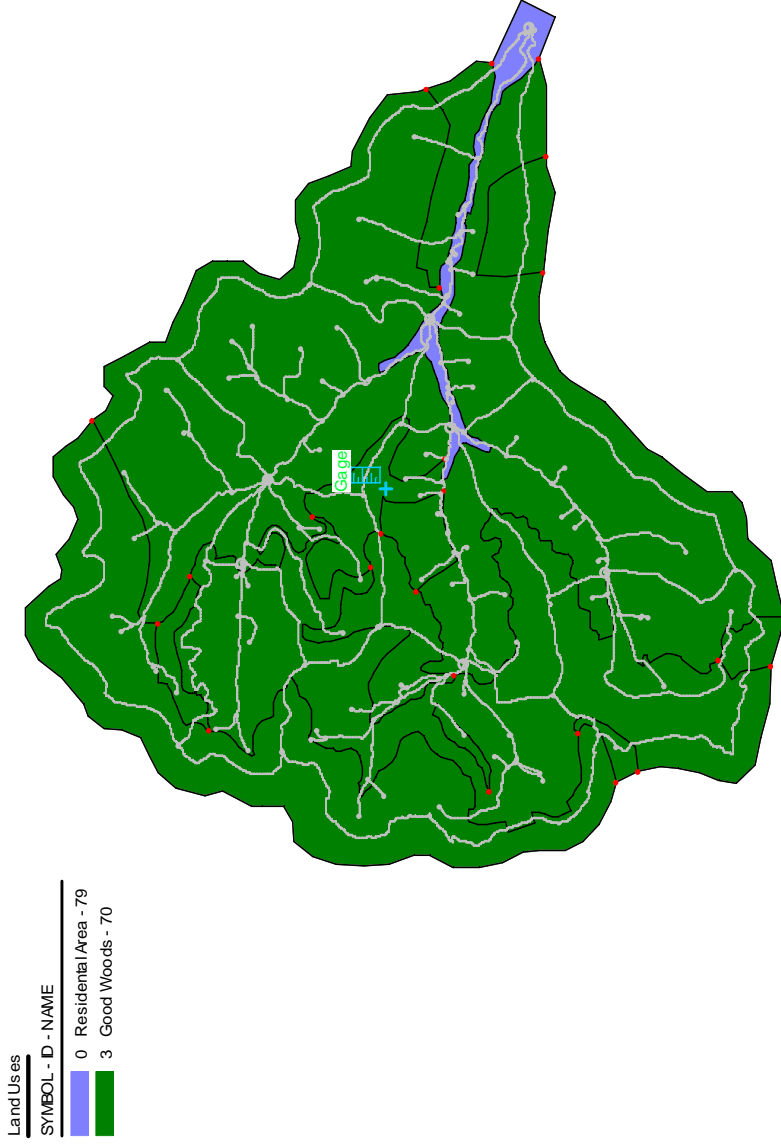




Scrabble Creek Hydrology Analysis

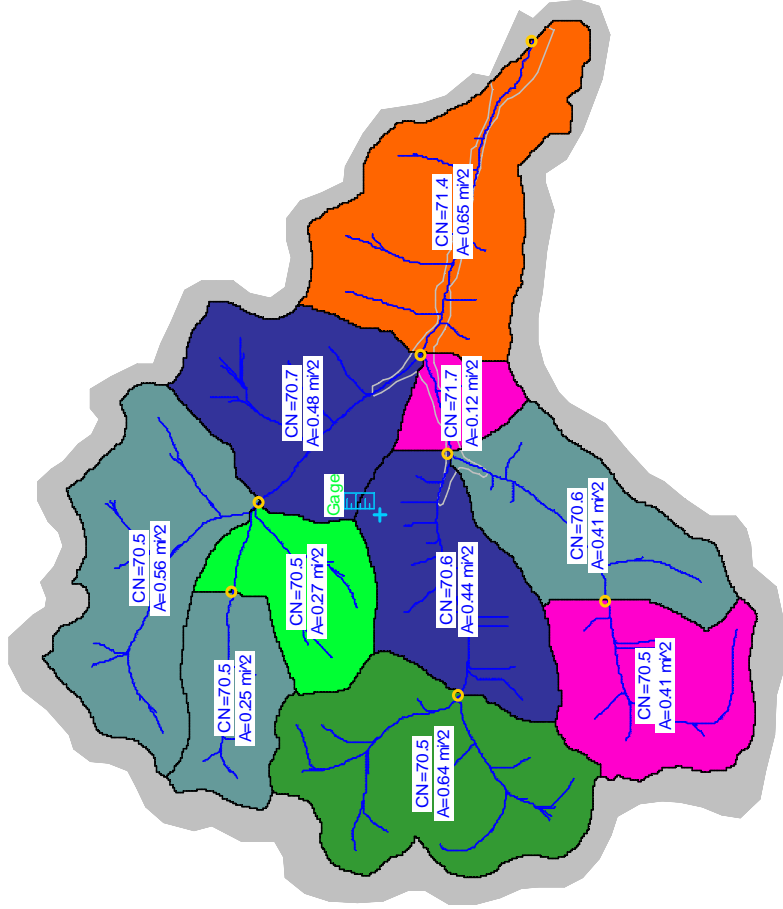
Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
<b>Scrabble Creek Watershed Hydrology Analysis</b> With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (10m DEM Data)	With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (10m DEM Data)

Scenario 4 Land Use



Scrabble Creek Watershed Hydrology Analysis	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
	With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (10m DEM Data)	With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (10m DEM Data)

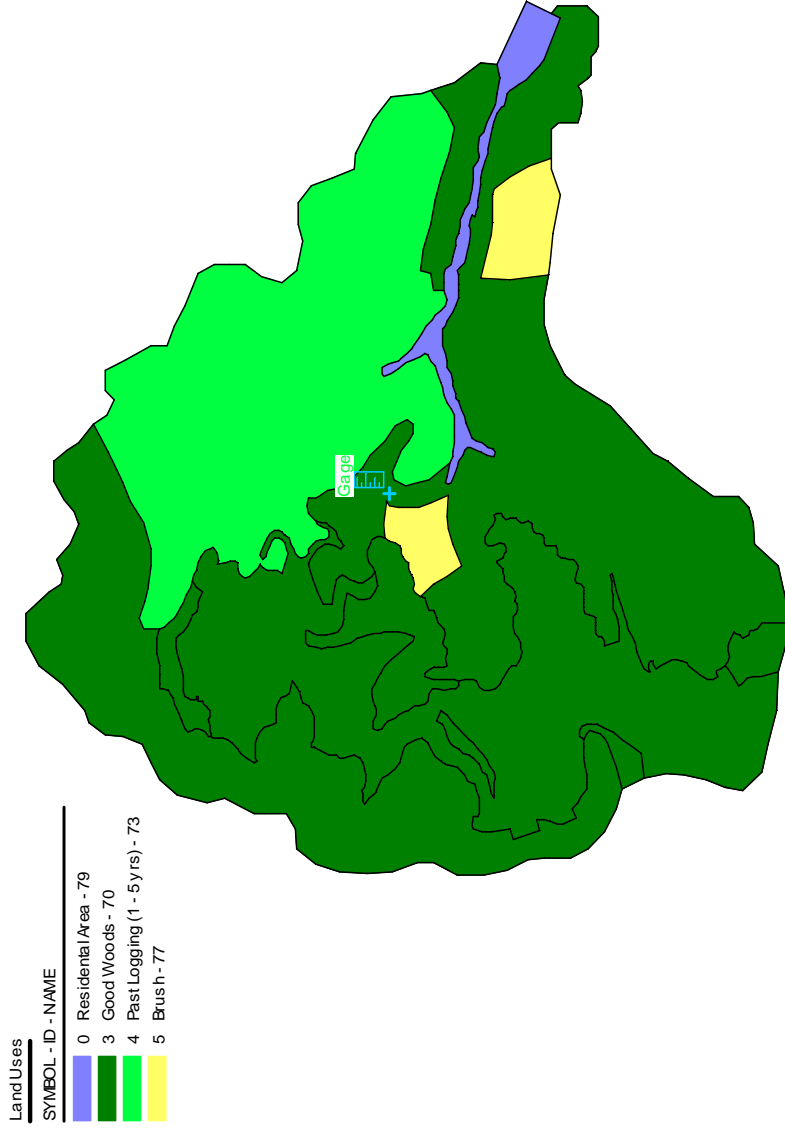
Scenario 4 Watershed Boundaries and Composite CN and Computed Areas



Scrabble Creek Hydrology Analysis

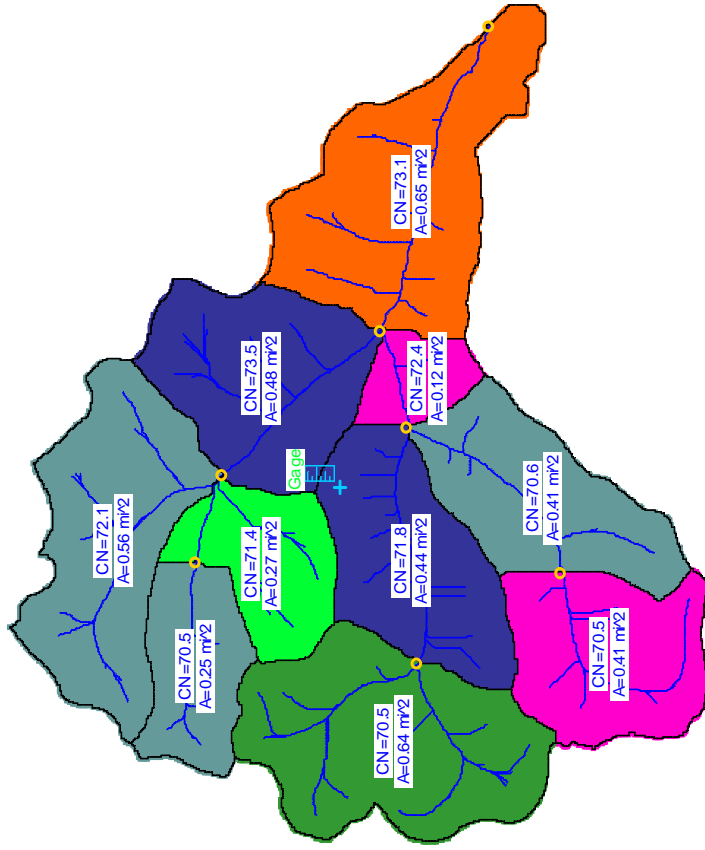
Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
<b>Scrabble Creek Watershed Hydrology Analysis</b> With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (10m DEM Data)	With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (10m DEM Data)

Scenario 5 Land Use

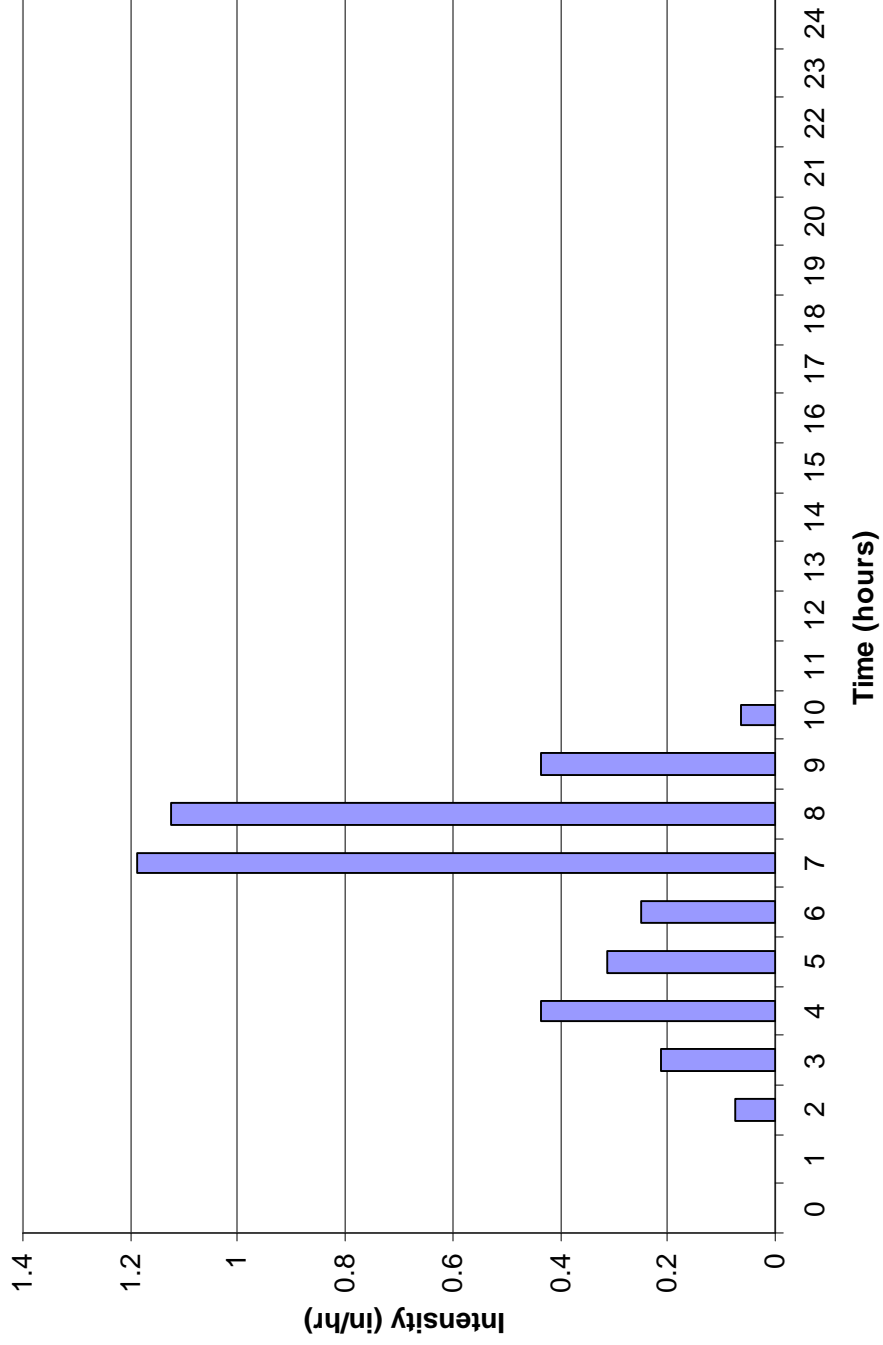


Scrabble Creek Watershed Hydrology Analysis	Scenario 1 With Logging (CN 70 & 73) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 2 Without Logging (CN 70) With Mining (CN 75 & 87) Topography w Mining (LIDAR Data)	Scenario 3 Without Logging (CN 70) With Reclaimed Mining (CN 70) Topography w Mining (LIDAR Data)	Scenario 4 Without Logging (CN 70) Without Mining (CN 70) Pristine Topography (10m DEM Data)	Scenario 5 With Logging (CN 70 & 73) Without Mining (CN 70) Pristine Topography (10m DEM Data)
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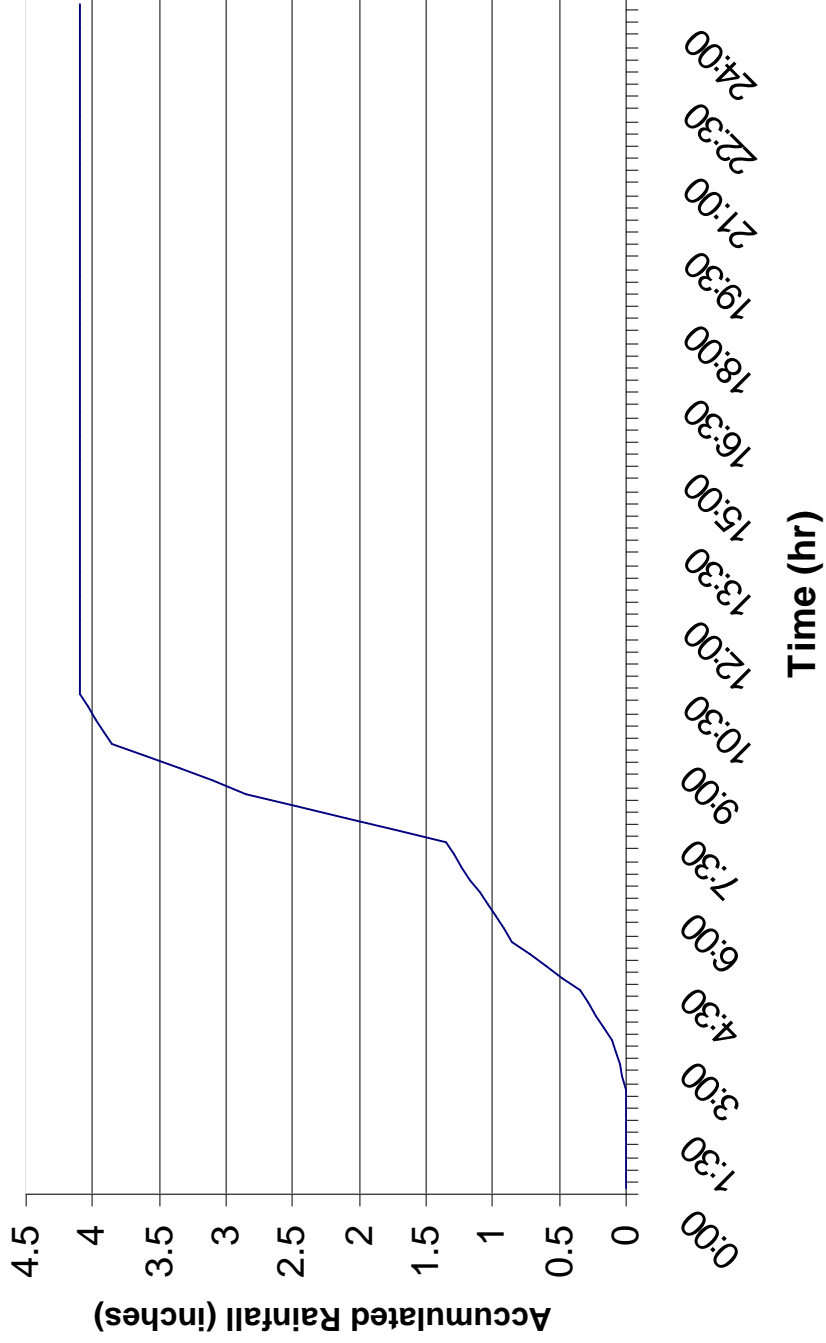
Scenario 5 Watershed Boundaries and Composite CN and Computed Areas



### July 8, 2001 Storm Event in Scrabble Creek



# July 8, 2001 Storm Event for Scrabble Creek



ID Scrabble Creek  
ID w Mining & w Logging (Scenario 1), LIDAR Data  
ID Storm Event

\*DIAGRAM

IT 15 1JAN94 0 100  
IO 1

\* Gage XY Position 480389.00000 4224905.00000 1

PG Gage 4.1  
IN 15 1JAN94 0

\* Scrabble Rainfall Distribution

PC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025
PC	0.05	0.075	0.1	0.1625	0.225	0.2875	0.35	0.475	0.6	0.725
PC	0.85	0.9125	0.975	1.0375	1.1	1.1625	1.225	1.2875	1.35	1.725
PC	2.1	2.475	2.85	3.1	3.35	3.6	3.85	3.9125	3.975	4.0375
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

KK 4B  
KO 0 0 0.0 1 22

BAO.4012

PR Gage

PW 1.0

PT Gage

PW 0.254

LS 0.0 74.37 0.0

UD0.2578

KK 4R CNAME 4C

KO 0 0 0.0 0 22

RM 1 0.097 0.2

KK 5B

KO 0 0 0.0 1 22

BAO.6299

PR Gage

PW 1.0

PT Gage

PW 0.254

LS 0.0 75.11 0.0

UD0.2197

KK 5R CNAME 5C

KO 0 0 0.0 0 22

RM 1 0.102 0.2

KK 3aB

KO 0 0 0.0 1 22

BAO.4252

PR Gage

PW 1.0

PT Gage

PW 0.254

LS 0.0 70.96 0.0

UD0.2104

KK 3bB

KO 0 0 0.0 1 22

BAO.4467

PR Gage

PW 1.0

PT Gage

PW 0.254

LS 0.0 74.89 0.0

UD0.2331

KK 3C CNAME 3R

KO 0 0 0.0 0 22

HC 4

KK 3R CNAME 3C

KO 0 0 0.0 0 22

RM 2 0.045 0.2

KK 6B

KO 0 0 0.0 1 22

BAO.2511

PR Gage

PW 1.0

PT Gage

Event.hcl

PW	0.254				
LS	0.0	74.58	0.0		
UD	0.2017				
KK	6R	CNAME	6C		
KO	0	0	0.0	0	22
RM	1	0.037	0.2		
KK	7bB				
KO	0	0	0.0	1	22
BA	0.2705				
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.254				
LS	0.0	75.55	0.0		
UD	0.0				
KK	7aB				
KO	0	0	0.0	1	22
BA	0.5681				
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.254				
LS	0.0	73.44	0.0		
UD	0.0				
KK	7C	CNAME	7R		
KO	0	0	0.0	0	22
HC	3				
KK	7R	CNAME	7C		
KO	0	0	0.0	0	22
RM	1	0.105	0.2		
KK	2bB				
KO	0	0	0.0	1	22
BA	0.1252				
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.254				
LS	0.0	72.37	0.0		
UD	0.0				
KK	2aB				
KO	0	0	0.0	1	22
BA	0.49				
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.254				
LS	0.0	73.52	0.0		
UD	0.0				
KK	2C	CNAME	2R		
KO	0	0	0.0	0	22
HC	4				
KK	2R	CNAME	2C		
KO	0	0	0.0	0	22
RM	1	0.138	0.2		
KK	1B				
KO	0	0	0.0	1	22
BA	0.5606				
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.254				
LS	0.0	73.35	0.0		
UD	0.0				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
HC	2				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
RN	1C				
ZZ					



ID Scrabble Creek  
ID w Mining & w Logging (Scenario 1), LIDAR Data  
ID 25 yr Storm

\*DIAGRAM

IT 15 1JAN94 0 100  
IO 1  
KK 4B  
KO 0 0 0.0 1 22  
BAO.4012

PB 4.75  
IN 6 1JAN94 0

\* typeII-24hour

PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989

PC 1.0  
LS 0.0 74.37 0.0  
UD0.2578  
KK 4R CNAME 4C  
KO 0 0 0.0 0 22  
RM 1 0.097 0.2  
KK 5B  
KO 0 0 0.0 1 22  
BAO.6299  
PB 4.75

IN 6 1JAN94 0

\* typeII-24hour

PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989

PC 1.0  
LS 0.0 75.11 0.0

```

UD0.2197
KK 5R CNAME 5C
KO 0 0 0.0 0 22
RM 1 0.102 0.2
KK 3aB
KO 0 0 0.0 1 22
BA0.4252
PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.96 0.0
UD0.2104
KK 3bB
KO 0 0 0.0 1 22
BA0.4467
PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 74.89 0.0
UD0.2331
KK 3C CNAME 3R
KO 0 0 0.0 0 22
HC 4
KK 3R CNAME 3C

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KO      0      0      0.0      0      22
RM      2      0.045    0.2
KK      6B
KO      0      0      0.0      1      22
BA0.2511
PB      4.75
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001    0.002    0.0031    0.0041    0.0051    0.0062    0.0073    0.0083    0.0094
PC0.0105    0.0116    0.0127    0.0138    0.015    0.0161    0.0173    0.0185    0.0196    0.0208
PC 0.022    0.0232    0.0244    0.0256    0.0269    0.0281    0.0294    0.0307    0.0319    0.0332
PC0.0345    0.0358    0.0371    0.0384    0.0398    0.0411    0.0425    0.0439    0.0452    0.0466
PC 0.048    0.0494    0.0508    0.0523    0.0538    0.0553    0.0568    0.0583    0.0598    0.0614
PC 0.063    0.0646    0.0662    0.0679    0.0696    0.0712    0.073    0.0747    0.0764    0.0782
PC 0.08    0.0818    0.0836    0.0855    0.0874    0.0892    0.0912    0.0931    0.095    0.097
PC 0.099    0.101    0.103    0.1051    0.1072    0.1093    0.1114    0.1135    0.1156    0.1178
PC 0.12    0.1223    0.1246    0.1271    0.1296    0.1323    0.135    0.1379    0.1408    0.1439
PC 0.147    0.1502    0.1534    0.1566    0.1598    0.163    0.1663    0.1697    0.1733    0.1771
PC 0.181    0.1851    0.1895    0.1941    0.1989    0.204    0.2094    0.2152    0.2214    0.228
PC 0.235    0.2427    0.2513    0.2609    0.2715    0.283    0.3068    0.3544    0.4308    0.5679
PC 0.663    0.682    0.6986    0.713    0.7252    0.735    0.7434    0.7514    0.7588    0.7656
PC 0.772    0.778    0.7836    0.789    0.7942    0.799    0.8036    0.808    0.8122    0.8162
PC 0.82    0.8237    0.8273    0.8308    0.8342    0.8376    0.8409    0.8442    0.8474    0.8505
PC0.8535    0.8565    0.8594    0.8622    0.8649    0.8676    0.8702    0.8728    0.8753    0.8777
PC 0.88    0.8823    0.8845    0.8868    0.889    0.8912    0.8933    0.8955    0.8976    0.8997
PC0.9018    0.9038    0.9058    0.9078    0.9097    0.9117    0.9136    0.9155    0.9174    0.9192
PC 0.921    0.9228    0.9245    0.9263    0.928    0.9297    0.9314    0.933    0.9346    0.9362
PC0.9377    0.9393    0.9408    0.9423    0.9437    0.9452    0.9466    0.948    0.9494    0.9507
PC 0.952    0.9533    0.9546    0.9559    0.9572    0.9584    0.9597    0.961    0.9622    0.9635
PC0.9648    0.966    0.9672    0.9685    0.9697    0.9709    0.9722    0.9734    0.9746    0.9758
PC 0.977    0.9782    0.9794    0.9806    0.9818    0.9829    0.9841    0.9853    0.9864    0.9876
PC0.9888    0.9899    0.991    0.9922    0.9933    0.9944    0.9956    0.9967    0.9978    0.9989
PC      1.0
LS      0.0      74.58    0.0
UD0.2017
KK      6R      CNAME      6C
KO      0      0      0.0      0      22
RM      1      0.037    0.2
KK      7bB
KO      0      0      0.0      1      22
BA0.2705
PB      4.75
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001    0.002    0.0031    0.0041    0.0051    0.0062    0.0073    0.0083    0.0094
PC0.0105    0.0116    0.0127    0.0138    0.015    0.0161    0.0173    0.0185    0.0196    0.0208
PC 0.022    0.0232    0.0244    0.0256    0.0269    0.0281    0.0294    0.0307    0.0319    0.0332
PC0.0345    0.0358    0.0371    0.0384    0.0398    0.0411    0.0425    0.0439    0.0452    0.0466
PC 0.048    0.0494    0.0508    0.0523    0.0538    0.0553    0.0568    0.0583    0.0598    0.0614
PC 0.063    0.0646    0.0662    0.0679    0.0696    0.0712    0.073    0.0747    0.0764    0.0782
PC 0.08    0.0818    0.0836    0.0855    0.0874    0.0892    0.0912    0.0931    0.095    0.097
PC 0.099    0.101    0.103    0.1051    0.1072    0.1093    0.1114    0.1135    0.1156    0.1178
PC 0.12    0.1223    0.1246    0.1271    0.1296    0.1323    0.135    0.1379    0.1408    0.1439
PC 0.147    0.1502    0.1534    0.1566    0.1598    0.163    0.1663    0.1697    0.1733    0.1771
PC 0.181    0.1851    0.1895    0.1941    0.1989    0.204    0.2094    0.2152    0.2214    0.228
PC 0.235    0.2427    0.2513    0.2609    0.2715    0.283    0.3068    0.3544    0.4308    0.5679
PC 0.663    0.682    0.6986    0.713    0.7252    0.735    0.7434    0.7514    0.7588    0.7656
PC 0.772    0.778    0.7836    0.789    0.7942    0.799    0.8036    0.808    0.8122    0.8162
PC 0.82    0.8237    0.8273    0.8308    0.8342    0.8376    0.8409    0.8442    0.8474    0.8505
PC0.8535    0.8565    0.8594    0.8622    0.8649    0.8676    0.8702    0.8728    0.8753    0.8777
PC 0.88    0.8823    0.8845    0.8868    0.889    0.8912    0.8933    0.8955    0.8976    0.8997
PC0.9018    0.9038    0.9058    0.9078    0.9097    0.9117    0.9136    0.9155    0.9174    0.9192
PC 0.921    0.9228    0.9245    0.9263    0.928    0.9297    0.9314    0.933    0.9346    0.9362
PC0.9377    0.9393    0.9408    0.9423    0.9437    0.9452    0.9466    0.948    0.9494    0.9507
PC 0.952    0.9533    0.9546    0.9559    0.9572    0.9584    0.9597    0.961    0.9622    0.9635
PC0.9648    0.966    0.9672    0.9685    0.9697    0.9709    0.9722    0.9734    0.9746    0.9758
PC 0.977    0.9782    0.9794    0.9806    0.9818    0.9829    0.9841    0.9853    0.9864    0.9876
PC0.9888    0.9899    0.991    0.9922    0.9933    0.9944    0.9956    0.9967    0.9978    0.9989
PC      1.0
LS      0.0      75.55    0.0
UD      0.0
KK      7aB
KO      0      0      0.0      1      22
BA0.5681

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PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 73.44 0.0
UD 0.0
KK 7C CNAME 7R
KO 0 0 0.0 0 22
HC 3
KK 7R CNAME 7C
KO 0 0 0.0 0 22
RM 1 0.105 0.2
KK 2bB
KO 0 0 0.0 1 22
BA0.1252
PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 72.37 0.0
UD 0.0
KK 2aB
KO 0 0 0.0 1 22
BA 0.49
PB 4.75
IN 6 1JAN94 0

```

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 73.52 0.0

UD 0.0

KK 2C CNAME 2R

KO 0 0 0.0 0 22

HC 4

KK 2R CNAME 2C

KO 0 0 0.0 0 22

RM 1 0.138 0.2

KK 1B

KO 0 0 0.0 1 22

BA0.5606

PB 4.75

IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 73.35 0.0

UD 0.0

KK 1C CNAME 1C

KO 0 0 0.0 0 22

HC 2

KK 1C CNAME 1C

KO 0 0 0.0 0 22

RN 1C

ZZ

ID Scrabble Creek  
ID w Mining & w Logging (Scenario 1), LIDAR Data  
ID 100 yr Storm

\*DIAGRAM

IT 15 1JAN94 0 100  
IO 1  
KK 4B  
KO 0 0 0.0 1 22  
BAO.4012  
PB 5.7  
IN 6 1JAN94 0

\* typeII-24hour

PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989

PC 1.0  
LS 0.0 74.37 0.0  
UDO.2578  
KK 4R CNAME 4C  
KO 0 0 0.0 0 22  
RM 1 0.097 0.2  
KK 5B  
KO 0 0 0.0 1 22

BAO.6299

PB 5.7  
IN 6 1JAN94 0

\* typeII-24hour

PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989

PC 1.0  
LS 0.0 75.11 0.0

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UD0.2197
KK 5R CNAME 5C
KO 0 0 0.0 0 22
RM 1 0.102 0.2
KK 3aB
KO 0 0 0.0 1 22
BA0.4252
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.96 0.0
UD0.2104
KK 3bB
KO 0 0 0.0 1 22
BA0.4467
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 74.89 0.0
UD0.2331
KK 3C CNAME 3R
KO 0 0 0.0 0 22
HC 4
KK 3R CNAME 3C

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KO      0      0      0.0      0      22
RM      2      0.045    0.2
KK      6B
KO      0      0      0.0      1      22
BA0.2511
PB      5.7
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001    0.002    0.0031    0.0041    0.0051    0.0062    0.0073    0.0083    0.0094
PC0.0105    0.0116    0.0127    0.0138    0.015    0.0161    0.0173    0.0185    0.0196    0.0208
PC 0.022    0.0232    0.0244    0.0256    0.0269    0.0281    0.0294    0.0307    0.0319    0.0332
PC0.0345    0.0358    0.0371    0.0384    0.0398    0.0411    0.0425    0.0439    0.0452    0.0466
PC 0.048    0.0494    0.0508    0.0523    0.0538    0.0553    0.0568    0.0583    0.0598    0.0614
PC 0.063    0.0646    0.0662    0.0679    0.0696    0.0712    0.073    0.0747    0.0764    0.0782
PC 0.08    0.0818    0.0836    0.0855    0.0874    0.0892    0.0912    0.0931    0.095    0.097
PC 0.099    0.101    0.103    0.1051    0.1072    0.1093    0.1114    0.1135    0.1156    0.1178
PC 0.12    0.1223    0.1246    0.1271    0.1296    0.1323    0.135    0.1379    0.1408    0.1439
PC 0.147    0.1502    0.1534    0.1566    0.1598    0.163    0.1663    0.1697    0.1733    0.1771
PC 0.181    0.1851    0.1895    0.1941    0.1989    0.204    0.2094    0.2152    0.2214    0.228
PC 0.235    0.2427    0.2513    0.2609    0.2715    0.283    0.3068    0.3544    0.4308    0.5679
PC 0.663    0.682    0.6986    0.713    0.7252    0.735    0.7434    0.7514    0.7588    0.7656
PC 0.772    0.778    0.7836    0.789    0.7942    0.799    0.8036    0.808    0.8122    0.8162
PC 0.82    0.8237    0.8273    0.8308    0.8342    0.8376    0.8409    0.8442    0.8474    0.8505
PC0.8535    0.8565    0.8594    0.8622    0.8649    0.8676    0.8702    0.8728    0.8753    0.8777
PC 0.88    0.8823    0.8845    0.8868    0.889    0.8912    0.8933    0.8955    0.8976    0.8997
PC0.9018    0.9038    0.9058    0.9078    0.9097    0.9117    0.9136    0.9155    0.9174    0.9192
PC 0.921    0.9228    0.9245    0.9263    0.928    0.9297    0.9314    0.933    0.9346    0.9362
PC0.9377    0.9393    0.9408    0.9423    0.9437    0.9452    0.9466    0.948    0.9494    0.9507
PC 0.952    0.9533    0.9546    0.9559    0.9572    0.9584    0.9597    0.961    0.9622    0.9635
PC0.9648    0.966    0.9672    0.9685    0.9697    0.9709    0.9722    0.9734    0.9746    0.9758
PC 0.977    0.9782    0.9794    0.9806    0.9818    0.9829    0.9841    0.9853    0.9864    0.9876
PC0.9888    0.9899    0.991    0.9922    0.9933    0.9944    0.9956    0.9967    0.9978    0.9989
PC      1.0
LS      0.0      74.58    0.0
UD0.2017
KK      6R      CNAME      6C
KO      0      0      0.0      0      22
RM      1      0.037    0.2
KK      7bB
KO      0      0      0.0      1      22
BA0.2705
PB      5.7
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001    0.002    0.0031    0.0041    0.0051    0.0062    0.0073    0.0083    0.0094
PC0.0105    0.0116    0.0127    0.0138    0.015    0.0161    0.0173    0.0185    0.0196    0.0208
PC 0.022    0.0232    0.0244    0.0256    0.0269    0.0281    0.0294    0.0307    0.0319    0.0332
PC0.0345    0.0358    0.0371    0.0384    0.0398    0.0411    0.0425    0.0439    0.0452    0.0466
PC 0.048    0.0494    0.0508    0.0523    0.0538    0.0553    0.0568    0.0583    0.0598    0.0614
PC 0.063    0.0646    0.0662    0.0679    0.0696    0.0712    0.073    0.0747    0.0764    0.0782
PC 0.08    0.0818    0.0836    0.0855    0.0874    0.0892    0.0912    0.0931    0.095    0.097
PC 0.099    0.101    0.103    0.1051    0.1072    0.1093    0.1114    0.1135    0.1156    0.1178
PC 0.12    0.1223    0.1246    0.1271    0.1296    0.1323    0.135    0.1379    0.1408    0.1439
PC 0.147    0.1502    0.1534    0.1566    0.1598    0.163    0.1663    0.1697    0.1733    0.1771
PC 0.181    0.1851    0.1895    0.1941    0.1989    0.204    0.2094    0.2152    0.2214    0.228
PC 0.235    0.2427    0.2513    0.2609    0.2715    0.283    0.3068    0.3544    0.4308    0.5679
PC 0.663    0.682    0.6986    0.713    0.7252    0.735    0.7434    0.7514    0.7588    0.7656
PC 0.772    0.778    0.7836    0.789    0.7942    0.799    0.8036    0.808    0.8122    0.8162
PC 0.82    0.8237    0.8273    0.8308    0.8342    0.8376    0.8409    0.8442    0.8474    0.8505
PC0.8535    0.8565    0.8594    0.8622    0.8649    0.8676    0.8702    0.8728    0.8753    0.8777
PC 0.88    0.8823    0.8845    0.8868    0.889    0.8912    0.8933    0.8955    0.8976    0.8997
PC0.9018    0.9038    0.9058    0.9078    0.9097    0.9117    0.9136    0.9155    0.9174    0.9192
PC 0.921    0.9228    0.9245    0.9263    0.928    0.9297    0.9314    0.933    0.9346    0.9362
PC0.9377    0.9393    0.9408    0.9423    0.9437    0.9452    0.9466    0.948    0.9494    0.9507
PC 0.952    0.9533    0.9546    0.9559    0.9572    0.9584    0.9597    0.961    0.9622    0.9635
PC0.9648    0.966    0.9672    0.9685    0.9697    0.9709    0.9722    0.9734    0.9746    0.9758
PC 0.977    0.9782    0.9794    0.9806    0.9818    0.9829    0.9841    0.9853    0.9864    0.9876
PC0.9888    0.9899    0.991    0.9922    0.9933    0.9944    0.9956    0.9967    0.9978    0.9989
PC      1.0
LS      0.0      75.55    0.0
UD      0.0
KK      7aB
KO      0      0      0.0      1      22
BA0.5681

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PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 73.44 0.0
UD 0.0
KK 7C CNAME 7R
KO 0 0 0.0 0 22
HC 3
KK 7R CNAME 7C
KO 0 0 0.0 0 22
RM 1 0.105 0.2
KK 2bB
KO 0 0 0.0 1 22
BA0.1252
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 72.37 0.0
UD 0.0
KK 2aB
KO 0 0 0.0 1 22
BA 0.49
PB 5.7
IN 6 1JAN94 0

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\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 73.52 0.0

UD 0.0

KK 2C CNAME 2R

KO 0 0 0.0 0 22

HC 4

KK 2R CNAME 2C

KO 0 0 0.0 0 22

RM 1 0.138 0.2

KK 1B

KO 0 0 0.0 1 22

BA0.5606

PB 5.7

IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 73.35 0.0

UD 0.0

KK 1C CNAME 1C

KO 0 0 0.0 0 22

HC 2

KK 1C CNAME 1C

KO 0 0 0.0 0 22

RN 1C

ZZ

ID Scrabble Creek  
 ID w Mining & wo Logging (Scenario 2), LIDAR Data  
 ID Storm Event

\*DIAGRAM

IT 15 1JAN94 0 100  
 IO 1

\* Gage XY Position 480389.00000 4224905.00000 1

PG Gage 4.1  
 IN 15 1JAN94 0

\* Scrabble Rainfall Distribution

PC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025
PC	0.05	0.075	0.1	0.1625	0.225	0.2875	0.35	0.475	0.6	0.725
PC	0.85	0.9125	0.975	1.0375	1.1	1.1625	1.225	1.2875	1.35	1.725
PC	2.1	2.475	2.85	3.1	3.35	3.6	3.85	3.9125	3.975	4.0375
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

KK 4B  
 KO 0 0 0.0 1 22

BA0.4012

PR Gage

PW 1.0

PT Gage

PW 0.254  
 LS 0.0 74.37 0.0

UD0.2578

KK 4R CNAME 4C  
 KO 0 0 0.0 0 22

RM 1 0.097 0.2

KK 5B  
 KO 0 0 0.0 1 22

BA0.6299

PR Gage

PW 1.0

PT Gage

PW 0.254  
 LS 0.0 75.11 0.0

UD0.2197

KK 5R CNAME 5C  
 KO 0 0 0.0 0 22

RM 1 0.102 0.2

KK 3aB  
 KO 0 0 0.0 1 22

BA0.4252

PR Gage

PW 1.0

PT Gage

PW 0.254  
 LS 0.0 70.96 0.0

UD0.2104

KK 3bB  
 KO 0 0 0.0 1 22

BA0.4467

PR Gage

PW 1.0

PT Gage

PW 0.254  
 LS 0.0 73.72 0.0

UD0.2331

KK 3C CNAME 3R  
 KO 0 0 0.0 0 22

HC 4

KK 3R CNAME 3C  
 KO 0 0 0.0 0 22

RM 2 0.045 0.2

KK 6B  
 KO 0 0 0.0 1 22

BA0.2511

PR Gage

PW 1.0

PT Gage

Event.hcl

PW 0.254					
LS 0.0	74.57	0.0			
UD0.2017					
KK 6R	CNAME	6C			
KO 0	0	0.0	0	22	
RM 1	0.037	0.2			
KK 7bB					
KO 0	0	0.0	1	22	
BA0.2705					
PR Gage					
PW 1.0					
PT Gage					
PW 0.254					
LS 0.0	74.67	0.0			
UD 0.0					
KK 7aB					
KO 0	0	0.0	1	22	
BA0.5681					
PR Gage					
PW 1.0					
PT Gage					
PW 0.254					
LS 0.0	71.89	0.0			
UD 0.0					
KK 7C	CNAME	7R			
KO 0	0	0.0	0	22	
HC 3					
KK 7R	CNAME	7C			
KO 0	0	0.0	0	22	
RM 1	0.105	0.2			
KK 2bB					
KO 0	0	0.0	1	22	
BA0.1252					
PR Gage					
PW 1.0					
PT Gage					
PW 0.254					
LS 0.0	71.61	0.0			
UD 0.0					
KK 2aB					
KO 0	0	0.0	1	22	
BA 0.49					
PR Gage					
PW 1.0					
PT Gage					
PW 0.254					
LS 0.0	70.68	0.0			
UD 0.0					
KK 2C	CNAME	2R			
KO 0	0	0.0	0	22	
HC 4					
KK 2R	CNAME	2C			
KO 0	0	0.0	0	22	
RM 1	0.138	0.2			
KK 1B					
KO 0	0	0.0	1	22	
BA0.5606					
PR Gage					
PW 1.0					
PT Gage					
PW 0.254					
LS 0.0	71.35	0.0			
UD 0.0					
KK 1C	CNAME	1C			
KO 0	0	0.0	0	22	
HC 2					
KK 1C	CNAME	1C			
KO 0	0	0.0	0	22	
RN 1C					
ZZ					

ID Scrabble Creek  
ID w Mining & wo Logging (Scenario 2), LIDAR Data  
ID 25 yr Storm

\*DIAGRAM

IT 15 1JAN94 0 100  
IO 1

\* Gage XY Position 480389.00000 4224905.00000 1

PG Gage 4.1  
IN 15 1JAN94 0

\* Scrabble Rainfall Distribution

PC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	
PC	0.05	0.075	0.1	0.1625	0.225	0.2875	0.35	0.475	0.6	0.725
PC	0.85	0.9125	0.975	1.0375	1.1	1.1625	1.225	1.2875	1.35	1.725
PC	2.1	2.475	2.85	3.1	3.35	3.6	3.85	3.9125	3.975	4.0375
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

KK 4B  
KO 0 0 0.0 1 22

BAO.4012

PB 4.75  
IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0  
LS 0.0 74.37 0.0

UDO.2578

KK 4R CNAME 4C  
KO 0 0 0.0 0 22

RM 1 0.097 0.2  
KK 5B

KO 0 0 0.0 1 22

BAO.6299

PB 4.75  
IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	

25yr.hcl

PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	75.11	0.0							
UDO.2197										
KK	5R	CNAME	5C							
KO	0	0	0.0	0	22					
RM	1	0.102	0.2							
KK	3aB									
KO	0	0	0.0	1	22					
BA0.4252										
PB	4.75									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.96	0.0							
UDO.2104										
KK	3bB									
KO	0	0	0.0	1	22					
BA0.4467										
PB	4.75									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997

## 25yr.hcl

PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC 1.0									
LS 0.0	73.72	0.0							
UD0.2331									
KK 3C	CNAME	3R							
KO 0	0	0.0	0	22					
HC 4									
KK 3R	CNAME	3C							
KO 0	0	0.0	0	22					
RM 2	0.045	0.2							
KK 6B									
KO 0	0	0.0	1	22					
BA0.2511									
PB 4.75									
IN 6	1JAN94	0							
* typeII-24hour									
PC 0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC 1.0									
LS 0.0	74.57	0.0							
UD0.2017									
KK 6R	CNAME	6C							
KO 0	0	0.0	0	22					
RM 1	0.037	0.2							
KK 7bB									
KO 0	0	0.0	1	22					
BA0.2705									
PB 4.75									
IN 6	1JAN94	0							
* typeII-24hour									
PC 0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777

## 25yr.hcl

PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	74.67	0.0							
UD	0.0									
KK	7aB									
KO	0	0	0.0	1	22					
BA0.5681										
PB	4.75									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	71.89	0.0							
UD	0.0									
KK	7C	CNAME	7R							
KO	0	0	0.0	0	22					
HC	3									
KK	7R	CNAME	7C							
KO	0	0	0.0	0	22					
RM	1	0.105	0.2							
KK	2bB									
KO	0	0	0.0	1	22					
BA0.1252										
PB	4.75									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	



25yr.hcl

PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	71.61	0.0							
UD	0.0									
KK	2aB									
KO	0	0	0.0	1	22					
BA	0.49									
PB	4.75									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.68	0.0							
UD	0.0									
KK	2C	CNAME	2R							
KO	0	0	0.0	0	22					
HC	4									
KK	2R	CNAME	2C							
KO	0	0	0.0	0	22					
RM	1	0.138	0.2							
KK	1B									
KO	0	0	0.0	1	22					
BA0.5606										
PB	4.75									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	

25yr.hc1										
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC	1.0									
LS	0.0	71.35	0.0							
UD	0.0									
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
HC	2									
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
RN	1C									
ZZ										

ID Scrabble Creek  
ID w Mining & wo Logging (Scenario 2), LIDAR Data  
ID 100 yr Storm

\*DIAGRAM

IT 15 1JAN94 0 100  
IO 1

\* Gage XY Position 480389.00000 4224905.00000 1

PG Gage 4.1  
IN 15 1JAN94 0

\* Scrabble Rainfall Distribution

PC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	
PC	0.05	0.075	0.1	0.1625	0.225	0.2875	0.35	0.475	0.6	0.725
PC	0.85	0.9125	0.975	1.0375	1.1	1.1625	1.225	1.2875	1.35	1.725
PC	2.1	2.475	2.85	3.1	3.35	3.6	3.85	3.9125	3.975	4.0375
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

KK 4B  
KO 0 0 0.0 1 22

BAO.4012

PB 5.7  
IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0  
LS 0.0 74.37 0.0

UD0.2578

KK 4R CNAME 4C  
KO 0 0 0.0 0 22

RM 1 0.097 0.2  
KK 5B

KO 0 0 0.0 1 22

BAO.6299

PB 5.7  
IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	

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PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	75.11	0.0							
UDO.2197										
KK	5R	CNAME	5C							
KO	0	0	0.0	0	22					
RM	1	0.102	0.2							
KK	3aB									
KO	0	0	0.0	1	22					
BA0.4252										
PB	5.7									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.96	0.0							
UDO.2104										
KK	3bB									
KO	0	0	0.0	1	22					
BA0.4467										
PB	5.7									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997

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PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC 1.0									
LS 0.0	73.72	0.0							
UD0.2331									
KK 3C	CNAME	3R							
KO 0	0	0.0	0	22					
HC 4									
KK 3R	CNAME	3C							
KO 0	0	0.0	0	22					
RM 2	0.045	0.2							
KK 6B									
KO 0	0	0.0	1	22					
BA0.2511									
PB 5.7									
IN 6	1JAN94	0							
* typeII-24hour									
PC 0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC 1.0									
LS 0.0	74.57	0.0							
UD0.2017									
KK 6R	CNAME	6C							
KO 0	0	0.0	0	22					
RM 1	0.037	0.2							
KK 7bB									
KO 0	0	0.0	1	22					
BA0.2705									
PB 5.7									
IN 6	1JAN94	0							
* typeII-24hour									
PC 0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777

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PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	74.67	0.0							
UD	0.0									
KK	7aB									
KO	0	0	0.0	1	22					
BA0.5681										
PB	5.7									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	71.89	0.0							
UD	0.0									
KK	7C	CNAME	7R							
KO	0	0	0.0	0	22					
HC	3									
KK	7R	CNAME	7C							
KO	0	0	0.0	0	22					
RM	1	0.105	0.2							
KK	2bB									
KO	0	0	0.0	1	22					
BA0.1252										
PB	5.7									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	

100yr.hcl

PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	71.61	0.0							
UD	0.0									
KK	2aB									
KO	0	0	0.0	1	22					
BA	0.49									
PB	5.7									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.68	0.0							
UD	0.0									
KK	2C	CNAME	2R							
KO	0	0	0.0	0	22					
HC	4									
KK	2R	CNAME	2C							
KO	0	0	0.0	0	22					
RM	1	0.138	0.2							
KK	1B									
KO	0	0	0.0	1	22					
BA0.5606										
PB	5.7									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	

100yr.hcl										
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC	1.0									
LS	0.0	71.35	0.0							
UD	0.0									
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
HC	2									
KK	1C	CNAME	1C							
KO	0	0	0.0	0	22					
RN	1C									
ZZ										



ID Scrabble Creek  
 ID w Reclaimed Mining & wo Logging (Scenario 3), LIDAR Data  
 ID Storm Event

\*DIAGRAM

IT 15 1JAN94 0 100  
 IO 1

\* Gage XY Position 480389.00000 4224905.00000 1

PG Gage 4.1  
 IN 15 1JAN94 0

\* Scrabble Rainfall Distribution

PC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025
PC	0.05	0.075	0.1	0.1625	0.225	0.2875	0.35	0.475	0.6	0.725
PC	0.85	0.9125	0.975	1.0375	1.1	1.1625	1.225	1.2875	1.35	1.725
PC	2.1	2.475	2.85	3.1	3.35	3.6	3.85	3.9125	3.975	4.0375
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

KK 4B  
 KO 0 0 0.0 1 22

BAO.4012

PR Gage

PW 1.0

PT Gage

PW 0.45

LS 0.0 70.5 0.0

UD0.2578

KK 4R CNAME 4C  
 KO 0 0 0.0 0 22

RM 1 0.34 0.2

KK 5B

KO 0 0 0.0 1 22

BAO.6299

PR Gage

PW 1.0

PT Gage

PW 0.45

LS 0.0 70.5 0.0

UD0.2197

KK 5R CNAME 5C  
 KO 0 0 0.0 0 22

RM 1 0.357 0.2

KK 3aB

KO 0 0 0.0 1 22

BAO.4252

PR Gage

PW 1.0

PT Gage

PW 0.45

LS 0.0 70.59 0.0

UD0.2104

KK 3bB  
 KO 0 0 0.0 1 22

BAO.4467

PR Gage

PW 1.0

PT Gage

PW 0.45

LS 0.0 70.62 0.0

UD0.2331

KK 3C CNAME 3R  
 KO 0 0 0.0 0 22

HC 4

KK 3R CNAME 3C  
 KO 0 0 0.0 0 22

RM 2 0.641 0.2

KK 6B

KO 0 0 0.0 1 22

BAO.2511

PR Gage

PW 1.0

PT Gage

Event.hcl

PW	0.45				
LS	0.0	70.5	0.0		
UD0.	2017				
KK	6R	CNAME	6C		
KO	0	0	0.0	0	22
RM	1	0.492	0.2		
KK	7bB				
KO	0	0	0.0	1	22
BA0.	2705				
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.45				
LS	0.0	70.5	0.0		
UD	0.0				
KK	7aB				
KO	0	0	0.0	1	22
BA0.	5681				
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.45				
LS	0.0	70.5	0.0		
UD	0.0				
KK	7C	CNAME	7R		
KO	0	0	0.0	0	22
HC	3				
KK	2bB				
KO	0	0	0.0	1	22
BA0.	1252				
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.45				
LS	0.0	71.61	0.0		
UD	0.0				
KK	2aB				
KO	0	0	0.0	1	22
BA	0.49				
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.45				
LS	0.0	70.68	0.0		
UD	0.0				
KK	2C	CNAME	2R		
KO	0	0	0.0	0	22
HC	4				
KK	1B				
KO	0	0	0.0	1	22
BA0.	5606				
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.45				
LS	0.0	71.35	0.0		
UD	0.0				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
HC	2				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
RN	1C				
ZZ					

ID Scrabble Creek  
 ID w Reclaimed Mining & wo Logging (Scenario 3), LIDAR Data  
 ID 25 yr Storm

\*DIAGRAM

IT 15 1JAN94 0 100  
 IO 1

\* Gage XY Position 480389.00000 4224905.00000 1

PG Gage 4.1

IN 15 1JAN94 0

\* Scrabble Rainfall Distribution

PC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	
PC	0.05	0.075	0.1	0.1625	0.225	0.2875	0.35	0.475	0.6	0.725
PC	0.85	0.9125	0.975	1.0375	1.1	1.1625	1.225	1.2875	1.35	1.725
PC	2.1	2.475	2.85	3.1	3.35	3.6	3.85	3.9125	3.975	4.0375
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

KK 4B

KO 0 0 0.0 1 22

BAO.4012

PB 4.75

IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 70.5 0.0

UDO.2578

KK 4R CNAME 4C

KO 0 0 0.0 0 22

RM 1 0.34 0.2

KK 5B

KO 0 0 0.0 1 22

BAO.6299

PB 4.75

IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	

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PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.5	0.0							
UDO.2197										
KK	5R	CNAME	5C							
KO	0	0	0.0	0	22					
RM	1	0.357	0.2							
KK	3aB									
KO	0	0	0.0	1	22					
BA0.4252										
PB	4.75									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.59	0.0							
UDO.2104										
KK	3bB									
KO	0	0	0.0	1	22					
BA0.4467										
PB	4.75									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997

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PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC 1.0									
LS 0.0	70.62	0.0							
UD0.2331									
KK 3C	CNAME	3R							
KO 0	0	0.0	0	22					
HC 4									
KK 3R	CNAME	3C							
KO 0	0	0.0	0	22					
RM 2	0.641	0.2							
KK 6B									
KO 0	0	0.0	1	22					
BA0.2511									
PB 4.75									
IN 6	1JAN94	0							
* typeII-24hour									
PC 0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC 1.0									
LS 0.0	70.5	0.0							
UD0.2017									
KK 6R	CNAME	6C							
KO 0	0	0.0	0	22					
RM 1	0.492	0.2							
KK 7bB									
KO 0	0	0.0	1	22					
BA0.2705									
PB 4.75									
IN 6	1JAN94	0							
* typeII-24hour									
PC 0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777

## 25yr.hcl

PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.5	0.0							
UD	0.0									
KK	7aB									
KO	0	0	0.0	1	22					
BA0.5681										
PB	4.75									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.5	0.0							
UD	0.0									
KK	7C	CNAME	7R							
KO	0	0	0.0	0	22					
HC	3									
KK	2bB									
KO	0	0	0.0	1	22					
BA0.1252										
PB	4.75									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635

25yr.hcl

PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC	1.0								
LS	0.0	71.61	0.0						
UD	0.0								
KK	2aB								
KO	0	0	0.0	1	22				
BA	0.49								
PB	4.75								
IN	6	1JAN94	0						
* typeII-24hour									
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC	1.0								
LS	0.0	70.68	0.0						
UD	0.0								
KK	2C	CNAME	2R						
KO	0	0	0.0	0	22				
HC	4								
KK	1B								
KO	0	0	0.0	1	22				
BA0.5606									
PB	4.75								
IN	6	1JAN94	0						
* typeII-24hour									
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC	1.0								
LS	0.0	71.35	0.0						

UD	0.0				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
HC	2				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
RN	1C				
ZZ					



ID Scrabble Creek  
ID w Reclaimed Mining & wo Logging (Scenario 3), LIDAR Data  
ID 100 yr Storm

\*DIAGRAM

IT 15 1JAN94 0 100  
IO 1

\* Gage XY Position 480389.00000 4224905.00000 1

PG Gage 4.1  
IN 15 1JAN94 0

\* Scrabble Rainfall Distribution

PC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	
PC	0.05	0.075	0.1	0.1625	0.225	0.2875	0.35	0.475	0.6	0.725
PC	0.85	0.9125	0.975	1.0375	1.1	1.1625	1.225	1.2875	1.35	1.725
PC	2.1	2.475	2.85	3.1	3.35	3.6	3.85	3.9125	3.975	4.0375
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
PC	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

KK 4B  
KO 0 0 0.0 1 22

BAO.4012

PB 5.7  
IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0  
LS 0.0 70.5 0.0

UD0.2578

KK 4R CNAME 4C  
KO 0 0 0.0 0 22

RM 1 0.34 0.2  
KK 5B

KO 0 0 0.0 1 22

BAO.6299

PB 5.7  
IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	

100yr.hcl

PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.5	0.0							
UDO.2197										
KK	5R	CNAME	5C							
KO	0	0	0.0	0	22					
RM	1	0.357	0.2							
KK	3aB									
KO	0	0	0.0	1	22					
BA0.4252										
PB	5.7									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
PC	1.0									
LS	0.0	70.59	0.0							
UDO.2104										
KK	3bB									
KO	0	0	0.0	1	22					
BA0.4467										
PB	5.7									
IN	6	1JAN94	0							
* typeII-24hour										
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997

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PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC 1.0									
LS 0.0	70.62	0.0							
UD0.2331									
KK 3C	CNAME	3R							
KO 0	0	0.0	0	22					
HC 4									
KK 3R	CNAME	3C							
KO 0	0	0.0	0	22					
RM 2	0.641	0.2							
KK 6B									
KO 0	0	0.0	1	22					
BA0.2511									
PB 5.7									
IN 6	1JAN94	0							
* typeII-24hour									
PC 0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC 1.0									
LS 0.0	70.5	0.0							
UD0.2017									
KK 6R	CNAME	6C							
KO 0	0	0.0	0	22					
RM 1	0.492	0.2							
KK 7bB									
KO 0	0	0.0	1	22					
BA0.2705									
PB 5.7									
IN 6	1JAN94	0							
* typeII-24hour									
PC 0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777

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PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD 0.0
KK 7aB
KO 0 0 0.0 1 22
BA0.5681
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD 0.0
KK 7C CNAME 7R
KO 0 0 0.0 0 22
HC 3
KK 2bB
KO 0 0 0.0 1 22
BA0.1252
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635

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PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC	1.0								
LS	0.0	71.61	0.0						
UD	0.0								
KK	2aB								
KO	0	0	0.0	1	22				
BA	0.49								
PB	5.7								
IN	6	1JAN94	0						
* typeII-24hour									
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC	1.0								
LS	0.0	70.68	0.0						
UD	0.0								
KK	2C	CNAME	2R						
KO	0	0	0.0	0	22				
HC	4								
KK	1B								
KO	0	0	0.0	1	22				
BA0.5606									
PB	5.7								
IN	6	1JAN94	0						
* typeII-24hour									
PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
PC	1.0								
LS	0.0	71.35	0.0						

UD	0.0				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
HC	2				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
RN	1C				
ZZ					

```

ID Scrabble Creek
ID wo Mining & wo Logging (Scenario 4), 10m DEM Data
ID Storm Event
*DIAGRAM
IT 15 1JAN94 0 100
IO 1
* Gage XY Position 480389.00000 4224905.00000 1
PG Gage 4.1
IN 15 1JAN94 0
* Scrabble Rainfall Distribution
PC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.025
PC 0.05 0.075 0.1 0.1625 0.225 0.2875 0.35 0.475 0.6 0.725
PC 0.85 0.9125 0.975 1.0375 1.1 1.1625 1.225 1.2875 1.35 1.725
PC 2.1 2.475 2.85 3.1 3.35 3.6 3.85 3.9125 3.975 4.0375
PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
KK 6B
KO 0 0 0.0 1 22
BA0.2503
PR Gage
PW 1.0
PT Gage
PW 0.258
LS 0.0 70.5 0.0
UD 0.21
KK 6R CNAME 6C
KO 0 0 0.0 0 22
RM 1 0.037 0.2
KK 7bB
KO 0 0 0.0 1 22
BA0.2668
PR Gage
PW 1.0
PT Gage
PW 0.275
LS 0.0 70.5 0.0
UD 0.0
KK 7aB
KO 0 0 0.0 1 22
BA0.5585
PR Gage
PW 1.0
PT Gage
PW 0.564
LS 0.0 70.5 0.0
UD 0.0
KK 7C CNAME 7R
KO 0 0 0.0 0 22
HC 3
KK 7R CNAME 7C
KO 0 0 0.0 0 22
RM 1 0.087 0.2
KK 5B
KO 0 0 0.0 1 22
BA0.6425
PR Gage
PW 1.0
PT Gage
PW 0.656
LS 0.0 70.5 0.0
UD0.2376
KK 5R CNAME 5C
KO 0 0 0.0 0 22
RM 1 0.099 0.2
KK 4B
KO 0 0 0.0 1 22
BA0.4066
PR Gage
PW 1.0
PT Gage

```

Event.hcl

PW	0.416				
LS	0.0	70.5	0.0		
UD0.2643					
KK	4R	CNAME	4C		
KO	0	0	0.0	0	22
RM	1	0.091	0.2		
KK	3aB				
KO	0	0	0.0	1	22
BA0.4142					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.425				
LS	0.0	70.59	0.0		
UD0.2705					
KK	3bB				
KO	0	0	0.0	1	22
BA0.4375					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.447				
LS	0.0	70.62	0.0		
UD0.2643					
KK	3C	CNAME	3R		
KO	0	0	0.0	0	22
HC	4				
KK	3R	CNAME	3C		
KO	0	0	0.0	0	22
RM	1	0.041	0.2		
KK	2bB				
KO	0	0	0.0	1	22
BA0.1177					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.12				
LS	0.0	71.67	0.0		
UD	0.0				
KK	2aB				
KO	0	0	0.0	1	22
BA0.4804					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.491				
LS	0.0	70.67	0.0		
UD	0.0				
KK	2C	CNAME	2R		
KO	0	0	0.0	0	22
HC	4				
KK	2R	CNAME	2C		
KO	0	0	0.0	0	22
RM	1	0.134	0.2		
KK	1B				
KO	0	0	0.0	1	22
BA0.6484					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.662				
LS	0.0	71.35	0.0		
UD	0.0				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
HC	2				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
RN	1C				
ZZ					



ID Scrabble Creek

ID wo Mining & wo Logging (Scenario 4), 10m DEM Data

ID 25 yr Storm

\*DIAGRAM

IT	15	1JAN94	0	100					
IO	1								
KK	6B								
KO	0	0	0.0	1	22				

BA0.2503

PB 4.75

IN	6	1JAN94	0						
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\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 70.5 0.0

UD 0.21

KK	6R	CNAME	6C							
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KO	0	0	0.0	0	22					
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RM	1	0.037	0.2							
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KK 7bB

KO	0	0	0.0	1	22					
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BA0.2668

PB 4.75

IN	6	1JAN94	0							
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\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 70.5 0.0

```

UD 0.0
KK 7aB
KO 0 0 0.0 1 22
BA0.5585
PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD 0.0
KK 7C CNAME 7R
KO 0 0 0.0 0 22
HC 3
KK 7R CNAME 7C
KO 0 0 0.0 0 22
RM 1 0.087 0.2
KK 5B
KO 0 0 0.0 1 22
BA0.6425
PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD0.2376
KK 5R CNAME 5C

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KO      0      0      0.0      0      22
RM      1      0.099    0.2
KK      4B
KO      0      0      0.0      1      22
BA0.4066
PB      4.75
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001    0.002    0.0031    0.0041    0.0051    0.0062    0.0073    0.0083    0.0094
PC0.0105    0.0116    0.0127    0.0138    0.015    0.0161    0.0173    0.0185    0.0196    0.0208
PC 0.022    0.0232    0.0244    0.0256    0.0269    0.0281    0.0294    0.0307    0.0319    0.0332
PC0.0345    0.0358    0.0371    0.0384    0.0398    0.0411    0.0425    0.0439    0.0452    0.0466
PC 0.048    0.0494    0.0508    0.0523    0.0538    0.0553    0.0568    0.0583    0.0598    0.0614
PC 0.063    0.0646    0.0662    0.0679    0.0696    0.0712    0.073    0.0747    0.0764    0.0782
PC 0.08    0.0818    0.0836    0.0855    0.0874    0.0892    0.0912    0.0931    0.095    0.097
PC 0.099    0.101    0.103    0.1051    0.1072    0.1093    0.1114    0.1135    0.1156    0.1178
PC 0.12    0.1223    0.1246    0.1271    0.1296    0.1323    0.135    0.1379    0.1408    0.1439
PC 0.147    0.1502    0.1534    0.1566    0.1598    0.163    0.1663    0.1697    0.1733    0.1771
PC 0.181    0.1851    0.1895    0.1941    0.1989    0.204    0.2094    0.2152    0.2214    0.228
PC 0.235    0.2427    0.2513    0.2609    0.2715    0.283    0.3068    0.3544    0.4308    0.5679
PC 0.663    0.682    0.6986    0.713    0.7252    0.735    0.7434    0.7514    0.7588    0.7656
PC 0.772    0.778    0.7836    0.789    0.7942    0.799    0.8036    0.808    0.8122    0.8162
PC 0.82    0.8237    0.8273    0.8308    0.8342    0.8376    0.8409    0.8442    0.8474    0.8505
PC0.8535    0.8565    0.8594    0.8622    0.8649    0.8676    0.8702    0.8728    0.8753    0.8777
PC 0.88    0.8823    0.8845    0.8868    0.889    0.8912    0.8933    0.8955    0.8976    0.8997
PC0.9018    0.9038    0.9058    0.9078    0.9097    0.9117    0.9136    0.9155    0.9174    0.9192
PC 0.921    0.9228    0.9245    0.9263    0.928    0.9297    0.9314    0.933    0.9346    0.9362
PC0.9377    0.9393    0.9408    0.9423    0.9437    0.9452    0.9466    0.948    0.9494    0.9507
PC 0.952    0.9533    0.9546    0.9559    0.9572    0.9584    0.9597    0.961    0.9622    0.9635
PC0.9648    0.966    0.9672    0.9685    0.9697    0.9709    0.9722    0.9734    0.9746    0.9758
PC 0.977    0.9782    0.9794    0.9806    0.9818    0.9829    0.9841    0.9853    0.9864    0.9876
PC0.9888    0.9899    0.991    0.9922    0.9933    0.9944    0.9956    0.9967    0.9978    0.9989
PC      1.0
LS      0.0      70.5      0.0
UD0.2643
KK      4R      CNAME      4C
KO      0      0      0.0      0      22
RM      1      0.091    0.2
KK      3aB
KO      0      0      0.0      1      22
BA0.4142
PB      4.75
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001    0.002    0.0031    0.0041    0.0051    0.0062    0.0073    0.0083    0.0094
PC0.0105    0.0116    0.0127    0.0138    0.015    0.0161    0.0173    0.0185    0.0196    0.0208
PC 0.022    0.0232    0.0244    0.0256    0.0269    0.0281    0.0294    0.0307    0.0319    0.0332
PC0.0345    0.0358    0.0371    0.0384    0.0398    0.0411    0.0425    0.0439    0.0452    0.0466
PC 0.048    0.0494    0.0508    0.0523    0.0538    0.0553    0.0568    0.0583    0.0598    0.0614
PC 0.063    0.0646    0.0662    0.0679    0.0696    0.0712    0.073    0.0747    0.0764    0.0782
PC 0.08    0.0818    0.0836    0.0855    0.0874    0.0892    0.0912    0.0931    0.095    0.097
PC 0.099    0.101    0.103    0.1051    0.1072    0.1093    0.1114    0.1135    0.1156    0.1178
PC 0.12    0.1223    0.1246    0.1271    0.1296    0.1323    0.135    0.1379    0.1408    0.1439
PC 0.147    0.1502    0.1534    0.1566    0.1598    0.163    0.1663    0.1697    0.1733    0.1771
PC 0.181    0.1851    0.1895    0.1941    0.1989    0.204    0.2094    0.2152    0.2214    0.228
PC 0.235    0.2427    0.2513    0.2609    0.2715    0.283    0.3068    0.3544    0.4308    0.5679
PC 0.663    0.682    0.6986    0.713    0.7252    0.735    0.7434    0.7514    0.7588    0.7656
PC 0.772    0.778    0.7836    0.789    0.7942    0.799    0.8036    0.808    0.8122    0.8162
PC 0.82    0.8237    0.8273    0.8308    0.8342    0.8376    0.8409    0.8442    0.8474    0.8505
PC0.8535    0.8565    0.8594    0.8622    0.8649    0.8676    0.8702    0.8728    0.8753    0.8777
PC 0.88    0.8823    0.8845    0.8868    0.889    0.8912    0.8933    0.8955    0.8976    0.8997
PC0.9018    0.9038    0.9058    0.9078    0.9097    0.9117    0.9136    0.9155    0.9174    0.9192
PC 0.921    0.9228    0.9245    0.9263    0.928    0.9297    0.9314    0.933    0.9346    0.9362
PC0.9377    0.9393    0.9408    0.9423    0.9437    0.9452    0.9466    0.948    0.9494    0.9507
PC 0.952    0.9533    0.9546    0.9559    0.9572    0.9584    0.9597    0.961    0.9622    0.9635
PC0.9648    0.966    0.9672    0.9685    0.9697    0.9709    0.9722    0.9734    0.9746    0.9758
PC 0.977    0.9782    0.9794    0.9806    0.9818    0.9829    0.9841    0.9853    0.9864    0.9876
PC0.9888    0.9899    0.991    0.9922    0.9933    0.9944    0.9956    0.9967    0.9978    0.9989
PC      1.0
LS      0.0      70.59      0.0
UD0.2705
KK      3bB
KO      0      0      0.0      1      22
BA0.4375

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PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.62 0.0
UD0.2643
KK 3C CNAME 3R
KO 0 0 0.0 0 22
HC 4
KK 3R CNAME 3C
KO 0 0 0.0 0 22
RM 1 0.041 0.2
KK 2bB
KO 0 0 0.0 1 22
BA0.1177
PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 71.67 0.0
UD 0.0
KK 2aB
KO 0 0 0.0 1 22
BA0.4804
PB 4.75
IN 6 1JAN94 0

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\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 70.67 0.0

UD 0.0

KK 2C CNAME 2R

KO 0 0 0.0 0 22

HC 4

KK 2R CNAME 2C

KO 0 0 0.0 0 22

RM 1 0.134 0.2

KK 1B

KO 0 0 0.0 1 22

BA0.6484

PB 4.75

IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 71.35 0.0

UD 0.0

KK 1C CNAME 1C

KO 0 0 0.0 0 22

HC 2

KK 1C CNAME 1C

KO 0 0 0.0 0 22

RN 1C

ZZ

ID Scrabble Creek  
ID wo Mining & wo Logging (Scenario 4), 10m DEM Data  
ID 100 yr Storm

\*DIAGRAM

IT 15 1JAN94 0 100  
IO 1  
KK 6B  
KO 0 0 0.0 1 22  
BA0.2503  
PB 5.7  
IN 6 1JAN94 0

\* typeII-24hour

PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989

PC 1.0  
LS 0.0 70.5 0.0  
UD 0.21  
KK 6R CNAME 6C  
KO 0 0 0.0 0 22  
RM 1 0.037 0.2  
KK 7bB  
KO 0 0 0.0 1 22  
BA0.2668  
PB 5.7  
IN 6 1JAN94 0

\* typeII-24hour

PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094  
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208  
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332  
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466  
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614  
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782  
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097  
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178  
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439  
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771  
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228  
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679  
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656  
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162  
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505  
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777  
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997  
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192  
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362  
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507  
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635  
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758  
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876  
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989

PC 1.0  
LS 0.0 70.5 0.0

```

UD 0.0
KK 7aB
KO 0 0 0.0 1 22
BA0.5585
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD 0.0
KK 7C CNAME 7R
KO 0 0 0.0 0 22
HC 3
KK 7R CNAME 7C
KO 0 0 0.0 0 22
RM 1 0.087 0.2
KK 5B
KO 0 0 0.0 1 22
BA0.6425
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD0.2376
KK 5R CNAME 5C

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KO      0      0      0.0      0      22
RM      1      0.099    0.2
KK      4B
KO      0      0      0.0      1      22
BA0.4066
PB      5.7
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001    0.002    0.0031  0.0041  0.0051  0.0062  0.0073  0.0083  0.0094
PC0.0105 0.0116 0.0127 0.0138  0.015  0.0161  0.0173  0.0185  0.0196  0.0208
PC 0.022 0.0232 0.0244 0.0256  0.0269  0.0281  0.0294  0.0307  0.0319  0.0332
PC0.0345 0.0358 0.0371 0.0384  0.0398  0.0411  0.0425  0.0439  0.0452  0.0466
PC 0.048 0.0494 0.0508 0.0523  0.0538  0.0553  0.0568  0.0583  0.0598  0.0614
PC 0.063 0.0646 0.0662 0.0679  0.0696  0.0712  0.073  0.0747  0.0764  0.0782
PC 0.08 0.0818 0.0836 0.0855  0.0874  0.0892  0.0912  0.0931  0.095  0.097
PC 0.099 0.101 0.103 0.1051  0.1072  0.1093  0.1114  0.1135  0.1156  0.1178
PC 0.12 0.1223 0.1246 0.1271  0.1296  0.1323  0.135  0.1379  0.1408  0.1439
PC 0.147 0.1502 0.1534 0.1566  0.1598  0.163  0.1663  0.1697  0.1733  0.1771
PC 0.181 0.1851 0.1895 0.1941  0.1989  0.204  0.2094  0.2152  0.2214  0.228
PC 0.235 0.2427 0.2513 0.2609  0.2715  0.283  0.3068  0.3544  0.4308  0.5679
PC 0.663 0.682 0.6986 0.713  0.7252  0.735  0.7434  0.7514  0.7588  0.7656
PC 0.772 0.778 0.7836 0.789  0.7942  0.799  0.8036  0.808  0.8122  0.8162
PC 0.82 0.8237 0.8273 0.8308  0.8342  0.8376  0.8409  0.8442  0.8474  0.8505
PC0.8535 0.8565 0.8594 0.8622  0.8649  0.8676  0.8702  0.8728  0.8753  0.8777
PC 0.88 0.8823 0.8845 0.8868  0.889  0.8912  0.8933  0.8955  0.8976  0.8997
PC0.9018 0.9038 0.9058 0.9078  0.9097  0.9117  0.9136  0.9155  0.9174  0.9192
PC 0.921 0.9228 0.9245 0.9263  0.928  0.9297  0.9314  0.933  0.9346  0.9362
PC0.9377 0.9393 0.9408 0.9423  0.9437  0.9452  0.9466  0.948  0.9494  0.9507
PC 0.952 0.9533 0.9546 0.9559  0.9572  0.9584  0.9597  0.961  0.9622  0.9635
PC0.9648 0.966 0.9672 0.9685  0.9697  0.9709  0.9722  0.9734  0.9746  0.9758
PC 0.977 0.9782 0.9794 0.9806  0.9818  0.9829  0.9841  0.9853  0.9864  0.9876
PC0.9888 0.9899 0.991 0.9922  0.9933  0.9944  0.9956  0.9967  0.9978  0.9989
PC      1.0
LS      0.0      70.5      0.0
UD0.2643
KK      4R      CNAME      4C
KO      0      0      0.0      0      22
RM      1      0.091    0.2
KK      3aB
KO      0      0      0.0      1      22
BA0.4142
PB      5.7
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001    0.002    0.0031  0.0041  0.0051  0.0062  0.0073  0.0083  0.0094
PC0.0105 0.0116 0.0127 0.0138  0.015  0.0161  0.0173  0.0185  0.0196  0.0208
PC 0.022 0.0232 0.0244 0.0256  0.0269  0.0281  0.0294  0.0307  0.0319  0.0332
PC0.0345 0.0358 0.0371 0.0384  0.0398  0.0411  0.0425  0.0439  0.0452  0.0466
PC 0.048 0.0494 0.0508 0.0523  0.0538  0.0553  0.0568  0.0583  0.0598  0.0614
PC 0.063 0.0646 0.0662 0.0679  0.0696  0.0712  0.073  0.0747  0.0764  0.0782
PC 0.08 0.0818 0.0836 0.0855  0.0874  0.0892  0.0912  0.0931  0.095  0.097
PC 0.099 0.101 0.103 0.1051  0.1072  0.1093  0.1114  0.1135  0.1156  0.1178
PC 0.12 0.1223 0.1246 0.1271  0.1296  0.1323  0.135  0.1379  0.1408  0.1439
PC 0.147 0.1502 0.1534 0.1566  0.1598  0.163  0.1663  0.1697  0.1733  0.1771
PC 0.181 0.1851 0.1895 0.1941  0.1989  0.204  0.2094  0.2152  0.2214  0.228
PC 0.235 0.2427 0.2513 0.2609  0.2715  0.283  0.3068  0.3544  0.4308  0.5679
PC 0.663 0.682 0.6986 0.713  0.7252  0.735  0.7434  0.7514  0.7588  0.7656
PC 0.772 0.778 0.7836 0.789  0.7942  0.799  0.8036  0.808  0.8122  0.8162
PC 0.82 0.8237 0.8273 0.8308  0.8342  0.8376  0.8409  0.8442  0.8474  0.8505
PC0.8535 0.8565 0.8594 0.8622  0.8649  0.8676  0.8702  0.8728  0.8753  0.8777
PC 0.88 0.8823 0.8845 0.8868  0.889  0.8912  0.8933  0.8955  0.8976  0.8997
PC0.9018 0.9038 0.9058 0.9078  0.9097  0.9117  0.9136  0.9155  0.9174  0.9192
PC 0.921 0.9228 0.9245 0.9263  0.928  0.9297  0.9314  0.933  0.9346  0.9362
PC0.9377 0.9393 0.9408 0.9423  0.9437  0.9452  0.9466  0.948  0.9494  0.9507
PC 0.952 0.9533 0.9546 0.9559  0.9572  0.9584  0.9597  0.961  0.9622  0.9635
PC0.9648 0.966 0.9672 0.9685  0.9697  0.9709  0.9722  0.9734  0.9746  0.9758
PC 0.977 0.9782 0.9794 0.9806  0.9818  0.9829  0.9841  0.9853  0.9864  0.9876
PC0.9888 0.9899 0.991 0.9922  0.9933  0.9944  0.9956  0.9967  0.9978  0.9989
PC      1.0
LS      0.0      70.59      0.0
UD0.2705
KK      3bB
KO      0      0      0.0      1      22
BA0.4375

```



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PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.62 0.0
UD0.2643
KK 3C CNAME 3R
KO 0 0 0.0 0 22
HC 4
KK 3R CNAME 3C
KO 0 0 0.0 0 22
RM 1 0.041 0.2
KK 2bB
KO 0 0 0.0 1 22
BA0.1177
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 71.67 0.0
UD 0.0
KK 2aB
KO 0 0 0.0 1 22
BA0.4804
PB 5.7
IN 6 1JAN94 0

```

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 70.67 0.0

UD 0.0

KK 2C CNAME 2R

KO 0 0 0.0 0 22

HC 4

KK 2R CNAME 2C

KO 0 0 0.0 0 22

RM 1 0.134 0.2

KK 1B

KO 0 0 0.0 1 22

BA0.6484

PB 5.7

IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 71.35 0.0

UD 0.0

KK 1C CNAME 1C

KO 0 0 0.0 0 22

HC 2

KK 1C CNAME 1C

KO 0 0 0.0 0 22

RN 1C

ZZ

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ID Scrabble Creek
ID wo Mining & w Logging (Scenario 5), 10m DEM Data
ID Storm Event
*DIAGRAM
IT 15 1JAN94 0 100
IO 1
* Gage XY Position 480389.00000 4224905.00000 1
PG Gage 4.1
IN 15 1JAN94 0
* Scrabble Rainfall Distribution
PC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.025
PC 0.05 0.075 0.1 0.1625 0.225 0.2875 0.35 0.475 0.6 0.725
PC 0.85 0.9125 0.975 1.0375 1.1 1.1625 1.225 1.2875 1.35 1.725
PC 2.1 2.475 2.85 3.1 3.35 3.6 3.85 3.9125 3.975 4.0375
PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
KK 6B
KO 0 0 0.0 1 22
BA0.2503
PR Gage
PW 1.0
PT Gage
PW 0.258
LS 0.0 70.5 0.0
UD 0.21
KK 6R CNAME 6C
KO 0 0 0.0 0 22
RM 1 0.037 0.2
KK 7bB
KO 0 0 0.0 1 22
BA0.2668
LS 0.0 71.37 0.0
UD 0.0
KK 7aB
KO 0 0 0.0 1 22
BA0.5585
LS 0.0 72.08 0.0
UD 0.0
KK 7C CNAME 7R
KO 0 0 0.0 0 22
HC 3
KK 7R CNAME 7C
KO 0 0 0.0 0 22
RM 1 0.087 0.2
KK 5B
KO 0 0 0.0 1 22
BA0.6425
PR Gage
PW 1.0
PT Gage
PW 0.656
LS 0.0 70.5 0.0
UD0.2376
KK 5R CNAME 5C
KO 0 0 0.0 0 22
RM 1 0.099 0.2
KK 4B
KO 0 0 0.0 1 22
BA0.4066
PR Gage
PW 1.0
PT Gage
PW 0.416
LS 0.0 70.5 0.0
UD0.2643
KK 4R CNAME 4C
KO 0 0 0.0 0 22
RM 1 0.091 0.2
KK 3aB

```

KO	0	0	0.0	1	22
BA0.4142					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.425				
LS	0.0	70.59	0.0		
UD0.2705					
KK 3bB					
KO	0	0	0.0	1	22
BA0.4375					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.447				
LS	0.0	71.79	0.0		
UD0.2643					
KK	3C	CNAME	3R		
KO	0	0	0.0	0	22
HC	4				
KK	3R	CNAME	3C		
KO	0	0	0.0	0	22
RM	1	0.041	0.2		
KK 2bB					
KO	0	0	0.0	1	22
BA0.1177					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.12				
LS	0.0	72.42	0.0		
UD	0.0				
KK 2aB					
KO	0	0	0.0	1	22
BA0.4804					
LS	0.0	73.5	0.0		
UD	0.0				
KK	2C	CNAME	2R		
KO	0	0	0.0	0	22
HC	4				
KK	2R	CNAME	2C		
KO	0	0	0.0	0	22
RM	1	0.134	0.2		
KK	1B				
KO	0	0	0.0	1	22
BA0.6484					
PR	Gage				
PW	1.0				
PT	Gage				
PW	0.662				
LS	0.0	73.13	0.0		
UD	0.0				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
HC	2				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
RN	1C				
ZZ					

ID Scrabble Creek

ID wo Mining & w Logging (Scenario 5), 10m DEM Data

ID 25 yr Storm

\*DIAGRAM

IT	15	1JAN94	0	100					
IO	1								
KK	6B								
KO	0	0	0.0	1	22				
BA0.2503									
PB	4.75								
IN	6	1JAN94	0						

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 70.5 0.0

UD 0.21

KK 6R CNAME 6C

KO	0	0	0.0	0	22					
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RM 1 0.037 0.2

KK 7bB

KO	0	0	0.0	1	22					
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BA0.2668

PB 4.75

IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

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LS 0.0 71.37 0.0
UD 0.0
KK 7aB
KO 0 0 0.0 1 22
BA0.5585
PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 72.08 0.0
UD 0.0
KK 7C CNAME 7R
KO 0 0 0.0 0 22
HC 3
KK 7R CNAME 7C
KO 0 0 0.0 0 22
RM 1 0.087 0.2
KK 5B
KO 0 0 0.0 1 22
BA0.6425
PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0

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UD0.2376
KK 5R CNAME 5C
KO 0 0 0.0 0 22
RM 1 0.099 0.2
KK 4B
KO 0 0 0.0 1 22
BA0.4066
PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD0.2643
KK 4R CNAME 4C
KO 0 0 0.0 0 22
RM 1 0.091 0.2
KK 3aB
KO 0 0 0.0 1 22
BA0.4142
PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.59 0.0
UD0.2705

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KK 3bB
KO 0 0 0.0 1 22
BA0.4375
PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 71.79 0.0
UD0.2643
KK 3C CNAME 3R
KO 0 0 0.0 0 22
HC 4
KK 3R CNAME 3C
KO 0 0 0.0 0 22
RM 1 0.041 0.2
KK 2bB
KO 0 0 0.0 1 22
BA0.1177
PB 4.75
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 72.42 0.0
UD 0.0
KK 2aB

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KO      0      0      0.0      1      22
BA0.4804
PB 4.75
IN 6 1JAN94      0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 73.5 0.0
UD 0.0
KK 2C CNAME 2R
KO 0 0 0.0 0 22
HC 4
KK 2R CNAME 2C
KO 0 0 0.0 0 22
RM 1 0.134 0.2
KK 1B
KO 0 0 0.0 1 22
BA0.6484
PB 4.75
IN 6 1JAN94      0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 73.13 0.0
UD 0.0
KK 1C CNAME 1C
KO 0 0 0.0 0 22

```

25yr.hc1

HC	2				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
RN	1C				
ZZ					

ID Scrabble Creek

ID wo Mining & w Logging (Scenario 5), 10m DEM Data

ID 100 yr Storm

\*DIAGRAM

IT 15 1JAN94 0 100  
 IO 1  
 KK 6B  
 KO 0 0 0.0 1 22

BA0.2503

PB 5.7

IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

LS 0.0 70.5 0.0

UD 0.21

KK 6R CNAME 6C

KO 0 0 0.0 0 22

RM 1 0.037 0.2

KK 7bB

KO 0 0 0.0 1 22

BA0.2668

PB 5.7

IN 6 1JAN94 0

\* typeII-24hour

PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
PC0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
PC 0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
PC0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
PC 0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
PC 0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
PC 0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
PC 0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
PC 0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
PC 0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
PC 0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
PC 0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
PC 0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
PC 0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
PC 0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
PC0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
PC 0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
PC0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
PC 0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
PC0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
PC 0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
PC0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
PC 0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
PC0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	

PC 1.0

```

LS 0.0 71.37 0.0
UD 0.0
KK 7aB
KO 0 0 0.0 1 22
BA0.5585
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 72.08 0.0
UD 0.0
KK 7C CNAME 7R
KO 0 0 0.0 0 22
HC 3
KK 7R CNAME 7C
KO 0 0 0.0 0 22
RM 1 0.087 0.2
KK 5B
KO 0 0 0.0 1 22
BA0.6425
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0

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UD0.2376
KK 5R CNAME 5C
KO 0 0 0.0 0 22
RM 1 0.099 0.2
KK 4B
KO 0 0 0.0 1 22
BA0.4066
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.5 0.0
UD0.2643
KK 4R CNAME 4C
KO 0 0 0.0 0 22
RM 1 0.091 0.2
KK 3aB
KO 0 0 0.0 1 22
BA0.4142
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 70.59 0.0
UD0.2705

```

```

KK 3bB
KO 0 0 0.0 1 22
BA0.4375
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 71.79 0.0
UD0.2643
KK 3C CNAME 3R
KO 0 0 0.0 0 22
HC 4
KK 3R CNAME 3C
KO 0 0 0.0 0 22
RM 1 0.041 0.2
KK 2bB
KO 0 0 0.0 1 22
BA0.1177
PB 5.7
IN 6 1JAN94 0
* typeII-24hour
PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
PC0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
PC0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
PC0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
PC0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
PC0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
PC0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
PC0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
PC 1.0
LS 0.0 72.42 0.0
UD 0.0
KK 2aB

```

```

KO      0      0      0.0      1      22
BA0.4804
PB      5.7
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      73.5      0.0
UD      0.0
KK      2C      CNAME      2R
KO      0      0      0.0      0      22
HC      4
KK      2R      CNAME      2C
KO      0      0      0.0      0      22
RM      1      0.134      0.2
KK      1B
KO      0      0      0.0      1      22
BA0.6484
PB      5.7
IN      6      1JAN94      0
* typeII-24hour
PC      0.0      0.001      0.002      0.0031      0.0041      0.0051      0.0062      0.0073      0.0083      0.0094
PC0.0105      0.0116      0.0127      0.0138      0.015      0.0161      0.0173      0.0185      0.0196      0.0208
PC      0.022      0.0232      0.0244      0.0256      0.0269      0.0281      0.0294      0.0307      0.0319      0.0332
PC0.0345      0.0358      0.0371      0.0384      0.0398      0.0411      0.0425      0.0439      0.0452      0.0466
PC      0.048      0.0494      0.0508      0.0523      0.0538      0.0553      0.0568      0.0583      0.0598      0.0614
PC      0.063      0.0646      0.0662      0.0679      0.0696      0.0712      0.073      0.0747      0.0764      0.0782
PC      0.08      0.0818      0.0836      0.0855      0.0874      0.0892      0.0912      0.0931      0.095      0.097
PC      0.099      0.101      0.103      0.1051      0.1072      0.1093      0.1114      0.1135      0.1156      0.1178
PC      0.12      0.1223      0.1246      0.1271      0.1296      0.1323      0.135      0.1379      0.1408      0.1439
PC      0.147      0.1502      0.1534      0.1566      0.1598      0.163      0.1663      0.1697      0.1733      0.1771
PC      0.181      0.1851      0.1895      0.1941      0.1989      0.204      0.2094      0.2152      0.2214      0.228
PC      0.235      0.2427      0.2513      0.2609      0.2715      0.283      0.3068      0.3544      0.4308      0.5679
PC      0.663      0.682      0.6986      0.713      0.7252      0.735      0.7434      0.7514      0.7588      0.7656
PC      0.772      0.778      0.7836      0.789      0.7942      0.799      0.8036      0.808      0.8122      0.8162
PC      0.82      0.8237      0.8273      0.8308      0.8342      0.8376      0.8409      0.8442      0.8474      0.8505
PC0.8535      0.8565      0.8594      0.8622      0.8649      0.8676      0.8702      0.8728      0.8753      0.8777
PC      0.88      0.8823      0.8845      0.8868      0.889      0.8912      0.8933      0.8955      0.8976      0.8997
PC0.9018      0.9038      0.9058      0.9078      0.9097      0.9117      0.9136      0.9155      0.9174      0.9192
PC      0.921      0.9228      0.9245      0.9263      0.928      0.9297      0.9314      0.933      0.9346      0.9362
PC0.9377      0.9393      0.9408      0.9423      0.9437      0.9452      0.9466      0.948      0.9494      0.9507
PC      0.952      0.9533      0.9546      0.9559      0.9572      0.9584      0.9597      0.961      0.9622      0.9635
PC0.9648      0.966      0.9672      0.9685      0.9697      0.9709      0.9722      0.9734      0.9746      0.9758
PC      0.977      0.9782      0.9794      0.9806      0.9818      0.9829      0.9841      0.9853      0.9864      0.9876
PC0.9888      0.9899      0.991      0.9922      0.9933      0.9944      0.9956      0.9967      0.9978      0.9989
PC      1.0
LS      0.0      73.13      0.0
UD      0.0
KK      1C      CNAME      1C
KO      0      0      0.0      0      22

```

HC	2				
KK	1C	CNAME	1C		
KO	0	0	0.0	0	22
RN	1C				
ZZ					



```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
*****

```

```

*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
*****

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X X XXXXXXX XXXXX X
X X X X X XX
X X X X X
XXXXXXXX XXXX X XXXXX X
X X X X X
X X X X X
X X XXXXXXX XXXXX XXX

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID Scrabble Creek
2 ID w Mining & w Logging (Scenario 1), LIDAR Data
3 ID Storm Event
*DIAGRAM
4 IT 15 1JAN94 0 100
5 IO 1
* Gage XY Position 480389.00000 4224905.00000 1
6 PG Gage 4.1
7 IN 15 1JAN94 0
* Scrabble Rainfall Distribution
8 PC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.025
9 PC 0.05 0.075 0.1 0.1625 0.225 0.2875 0.35 0.475 0.6 0.725
10 PC 0.85 0.9125 0.975 1.0375 1.1 1.1625 1.225 1.2875 1.35 1.725
11 PC 2.1 2.475 2.85 3.1 3.35 3.6 3.85 3.9125 3.975 4.0375
12 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
13 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
14 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
15 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
16 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
17 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
18 KK 4B
19 KO 0 0 0 1 22
20 BA 0.4012
21 PR Gage
22 PW 1.0
23 PT Gage
24 PW 0.254
25 LS 0.0 74.37 0.0
26 UD 0.2578
27 KK 4R CNAME 4C
28 KO 0 0 0 0 22
29 RM 1 0.097 0.2
30 KK 5B
31 KO 0 0 0 1 22
32 BA 0.6299
33 PR Gage
34 PW 1.0
35 PT Gage
36 PW 0.254
37 LS 0.0 75.11 0.0
38 UD 0.2197
39 KK 5R CNAME 5C
40 KO 0 0 0 0 22
41 RM 1 0.102 0.2
42 KK 3aB
43 KO 0 0 0 1 22
44 BA 0.4252
45 PR Gage
46 PW 1.0
47 PT Gage

```

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
48 PW 0.254

```

LINE	ID	1	2	3	4	5	6	7	8	9	10
49	LS	0.0	70.96	0.0							
50	UD	0.2104									
51	KK	3bB									
52	KO	0	0	0.0	1	22					
53	BA	0.4467									
54	PR	Gage									
55	PW	1.0									
56	PT	Gage									
57	PW	0.254									
58	LS	0.0	74.89	0.0							
59	UD	0.2331									
60	KK	3C	CNAME	3R							
61	KO	0	0	0.0	0	22					
62	HC	4									
63	KK	3R	CNAME	3C							
64	KO	0	0	0.0	0	22					
65	RM	2	0.045	0.2							
66	KK	6B									
67	KO	0	0	0.0	1	22					
68	BA	0.2511									
69	PR	Gage									
70	PW	1.0									
71	PT	Gage									
72	PW	0.254									
73	LS	0.0	74.58	0.0							
74	UD	0.2017									
75	KK	6R	CNAME	6C							
76	KO	0	0	0.0	0	22					
77	RM	1	0.037	0.2							
78	KK	7bB									
79	KO	0	0	0.0	1	22					
80	BA	0.2705									
81	PR	Gage									
82	PW	1.0									
83	PT	Gage									
84	PW	0.254									
85	LS	0.0	75.55	0.0							
86	UD	0.0									
87	KK	7aB									
88	KO	0	0	0.0	1	22					
89	BA	0.5681									
90	PR	Gage									
91	PW	1.0									
92	PT	Gage									
93	PW	0.254									
94	LS	0.0	73.44	0.0							
95	UD	0.0									

HEC-1 INPUT

PAGE 3

LINE	ID	1	2	3	4	5	6	7	8	9	10
96	KK	7C	CNAME	7R							
97	KO	0	0	0.0	0	22					
98	HC	3									
99	KK	7R	CNAME	7C							
100	KO	0	0	0.0	0	22					
101	RM	1	0.105	0.2							
102	KK	2bB									
103	KO	0	0	0.0	1	22					
104	BA	0.1252									
105	PR	Gage									
106	PW	1.0									
107	PT	Gage									
108	PW	0.254									
109	LS	0.0	72.37	0.0							
110	UD	0.0									
111	KK	2aB									
112	KO	0	0	0.0	1	22					
113	BA	0.49									
114	PR	Gage									
115	PW	1.0									
116	PT	Gage									
117	PW	0.254									
118	LS	0.0	73.52	0.0							
119	UD	0.0									
120	KK	2C	CNAME	2R							
121	KO	0	0	0.0	0	22					
122	HC	4									
123	KK	2R	CNAME	2C							
124	KO	0	0	0.0	0	22					
125	RM	1	0.138	0.2							
126	KK	1B									
127	KO	0	0	0.0	1	22					
128	BA	0.5606									

```

129      PR      Gage
130      PW      1.0
131      PT      Gage
132      PW      0.254
133      LS      0.0   73.35   0.0
134      UD      0.0

135      KK      1C   CNAME   1C
136      KO      0     0     0.0   0   22
137      HC      2

```

Event.out

HEC-1 INPUT

PAGE 4

```

LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

138      KK      1C   CNAME   1C
139      KO      0     0     0.0   0   22
140      RN      1C
141      ZZ

```

SCHEMATIC DIAGRAM OF STREAM NETWORK

```

INPUT
LINE      (V) ROUTING      (--->) DIVERSION OR PUMP FLOW
NO.      (.) CONNECTOR    (<---) RETURN OF DIVERTED OR PUMPED FLOW

18      4B
        V
        V
27      4R
        .
        .
30      .      5B
        .      V
        .      V
39      .      5R
        .      .
        .      .
42      .      .      3aB
        .      .      .
51      .      .      .      3bB
        .      .      .      .
60      3C.....
        V
        V
63      3R
        .
        .
66      .      6B
        .      V
        .      V
75      .      6R
        .      .
        .      .
78      .      .      7bB
        .      .      .
87      .      .      .      7aB
        .      .      .      .
96      .      7C.....
        .      V
        .      V
99      .      7R
        .      .
        .      .
102     .      .      2bB
        .      .      .
111     .      .      .      2aB
        .      .      .      .
120     2C.....
        V
        V
123     2R
        .
        .
126     .      1B
        .      .
        .      .
135     1C.....
        V
        V
138     1C

```

```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION
*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE TIME *
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* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
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Scrabble Creek  
w Mining & w Logging (Scenario 1), LIDAR Data  
Storm Event

5 IO      OUTPUT CONTROL VARIABLES  
           IPRNT        1    PRINT CONTROL  
           IPLOT        0    PLOT CONTROL  
           QSCAL        0.    HYDROGRAPH PLOT SCALE

7 IN      TIME DATA FOR INPUT TIME SERIES  
           JXMIN        15    TIME INTERVAL IN MINUTES  
           JXDATE       1JAN94    STARTING DATE  
           JXTIME        0    STARTING TIME

IT        HYDROGRAPH TIME DATA  
           NMIN        15    MINUTES IN COMPUTATION INTERVAL  
           IDATE        1JAN94    STARTING DATE  
           ITIME        0000    STARTING TIME  
           NQ,           100    NUMBER OF HYDROGRAPH ORDINATES  
           NDDATE       2JAN94    ENDING DATE  
           NDTIME       0045    ENDING TIME  
           ICENT        19    CENTURY MARK

          COMPUTATION INTERVAL    0.25 HOURS  
           TOTAL TIME BASE        24.75 HOURS

ENGLISH UNITS  
 DRAINAGE AREA            SQUARE MILES  
 PRECIPITATION DEPTH     INCHES  
 LENGTH, ELEVATION       FEET  
 FLOW                     CUBIC FEET PER SECOND  
 STORAGE VOLUME          ACRE-Feet  
 SURFACE AREA            ACRES  
 TEMPERATURE            DEGREES FAHRENHEIT

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 \*            \*  
 18 KK        4B \*  
 \*            \*  
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19 KO      OUTPUT CONTROL VARIABLES  
           IPRNT        1    PRINT CONTROL  
           IPLOT        0    PLOT CONTROL  
           QSCAL        0.    HYDROGRAPH PLOT SCALE  
           IPNCH        1    PUNCH COMPUTED HYDROGRAPH  
           IOUT         22    SAVE HYDROGRAPH ON THIS UNIT  
           ISAV1        1    FIRST ORDINATE PUNCHED OR SAVED  
           ISAV2        100    LAST ORDINATE PUNCHED OR SAVED  
           TIMINT       0.250    TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

20 BA      SUBBASIN CHARACTERISTICS  
           TAREA,       0.40    SUBBASIN AREA

PRECIPITATION DATA

23 PT      TOTAL STORM STATIONS    Gage  
 24 PW      WEIGHTS                0.25

21 PR      RECORDING STATIONS     Gage  
 22 PW      WEIGHTS                1.00

25 LS      SCS LOSS RATE  
           STRTL        0.69    INITIAL ABSTRACTION  
           CRVNBR      74.37    CURVE NUMBER  
           RTIMP        0.00    PERCENT IMPERVIOUS AREA

26 UD      SCS DIMENSIONLESS UNITGRAPH  
           TLAG        0.26    LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	
0.03	0.02	0.06	0.06	0.06	0.06	0.12	0.13	0.12	0.12	
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37	
0.38	0.38	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06	

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
7 END-OF-PERIOD ORDINATES

375. 430. 151. 53. 18. 6. 2.

HYDROGRAPH AT STATION 4B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.00	0.00	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.03	0.03	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.03	0.03	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.06	0.06	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.06	0.06	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.06	0.06	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.06	0.06	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.12	0.12	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.13	0.13	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.12	0.12	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.12	0.12	0.01	3.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.06	0.06	0.01	5.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.06	0.05	0.01	7.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.06	0.05	0.01	9.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.06	0.05	0.01	10.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	12.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	14.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.02	15.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.04	0.02	17.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.38	0.24	0.13	61.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.37	0.20	0.17	125.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.38	0.18	0.20	170.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.38	0.15	0.22	203.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.25	0.09	0.16	198.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.25	0.08	0.17	180.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.25	0.08	0.17	178.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.25	0.07	0.18	181.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.06	0.02	0.05	134.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.06	0.02	0.05	78.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.06	0.02	0.05	58.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.06	0.02	0.05	51.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	32.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	11.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	4.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	1.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	0.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	0.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.40, TOTAL EXCESS = 1.70

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(CFS)	(CFS)	(CFS)
203.	8.00	73.	18	18.	18.
		(INCHES)	1.694	1.697	1.697
		(AC-FT)	36.	36.	36.
CUMULATIVE AREA =		0.40 SQ MI			

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27 KK \*\*\*\*\*  
\* \*  
\* 4R \* CNAME 4C  
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28 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

29 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.10 MUSKINGUM K  
 X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 4R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	12.	1	JAN	1230	51	0.	1	JAN	1845	76	0.
1	JAN	0015	2	0.	1	JAN	0630	27	13.	1	JAN	1245	52	0.	1	JAN	1900	77	0.
1	JAN	0030	3	0.	1	JAN	0645	28	15.	1	JAN	1300	53	0.	1	JAN	1915	78	0.
1	JAN	0045	4	0.	1	JAN	0700	29	16.	1	JAN	1315	54	0.	1	JAN	1930	79	0.
1	JAN	0100	5	0.	1	JAN	0715	30	40.	1	JAN	1330	55	0.	1	JAN	1945	80	0.
1	JAN	0115	6	0.	1	JAN	0730	31	99.	1	JAN	1345	56	0.	1	JAN	2000	81	0.
1	JAN	0130	7	0.	1	JAN	0745	32	154.	1	JAN	1400	57	0.	1	JAN	2015	82	0.
1	JAN	0145	8	0.	1	JAN	0800	33	190.	1	JAN	1415	58	0.	1	JAN	2030	83	0.
1	JAN	0200	9	0.	1	JAN	0815	34	203.	1	JAN	1430	59	0.	1	JAN	2045	84	0.
1	JAN	0215	10	0.	1	JAN	0830	35	187.	1	JAN	1445	60	0.	1	JAN	2100	85	0.
1	JAN	0230	11	0.	1	JAN	0845	36	177.	1	JAN	1500	61	0.	1	JAN	2115	86	0.
1	JAN	0245	12	0.	1	JAN	0900	37	180.	1	JAN	1515	62	0.	1	JAN	2130	87	0.
1	JAN	0300	13	0.	1	JAN	0915	38	157.	1	JAN	1530	63	0.	1	JAN	2145	88	0.
1	JAN	0315	14	0.	1	JAN	0930	39	99.	1	JAN	1545	64	0.	1	JAN	2200	89	0.
1	JAN	0330	15	0.	1	JAN	0945	40	62.	1	JAN	1600	65	0.	1	JAN	2215	90	0.
1	JAN	0345	16	0.	1	JAN	1000	41	54.	1	JAN	1615	66	0.	1	JAN	2230	91	0.
1	JAN	0400	17	0.	1	JAN	1015	42	41.	1	JAN	1630	67	0.	1	JAN	2245	92	0.
1	JAN	0415	18	0.	1	JAN	1030	43	19.	1	JAN	1645	68	0.	1	JAN	2300	93	0.
1	JAN	0430	19	0.	1	JAN	1045	44	5.	1	JAN	1700	69	0.	1	JAN	2315	94	0.
1	JAN	0445	20	0.	1	JAN	1100	45	2.	1	JAN	1715	70	0.	1	JAN	2330	95	0.
1	JAN	0500	21	1.	1	JAN	1115	46	1.	1	JAN	1730	71	0.	1	JAN	2345	96	0.
1	JAN	0515	22	4.	1	JAN	1130	47	0.	1	JAN	1745	72	0.	2	JAN	0000	97	0.
1	JAN	0530	23	6.	1	JAN	1145	48	0.	1	JAN	1800	73	0.	2	JAN	0015	98	0.
1	JAN	0545	24	8.	1	JAN	1200	49	0.	1	JAN	1815	74	0.	2	JAN	0030	99	0.
1	JAN	0600	25	10.	1	JAN	1215	50	0.	1	JAN	1830	75	0.	2	JAN	0045	100	0.

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
203.	8.25	73.	18.	18.	18.
		(INCHES)	1.694	1.697	1.697
		(AC-FT)	36.	36.	36.
CUMULATIVE AREA =		0.40 SQ MI			

\*\*\*\*\*

30 KK \*\*\*\*\*  
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 \* 5B \*  
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31 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

32 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.63 SUBBASIN AREA

PRECIPITATION DATA

35 PT TOTAL STORM STATIONS Gage  
 36 PW WEIGHTS 0.25

33 PR RECORDING STATIONS Gage  
 34 PW WEIGHTS 1.00

37 LS SCS LOSS RATE  
 STRTL 0.66 INITIAL ABSTRACTION  
 CRVNBR 75.11 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

38 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.22 LAG

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PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
Gage 4.10 0.00 0.25

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.03 0.03  
0.03 0.02 0.06 0.06 0.06 0.06 0.12 0.13 0.12 0.12  
0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.38 0.37  
0.38 0.38 0.25 0.25 0.25 0.25 0.06 0.06 0.06 0.06

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
6 END-OF-PERIOD ORDINATES

731. 629. 186. 57. 17. 6.

HYDROGRAPH AT STATION 5B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.00	0.00	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.03	0.03	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.03	0.03	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.06	0.06	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.06	0.06	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.06	0.06	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.06	0.06	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.12	0.12	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.13	0.13	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.12	0.12	0.00	1.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.12	0.12	0.01	7.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.06	0.06	0.01	11.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.06	0.05	0.01	13.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.06	0.05	0.01	16.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.06	0.05	0.01	19.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	22.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.02	24.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.04	0.02	27.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.04	0.02	29.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.38	0.24	0.14	119.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.37	0.20	0.18	222.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.38	0.17	0.21	289.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.38	0.15	0.23	338.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.25	0.09	0.16	314.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.25	0.08	0.17	285.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.25	0.07	0.18	284.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.25	0.07	0.18	291.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.06	0.02	0.05	195.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.06	0.02	0.05	111.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.06	0.02	0.05	87.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.06	0.02	0.05	80.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	43.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	13.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	4.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	1.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	0.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	0.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.35, TOTAL EXCESS = 1.75

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(CFS)			
+	338.	8.00	118.	30.	29.
		(INCHES)	1.748	1.750	1.750
		(AC-FT)	59.	59.	59.

CUMULATIVE AREA = 0.63 SQ MI

\*\*\* \*\*

39 KK \*\*\*\*\*
\* \*
\* 5R \* CNAME 5C
\* \*
\*\*\*\*\*

40 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

41 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.10 MUSKINGUM K
X 0.20 MUSKINGUM X

\*\*\*

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

\*\*\*\*\*

HYDROGRAPH AT STATION 5R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 4 times). Rows show hydrograph data for various dates and times, including flow values in CFS and AC-FT.

\*\*\*\*\*

PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR
+ 330. 8.25 (CFS) 118. 30 29. 29.
(INCHES) 1.748 1.750 1.750 1.750
(AC-FT) 59. 59. 59. 59.
CUMULATIVE AREA = 0.63 SQ MI

\*\*\* \*\*

42 KK \*\*\*\*\*
\* \*
\* 3aB \*
\* \*
\*\*\*\*\*

43 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED



TIMINT 0.250 TIME INTERVAL IN HOURS Event.out

SUBBASIN RUNOFF DATA

44 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.43 SUBBASIN AREA

PRECIPITATION DATA

47 PT TOTAL STORM STATIONS Gage  
48 PW WEIGHTS 0.25

45 PR RECORDING STATIONS Gage  
46 PW WEIGHTS 1.00

49 LS SCS LOSS RATE  
STRTL 0.82 INITIAL ABSTRACTION  
CRVNBR 70.96 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

50 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.21 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
0.03	0.02	0.06	0.06	0.06	0.06	0.06	0.12	0.13	0.12	0.12
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37
0.38	0.38	0.25	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
6 END-OF-PERIOD ORDINATES  
10. 3.

520. 412. 117. 34.

HYDROGRAPH AT STATION 3aB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.00	0.00	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.03	0.03	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.03	0.03	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.06	0.06	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.06	0.06	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.06	0.06	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.06	0.06	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.12	0.12	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.13	0.13	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.12	0.12	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.12	0.12	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.06	0.06	0.00	1.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.06	0.06	0.00	3.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.06	0.06	0.01	5.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.06	0.06	0.01	6.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	8.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	10.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	11.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.01	13.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.38	0.27	0.10	61.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.37	0.23	0.14	118.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.38	0.20	0.17	160.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.38	0.18	0.20	193.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.25	0.11	0.14	181.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.25	0.10	0.15	168.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.25	0.09	0.16	170.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.25	0.09	0.16	176.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.06	0.02	0.04	115.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.06	0.02	0.04	66.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.06	0.02	0.04	52.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.06	0.02	0.04	49.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	25.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	7.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	2.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	1.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	0.	*	1	JAN	2345	96	0.00	0.00	0.00	0.

1 JAN 1130	47	0.00	0.00	0.00	0.	Event.out	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	0.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.64, TOTAL EXCESS = 1.46

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)	(CFS)			
+	193.	8.00	67.	17.	16.	16.
		(INCHES)	1.460	1.460	1.460	1.460
		(AC-FT)	33.	33.	33.	33.

CUMULATIVE AREA = 0.43 SQ MI

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\* \*  
51 KK 3bB \*  
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52 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TMINT	0.250	TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

53 BA SUBBASIN CHARACTERISTICS

TAREA,	0.45	SUBBASIN AREA
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PRECIPITATION DATA

56 PT TOTAL STORM STATIONS Gage  
57 PW WEIGHTS 0.25

54 PR RECORDING STATIONS Gage  
55 PW WEIGHTS 1.00

58 LS SCS LOSS RATE

STRTL	0.67	INITIAL ABSTRACTION
CRVNR	74.89	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

59 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.23	LAG
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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	
0.03	0.02	0.06	0.06	0.06	0.06	0.06	0.12	0.13	0.12	0.12	
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37	
0.38	0.38	0.25	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06	

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
7 END-OF-PERIOD ORDINATES

481.	461.	145.	46.	15.	5.	1.
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HYDROGRAPH AT STATION 3bB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.

										Event.out			
1 JAN 0145	8	0.00	0.00	0.00	0.	*	1 JAN 1415	58	0.00	0.00	0.00	0.	
1 JAN 0200	9	0.00	0.00	0.00	0.	*	1 JAN 1430	59	0.00	0.00	0.00	0.	
1 JAN 0215	10	0.03	0.03	0.00	0.	*	1 JAN 1445	60	0.00	0.00	0.00	0.	
1 JAN 0230	11	0.03	0.03	0.00	0.	*	1 JAN 1500	61	0.00	0.00	0.00	0.	
1 JAN 0245	12	0.03	0.03	0.00	0.	*	1 JAN 1515	62	0.00	0.00	0.00	0.	
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.00	0.00	0.00	0.	
1 JAN 0315	14	0.06	0.06	0.00	0.	*	1 JAN 1545	64	0.00	0.00	0.00	0.	
1 JAN 0330	15	0.06	0.06	0.00	0.	*	1 JAN 1600	65	0.00	0.00	0.00	0.	
1 JAN 0345	16	0.06	0.06	0.00	0.	*	1 JAN 1615	66	0.00	0.00	0.00	0.	
1 JAN 0400	17	0.06	0.06	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.	
1 JAN 0415	18	0.12	0.12	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.	
1 JAN 0430	19	0.13	0.13	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.	
1 JAN 0445	20	0.12	0.12	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.	
1 JAN 0500	21	0.12	0.12	0.01	4.	*	1 JAN 1730	71	0.00	0.00	0.00	0.	
1 JAN 0515	22	0.06	0.06	0.01	7.	*	1 JAN 1745	72	0.00	0.00	0.00	0.	
1 JAN 0530	23	0.06	0.05	0.01	9.	*	1 JAN 1800	73	0.00	0.00	0.00	0.	
1 JAN 0545	24	0.06	0.05	0.01	11.	*	1 JAN 1815	74	0.00	0.00	0.00	0.	
1 JAN 0600	25	0.06	0.05	0.01	13.	*	1 JAN 1830	75	0.00	0.00	0.00	0.	
1 JAN 0615	26	0.06	0.05	0.01	15.	*	1 JAN 1845	76	0.00	0.00	0.00	0.	
1 JAN 0630	27	0.06	0.05	0.02	17.	*	1 JAN 1900	77	0.00	0.00	0.00	0.	
1 JAN 0645	28	0.06	0.05	0.02	18.	*	1 JAN 1915	78	0.00	0.00	0.00	0.	
1 JAN 0700	29	0.06	0.04	0.02	20.	*	1 JAN 1930	79	0.00	0.00	0.00	0.	
1 JAN 0715	30	0.38	0.24	0.14	78.	*	1 JAN 1945	80	0.00	0.00	0.00	0.	
1 JAN 0730	31	0.37	0.20	0.17	151.	*	1 JAN 2000	81	0.00	0.00	0.00	0.	
1 JAN 0745	32	0.38	0.17	0.20	200.	*	1 JAN 2015	82	0.00	0.00	0.00	0.	
1 JAN 0800	33	0.38	0.15	0.23	235.	*	1 JAN 2030	83	0.00	0.00	0.00	0.	
1 JAN 0815	34	0.25	0.09	0.16	222.	*	1 JAN 2045	84	0.00	0.00	0.00	0.	
1 JAN 0830	35	0.25	0.08	0.17	202.	*	1 JAN 2100	85	0.00	0.00	0.00	0.	
1 JAN 0845	36	0.25	0.07	0.18	201.	*	1 JAN 2115	86	0.00	0.00	0.00	0.	
1 JAN 0900	37	0.25	0.07	0.18	205.	*	1 JAN 2130	87	0.00	0.00	0.00	0.	
1 JAN 0915	38	0.06	0.02	0.05	143.	*	1 JAN 2145	88	0.00	0.00	0.00	0.	
1 JAN 0930	39	0.06	0.02	0.05	81.	*	1 JAN 2200	89	0.00	0.00	0.00	0.	
1 JAN 0945	40	0.06	0.02	0.05	63.	*	1 JAN 2215	90	0.00	0.00	0.00	0.	
1 JAN 1000	41	0.06	0.02	0.05	57.	*	1 JAN 2230	91	0.00	0.00	0.00	0.	
1 JAN 1015	42	0.00	0.00	0.00	32.	*	1 JAN 2245	92	0.00	0.00	0.00	0.	
1 JAN 1030	43	0.00	0.00	0.00	10.	*	1 JAN 2300	93	0.00	0.00	0.00	0.	
1 JAN 1045	44	0.00	0.00	0.00	3.	*	1 JAN 2315	94	0.00	0.00	0.00	0.	
1 JAN 1100	45	0.00	0.00	0.00	1.	*	1 JAN 2330	95	0.00	0.00	0.00	0.	
1 JAN 1115	46	0.00	0.00	0.00	0.	*	1 JAN 2345	96	0.00	0.00	0.00	0.	
1 JAN 1130	47	0.00	0.00	0.00	0.	*	2 JAN 0000	97	0.00	0.00	0.00	0.	
1 JAN 1145	48	0.00	0.00	0.00	0.	*	2 JAN 0015	98	0.00	0.00	0.00	0.	
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.	
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.	

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TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.37, TOTAL EXCESS = 1.73

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(CFS)	(CFS)	(CFS)
235.	8.00	83.	21.	20.	20.
		(INCHES)	1.731	1.734	1.734
		(AC-FT)	41.	41.	41.

CUMULATIVE AREA = 0.45 SQ MI

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*****
*      *
60 KK  3C *      CNAME  3R
*      *
*****

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61 KO      OUTPUT CONTROL VARIABLES
          IPRT  1  PRINT CONTROL
          IPLOT  0  PLOT CONTROL
          QSCAL  0. HYDROGRAPH PLOT SCALE
          IPNCH  0  PUNCH COMPUTED HYDROGRAPH
          IOUT   22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1  1  FIRST ORDINATE PUNCHED OR SAVED
          ISAV2  100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT 0.250 TIME INTERVAL IN HOURS

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62 HC      HYDROGRAPH COMBINATION
          ICOMP  4  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
SUM OF 4 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	55.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	63.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	70.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	77.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*

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Event.out
1 JAN 0100 5 0. * 1 JAN 0715 30 254. * 1 JAN 1330 55 0. * 1 JAN 1945 80 0.
1 JAN 0115 6 0. * 1 JAN 0730 31 549. * 1 JAN 1345 56 0. * 1 JAN 2000 81 0.
1 JAN 0130 7 0. * 1 JAN 0745 32 779. * 1 JAN 1400 57 0. * 1 JAN 2015 82 0.
1 JAN 0145 8 0. * 1 JAN 0800 33 938. * 1 JAN 1415 58 0. * 1 JAN 2030 83 0.
1 JAN 0200 9 0. * 1 JAN 0815 34 937. * 1 JAN 1430 59 0. * 1 JAN 2045 84 0.
1 JAN 0215 10 0. * 1 JAN 0830 35 853. * 1 JAN 1445 60 0. * 1 JAN 2100 85 0.
1 JAN 0230 11 0. * 1 JAN 0845 36 830. * 1 JAN 1500 61 0. * 1 JAN 2115 86 0.
1 JAN 0245 12 0. * 1 JAN 0900 37 849. * 1 JAN 1515 62 0. * 1 JAN 2130 87 0.
1 JAN 0300 13 0. * 1 JAN 0915 38 658. * 1 JAN 1530 63 0. * 1 JAN 2145 88 0.
1 JAN 0315 14 0. * 1 JAN 0930 39 390. * 1 JAN 1545 64 0. * 1 JAN 2200 89 0.
1 JAN 0330 15 0. * 1 JAN 0945 40 270. * 1 JAN 1600 65 0. * 1 JAN 2215 90 0.
1 JAN 0345 16 0. * 1 JAN 1000 41 241. * 1 JAN 1615 66 0. * 1 JAN 2230 91 0.
1 JAN 0400 17 0. * 1 JAN 1015 42 159. * 1 JAN 1630 67 0. * 1 JAN 2245 92 0.
1 JAN 0415 18 0. * 1 JAN 1030 43 60. * 1 JAN 1645 68 0. * 1 JAN 2300 93 0.
1 JAN 0430 19 0. * 1 JAN 1045 44 16. * 1 JAN 1700 69 0. * 1 JAN 2315 94 0.
1 JAN 0445 20 1. * 1 JAN 1100 45 6. * 1 JAN 1715 70 0. * 1 JAN 2330 95 0.
1 JAN 0500 21 10. * 1 JAN 1115 46 2. * 1 JAN 1730 71 0. * 1 JAN 2345 96 0.
1 JAN 0515 22 23. * 1 JAN 1130 47 0. * 1 JAN 1745 72 0. * 2 JAN 0000 97 0.
1 JAN 0530 23 31. * 1 JAN 1145 48 0. * 1 JAN 1800 73 0. * 2 JAN 0015 98 0.
1 JAN 0545 24 38. * 1 JAN 1200 49 0. * 1 JAN 1815 74 0. * 2 JAN 0030 99 0.
1 JAN 0600 25 47. * 1 JAN 1215 50 0. * 1 JAN 1830 75 0. * 2 JAN 0045 100 0.

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PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)          6-HR      24-HR      72-HR      24.75-HR
+ 938.         8.00          341.      85.       83.       83.
              (INCHES)    1.668    1.670    1.670    1.670
              (AC-FT)    169.     170.     170.     170.

CUMULATIVE AREA = 1.90 SQ MI

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*****
* *
63 KK      3R *      CNAME      3C
* *
*****

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64 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
          IPNCH      0 PUNCH COMPUTED HYDROGRAPH
          IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
          ISAV2      100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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65 RM      MUSKINGUM ROUTING
          NSTPS      2 NUMBER OF SUBREACHES
          AMSKK      0.05 MUSKINGUM K
          X           0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 3R

\*\*\*\*\*

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	53.	1	JAN	1230	51	0.	1	JAN	1845	76	0.
1	JAN	0015	2	0.	1	JAN	0630	27	61.	1	JAN	1245	52	0.	1	JAN	1900	77	0.
1	JAN	0030	3	0.	1	JAN	0645	28	69.	1	JAN	1300	53	0.	1	JAN	1915	78	0.
1	JAN	0045	4	0.	1	JAN	0700	29	76.	1	JAN	1315	54	0.	1	JAN	1930	79	0.
1	JAN	0100	5	0.	1	JAN	0715	30	204.	1	JAN	1330	55	0.	1	JAN	1945	80	0.
1	JAN	0115	6	0.	1	JAN	0730	31	494.	1	JAN	1345	56	0.	1	JAN	2000	81	0.
1	JAN	0130	7	0.	1	JAN	0745	32	747.	1	JAN	1400	57	0.	1	JAN	2015	82	0.
1	JAN	0145	8	0.	1	JAN	0800	33	912.	1	JAN	1415	58	0.	1	JAN	2030	83	0.
1	JAN	0200	9	0.	1	JAN	0815	34	954.	1	JAN	1430	59	0.	1	JAN	2045	84	0.
1	JAN	0215	10	0.	1	JAN	0830	35	867.	1	JAN	1445	60	0.	1	JAN	2100	85	0.
1	JAN	0230	11	0.	1	JAN	0845	36	828.	1	JAN	1500	61	0.	1	JAN	2115	86	0.
1	JAN	0245	12	0.	1	JAN	0900	37	845.	1	JAN	1515	62	0.	1	JAN	2130	87	0.
1	JAN	0300	13	0.	1	JAN	0915	38	716.	1	JAN	1530	63	0.	1	JAN	2145	88	0.
1	JAN	0315	14	0.	1	JAN	0930	39	433.	1	JAN	1545	64	0.	1	JAN	2200	89	0.
1	JAN	0330	15	0.	1	JAN	0945	40	277.	1	JAN	1600	65	0.	1	JAN	2215	90	0.
1	JAN	0345	16	0.	1	JAN	1000	41	245.	1	JAN	1615	66	0.	1	JAN	2230	91	0.
1	JAN	0400	17	0.	1	JAN	1015	42	180.	1	JAN	1630	67	0.	1	JAN	2245	92	0.
1	JAN	0415	18	0.	1	JAN	1030	43	76.	1	JAN	1645	68	0.	1	JAN	2300	93	0.
1	JAN	0430	19	0.	1	JAN	1045	44	18.	1	JAN	1700	69	0.	1	JAN	2315	94	0.
1	JAN	0445	20	1.	1	JAN	1100	45	8.	1	JAN	1715	70	0.	1	JAN	2330	95	0.
1	JAN	0500	21	8.	1	JAN	1115	46	1.	1	JAN	1730	71	0.	1	JAN	2345	96	0.
1	JAN	0515	22	21.	1	JAN	1130	47	1.	1	JAN	1745	72	0.	2	JAN	0000	97	0.
1	JAN	0530	23	30.	1	JAN	1145	48	-1.	1	JAN	1800	73	0.	2	JAN	0015	98	0.

Event.out  
 1 JAN 0545 24 36. \* 1 JAN 1200 49 0. \* 1 JAN 1815 74 0. \* 2 JAN 0030 99 0.  
 1 JAN 0600 25 45. \* 1 JAN 1215 50 0. \* 1 JAN 1830 75 0. \* 2 JAN 0045 100 0.  
 \* \* \* \* \*

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 + (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
 + 954. 8.25 (CFS) 341. 85. 83. 83.  
 (INCHES) 1.668 1.670 1.670 1.670  
 (AC-FT) 169. 170. 170. 170.  
 CUMULATIVE AREA = 1.90 SQ MI

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 \* \*  
 66 KK \* 6B \*  
 \* \*  
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67 KO OUTPUT CONTROL VARIABLES  
 IPRINT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA  
 68 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.25 SUBBASIN AREA

PRECIPITATION DATA  
 71 PT TOTAL STORM STATIONS Gage  
 72 PW WEIGHTS 0.25  
 69 PR RECORDING STATIONS Gage  
 70 PW WEIGHTS 1.00  
 73 LS SCS LOSS RATE  
 STRTL 0.68 INITIAL ABSTRACTION  
 CRVNBR 74.58 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA  
 74 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.20 LAG

\*\*\*

PRECIPITATION STATION DATA  
 STATION TOTAL AVG. ANNUAL WEIGHT  
 Gage 4.10 0.00 0.25

TEMPORAL DISTRIBUTIONS  
 STATION Gage, WEIGHT = 1.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.03 0.03  
 0.03 0.02 0.06 0.06 0.06 0.06 0.12 0.13 0.12 0.12  
 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.38 0.37  
 0.38 0.38 0.25 0.25 0.25 0.25 0.06 0.06 0.06 0.06

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 6 END-OF-PERIOD ORDINATES  
 324. 234. 65. 18. 5. 1.

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HYDROGRAPH AT STATION 6B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.00	0.00	0.00	0.	*
1	JAN	0015	2	0.00	0.00	0.00	0.	*	*	1	JAN	1245	52	0.00	0.00	0.00	0.	*
1	JAN	0030	3	0.00	0.00	0.00	0.	*	*	1	JAN	1300	53	0.00	0.00	0.00	0.	*
1	JAN	0045	4	0.00	0.00	0.00	0.	*	*	1	JAN	1315	54	0.00	0.00	0.00	0.	*
1	JAN	0100	5	0.00	0.00	0.00	0.	*	*	1	JAN	1330	55	0.00	0.00	0.00	0.	*
1	JAN	0115	6	0.00	0.00	0.00	0.	*	*	1	JAN	1345	56	0.00	0.00	0.00	0.	*
1	JAN	0130	7	0.00	0.00	0.00	0.	*	*	1	JAN	1400	57	0.00	0.00	0.00	0.	*
1	JAN	0145	8	0.00	0.00	0.00	0.	*	*	1	JAN	1415	58	0.00	0.00	0.00	0.	*
1	JAN	0200	9	0.00	0.00	0.00	0.	*	*	1	JAN	1430	59	0.00	0.00	0.00	0.	*
1	JAN	0215	10	0.03	0.03	0.00	0.	*	*	1	JAN	1445	60	0.00	0.00	0.00	0.	*
1	JAN	0230	11	0.03	0.03	0.00	0.	*	*	1	JAN	1500	61	0.00	0.00	0.00	0.	*

Event.out												
1 JAN 0245	12	0.03	0.03	0.00	0.	*	1 JAN 1515	62	0.00	0.00	0.00	0.
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.00	0.00	0.00	0.
1 JAN 0315	14	0.06	0.06	0.00	0.	*	1 JAN 1545	64	0.00	0.00	0.00	0.
1 JAN 0330	15	0.06	0.06	0.00	0.	*	1 JAN 1600	65	0.00	0.00	0.00	0.
1 JAN 0345	16	0.06	0.06	0.00	0.	*	1 JAN 1615	66	0.00	0.00	0.00	0.
1 JAN 0400	17	0.06	0.06	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.
1 JAN 0415	18	0.12	0.12	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.
1 JAN 0430	19	0.13	0.13	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.
1 JAN 0445	20	0.12	0.12	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.
1 JAN 0500	21	0.12	0.12	0.01	3.	*	1 JAN 1730	71	0.00	0.00	0.00	0.
1 JAN 0515	22	0.06	0.06	0.01	4.	*	1 JAN 1745	72	0.00	0.00	0.00	0.
1 JAN 0530	23	0.06	0.05	0.01	5.	*	1 JAN 1800	73	0.00	0.00	0.00	0.
1 JAN 0545	24	0.06	0.05	0.01	6.	*	1 JAN 1815	74	0.00	0.00	0.00	0.
1 JAN 0600	25	0.06	0.05	0.01	7.	*	1 JAN 1830	75	0.00	0.00	0.00	0.
1 JAN 0615	26	0.06	0.05	0.01	8.	*	1 JAN 1845	76	0.00	0.00	0.00	0.
1 JAN 0630	27	0.06	0.05	0.02	9.	*	1 JAN 1900	77	0.00	0.00	0.00	0.
1 JAN 0645	28	0.06	0.05	0.02	10.	*	1 JAN 1915	78	0.00	0.00	0.00	0.
1 JAN 0700	29	0.06	0.04	0.02	11.	*	1 JAN 1930	79	0.00	0.00	0.00	0.
1 JAN 0715	30	0.38	0.24	0.13	49.	*	1 JAN 1945	80	0.00	0.00	0.00	0.
1 JAN 0730	31	0.37	0.20	0.17	89.	*	1 JAN 2000	81	0.00	0.00	0.00	0.
1 JAN 0745	32	0.38	0.17	0.20	115.	*	1 JAN 2015	82	0.00	0.00	0.00	0.
1 JAN 0800	33	0.38	0.15	0.22	134.	*	1 JAN 2030	83	0.00	0.00	0.00	0.
1 JAN 0815	34	0.25	0.09	0.16	122.	*	1 JAN 2045	84	0.00	0.00	0.00	0.
1 JAN 0830	35	0.25	0.08	0.17	111.	*	1 JAN 2100	85	0.00	0.00	0.00	0.
1 JAN 0845	36	0.25	0.08	0.17	112.	*	1 JAN 2115	86	0.00	0.00	0.00	0.
1 JAN 0900	37	0.25	0.07	0.18	115.	*	1 JAN 2130	87	0.00	0.00	0.00	0.
1 JAN 0915	38	0.06	0.02	0.05	73.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.06	0.02	0.05	42.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.06	0.02	0.05	33.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.06	0.02	0.05	31.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	15.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	4.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	1.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	0.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	0.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	0.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	0.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.39, TOTAL EXCESS = 1.71

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
134.	8.00	46.	12.	11.	11.	11.
		(INCHES)	1.710	1.712	1.712	1.712
		(AC-FT)	23.	23.	23.	23.
CUMULATIVE AREA =		0.25 SQ MI				

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\*\*\*\*\*  
 75 KK \* 6R \* CNAME 6C  
 \* \*  
 \*\*\*\*\*

76 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

77 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.04 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 6R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 6R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	8.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	9.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	10.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*

		Event.out												
1 JAN 0045	4	0.	*	1 JAN 0700	29	11.	*	1 JAN 1315	54	0.	*	1 JAN 1930	79	0.
1 JAN 0100	5	0.	*	1 JAN 0715	30	40.	*	1 JAN 1330	55	0.	*	1 JAN 1945	80	0.
1 JAN 0115	6	0.	*	1 JAN 0730	31	85.	*	1 JAN 1345	56	0.	*	1 JAN 2000	81	0.
1 JAN 0130	7	0.	*	1 JAN 0745	32	111.	*	1 JAN 1400	57	0.	*	1 JAN 2015	82	0.
1 JAN 0145	8	0.	*	1 JAN 0800	33	132.	*	1 JAN 1415	58	0.	*	1 JAN 2030	83	0.
1 JAN 0200	9	0.	*	1 JAN 0815	34	126.	*	1 JAN 1430	59	0.	*	1 JAN 2045	84	0.
1 JAN 0215	10	0.	*	1 JAN 0830	35	111.	*	1 JAN 1445	60	0.	*	1 JAN 2100	85	0.
1 JAN 0230	11	0.	*	1 JAN 0845	36	112.	*	1 JAN 1500	61	0.	*	1 JAN 2115	86	0.
1 JAN 0245	12	0.	*	1 JAN 0900	37	114.	*	1 JAN 1515	62	0.	*	1 JAN 2130	87	0.
1 JAN 0300	13	0.	*	1 JAN 0915	38	83.	*	1 JAN 1530	63	0.	*	1 JAN 2145	88	0.
1 JAN 0315	14	0.	*	1 JAN 0930	39	43.	*	1 JAN 1545	64	0.	*	1 JAN 2200	89	0.
1 JAN 0330	15	0.	*	1 JAN 0945	40	35.	*	1 JAN 1600	65	0.	*	1 JAN 2215	90	0.
1 JAN 0345	16	0.	*	1 JAN 1000	41	31.	*	1 JAN 1615	66	0.	*	1 JAN 2230	91	0.
1 JAN 0400	17	0.	*	1 JAN 1015	42	19.	*	1 JAN 1630	67	0.	*	1 JAN 2245	92	0.
1 JAN 0415	18	0.	*	1 JAN 1030	43	4.	*	1 JAN 1645	68	0.	*	1 JAN 2300	93	0.
1 JAN 0430	19	0.	*	1 JAN 1045	44	2.	*	1 JAN 1700	69	0.	*	1 JAN 2315	94	0.
1 JAN 0445	20	0.	*	1 JAN 1100	45	0.	*	1 JAN 1715	70	0.	*	1 JAN 2330	95	0.
1 JAN 0500	21	2.	*	1 JAN 1115	46	0.	*	1 JAN 1730	71	0.	*	1 JAN 2345	96	0.
1 JAN 0515	22	4.	*	1 JAN 1130	47	0.	*	1 JAN 1745	72	0.	*	2 JAN 0000	97	0.
1 JAN 0530	23	5.	*	1 JAN 1145	48	0.	*	1 JAN 1800	73	0.	*	2 JAN 0015	98	0.
1 JAN 0545	24	6.	*	1 JAN 1200	49	0.	*	1 JAN 1815	74	0.	*	2 JAN 0030	99	0.
1 JAN 0600	25	7.	*	1 JAN 1215	50	0.	*	1 JAN 1830	75	0.	*	2 JAN 0045	100	0.

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
132.	8.00	46.	12.	11.	11.	
		(INCHES)	1.710	1.712	1.712	1.712
		(AC-FT)	23.	23.	23.	23.

CUMULATIVE AREA = 0.25 SQ MI

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\* \*  
78 KK \* 7bB \*  
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79 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

80 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.27 SUBBASIN AREA

PRECIPITATION DATA

83 FT TOTAL STORM STATIONS Gage  
84 PW WEIGHTS 0.25

81 PR RECORDING STATIONS Gage  
82 PW WEIGHTS 1.00

85 LS SCS LOSS RATE

STRTL	0.65	INITIAL ABSTRACTION
CRVNBR	75.55	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

86 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.00 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	
0.03	0.02	0.06	0.06	0.06	0.06	0.12	0.13	0.12	0.12	
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37	
0.38	0.38	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06	

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
5 END-OF-PERIOD ORDINATES  
519. 145. 29. 6. 0.

HYDROGRAPH AT STATION 7bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.00	0.00	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.03	0.03	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.03	0.03	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.06	0.06	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.06	0.06	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.06	0.06	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.06	0.06	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.12	0.12	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.13	0.13	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.12	0.12	0.00	1.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.12	0.11	0.01	6.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.06	0.05	0.01	6.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.06	0.05	0.01	7.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.06	0.05	0.01	8.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.06	0.05	0.01	9.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.02	10.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.02	11.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.04	0.02	12.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.04	0.02	13.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.38	0.23	0.14	78.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.37	0.19	0.18	115.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.38	0.17	0.21	139.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.38	0.14	0.23	157.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.25	0.08	0.17	127.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.25	0.08	0.17	121.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.25	0.07	0.18	124.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.25	0.07	0.18	127.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.06	0.02	0.05	57.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.06	0.02	0.05	38.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.06	0.02	0.05	34.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.06	0.01	0.05	33.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	9.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	2.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	0.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	0.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	0.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	0.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.32, TOTAL EXCESS = 1.78

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
157.	8.00	52.	13.	13.	13.
	(INCHES)	1.781	1.782	1.782	1.782
	(AC-FT)	26.	26.	26.	26.

CUMULATIVE AREA = 0.27 SQ MI

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87 KK \*\*\*\*\*  
\* 7aB \*  
\* \*  
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88 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA



89 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.57 SUBBASIN AREA

PRECIPITATION DATA

92 PT TOTAL STORM STATIONS Gage  
 93 PW WEIGHTS 0.25

90 PR RECORDING STATIONS Gage  
 91 PW WEIGHTS 1.00

94 LS SCS LOSS RATE  
 STRTL 0.72 INITIAL ABSTRACTION  
 CRVNBR 73.44 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

95 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
0.03	0.02	0.06	0.06	0.06	0.06	0.06	0.06	0.12	0.12	0.12
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37
0.38	0.38	0.25	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 0.

1089. 305. 60. 12.

HYDROGRAPH AT STATION 7aB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.00	0.00	0.00	0.	*
1	JAN	0015	2	0.00	0.00	0.00	0.	*		1	JAN	1245	52	0.00	0.00	0.00	0.	*
1	JAN	0030	3	0.00	0.00	0.00	0.	*		1	JAN	1300	53	0.00	0.00	0.00	0.	*
1	JAN	0045	4	0.00	0.00	0.00	0.	*		1	JAN	1315	54	0.00	0.00	0.00	0.	*
1	JAN	0100	5	0.00	0.00	0.00	0.	*		1	JAN	1330	55	0.00	0.00	0.00	0.	*
1	JAN	0115	6	0.00	0.00	0.00	0.	*		1	JAN	1345	56	0.00	0.00	0.00	0.	*
1	JAN	0130	7	0.00	0.00	0.00	0.	*		1	JAN	1400	57	0.00	0.00	0.00	0.	*
1	JAN	0145	8	0.00	0.00	0.00	0.	*		1	JAN	1415	58	0.00	0.00	0.00	0.	*
1	JAN	0200	9	0.00	0.00	0.00	0.	*		1	JAN	1430	59	0.00	0.00	0.00	0.	*
1	JAN	0215	10	0.03	0.03	0.00	0.	*		1	JAN	1445	60	0.00	0.00	0.00	0.	*
1	JAN	0230	11	0.03	0.03	0.00	0.	*		1	JAN	1500	61	0.00	0.00	0.00	0.	*
1	JAN	0245	12	0.03	0.03	0.00	0.	*		1	JAN	1515	62	0.00	0.00	0.00	0.	*
1	JAN	0300	13	0.02	0.02	0.00	0.	*		1	JAN	1530	63	0.00	0.00	0.00	0.	*
1	JAN	0315	14	0.06	0.06	0.00	0.	*		1	JAN	1545	64	0.00	0.00	0.00	0.	*
1	JAN	0330	15	0.06	0.06	0.00	0.	*		1	JAN	1600	65	0.00	0.00	0.00	0.	*
1	JAN	0345	16	0.06	0.06	0.00	0.	*		1	JAN	1615	66	0.00	0.00	0.00	0.	*
1	JAN	0400	17	0.06	0.06	0.00	0.	*		1	JAN	1630	67	0.00	0.00	0.00	0.	*
1	JAN	0415	18	0.12	0.12	0.00	0.	*		1	JAN	1645	68	0.00	0.00	0.00	0.	*
1	JAN	0430	19	0.13	0.13	0.00	0.	*		1	JAN	1700	69	0.00	0.00	0.00	0.	*
1	JAN	0445	20	0.12	0.12	0.00	0.	*		1	JAN	1715	70	0.00	0.00	0.00	0.	*
1	JAN	0500	21	0.12	0.12	0.00	5.	*		1	JAN	1730	71	0.00	0.00	0.00	0.	*
1	JAN	0515	22	0.06	0.06	0.01	7.	*		1	JAN	1745	72	0.00	0.00	0.00	0.	*
1	JAN	0530	23	0.06	0.06	0.01	9.	*		1	JAN	1800	73	0.00	0.00	0.00	0.	*
1	JAN	0545	24	0.06	0.05	0.01	12.	*		1	JAN	1815	74	0.00	0.00	0.00	0.	*
1	JAN	0600	25	0.06	0.05	0.01	14.	*		1	JAN	1830	75	0.00	0.00	0.00	0.	*
1	JAN	0615	26	0.06	0.05	0.01	17.	*		1	JAN	1845	76	0.00	0.00	0.00	0.	*
1	JAN	0630	27	0.06	0.05	0.01	19.	*		1	JAN	1900	77	0.00	0.00	0.00	0.	*
1	JAN	0645	28	0.06	0.05	0.02	21.	*		1	JAN	1915	78	0.00	0.00	0.00	0.	*
1	JAN	0700	29	0.06	0.05	0.02	23.	*		1	JAN	1930	79	0.00	0.00	0.00	0.	*
1	JAN	0715	30	0.38	0.25	0.12	142.	*		1	JAN	1945	80	0.00	0.00	0.00	0.	*
1	JAN	0730	31	0.37	0.21	0.16	216.	*		1	JAN	2000	81	0.00	0.00	0.00	0.	*
1	JAN	0745	32	0.38	0.18	0.19	266.	*		1	JAN	2015	82	0.00	0.00	0.00	0.	*
1	JAN	0800	33	0.38	0.16	0.22	305.	*		1	JAN	2030	83	0.00	0.00	0.00	0.	*
1	JAN	0815	34	0.25	0.09	0.16	248.	*		1	JAN	2045	84	0.00	0.00	0.00	0.	*
1	JAN	0830	35	0.25	0.09	0.16	240.	*		1	JAN	2100	85	0.00	0.00	0.00	0.	*
1	JAN	0845	36	0.25	0.08	0.17	246.	*		1	JAN	2115	86	0.00	0.00	0.00	0.	*
1	JAN	0900	37	0.25	0.07	0.18	254.	*		1	JAN	2130	87	0.00	0.00	0.00	0.	*
1	JAN	0915	38	0.06	0.02	0.04	114.	*		1	JAN	2145	88	0.00	0.00	0.00	0.	*
1	JAN	0930	39	0.06	0.02	0.05	75.	*		1	JAN	2200	89	0.00	0.00	0.00	0.	*
1	JAN	0945	40	0.06	0.02	0.05	68.	*		1	JAN	2215	90	0.00	0.00	0.00	0.	*
1	JAN	1000	41	0.06	0.02	0.05	67.	*		1	JAN	2230	91	0.00	0.00	0.00	0.	*
1	JAN	1015	42	0.00	0.00	0.00	17.	*		1	JAN	2245	92	0.00	0.00	0.00	0.	*
1	JAN	1030	43	0.00	0.00	0.00	3.	*		1	JAN	2300	93	0.00	0.00	0.00	0.	*
1	JAN	1045	44	0.00	0.00	0.00	1.	*		1	JAN	2315	94	0.00	0.00	0.00	0.	*
1	JAN	1100	45	0.00	0.00	0.00	0.	*		1	JAN	2330	95	0.00	0.00	0.00	0.	*
1	JAN	1115	46	0.00	0.00	0.00	0.	*		1	JAN	2345	96	0.00	0.00	0.00	0.	*
1	JAN	1130	47	0.00	0.00	0.00	0.	*		2	JAN	0000	97	0.00	0.00	0.00	0.	*
1	JAN	1145	48	0.00	0.00	0.00	0.	*		2	JAN	0015	98	0.00	0.00	0.00	0.	*
1	JAN	1200	49	0.00	0.00	0.00	0.	*		2	JAN	0030	99	0.00	0.00	0.00	0.	*
1	JAN	1215	50	0.00	0.00	0.00	0.	*		2	JAN	0045	100	0.00	0.00	0.00	0.	*

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TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.47, TOTAL EXCESS = 1.63

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
+ 305.	8.00	(CFS)	100.	25.	24.	24.
		(INCHES)	1.630	1.630	1.630	1.630
		(AC-FT)	49.	49.	49.	49.

CUMULATIVE AREA = 0.57 SQ MI

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*
96 KK *      7C *      CNAME      7R
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97 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1  PRINT CONTROL
          IPLOT      0  PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
          IPNCH      0  PUNCH COMPUTED HYDROGRAPH
          IOUT      22  SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100  LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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98 HC      HYDROGRAPH COMBINATION
          ICOMP      3  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 7C  
SUM OF 3 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	35.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	40.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	44.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	48.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	260.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	417.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	517.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	594.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	501.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	472.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	482.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	496.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	255.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	155.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	137.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	131.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	45.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	9.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	3.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	1.	*	1	JAN	1100	45	0.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	12.	*	1	JAN	1115	46	0.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	17.	*	1	JAN	1130	47	0.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	21.	*	1	JAN	1145	48	0.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	26.	*	1	JAN	1200	49	0.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	30.	*	1	JAN	1215	50	0.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
+ 594.	8.00	(CFS)	198.	49.	48.	48.
		(INCHES)	1.686	1.687	1.687	1.687
		(AC-FT)	98.	98.	98.	98.

CUMULATIVE AREA = 1.09 SQ MI

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*****
*
99 KK *      7R *      CNAME      7C
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100 KO            OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

101 RM            MUSKINGUM ROUTING

NSTPS	1	NUMBER OF SUBREACHES
AMSKK	0.10	MUSKINGUM K
X	0.20	MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH        7R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION        7R

\*\*\*\*\*

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	33.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	38.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	42.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	46.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	154.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	359.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	478.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	563.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	553.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	476.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	476.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	490.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	377.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	181.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	141.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	133.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	88.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	19.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	4.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	1.	*	1	JAN	1100	45	1.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	7.	*	1	JAN	1115	46	0.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	15.	*	1	JAN	1130	47	0.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	19.	*	1	JAN	1145	48	0.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	24.	*	1	JAN	1200	49	0.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	29.	*	1	JAN	1215	50	0.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

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PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
+	563.	8.00	198.	49.	48.	48.
		(INCHES)	1.686	1.687	1.687	1.687
		(AC-FT)	98.	98.	98.	98.
CUMULATIVE AREA =			1.09 SQ MI			

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102 KK            2bB

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103 KO            OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

104 BA            SUBBASIN CHARACTERISTICS

TAREA,	0.13	SUBBASIN AREA
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PRECIPITATION DATA

Event.out

107 PT TOTAL STORM STATIONS Gage  
108 PW WEIGHTS 0.25

105 PR RECORDING STATIONS Gage  
106 PW WEIGHTS 1.00

109 LS SCS LOSS RATE  
STRTL 0.76 INITIAL ABSTRACTION  
CRVNBR 72.37 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

110 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.00 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
0.03	0.02	0.06	0.06	0.06	0.06	0.06	0.12	0.13	0.12	0.12
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37
0.38	0.38	0.25	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
5 END-OF-PERIOD ORDINATES

240.	67.	13.	3.	0.
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HYDROGRAPH AT STATION 2bb

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.00	0.00	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.03	0.03	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.03	0.03	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.06	0.06	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.06	0.06	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.06	0.06	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.06	0.06	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.12	0.12	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.13	0.13	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.12	0.12	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.12	0.12	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.06	0.06	0.00	1.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.06	0.06	0.01	2.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.06	0.06	0.01	2.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.06	0.05	0.01	3.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	3.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	4.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	4.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.01	5.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.38	0.26	0.12	29.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.37	0.22	0.15	45.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.38	0.19	0.18	56.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.38	0.17	0.21	64.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.25	0.10	0.15	53.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.25	0.09	0.16	51.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.25	0.09	0.16	53.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.25	0.08	0.17	55.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.06	0.02	0.04	25.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.06	0.02	0.04	16.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.06	0.02	0.04	15.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.06	0.02	0.04	14.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	4.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	1.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	0.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	0.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	0.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	0.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.54, TOTAL EXCESS = 1.56

Event.out  
 PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 + (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
 + 64. 8.00 (CFS) 21. 5. 5. 5.  
 (INCHES) 1.556 1.556 1.556 1.556  
 (AC-FT) 10. 10. 10. 10.  
 CUMULATIVE AREA = 0.13 SQ MI

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 \* \*  
 111 KK \* 2aB \*  
 \* \*  
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112 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

113 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.49 SUBBASIN AREA

PRECIPITATION DATA

116 PT TOTAL STORM STATIONS Gage  
 117 PW WEIGHTS 0.25

114 PR RECORDING STATIONS Gage  
 115 PW WEIGHTS 1.00

118 LS SCS LOSS RATE  
 STRTL 0.72 INITIAL ABSTRACTION  
 CRVNBR 73.52 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

119 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
0.03	0.02	0.06	0.06	0.06	0.06	0.06	0.12	0.13	0.12	0.12
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37
0.38	0.38	0.25	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 940. 263. 52. 10. 0.

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HYDROGRAPH AT STATION 2aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.00	0.00	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.03	0.03	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.03	0.03	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.06	0.06	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.06	0.06	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.06	0.06	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.

										Event.out			
1 JAN 0400	17	0.06	0.06	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.	
1 JAN 0415	18	0.12	0.12	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.	
1 JAN 0430	19	0.13	0.13	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.	
1 JAN 0445	20	0.12	0.12	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.	
1 JAN 0500	21	0.12	0.12	0.00	4.	*	1 JAN 1730	71	0.00	0.00	0.00	0.	
1 JAN 0515	22	0.06	0.06	0.01	6.	*	1 JAN 1745	72	0.00	0.00	0.00	0.	
1 JAN 0530	23	0.06	0.06	0.01	8.	*	1 JAN 1800	73	0.00	0.00	0.00	0.	
1 JAN 0545	24	0.06	0.05	0.01	10.	*	1 JAN 1815	74	0.00	0.00	0.00	0.	
1 JAN 0600	25	0.06	0.05	0.01	13.	*	1 JAN 1830	75	0.00	0.00	0.00	0.	
1 JAN 0615	26	0.06	0.05	0.01	15.	*	1 JAN 1845	76	0.00	0.00	0.00	0.	
1 JAN 0630	27	0.06	0.05	0.01	17.	*	1 JAN 1900	77	0.00	0.00	0.00	0.	
1 JAN 0645	28	0.06	0.05	0.02	19.	*	1 JAN 1915	78	0.00	0.00	0.00	0.	
1 JAN 0700	29	0.06	0.05	0.02	20.	*	1 JAN 1930	79	0.00	0.00	0.00	0.	
1 JAN 0715	30	0.38	0.25	0.13	123.	*	1 JAN 1945	80	0.00	0.00	0.00	0.	
1 JAN 0730	31	0.37	0.21	0.16	187.	*	1 JAN 2000	81	0.00	0.00	0.00	0.	
1 JAN 0745	32	0.38	0.18	0.19	231.	*	1 JAN 2015	82	0.00	0.00	0.00	0.	
1 JAN 0800	33	0.38	0.16	0.22	264.	*	1 JAN 2030	83	0.00	0.00	0.00	0.	
1 JAN 0815	34	0.25	0.09	0.16	215.	*	1 JAN 2045	84	0.00	0.00	0.00	0.	
1 JAN 0830	35	0.25	0.09	0.16	207.	*	1 JAN 2100	85	0.00	0.00	0.00	0.	
1 JAN 0845	36	0.25	0.08	0.17	213.	*	1 JAN 2115	86	0.00	0.00	0.00	0.	
1 JAN 0900	37	0.25	0.07	0.18	220.	*	1 JAN 2130	87	0.00	0.00	0.00	0.	
1 JAN 0915	38	0.06	0.02	0.04	99.	*	1 JAN 2145	88	0.00	0.00	0.00	0.	
1 JAN 0930	39	0.06	0.02	0.05	65.	*	1 JAN 2200	89	0.00	0.00	0.00	0.	
1 JAN 0945	40	0.06	0.02	0.05	59.	*	1 JAN 2215	90	0.00	0.00	0.00	0.	
1 JAN 1000	41	0.06	0.02	0.05	58.	*	1 JAN 2230	91	0.00	0.00	0.00	0.	
1 JAN 1015	42	0.00	0.00	0.00	15.	*	1 JAN 2245	92	0.00	0.00	0.00	0.	
1 JAN 1030	43	0.00	0.00	0.00	3.	*	1 JAN 2300	93	0.00	0.00	0.00	0.	
1 JAN 1045	44	0.00	0.00	0.00	0.	*	1 JAN 2315	94	0.00	0.00	0.00	0.	
1 JAN 1100	45	0.00	0.00	0.00	0.	*	1 JAN 2330	95	0.00	0.00	0.00	0.	
1 JAN 1115	46	0.00	0.00	0.00	0.	*	1 JAN 2345	96	0.00	0.00	0.00	0.	
1 JAN 1130	47	0.00	0.00	0.00	0.	*	2 JAN 0000	97	0.00	0.00	0.00	0.	
1 JAN 1145	48	0.00	0.00	0.00	0.	*	2 JAN 0015	98	0.00	0.00	0.00	0.	
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.	
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.	

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TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.46, TOTAL EXCESS = 1.64

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
+	264.	8.00	86.	22.	21.	21.
		(INCHES)	1.636	1.636	1.636	1.636
		(AC-FT)	43.	43.	43.	43.

CUMULATIVE AREA = 0.49 SQ MI

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 \* \*  
 120 KK 2C \* CNAME 2R  
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121 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

122 HC HYDROGRAPH COMBINATION  
 ICOMP 4 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2C  
 SUM OF 4 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	104.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	119.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	134.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	147.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	509.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	1085.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	1511.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	1803.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	1774.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	1602.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1569.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	1609.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1216.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*

DATE	TIME	FLOW (CFS)	FLOW (INCHES)	FLOW (AC-FT)	DATE	TIME	FLOW (CFS)	FLOW (INCHES)	FLOW (AC-FT)	DATE	TIME	FLOW (CFS)	FLOW (INCHES)	FLOW (AC-FT)
1 JAN	0315	14	0.	*	1 JAN	0930	39	696.	*	1 JAN	1545	64	0.	*
1 JAN	0330	15	0.	*	1 JAN	0945	40	491.	*	1 JAN	1600	65	0.	*
1 JAN	0345	16	0.	*	1 JAN	1000	41	450.	*	1 JAN	1615	66	0.	*
1 JAN	0400	17	0.	*	1 JAN	1015	42	286.	*	1 JAN	1630	67	0.	*
1 JAN	0415	18	0.	*	1 JAN	1030	43	99.	*	1 JAN	1645	68	0.	*
1 JAN	0430	19	0.	*	1 JAN	1045	44	23.	*	1 JAN	1700	69	0.	*
1 JAN	0445	20	1.	*	1 JAN	1100	45	9.	*	1 JAN	1715	70	0.	*
1 JAN	0500	21	19.	*	1 JAN	1115	46	1.	*	1 JAN	1730	71	0.	*
1 JAN	0515	22	43.	*	1 JAN	1130	47	1.	*	1 JAN	1745	72	0.	*
1 JAN	0530	23	58.	*	1 JAN	1145	48	-1.	*	1 JAN	1800	73	0.	*
1 JAN	0545	24	73.	*	1 JAN	1200	49	1.	*	1 JAN	1815	74	0.	*
1 JAN	0600	25	89.	*	1 JAN	1215	50	0.	*	1 JAN	1830	75	0.	*

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PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+ (CFS)	(HR)				
+ 1803.	8.00	646.	162.	157.	157.
	(INCHES)	1.665	1.667	1.667	1.667
	(AC-FT)	320.	321.	321.	321.

CUMULATIVE AREA = 3.61 SQ MI

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123 KK * 2R * CNAME 2C
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124 KO OUTPUT CONTROL VARIABLES
      IPRNT 1 PRINT CONTROL
      IPILOT 0 PLOT CONTROL
      QSCAL 0. HYDROGRAPH PLOT SCALE
      IPNCH 0 PUNCH COMPUTED HYDROGRAPH
      IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
      ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
      ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
      TIMINT 0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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125 RM MUSKINGUM ROUTING
      NSTPS 1 NUMBER OF SUBREACHES
      AMSKK 0.14 MUSKINGUM K
      X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 2R

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1 JAN	0000	1	0.	*	1 JAN	0615	26	96.	*	1 JAN	1230	51	0.	*	1 JAN	1845	76	0.	0.
1 JAN	0015	2	0.	*	1 JAN	0630	27	111.	*	1 JAN	1245	52	0.	*	1 JAN	1900	77	0.	0.
1 JAN	0030	3	0.	*	1 JAN	0645	28	126.	*	1 JAN	1300	53	0.	*	1 JAN	1915	78	0.	0.
1 JAN	0045	4	0.	*	1 JAN	0700	29	140.	*	1 JAN	1315	54	0.	*	1 JAN	1930	79	0.	0.
1 JAN	0100	5	0.	*	1 JAN	0715	30	298.	*	1 JAN	1330	55	0.	*	1 JAN	1945	80	0.	0.
1 JAN	0115	6	0.	*	1 JAN	0730	31	761.	*	1 JAN	1345	56	0.	*	1 JAN	2000	81	0.	0.
1 JAN	0130	7	0.	*	1 JAN	0745	32	1281.	*	1 JAN	1400	57	0.	*	1 JAN	2015	82	0.	0.
1 JAN	0145	8	0.	*	1 JAN	0800	33	1646.	*	1 JAN	1415	58	0.	*	1 JAN	2030	83	0.	0.
1 JAN	0200	9	0.	*	1 JAN	0815	34	1801.	*	1 JAN	1430	59	0.	*	1 JAN	2045	84	0.	0.
1 JAN	0215	10	0.	*	1 JAN	0830	35	1701.	*	1 JAN	1445	60	0.	*	1 JAN	2100	85	0.	0.
1 JAN	0230	11	0.	*	1 JAN	0845	36	1582.	*	1 JAN	1500	61	0.	*	1 JAN	2115	86	0.	0.
1 JAN	0245	12	0.	*	1 JAN	0900	37	1585.	*	1 JAN	1515	62	0.	*	1 JAN	2130	87	0.	0.
1 JAN	0300	13	0.	*	1 JAN	0915	38	1448.	*	1 JAN	1530	63	0.	*	1 JAN	2145	88	0.	0.
1 JAN	0315	14	0.	*	1 JAN	0930	39	986.	*	1 JAN	1545	64	0.	*	1 JAN	2200	89	0.	0.
1 JAN	0330	15	0.	*	1 JAN	0945	40	593.	*	1 JAN	1600	65	0.	*	1 JAN	2215	90	0.	0.
1 JAN	0345	16	0.	*	1 JAN	1000	41	468.	*	1 JAN	1615	66	0.	*	1 JAN	2230	91	0.	0.
1 JAN	0400	17	0.	*	1 JAN	1015	42	381.	*	1 JAN	1630	67	0.	*	1 JAN	2245	92	0.	0.
1 JAN	0415	18	0.	*	1 JAN	1030	43	203.	*	1 JAN	1645	68	0.	*	1 JAN	2300	93	0.	0.
1 JAN	0430	19	0.	*	1 JAN	1045	44	61.	*	1 JAN	1700	69	0.	*	1 JAN	2315	94	0.	0.
1 JAN	0445	20	0.	*	1 JAN	1100	45	15.	*	1 JAN	1715	70	0.	*	1 JAN	2330	95	0.	0.
1 JAN	0500	21	9.	*	1 JAN	1115	46	5.	*	1 JAN	1730	71	0.	*	1 JAN	2345	96	0.	0.
1 JAN	0515	22	30.	*	1 JAN	1130	47	1.	*	1 JAN	1745	72	0.	*	2 JAN	0000	97	0.	0.
1 JAN	0530	23	50.	*	1 JAN	1145	48	0.	*	1 JAN	1800	73	0.	*	2 JAN	0015	98	0.	0.
1 JAN	0545	24	65.	*	1 JAN	1200	49	0.	*	1 JAN	1815	74	0.	*	2 JAN	0030	99	0.	0.
1 JAN	0600	25	80.	*	1 JAN	1215	50	0.	*	1 JAN	1830	75	0.	*	2 JAN	0045	100	0.	0.

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PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+ (CFS)	(HR)				
	(CFS)				

+ 1801. 8.25 646. 162. 157. 157.  
 (INCHES) 1.665 1.667 1.667 1.667  
 (AC-FT) 320. 321. 321. 321.

CUMULATIVE AREA = 3.61 SQ MI

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 \* \*  
 126 KK \* 1B \*  
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127 KO OUTPUT CONTROL VARIABLES  
 IPRT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

128 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.56 SUBBASIN AREA

PRECIPITATION DATA

131 PT TOTAL STORM STATIONS Gage  
 132 PW WEIGHTS 0.25

129 PR RECORDING STATIONS Gage  
 130 PW WEIGHTS 1.00

133 LS SCS LOSS RATE  
 STRTL 0.73 INITIAL ABSTRACTION  
 CRVNBR 73.35 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

134 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
0.03	0.02	0.06	0.06	0.06	0.06	0.06	0.12	0.13	0.12	0.12
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37
0.38	0.38	0.25	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 1075. 301. 59. 12. 0.

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HYDROGRAPH AT STATION 1B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.00	0.00	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.03	0.03	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.03	0.03	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.06	0.06	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.06	0.06	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.06	0.06	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.06	0.06	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.12	0.12	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.13	0.13	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.12	0.12	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.



Event.out														
DATE	TIME	INCHES	AC-FT	6-HR	24-HR	72-HR	24.75-HR	DATE	TIME	INCHES	AC-FT			
1 JAN	0500	21	0.12	0.12	0.00	4.	*	1 JAN	1730	71	0.00	0.00	0.00	0.
1 JAN	0515	22	0.06	0.06	0.00	7.	*	1 JAN	1745	72	0.00	0.00	0.00	0.
1 JAN	0530	23	0.06	0.06	0.01	9.	*	1 JAN	1800	73	0.00	0.00	0.00	0.
1 JAN	0545	24	0.06	0.05	0.01	12.	*	1 JAN	1815	74	0.00	0.00	0.00	0.
1 JAN	0600	25	0.06	0.05	0.01	14.	*	1 JAN	1830	75	0.00	0.00	0.00	0.
1 JAN	0615	26	0.06	0.05	0.01	16.	*	1 JAN	1845	76	0.00	0.00	0.00	0.
1 JAN	0630	27	0.06	0.05	0.01	19.	*	1 JAN	1900	77	0.00	0.00	0.00	0.
1 JAN	0645	28	0.06	0.05	0.01	21.	*	1 JAN	1915	78	0.00	0.00	0.00	0.
1 JAN	0700	29	0.06	0.05	0.02	23.	*	1 JAN	1930	79	0.00	0.00	0.00	0.
1 JAN	0715	30	0.38	0.25	0.12	139.	*	1 JAN	1945	80	0.00	0.00	0.00	0.
1 JAN	0730	31	0.37	0.21	0.16	212.	*	1 JAN	2000	81	0.00	0.00	0.00	0.
1 JAN	0745	32	0.38	0.18	0.19	262.	*	1 JAN	2015	82	0.00	0.00	0.00	0.
1 JAN	0800	33	0.38	0.16	0.22	300.	*	1 JAN	2030	83	0.00	0.00	0.00	0.
1 JAN	0815	34	0.25	0.10	0.15	244.	*	1 JAN	2045	84	0.00	0.00	0.00	0.
1 JAN	0830	35	0.25	0.09	0.16	236.	*	1 JAN	2100	85	0.00	0.00	0.00	0.
1 JAN	0845	36	0.25	0.08	0.17	242.	*	1 JAN	2115	86	0.00	0.00	0.00	0.
1 JAN	0900	37	0.25	0.08	0.17	250.	*	1 JAN	2130	87	0.00	0.00	0.00	0.
1 JAN	0915	38	0.06	0.02	0.04	113.	*	1 JAN	2145	88	0.00	0.00	0.00	0.
1 JAN	0930	39	0.06	0.02	0.04	74.	*	1 JAN	2200	89	0.00	0.00	0.00	0.
1 JAN	0945	40	0.06	0.02	0.05	67.	*	1 JAN	2215	90	0.00	0.00	0.00	0.
1 JAN	1000	41	0.06	0.02	0.05	66.	*	1 JAN	2230	91	0.00	0.00	0.00	0.
1 JAN	1015	42	0.00	0.00	0.00	17.	*	1 JAN	2245	92	0.00	0.00	0.00	0.
1 JAN	1030	43	0.00	0.00	0.00	3.	*	1 JAN	2300	93	0.00	0.00	0.00	0.
1 JAN	1045	44	0.00	0.00	0.00	1.	*	1 JAN	2315	94	0.00	0.00	0.00	0.
1 JAN	1100	45	0.00	0.00	0.00	0.	*	1 JAN	2330	95	0.00	0.00	0.00	0.
1 JAN	1115	46	0.00	0.00	0.00	0.	*	1 JAN	2345	96	0.00	0.00	0.00	0.
1 JAN	1130	47	0.00	0.00	0.00	0.	*	2 JAN	0000	97	0.00	0.00	0.00	0.
1 JAN	1145	48	0.00	0.00	0.00	0.	*	2 JAN	0015	98	0.00	0.00	0.00	0.
1 JAN	1200	49	0.00	0.00	0.00	0.	*	2 JAN	0030	99	0.00	0.00	0.00	0.
1 JAN	1215	50	0.00	0.00	0.00	0.	*	2 JAN	0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.48, TOTAL EXCESS = 1.62

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)	(INCHES)	(AC-FT)	(CFS)
+	300.	8.00	98.	24.	24.
+			1.624	1.624	1.624
			49.	49.	49.

CUMULATIVE AREA = 0.56 SQ MI

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\*\*\*\*\*  
 135 KK            1C            CNAME            1C  
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136 KO            OUTPUT CONTROL VARIABLES  
 IPRNT            1    PRINT CONTROL  
 IPLOT            0    PLOT CONTROL  
 QSCAL            0.    HYDROGRAPH PLOT SCALE  
 IPNCH            0    PUNCH COMPUTED HYDROGRAPH  
 IOUT            22    SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1            1    FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2            100    LAST ORDINATE PUNCHED OR SAVED  
 TIMINT            0.250    TIME INTERVAL IN HOURS

137 HC            HYDROGRAPH COMBINATION  
 ICOMP            2    NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 1C  
 SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	112.	1	JAN	1230	51	0.	1	JAN	1845	76	0.
1	JAN	0015	2	0.	1	JAN	0630	27	130.	1	JAN	1245	52	0.	1	JAN	1900	77	0.
1	JAN	0030	3	0.	1	JAN	0645	28	147.	1	JAN	1300	53	0.	1	JAN	1915	78	0.
1	JAN	0045	4	0.	1	JAN	0700	29	163.	1	JAN	1315	54	0.	1	JAN	1930	79	0.
1	JAN	0100	5	0.	1	JAN	0715	30	437.	1	JAN	1330	55	0.	1	JAN	1945	80	0.
1	JAN	0115	6	0.	1	JAN	0730	31	973.	1	JAN	1345	56	0.	1	JAN	2000	81	0.
1	JAN	0130	7	0.	1	JAN	0745	32	1543.	1	JAN	1400	57	0.	1	JAN	2015	82	0.
1	JAN	0145	8	0.	1	JAN	0800	33	1946.	1	JAN	1415	58	0.	1	JAN	2030	83	0.
1	JAN	0200	9	0.	1	JAN	0815	34	2045.	1	JAN	1430	59	0.	1	JAN	2045	84	0.
1	JAN	0215	10	0.	1	JAN	0830	35	1937.	1	JAN	1445	60	0.	1	JAN	2100	85	0.
1	JAN	0230	11	0.	1	JAN	0845	36	1824.	1	JAN	1500	61	0.	1	JAN	2115	86	0.
1	JAN	0245	12	0.	1	JAN	0900	37	1835.	1	JAN	1515	62	0.	1	JAN	2130	87	0.
1	JAN	0300	13	0.	1	JAN	0915	38	1560.	1	JAN	1530	63	0.	1	JAN	2145	88	0.
1	JAN	0315	14	0.	1	JAN	0930	39	1060.	1	JAN	1545	64	0.	1	JAN	2200	89	0.
1	JAN	0330	15	0.	1	JAN	0945	40	660.	1	JAN	1600	65	0.	1	JAN	2215	90	0.
1	JAN	0345	16	0.	1	JAN	1000	41	534.	1	JAN	1615	66	0.	1	JAN	2230	91	0.
1	JAN	0400	17	0.	1	JAN	1015	42	398.	1	JAN	1630	67	0.	1	JAN	2245	92	0.

Event.out

1 JAN 0415	18	0.	*	1 JAN 1030	43	206.	*	1 JAN 1645	68	0.	*	1 JAN 2300	93	0.
1 JAN 0430	19	0.	*	1 JAN 1045	44	62.	*	1 JAN 1700	69	0.	*	1 JAN 2315	94	0.
1 JAN 0445	20	0.	*	1 JAN 1100	45	15.	*	1 JAN 1715	70	0.	*	1 JAN 2330	95	0.
1 JAN 0500	21	13.	*	1 JAN 1115	46	5.	*	1 JAN 1730	71	0.	*	1 JAN 2345	96	0.
1 JAN 0515	22	36.	*	1 JAN 1130	47	1.	*	1 JAN 1745	72	0.	*	2 JAN 0000	97	0.
1 JAN 0530	23	59.	*	1 JAN 1145	48	0.	*	1 JAN 1800	73	0.	*	2 JAN 0015	98	0.
1 JAN 0545	24	76.	*	1 JAN 1200	49	0.	*	1 JAN 1815	74	0.	*	2 JAN 0030	99	0.
1 JAN 0600	25	94.	*	1 JAN 1215	50	0.	*	1 JAN 1830	75	0.	*	2 JAN 0045	100	0.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
2045.	8.25	744.	186.	181.	181.
		(INCHES)	1.659	1.661	1.661
		(AC-FT)	369.	369.	369.

CUMULATIVE AREA = 4.17 SQ MI

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*****
*           *
138 KK      *      1C      *      CNAME      1C
*           *
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139 KO      OUTPUT CONTROL VARIABLES
            IPRNT      1      PRINT CONTROL
            IPLOT      0      PLOT CONTROL
            QSCAL      0.    HYDROGRAPH PLOT SCALE
            IPNCH      0      PUNCH COMPUTED HYDROGRAPH
            IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250  TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

140 RN NO ROUTING

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HYDROGRAPH AT STATION 1C

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN 0000	1	0.	*	1 JAN 0615	26	112.	*	1 JAN 1230	51	0.	*	1 JAN 1845	76	0.									
1 JAN 0015	2	0.	*	1 JAN 0630	27	130.	*	1 JAN 1245	52	0.	*	1 JAN 1900	77	0.									
1 JAN 0030	3	0.	*	1 JAN 0645	28	147.	*	1 JAN 1300	53	0.	*	1 JAN 1915	78	0.									
1 JAN 0045	4	0.	*	1 JAN 0700	29	163.	*	1 JAN 1315	54	0.	*	1 JAN 1930	79	0.									
1 JAN 0100	5	0.	*	1 JAN 0715	30	437.	*	1 JAN 1330	55	0.	*	1 JAN 1945	80	0.									
1 JAN 0115	6	0.	*	1 JAN 0730	31	973.	*	1 JAN 1345	56	0.	*	1 JAN 2000	81	0.									
1 JAN 0130	7	0.	*	1 JAN 0745	32	1543.	*	1 JAN 1400	57	0.	*	1 JAN 2015	82	0.									
1 JAN 0145	8	0.	*	1 JAN 0800	33	1946.	*	1 JAN 1415	58	0.	*	1 JAN 2030	83	0.									
1 JAN 0200	9	0.	*	1 JAN 0815	34	2045.	*	1 JAN 1430	59	0.	*	1 JAN 2045	84	0.									
1 JAN 0215	10	0.	*	1 JAN 0830	35	1937.	*	1 JAN 1445	60	0.	*	1 JAN 2100	85	0.									
1 JAN 0230	11	0.	*	1 JAN 0845	36	1824.	*	1 JAN 1500	61	0.	*	1 JAN 2115	86	0.									
1 JAN 0245	12	0.	*	1 JAN 0900	37	1835.	*	1 JAN 1515	62	0.	*	1 JAN 2130	87	0.									
1 JAN 0300	13	0.	*	1 JAN 0915	38	1560.	*	1 JAN 1530	63	0.	*	1 JAN 2145	88	0.									
1 JAN 0315	14	0.	*	1 JAN 0930	39	1060.	*	1 JAN 1545	64	0.	*	1 JAN 2200	89	0.									
1 JAN 0330	15	0.	*	1 JAN 0945	40	660.	*	1 JAN 1600	65	0.	*	1 JAN 2215	90	0.									
1 JAN 0345	16	0.	*	1 JAN 1000	41	534.	*	1 JAN 1615	66	0.	*	1 JAN 2230	91	0.									
1 JAN 0400	17	0.	*	1 JAN 1015	42	398.	*	1 JAN 1630	67	0.	*	1 JAN 2245	92	0.									
1 JAN 0415	18	0.	*	1 JAN 1030	43	206.	*	1 JAN 1645	68	0.	*	1 JAN 2300	93	0.									
1 JAN 0430	19	0.	*	1 JAN 1045	44	62.	*	1 JAN 1700	69	0.	*	1 JAN 2315	94	0.									
1 JAN 0445	20	0.	*	1 JAN 1100	45	15.	*	1 JAN 1715	70	0.	*	1 JAN 2330	95	0.									
1 JAN 0500	21	13.	*	1 JAN 1115	46	5.	*	1 JAN 1730	71	0.	*	1 JAN 2345	96	0.									
1 JAN 0515	22	36.	*	1 JAN 1130	47	1.	*	1 JAN 1745	72	0.	*	2 JAN 0000	97	0.									
1 JAN 0530	23	59.	*	1 JAN 1145	48	0.	*	1 JAN 1800	73	0.	*	2 JAN 0015	98	0.									
1 JAN 0545	24	76.	*	1 JAN 1200	49	0.	*	1 JAN 1815	74	0.	*	2 JAN 0030	99	0.									
1 JAN 0600	25	94.	*	1 JAN 1215	50	0.	*	1 JAN 1830	75	0.	*	2 JAN 0045	100	0.									

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
2045.	8.25	744.	186.	181.	181.
		(INCHES)	1.659	1.661	1.661
		(AC-FT)	369.	369.	369.

CUMULATIVE AREA = 4.17 SQ MI

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND

	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	Event.out TIME IN HOURS, AREA IN SQUARE MILES			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					AVERAGE FLOW FOR MAXIMUM PERIOD					
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT	4B	203.	8.00	73.	18.	18.	0.40		
+	ROUTED TO	4R	203.	8.25	73.	18.	18.	0.40		
+	HYDROGRAPH AT	5B	338.	8.00	118.	30.	29.	0.63		
+	ROUTED TO	5R	330.	8.25	118.	30.	29.	0.63		
+	HYDROGRAPH AT	3aB	193.	8.00	67.	17.	16.	0.43		
+	HYDROGRAPH AT	3bB	235.	8.00	83.	21.	20.	0.45		
+	4 COMBINED AT	3C	938.	8.00	341.	85.	83.	1.90		
+	ROUTED TO	3R	954.	8.25	341.	85.	83.	1.90		
+	HYDROGRAPH AT	6B	134.	8.00	46.	12.	11.	0.25		
+	ROUTED TO	6R	132.	8.00	46.	12.	11.	0.25		
+	HYDROGRAPH AT	7bB	157.	8.00	52.	13.	13.	0.27		
+	HYDROGRAPH AT	7aB	305.	8.00	100.	25.	24.	0.57		
+	3 COMBINED AT	7C	594.	8.00	198.	49.	48.	1.09		
+	ROUTED TO	7R	563.	8.00	198.	49.	48.	1.09		
+	HYDROGRAPH AT	2bB	64.	8.00	21.	5.	5.	0.13		
+	HYDROGRAPH AT	2aB	264.	8.00	86.	22.	21.	0.49		
+	4 COMBINED AT	2C	1803.	8.00	646.	162.	157.	3.61		
+	ROUTED TO	2R	1801.	8.25	646.	162.	157.	3.61		
+	HYDROGRAPH AT	1B	300.	8.00	98.	24.	24.	0.56		
+	2 COMBINED AT	1C	2045.	8.25	744.	186.	181.	4.17		
+	ROUTED TO	1C	2045.	8.25	744.	186.	181.	4.17		

\*\*\* NORMAL END OF HEC-1 \*\*\*

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1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
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*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HECL (JAN 73), HECLGS, HECLDB, AND HECLKW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION

NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID Scrabble Creek
2 ID w Mining & w Logging (Scenario 1), LIDAR Data
3 ID 25 yr Storm
*DIAGRAM
4 IT 15 1JAN94 0 100
5 IO 1
6 KK 4B
7 KO 0 0 0.0 1 22
8 BA 0.4012
9 PB 4.75
10 IN 6 1JAN94 0
* typeII-24hour
11 PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
12 PC 0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
13 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
14 PC 0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
15 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
16 PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
17 PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
18 PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
19 PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
20 PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
21 PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
22 PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
23 PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
24 PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
25 PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
26 PC 0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
27 PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
28 PC 0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
29 PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
30 PC 0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
31 PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
32 PC 0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
33 PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
34 PC 0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
35 PC 1.0
36 LS 0.0 74.37 0.0
37 UD 0.2578
38 KK 4R CNAME 4C
39 KO 0 0 0.0 0 22
40 RM 1 0.097 0.2
41 KK 5B
42 KO 0 0 0.0 1 22
43 BA 0.6299
44 PB 4.75
45 IN 6 1JAN94 0
* typeII-24hour
46 PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
47 PC 0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
48 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
49 PC 0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466

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HEC-1 INPUT

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
50 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614

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25yr.out

140	KK	3C	CNAME	3R		
141	KO	0	0	0.0	0	22
142	HC	4				
143	KK	3R	CNAME	3C		
144	KO	0	0	0.0	0	22
145	RM	2	0.045	0.2		
146	KK	6B				
147	KO	0	0	0.0	1	22
148	BA	0.2511				
149	PB	4.75				
150	IN	6	1JAN94	0		
	* typeII-24hour					

HEC-1 INPUT

PAGE 4

LINE	ID	1	2	3	4	5	6	7	8	9	10
151	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
152	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
153	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
154	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
155	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
156	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
157	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
158	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
159	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
160	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
161	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
162	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
163	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
164	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
165	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
166	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
167	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
168	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
169	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
170	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
171	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
172	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
173	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
174	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
175	PC	1.0									
176	LS	0.0	74.58	0.0							
177	UD	0.2017									

178	KK	6R	CNAME	6C		
179	KO	0	0	0.0	0	22
180	RM	1	0.037	0.2		
181	KK	7bB				
182	KO	0	0	0.0	1	22
183	BA	0.2705				
184	PB	4.75				
185	IN	6	1JAN94	0		
	* typeII-24hour					

186	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
187	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
188	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
189	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
190	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
191	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
192	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
193	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
194	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
195	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
196	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
197	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
198	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
199	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
200	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
201	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
202	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997

HEC-1 INPUT

PAGE 5

LINE	ID	1	2	3	4	5	6	7	8	9	10	
203	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
204	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
205	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
206	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
207	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
208	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
209	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
210	PC	1.0										
211	LS	0.0	75.55	0.0								
212	UD	0.0										
213	KK	7aB										
214	KO	0	0	0.0	1	22						
215	BA	0.5681										
216	PB	4.75										
217	IN	6	1JAN94	0								
	* typeII-24hour											
218	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094	
219	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	

25yr.out											
220	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
221	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
222	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
223	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
224	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
225	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
226	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
227	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
228	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
229	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
230	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
231	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
232	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
233	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
234	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
235	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
236	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
237	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
238	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
239	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
240	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
241	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
242	PC	1.0									
243	LS	0.0	73.44	0.0							
244	UD	0.0									

245	KK	7C	CNAME	7R							
246	KO	0	0	0.0	0	22					
247	HC	3									
248	KK	7R	CNAME	7C							
249	KO	0	0	0.0	0	22					
250	RM	1	0.105	0.2							

HEC-1 INPUT

PAGE 6

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

251	KK	2bB									
252	KO	0	0	0.0	1	22					
253	BA	0.1252									
254	PB	4.75									
255	IN	6	1JAN94	0							
		* typeII-24hour									
256	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
257	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
258	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
259	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
260	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
261	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
262	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
263	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
264	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
265	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
266	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
267	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
268	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
269	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
270	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
271	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
272	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
273	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
274	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
275	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
276	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
277	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
278	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
279	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
280	PC	1.0									
281	LS	0.0	72.37	0.0							
282	UD	0.0									

283	KK	2aB									
284	KO	0	0	0.0	1	22					
285	BA	0.49									
286	PB	4.75									
287	IN	6	1JAN94	0							
		* typeII-24hour									
288	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
289	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
290	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
291	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
292	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
293	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
294	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
295	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
296	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
297	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
298	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
299	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
300	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
301	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162

HEC-1 INPUT

PAGE 7

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

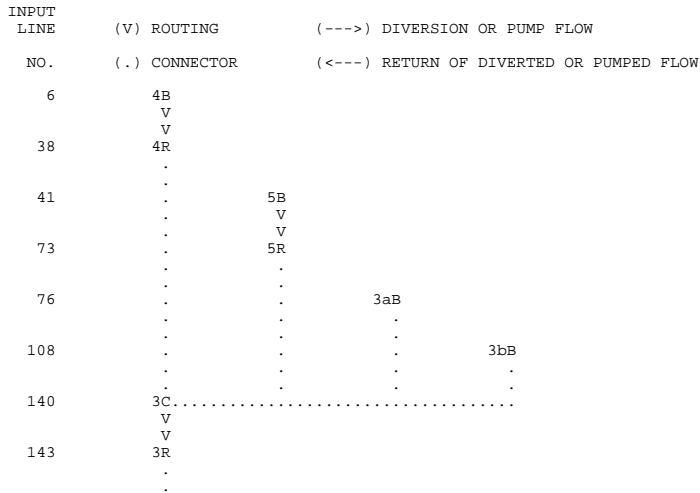
302	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
-----	----	------	--------	--------	--------	--------	--------	--------	--------	--------	--------

25yr.out											
303	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
304	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
305	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
306	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
307	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
308	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
309	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
310	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
311	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
312	PC	1.0									
313	LS	0.0	73.52	0.0							
314	UD	0.0									
315	KK	2C	CNAME	2R							
316	KO	0	0	0.0	0	22					
317	HC	4									
318	KK	2R	CNAME	2C							
319	KO	0	0	0.0	0	22					
320	RM	1	0.138	0.2							
321	KK	1B									
322	KO	0	0	0.0	1	22					
323	BA	0.5606									
324	PB	4.75									
325	IN	6	1JAN94	0							
	*	typeII-24hour									
326	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
327	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
328	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
329	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
330	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
331	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
332	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
333	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
334	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
335	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
336	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
337	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
338	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
339	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
340	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
341	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
342	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
343	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
344	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
345	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
346	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
347	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
348	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
349	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
350	PC	1.0									
351	LS	0.0	73.35	0.0							
352	UD	0.0									

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
353	KK	1C	CNAME	1C							
354	KO	0	0	0.0	0	22					
355	HC	2									
356	KK	1C	CNAME	1C							
357	KO	0	0	0.0	0	22					
358	RN	1C									
359	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK





```

146      .      6B
      .      V
      .      V
178      .      6R
      .      .
      .      .
181      .      .      7bB
      .      .      .
213      .      .      .      7aB
      .      .      .      .
      .      .      .      .
245      .      7C.....
      .      V
      .      V
248      .      7R
      .      .
      .      .
251      .      .      2bB
      .      .      .
      .      .      .
283      .      .      .      2aB
      .      .      .      .
      .      .      .      .
315      2C.....
      .      V
      .      V
318      2R
      .      .
      .      .
321      .      1B
      .      .
      .      .
353      1C.....
      .      V
      .      V
356      1C

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE TIME *
*
*****

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*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
*
*****

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Scrabble Creek  
w Mining & w Logging (Scenario 1), LIDAR Data  
25 yr Storm

```

5 IO      OUTPUT CONTROL VARIABLES
      IPRNT      1      PRINT CONTROL
      IPLOT      0      PLOT CONTROL
      QSCAL      0.      HYDROGRAPH PLOT SCALE

IT      HYDROGRAPH TIME DATA
      NMIN      15      MINUTES IN COMPUTATION INTERVAL
      IDATE      1JAN94      STARTING DATE
      ITIME      0000      STARTING TIME
      NQ,      100      NUMBER OF HYDROGRAPH ORDINATES
      NDDATE      2JAN94      ENDING DATE
      NDTIME      0045      ENDING TIME
      ICENT      19      CENTURY MARK

      COMPUTATION INTERVAL      0.25 HOURS
      TOTAL TIME BASE      24.75 HOURS

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ENGLISH UNITS
DRAINAGE AREA      SQUARE MILES
PRECIPITATION DEPTH      INCHES
LENGTH, ELEVATION      FEET
FLOW      CUBIC FEET PER SECOND
STORAGE VOLUME      ACRE-FEET
SURFACE AREA      ACRES
TEMPERATURE      DEGREES FAHRENHEIT

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\*\*\*\*\*

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*****
*
*      4B *
*      *
*****

```

```

7 KO      OUTPUT CONTROL VARIABLES
      IPRNT      1      PRINT CONTROL
      IPLOT      0      PLOT CONTROL
      QSCAL      0.      HYDROGRAPH PLOT SCALE
      IPNCH      1      PUNCH COMPUTED HYDROGRAPH

```

25yr.out

IOUT            22    SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1           1    FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2           100    LAST ORDINATE PUNCHED OR SAVED  
 TIMINT          0.250    TIME INTERVAL IN HOURS

10 IN            TIME DATA FOR INPUT TIME SERIES  
                   JXMIN            6    TIME INTERVAL IN MINUTES  
                   JXDATE          1JAN94    STARTING DATE  
                   JXTIME            0    STARTING TIME

SUBBASIN RUNOFF DATA

8 BA            SUBBASIN CHARACTERISTICS  
                   TAREA,            0.40    SUBBASIN AREA

PRECIPITATION DATA

9 PB            STORM            4.75    BASIN TOTAL PRECIPITATION

11 PI            INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03				
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

36 LS            SCS LOSS RATE  
                   STRTL            0.69    INITIAL ABSTRACTION  
                   CRVNBR          74.37    CURVE NUMBER  
                   RTIMP            0.00    PERCENT IMPERVIOUS AREA

37 UD            SCS DIMENSIONLESS UNITGRAPH  
                   TLAG            0.26    LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 7 END-OF-PERIOD ORDINATES

375.	430.	151.	53.	18.	6.	2.
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HYDROGRAPH AT STATION            4B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.04	0.10	215.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.10	0.03	0.07	129.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.02	0.06	86.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.05	65.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	53.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.01	0.04	46.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	40.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	36.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	33.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	31.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	30.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.03	28.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	27.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	25.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	24.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	22.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	21.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	21.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	20.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	19.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	19.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	18.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	18.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.00	0.02	17.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	17.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.01	16.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.01	15.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.01	15.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	14.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	14.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	13.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	13.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	12.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	12.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	12.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	12.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	12.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	12.
1	JAN	0930	39	0.04	0.04	0.00	1.	*	1	JAN	2200	89	0.01	0.00	0.01	12.
1	JAN	0945	40	0.04	0.04	0.00	2.	*	1	JAN	2215	90	0.01	0.00	0.01	12.
1	JAN	1000	41	0.05	0.04	0.00	3.	*	1	JAN	2230	91	0.01	0.00	0.01	11.
1	JAN	1015	42	0.05	0.05	0.01	4.	*	1	JAN	2245	92	0.01	0.00	0.01	11.
1	JAN	1030	43	0.06	0.05	0.01	6.	*	1	JAN	2300	93	0.01	0.00	0.01	11.

										25yr.out			
1 JAN 1045	44	0.07	0.06	0.01	8.	*	1 JAN 2315	94	0.01	0.00	0.01	11.	
1 JAN 1100	45	0.08	0.06	0.02	12.	*	1 JAN 2330	95	0.01	0.00	0.01	11.	
1 JAN 1115	46	0.10	0.08	0.02	17.	*	1 JAN 2345	96	0.01	0.00	0.01	11.	
1 JAN 1130	47	0.13	0.09	0.03	26.	*	2 JAN 0000	97	0.01	0.00	0.01	11.	
1 JAN 1145	48	0.52	0.33	0.19	92.	*	2 JAN 0015	98	0.00	0.00	0.00	7.	
1 JAN 1200	49	1.28	0.56	0.73	362.	*	2 JAN 0030	99	0.00	0.00	0.00	2.	
1 JAN 1215	50	0.20	0.07	0.14	395.	*	2 JAN 0045	100	0.00	0.00	0.00	1.	

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.55, TOTAL EXCESS = 2.20

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
395.	12.25	77.	24.	23.	23.
		(INCHES)	1.783	2.196	2.196
		(AC-FT)	38.	47.	47.

CUMULATIVE AREA = 0.40 SQ MI

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\*\*\*\*\*  
 \* \*  
 38 KK \* 4R \* CNAME 4C  
 \* \*  
 \*\*\*\*\*

39 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

40 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.10 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 4R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1845	76	16.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1900	77	16.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1915	78	15.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1930	79	15.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1945	80	14.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	2000	81	14.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	2015	82	13.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	2030	83	13.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	2045	84	12.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	2100	85	12.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	2115	86	12.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	2130	87	12.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	0.	*	1	JAN	2145	88	12.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	1.	*	1	JAN	2200	89	12.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	1.	*	1	JAN	2215	90	12.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	2.	*	1	JAN	2230	91	12.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	3.	*	1	JAN	2245	92	11.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	5.	*	1	JAN	2300	93	11.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	7.	*	1	JAN	2315	94	11.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	10.	*	1	JAN	2330	95	11.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	15.	*	1	JAN	2345	96	11.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	22.	*	2	JAN	0000	97	11.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	61.	*	2	JAN	0015	98	9.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	240.	*	2	JAN	0030	99	4.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	408.	*	2	JAN	0045	100	1.	*

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
408.	12.25	77.	24.	23.	23.
		(INCHES)	1.782	2.195	2.195
		(AC-FT)	38.	47.	47.

CUMULATIVE AREA = 0.40 SQ MI

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\* \*
41 KK \* 5B \*
\* \*
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42 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

45 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 6 TIME INTERVAL IN MINUTES
JXDATE 1JAN94 STARTING DATE
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

43 BA SUBBASIN CHARACTERISTICS
TAREA, 0.63 SUBBASIN AREA

PRECIPITATION DATA

44 PB STORM 4.75 BASIN TOTAL PRECIPITATION

46 PI INCREMENTAL PRECIPITATION PATTERN
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

71 LS SCS LOSS RATE
STRTL 0.66 INITIAL ABSTRACTION
CRVNBR 75.11 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

72 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.22 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH
6 END-OF-PERIOD ORDINATES
731. 629. 186. 57. 17. 6.

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HYDROGRAPH AT STATION 5B

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Table with 14 columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and 14 columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q. Rows include data for various dates from 1 JAN 0000 to 1 JAN 0530.

25yr.out												
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.00	0.02	27.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.00	0.02	26.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.00	0.02	26.
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.01	24.
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.01	24.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	23.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	22.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	21.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	20.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	20.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	19.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	19.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	19.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	19.
1 JAN 0915	38	0.04	0.04	0.00	1.	*	1 JAN 2145	88	0.01	0.00	0.01	19.
1 JAN 0930	39	0.04	0.04	0.00	2.	*	1 JAN 2200	89	0.01	0.00	0.01	19.
1 JAN 0945	40	0.04	0.04	0.00	4.	*	1 JAN 2215	90	0.01	0.00	0.01	18.
1 JAN 1000	41	0.05	0.04	0.00	6.	*	1 JAN 2230	91	0.01	0.00	0.01	18.
1 JAN 1015	42	0.05	0.05	0.01	8.	*	1 JAN 2245	92	0.01	0.00	0.01	18.
1 JAN 1030	43	0.06	0.05	0.01	11.	*	1 JAN 2300	93	0.01	0.00	0.01	18.
1 JAN 1045	44	0.07	0.06	0.01	16.	*	1 JAN 2315	94	0.01	0.00	0.01	18.
1 JAN 1100	45	0.08	0.06	0.02	22.	*	1 JAN 2330	95	0.01	0.00	0.01	17.
1 JAN 1115	46	0.10	0.08	0.02	31.	*	1 JAN 2345	96	0.01	0.00	0.01	17.
1 JAN 1130	47	0.13	0.09	0.04	47.	*	2 JAN 0000	97	0.01	0.00	0.01	17.
1 JAN 1145	48	0.52	0.32	0.20	178.	*	2 JAN 0015	98	0.00	0.00	0.00	9.
1 JAN 1200	49	1.28	0.54	0.75	682.	*	2 JAN 0030	99	0.00	0.00	0.00	3.
1 JAN 1215	50	0.20	0.06	0.14	611.	*	2 JAN 0045	100	0.00	0.00	0.00	1.

\*\*\*\*\*

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.49, TOTAL EXCESS = 2.26

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
682.	12.00	124.	38.	37.	37.	
		(INCHES)	1.832	2.257	2.257	2.257
		(AC-FT)	62.	76.	76.	76.

CUMULATIVE AREA = 0.63 SQ MI

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*****
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73 KK *      5R *      CNAME      5C
*      *
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74 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPILOT     0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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75 RM      MUSKINGUM ROUTING
          NSTPS      1      NUMBER OF SUBREACHES
          AMSKK     0.10    MUSKINGUM K
          X          0.20    MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 5R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	441.	*	1	JAN	1845	76	26.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	218.	*	1	JAN	1900	77	25.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	146.	*	1	JAN	1915	78	24.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	107.	*	1	JAN	1930	79	23.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	87.	*	1	JAN	1945	80	22.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	74.	*	1	JAN	2000	81	21.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	66.	*	1	JAN	2015	82	20.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	59.	*	1	JAN	2030	83	20.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	54.	*	1	JAN	2045	84	19.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	50.	*	1	JAN	2100	85	19.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	48.	*	1	JAN	2115	86	19.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	45.	*	1	JAN	2130	87	19.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1.	*	1	JAN	1530	63	43.	*	1	JAN	2145	88	19.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2.	*	1	JAN	1545	64	41.	*	1	JAN	2200	89	19.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	3.	*	1	JAN	1600	65	38.	*	1	JAN	2215	90	19.	*

25yr.out

1 JAN 0345	16	0.	*	1 JAN 1000	41	5.	*	1 JAN 1615	66	36.	*	1 JAN 2230	91	18.
1 JAN 0400	17	0.	*	1 JAN 1015	42	7.	*	1 JAN 1630	67	34.	*	1 JAN 2245	92	18.
1 JAN 0415	18	0.	*	1 JAN 1030	43	10.	*	1 JAN 1645	68	33.	*	1 JAN 2300	93	18.
1 JAN 0430	19	0.	*	1 JAN 1045	44	14.	*	1 JAN 1700	69	32.	*	1 JAN 2315	94	18.
1 JAN 0445	20	0.	*	1 JAN 1100	45	19.	*	1 JAN 1715	70	31.	*	1 JAN 2330	95	18.
1 JAN 0500	21	0.	*	1 JAN 1115	46	27.	*	1 JAN 1730	71	30.	*	1 JAN 2345	96	17.
1 JAN 0515	22	0.	*	1 JAN 1130	47	40.	*	1 JAN 1745	72	29.	*	2 JAN 0000	97	17.
1 JAN 0530	23	0.	*	1 JAN 1145	48	114.	*	1 JAN 1800	73	29.	*	2 JAN 0015	98	13.
1 JAN 0545	24	0.	*	1 JAN 1200	49	446.	*	1 JAN 1815	74	28.	*	2 JAN 0030	99	5.
1 JAN 0600	25	0.	*	1 JAN 1215	50	696.	*	1 JAN 1830	75	27.	*	2 JAN 0045	100	1.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
696.	12.25	124.	124.	38.	37.	37.
		(INCHES)	1.831	2.256	2.256	2.256
		(AC-FT)	62.	76.	76.	76.

CUMULATIVE AREA = 0.63 SQ MI

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 \* \*  
 76 KK \* 3aB \*  
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77 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

80 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

78 BA SUBBASIN CHARACTERISTICS

TAREA,	0.43	SUBBASIN AREA
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PRECIPITATION DATA

79 PB STORM 4.75 BASIN TOTAL PRECIPITATION

81 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.01	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

106 LS SCS LOSS RATE

STRTL	0.82	INITIAL ABSTRACTION
CRVNR	70.96	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

107 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.21	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 6 END-OF-PERIOD ORDINATES

520.	412.	117.	34.	10.	3.
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HYDROGRAPH AT STATION 3aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN	0000	1	0.00	0.00	0.00	0.00	0.	*	1 JAN	1230	51	0.14	0.05	0.09	176.	
1 JAN	0015	2	0.01	0.01	0.00	0.	*	*	1 JAN	1245	52	0.10	0.03	0.06	105.	
1 JAN	0030	3	0.01	0.01	0.00	0.	*	*	1 JAN	1300	53	0.08	0.03	0.05	74.	

										25yr.out				
1 JAN 0045	4	0.01	0.01	0.00	0.	*	1 JAN 1315	54	0.07	0.02	0.04	58.		
1 JAN 0100	5	0.01	0.01	0.00	0.	*	1 JAN 1330	55	0.06	0.02	0.04	49.		
1 JAN 0115	6	0.01	0.01	0.00	0.	*	1 JAN 1345	56	0.05	0.02	0.04	43.		
1 JAN 0130	7	0.01	0.01	0.00	0.	*	1 JAN 1400	57	0.05	0.02	0.03	38.		
1 JAN 0145	8	0.01	0.01	0.00	0.	*	1 JAN 1415	58	0.04	0.01	0.03	34.		
1 JAN 0200	9	0.01	0.01	0.00	0.	*	1 JAN 1430	59	0.04	0.01	0.03	32.		
1 JAN 0215	10	0.01	0.01	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	30.		
1 JAN 0230	11	0.01	0.01	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	29.		
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.03	0.01	0.02	27.		
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.03	0.01	0.02	26.		
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.03	0.01	0.02	24.		
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	23.		
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	21.		
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	21.		
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	20.		
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.02	0.01	0.02	20.		
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.02	0.01	0.02	19.		
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.02	0.01	0.02	18.		
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.02	0.01	0.02	18.		
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	17.		
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.01	17.		
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.01	16.		
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.01	16.		
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.01	0.01	15.		
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.01	0.01	15.		
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	14.		
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	14.		
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	13.		
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	13.		
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	12.		
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	12.		
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	12.		
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	12.		
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	12.		
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	12.		
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	12.		
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	12.		
1 JAN 1000	41	0.05	0.04	0.00	0.	*	1 JAN 2230	91	0.01	0.00	0.01	11.		
1 JAN 1015	42	0.05	0.05	0.00	1.	*	1 JAN 2245	92	0.01	0.00	0.01	11.		
1 JAN 1030	43	0.06	0.05	0.00	2.	*	1 JAN 2300	93	0.01	0.00	0.01	11.		
1 JAN 1045	44	0.07	0.06	0.01	5.	*	1 JAN 2315	94	0.01	0.00	0.01	11.		
1 JAN 1100	45	0.08	0.07	0.01	8.	*	1 JAN 2330	95	0.01	0.00	0.01	11.		
1 JAN 1115	46	0.10	0.09	0.02	12.	*	1 JAN 2345	96	0.01	0.00	0.01	11.		
1 JAN 1130	47	0.13	0.10	0.02	20.	*	2 JAN 0000	97	0.01	0.00	0.01	11.		
1 JAN 1145	48	0.52	0.37	0.15	92.	*	2 JAN 0015	98	0.00	0.00	0.00	6.		
1 JAN 1200	49	1.28	0.65	0.63	396.	*	2 JAN 0030	99	0.00	0.00	0.00	2.		
1 JAN 1215	50	0.20	0.08	0.12	344.	*	2 JAN 0045	100	0.00	0.00	0.00	0.		

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TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.82, TOTAL EXCESS = 1.93

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
396.	12.00	72.	22.	21.	21.
		(INCHES)	1.566	1.926	1.926
		(AC-FT)	36.	44.	44.

CUMULATIVE AREA = 0.43 SQ MI

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108 KK  
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 \* 3bB \*  
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109 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

112 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

110 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.45 SUBBASIN AREA

PRECIPITATION DATA

111 PB STORM 4.75 BASIN TOTAL PRECIPITATION

25yr.out

113 PI	INCREMENTAL PRECIPITATION PATTERN										
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

138 LS	SCS LOSS RATE			
	STRTL	0.67	INITIAL ABSTRACTION	
	CRVNBR	74.89	CURVE NUMBER	
	RTIMP	0.00	PERCENT IMPERVIOUS AREA	

139 UD	SCS DIMENSIONLESS UNITGRAPH	
	TLAG	0.23 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
7 END-OF-PERIOD ORDINATES

481.	461.	145.	46.	15.	5.	1.
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HYDROGRAPH AT STATION 3bB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.04	0.10	227.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.10	0.03	0.07	134.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.02	0.06	91.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.05	70.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	58.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.01	0.04	50.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	44.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	40.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	37.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	35.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	33.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.03	32.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	30.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	28.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	26.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	25.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	24.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	23.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	22.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	22.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	21.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	21.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.00	0.02	20.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.00	0.02	19.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	19.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	18.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.01	17.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.01	17.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	16.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	16.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	15.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	14.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	14.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	14.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	14.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	14.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	13.
1	JAN	0915	38	0.04	0.04	0.00	1.	*	1	JAN	2145	88	0.01	0.00	0.01	13.
1	JAN	0930	39	0.04	0.04	0.00	1.	*	1	JAN	2200	89	0.01	0.00	0.01	13.
1	JAN	0945	40	0.04	0.04	0.00	2.	*	1	JAN	2215	90	0.01	0.00	0.01	13.
1	JAN	1000	41	0.05	0.04	0.00	4.	*	1	JAN	2230	91	0.01	0.00	0.01	13.
1	JAN	1015	42	0.05	0.05	0.01	5.	*	1	JAN	2245	92	0.01	0.00	0.01	13.
1	JAN	1030	43	0.06	0.05	0.01	8.	*	1	JAN	2300	93	0.01	0.00	0.01	13.
1	JAN	1045	44	0.07	0.06	0.01	11.	*	1	JAN	2315	94	0.01	0.00	0.01	13.
1	JAN	1100	45	0.08	0.06	0.02	15.	*	1	JAN	2330	95	0.01	0.00	0.01	12.
1	JAN	1115	46	0.10	0.08	0.02	21.	*	1	JAN	2345	96	0.01	0.00	0.01	12.
1	JAN	1130	47	0.13	0.09	0.04	32.	*	2	JAN	0000	97	0.01	0.00	0.01	12.
1	JAN	1145	48	0.52	0.32	0.20	118.	*	2	JAN	0015	98	0.00	0.00	0.00	7.
1	JAN	1200	49	1.28	0.54	0.74	455.	*	2	JAN	0030	99	0.00	0.00	0.00	2.
1	JAN	1215	50	0.20	0.06	0.14	439.	*	2	JAN	0045	100	0.00	0.00	0.00	1.

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TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.51, TOTAL EXCESS = 2.24

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)			
+	455.	87.	27.	26.	26.
		(INCHES)	1.818	2.239	2.239
		(AC-FT)	43.	53.	53.



CUMULATIVE AREA = 0.45 SQ MI 25yr.out

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140 KK      3C *      CNAME      3R
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141 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
          IPNCH      0 PUNCH COMPUTED HYDROGRAPH
          IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
          ISAV2      100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250 TIME INTERVAL IN HOURS

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142 HC      HYDROGRAPH COMBINATION
          ICOMP      4 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
SUM OF 4 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	1142.	*	1	JAN	1845	76	76.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	609.	*	1	JAN	1900	77	73.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	413.	*	1	JAN	1915	78	71.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	307.	*	1	JAN	1930	79	68.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	251.	*	1	JAN	1945	80	66.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	215.	*	1	JAN	2000	81	63.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	190.	*	1	JAN	2015	82	60.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	170.	*	1	JAN	2030	83	58.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	157.	*	1	JAN	2045	84	58.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	148.	*	1	JAN	2100	85	58.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	140.	*	1	JAN	2115	86	57.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	133.	*	1	JAN	2130	87	56.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1.	*	1	JAN	1530	63	126.	*	1	JAN	2145	88	56.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	4.	*	1	JAN	1545	64	119.	*	1	JAN	2200	89	55.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	7.	*	1	JAN	1600	65	112.	*	1	JAN	2215	90	55.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	11.	*	1	JAN	1615	66	105.	*	1	JAN	2230	91	54.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	17.	*	1	JAN	1630	67	100.	*	1	JAN	2245	92	53.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	25.	*	1	JAN	1645	68	97.	*	1	JAN	2300	93	54.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	36.	*	1	JAN	1700	69	94.	*	1	JAN	2315	94	53.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	52.	*	1	JAN	1715	70	92.	*	1	JAN	2330	95	52.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	76.	*	1	JAN	1730	71	89.	*	1	JAN	2345	96	52.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	114.	*	1	JAN	1745	72	86.	*	2	JAN	0000	97	51.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	386.	*	1	JAN	1800	73	84.	*	2	JAN	0015	98	35.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1538.	*	1	JAN	1815	74	81.	*	2	JAN	0030	99	13.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	1886.	*	1	JAN	1830	75	79.	*	2	JAN	0045	100	4.	*

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PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR	
+	(CFS)	(HR)	(CFS)			
+	1886.	12.25	360.	111.	107.	107.
			(INCHES)	1,758	2,166	2,166
			(AC-FT)	178.	220.	220.

CUMULATIVE AREA = 1.90 SQ MI

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143 KK      3R *      CNAME      3C
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144 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
          IPNCH      0 PUNCH COMPUTED HYDROGRAPH
          IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
          ISAV2      100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

145 RM MUSKINGUM ROUTING
NSTPS 2 NUMBER OF SUBREACHES
AMSKK 0.05 MUSKINGUM K
X 0.20 MUSKINGUM X

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 3R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 15 columns for station 3R. It lists hydrograph data for various dates from 1 JAN 0000 to 1 JAN 0600.

Summary statistics table with columns: PEAK FLOW, TIME, 6-HR, MAXIMUM AVERAGE FLOW (24-HR, 72-HR, 24.75-HR). Includes values for peak flow (1960 CFS) and cumulative area (1.90 SQ MI).

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146 KK 6B

147 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

150 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 6 TIME INTERVAL IN MINUTES
JXDATE 1JAN94 STARTING DATE
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

148 BA SUBBASIN CHARACTERISTICS
TAREA, 0.25 SUBBASIN AREA

PRECIPITATION DATA

149 PB STORM 4.75 BASIN TOTAL PRECIPITATION

151 PI INCREMENTAL PRECIPITATION PATTERN
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01

0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

176 LS SCS LOSS RATE  
 STRTL 0.68 INITIAL ABSTRACTION  
 CRVNBR 74.58 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

177 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.20 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 6 END-OF-PERIOD ORDINATES  
 324. 234. 65. 18. 5. 1.

HYDROGRAPH AT STATION 6B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.04	0.10	115.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.10	0.03	0.07	68.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.02	0.06	47.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.05	37.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	31.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.01	0.04	27.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	24.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	22.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	20.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	19.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	18.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.03	17.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	16.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	16.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	15.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	14.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	13.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	13.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	13.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	12.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	12.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	11.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.00	0.02	11.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.00	0.02	11.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	10.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	10.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.01	10.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.01	9.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	9.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	9.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	8.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	8.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	8.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	8.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	8.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	8.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	7.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	7.
1	JAN	0930	39	0.04	0.04	0.00	1.	*	1	JAN	2200	89	0.01	0.00	0.01	7.
1	JAN	0945	40	0.04	0.04	0.00	1.	*	1	JAN	2215	90	0.01	0.00	0.01	7.
1	JAN	1000	41	0.05	0.04	0.00	2.	*	1	JAN	2230	91	0.01	0.00	0.01	7.
1	JAN	1015	42	0.05	0.05	0.01	3.	*	1	JAN	2245	92	0.01	0.00	0.01	7.
1	JAN	1030	43	0.06	0.05	0.01	4.	*	1	JAN	2300	93	0.01	0.00	0.01	7.
1	JAN	1045	44	0.07	0.06	0.01	6.	*	1	JAN	2315	94	0.01	0.00	0.01	7.
1	JAN	1100	45	0.08	0.06	0.02	8.	*	1	JAN	2330	95	0.01	0.00	0.01	7.
1	JAN	1115	46	0.10	0.08	0.02	12.	*	1	JAN	2345	96	0.01	0.00	0.01	7.
1	JAN	1130	47	0.13	0.09	0.04	18.	*	2	JAN	0000	97	0.01	0.00	0.01	7.
1	JAN	1145	48	0.52	0.32	0.20	74.	*	2	JAN	0015	98	0.00	0.00	0.00	3.
1	JAN	1200	49	1.28	0.55	0.73	286.	*	2	JAN	0030	99	0.00	0.00	0.00	1.
1	JAN	1215	50	0.20	0.07	0.14	229.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.54, TOTAL EXCESS = 2.21

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW	24.75-HR
(CFS)	(HR)	6-HR	72-HR
+	286.	49.	14.
+	12.00	15.	14.
		24.75-HR	2.213
		(INCHES)	2.213
		(AC-FT)	30.

CUMULATIVE AREA = 0.25 SQ MI

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\* \*
178 KK 6R \* CNAME 6C
\* \*
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179 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

180 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.04 MUSKINGUM K
X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 6R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

\*\*\*\*\*

HYDROGRAPH AT STATION 6R

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Table with 15 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 15 times). Rows show hydrograph data for various dates in January, including flow values and asterisks.

\*\*\*\*\*

Summary table with columns: PEAK FLOW, TIME, MAXIMUM AVERAGE FLOW (6-HR, 24-HR, 72-HR, 24.75-HR). Includes values in CFS, INCHES, and AC-FT, and CUMULATIVE AREA = 0.25 SQ MI.

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\* \*
181 KK 7bB \*
\* \*
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182 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

185 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 6 TIME INTERVAL IN MINUTES
JXDATE 1JAN94 STARTING DATE
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

183 BA SUBBASIN CHARACTERISTICS
TAREA, 0.27 SUBBASIN AREA

PRECIPITATION DATA

184 PB STORM 4.75 BASIN TOTAL PRECIPITATION

186 PI INCREMENTAL PRECIPITATION PATTERN
Table with 10 columns of numerical values representing precipitation increments.

211 LS SCS LOSS RATE
STRTL 0.65 INITIAL ABSTRACTION
CRVNBR 75.55 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

212 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.00 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH
5 END-OF-PERIOD ORDINATES

519. 145. 29. 6. 0.

HYDROGRAPH AT STATION 7bb

Table with 17 columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and 5 empty columns. It contains a detailed hydrograph with 47 rows of data for station 7bb.

1 JAN 1145	48	0.52	0.31	0.21	115.	25yr.out	2 JAN 0015	98	0.00	0.00	0.00	2.
1 JAN 1200	49	1.28	0.53	0.76	425.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.20	0.06	0.14	189.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.46, TOTAL EXCESS = 2.29

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
+	425.	12.00	54.	17.	16.	16.
		(INCHES)	1.862	2.294	2.294	2.294
		(AC-FT)	27.	33.	33.	33.

CUMULATIVE AREA = 0.27 SQ MI

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 \* \*  
 213 KK \* 7aB \*  
 \* \*  
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214 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

217 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

215 BA SUBBASIN CHARACTERISTICS

TAREA,	0.57	SUBBASIN AREA
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PRECIPITATION DATA

216 PB STORM 4.75 BASIN TOTAL PRECIPITATION

218 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

243 LS SCS LOSS RATE

STRTL	0.72	INITIAL ABSTRACTION
CRVNBR	73.44	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

244 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.00	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 1089. 305. 60. 12. 0.

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HYDROGRAPH AT STATION 7aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.09	186.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.10	0.03	0.07	116.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.02	0.06	88.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.05	74.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	65.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.04	57.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	51.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	47.

25yr.out												
1 JAN 0200	9	0.01	0.01	0.00	0.	*	1 JAN 1430	59	0.04	0.01	0.03	44.
1 JAN 0215	10	0.01	0.01	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	42.
1 JAN 0230	11	0.01	0.01	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	40.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.03	0.01	0.03	38.
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.03	0.01	0.02	35.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.03	0.01	0.02	34.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	31.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	30.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	29.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	28.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.02	0.01	0.02	27.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.02	0.01	0.02	26.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.02	0.01	0.02	26.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.02	0.01	0.02	25.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	24.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.02	23.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.02	23.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.00	0.01	22.
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.01	21.
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.01	20.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	20.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	19.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	18.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	17.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	17.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	17.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	17.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	16.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	16.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	17.
1 JAN 0930	39	0.04	0.04	0.00	1.	*	1 JAN 2200	89	0.01	0.00	0.01	16.
1 JAN 0945	40	0.04	0.04	0.00	2.	*	1 JAN 2215	90	0.01	0.00	0.01	16.
1 JAN 1000	41	0.05	0.04	0.00	3.	*	1 JAN 2230	91	0.01	0.00	0.01	16.
1 JAN 1015	42	0.05	0.05	0.00	6.	*	1 JAN 2245	92	0.01	0.00	0.01	16.
1 JAN 1030	43	0.06	0.05	0.01	8.	*	1 JAN 2300	93	0.01	0.00	0.01	16.
1 JAN 1045	44	0.07	0.06	0.01	12.	*	1 JAN 2315	94	0.01	0.00	0.01	15.
1 JAN 1100	45	0.08	0.07	0.01	18.	*	1 JAN 2330	95	0.01	0.00	0.01	15.
1 JAN 1115	46	0.10	0.08	0.02	27.	*	1 JAN 2345	96	0.01	0.00	0.01	15.
1 JAN 1130	47	0.13	0.10	0.03	42.	*	2 JAN 0000	97	0.01	0.00	0.01	15.
1 JAN 1145	48	0.52	0.34	0.18	210.	*	2 JAN 0015	98	0.00	0.00	0.00	4.
1 JAN 1200	49	1.28	0.58	0.70	821.	*	2 JAN 0030	99	0.00	0.00	0.00	1.
1 JAN 1215	50	0.20	0.07	0.13	370.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.63, TOTAL EXCESS = 2.12

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
821.	12.00	105.	32.	31.	31.	
		(INCHES)	1.725	2.121	2.121	2.121
		(AC-FT)	52.	64.	64.	64.

CUMULATIVE AREA = 0.57 SQ MI

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*      *
245 KK *      7C *      CNAME      7R
*      *
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246 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.      HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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247 HC      HYDROGRAPH COMBINATION
          ICOMP      3      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 7C  
SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	398.	*	1	JAN	1845	76	43.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	251.	*	1	JAN	1900	77	41.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	178.	*	1	JAN	1915	78	40.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	151.	*	1	JAN	1930	79	38.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	128.	*	1	JAN	1945	80	37.	*

25yr.out														
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	114.	*	1 JAN 2000	81	35.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	101.	*	1 JAN 2015	82	34.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	92.	*	1 JAN 2030	83	33.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	86.	*	1 JAN 2045	84	33.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	82.	*	1 JAN 2100	85	33.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	78.	*	1 JAN 2115	86	32.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	74.	*	1 JAN 2130	87	32.
1 JAN 0300	13	0.	*	1 JAN 0915	38	1.	*	1 JAN 1530	63	70.	*	1 JAN 2145	88	32.
1 JAN 0315	14	0.	*	1 JAN 0930	39	3.	*	1 JAN 1545	64	66.	*	1 JAN 2200	89	32.
1 JAN 0330	15	0.	*	1 JAN 0945	40	5.	*	1 JAN 1600	65	62.	*	1 JAN 2215	90	31.
1 JAN 0345	16	0.	*	1 JAN 1000	41	8.	*	1 JAN 1615	66	58.	*	1 JAN 2230	91	31.
1 JAN 0400	17	0.	*	1 JAN 1015	42	13.	*	1 JAN 1630	67	56.	*	1 JAN 2245	92	31.
1 JAN 0415	18	0.	*	1 JAN 1030	43	18.	*	1 JAN 1645	68	55.	*	1 JAN 2300	93	31.
1 JAN 0430	19	0.	*	1 JAN 1045	44	26.	*	1 JAN 1700	69	54.	*	1 JAN 2315	94	30.
1 JAN 0445	20	0.	*	1 JAN 1100	45	37.	*	1 JAN 1715	70	52.	*	1 JAN 2330	95	29.
1 JAN 0500	21	0.	*	1 JAN 1115	46	55.	*	1 JAN 1730	71	50.	*	1 JAN 2345	96	30.
1 JAN 0515	22	0.	*	1 JAN 1130	47	83.	*	1 JAN 1745	72	49.	*	2 JAN 0000	97	29.
1 JAN 0530	23	0.	*	1 JAN 1145	48	387.	*	1 JAN 1800	73	47.	*	2 JAN 0015	98	10.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1489.	*	1 JAN 1815	74	46.	*	2 JAN 0030	99	2.
1 JAN 0600	25	0.	*	1 JAN 1215	50	828.	*	1 JAN 1830	75	44.	*	2 JAN 0045	100	1.

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PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
+ (CFS)	(HR)	(CFS)				
+ 1489.	12.00	208.	64.	62.	62.	
		(INCHES)	1.776	2.185	2.185	2.185
		(AC-FT)	103.	127.	127.	127.

CUMULATIVE AREA = 1.09 SQ MI

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*****
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248 KK * 7R * CNAME 7C
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249 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLST 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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250 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.10 MUSKINGUM K
X 0.20 MUSKINGUM X

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\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 7R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 7R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	529.	*	1 JAN 1845	76	44.					
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	299.	*	1 JAN 1900	77	42.					
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	205.	*	1 JAN 1915	78	40.					
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	159.	*	1 JAN 1930	79	39.					
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	138.	*	1 JAN 1945	80	37.					
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	119.	*	1 JAN 2000	81	36.					
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	107.	*	1 JAN 2015	82	34.					
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	96.	*	1 JAN 2030	83	33.					
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	89.	*	1 JAN 2045	84	33.					
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	84.	*	1 JAN 2100	85	33.					
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	80.	*	1 JAN 2115	86	33.					
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	76.	*	1 JAN 2130	87	32.					
1 JAN 0300	13	0.	*	1 JAN 0915	38	1.	*	1 JAN 1530	63	72.	*	1 JAN 2145	88	32.					
1 JAN 0315	14	0.	*	1 JAN 0930	39	2.	*	1 JAN 1545	64	67.	*	1 JAN 2200	89	32.					
1 JAN 0330	15	0.	*	1 JAN 0945	40	4.	*	1 JAN 1600	65	64.	*	1 JAN 2215	90	31.					
1 JAN 0345	16	0.	*	1 JAN 1000	41	7.	*	1 JAN 1615	66	60.	*	1 JAN 2230	91	31.					
1 JAN 0400	17	0.	*	1 JAN 1015	42	11.	*	1 JAN 1630	67	57.	*	1 JAN 2245	92	31.					
1 JAN 0415	18	0.	*	1 JAN 1030	43	16.	*	1 JAN 1645	68	56.	*	1 JAN 2300	93	31.					
1 JAN 0430	19	0.	*	1 JAN 1045	44	23.	*	1 JAN 1700	69	54.	*	1 JAN 2315	94	30.					
1 JAN 0445	20	0.	*	1 JAN 1100	45	32.	*	1 JAN 1715	70	53.	*	1 JAN 2330	95	30.					
1 JAN 0500	21	0.	*	1 JAN 1115	46	47.	*	1 JAN 1730	71	51.	*	1 JAN 2345	96	30.					
1 JAN 0515	22	0.	*	1 JAN 1130	47	71.	*	1 JAN 1745	72	50.	*	2 JAN 0000	97	30.					
1 JAN 0530	23	0.	*	1 JAN 1145	48	237.	*	1 JAN 1800	73	48.	*	2 JAN 0015	98	20.					
1 JAN 0545	24	0.	*	1 JAN 1200	49	965.	*	1 JAN 1815	74	46.	*	2 JAN 0030	99	4.					



1 JAN 0600 25 0. \* 1 JAN 1215 50 1263. \* 25yr.out \* 1 JAN 1830 75 45. \* 2 JAN 0045 100 1. \*

PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 + (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
 + 1263. 12.25 (CFS) 208. 64. 62. 62.  
 (INCHES) 1.775 2.185 2.185 2.185  
 (AC-FT) 103. 127. 127. 127.  
 CUMULATIVE AREA = 1.09 SQ MI

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 251 KK \* 2bB \*  
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252 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

255 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

253 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.13 SUBBASIN AREA

PRECIPITATION DATA

254 PB STORM 4.75 BASIN TOTAL PRECIPITATION

256 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

281 LS SCS LOSS RATE  
 STRTL 0.76 INITIAL ABSTRACTION  
 CRVNBR 72.37 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

282 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 240. 67. 13. 3. 0.

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HYDROGRAPH AT STATION 2bB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.09	40.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.10	0.03	0.06	25.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	19.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.05	16.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	14.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.04	12.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	11.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	10.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	9.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	9.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	9.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	8.

25yr.out												
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.03	0.01	0.02	8.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.03	0.01	0.02	7.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	7.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	6.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	6.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	6.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.02	0.01	0.02	6.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.02	0.01	0.02	6.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.02	0.01	0.02	6.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.02	0.01	0.02	5.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.01	0.02	5.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.01	0.02	5.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.02	5.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.01	5.
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.01	5.
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.01	4.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	4.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	4.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	4.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	4.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	4.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	4.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	4.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	4.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	4.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	4.
1 JAN 0930	39	0.04	0.04	0.00	0.	*	1 JAN 2200	89	0.01	0.00	0.01	3.
1 JAN 0945	40	0.04	0.04	0.00	0.	*	1 JAN 2215	90	0.01	0.00	0.01	3.
1 JAN 1000	41	0.05	0.04	0.00	0.	*	1 JAN 2230	91	0.01	0.00	0.01	3.
1 JAN 1015	42	0.05	0.05	0.00	1.	*	1 JAN 2245	92	0.01	0.00	0.01	3.
1 JAN 1030	43	0.06	0.05	0.01	1.	*	1 JAN 2300	93	0.01	0.00	0.01	3.
1 JAN 1045	44	0.07	0.06	0.01	2.	*	1 JAN 2315	94	0.01	0.00	0.01	3.
1 JAN 1100	45	0.08	0.07	0.01	3.	*	1 JAN 2330	95	0.01	0.00	0.01	3.
1 JAN 1115	46	0.10	0.08	0.02	5.	*	1 JAN 2345	96	0.01	0.00	0.01	3.
1 JAN 1130	47	0.13	0.10	0.03	8.	*	2 JAN 0000	97	0.01	0.00	0.01	3.
1 JAN 1145	48	0.52	0.35	0.17	43.	*	2 JAN 0015	98	0.00	0.00	0.00	1.
1 JAN 1200	49	1.28	0.61	0.67	173.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.20	0.07	0.13	78.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.71, TOTAL EXCESS = 2.04

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
+	173.	12.00	22.	7.	7.	7.
		(INCHES)	1.657	2.036	2.036	2.036
		(AC-FT)	11.	14.	14.	14.
CUMULATIVE AREA =			0.13 SQ MI			

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 283 KK \* 2aB \*  
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284 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

287 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

285 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.49 SUBBASIN AREA

PRECIPITATION DATA

286 PB STORM 4.75 BASIN TOTAL PRECIPITATION

288 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00

25yr.out

313 LS SCS LOSS RATE  
 STRTL 0.72 INITIAL ABSTRACTION  
 CRVNR 73.52 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

314 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 0.

940. 263. 52. 10.

HYDROGRAPH AT STATION 2aB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.14	0.05	0.09	161.	*
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.10	0.03	0.07	100.	*
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.08	0.02	0.06	76.	*
1	JAN	0045	4	0.01	0.01	0.00	0.	*		1	JAN	1315	54	0.07	0.02	0.05	64.	*
1	JAN	0100	5	0.01	0.01	0.00	0.	*		1	JAN	1330	55	0.06	0.02	0.04	56.	*
1	JAN	0115	6	0.01	0.01	0.00	0.	*		1	JAN	1345	56	0.05	0.02	0.04	49.	*
1	JAN	0130	7	0.01	0.01	0.00	0.	*		1	JAN	1400	57	0.05	0.01	0.03	44.	*
1	JAN	0145	8	0.01	0.01	0.00	0.	*		1	JAN	1415	58	0.04	0.01	0.03	40.	*
1	JAN	0200	9	0.01	0.01	0.00	0.	*		1	JAN	1430	59	0.04	0.01	0.03	38.	*
1	JAN	0215	10	0.01	0.01	0.00	0.	*		1	JAN	1445	60	0.04	0.01	0.03	36.	*
1	JAN	0230	11	0.01	0.01	0.00	0.	*		1	JAN	1500	61	0.04	0.01	0.03	34.	*
1	JAN	0245	12	0.02	0.02	0.00	0.	*		1	JAN	1515	62	0.03	0.01	0.03	33.	*
1	JAN	0300	13	0.02	0.02	0.00	0.	*		1	JAN	1530	63	0.03	0.01	0.02	31.	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.03	0.01	0.02	29.	*
1	JAN	0330	15	0.02	0.02	0.00	0.	*		1	JAN	1600	65	0.03	0.01	0.02	27.	*
1	JAN	0345	16	0.02	0.02	0.00	0.	*		1	JAN	1615	66	0.03	0.01	0.02	26.	*
1	JAN	0400	17	0.02	0.02	0.00	0.	*		1	JAN	1630	67	0.03	0.01	0.02	25.	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.03	0.01	0.02	24.	*
1	JAN	0430	19	0.02	0.02	0.00	0.	*		1	JAN	1700	69	0.02	0.01	0.02	24.	*
1	JAN	0445	20	0.02	0.02	0.00	0.	*		1	JAN	1715	70	0.02	0.01	0.02	23.	*
1	JAN	0500	21	0.02	0.02	0.00	0.	*		1	JAN	1730	71	0.02	0.01	0.02	22.	*
1	JAN	0515	22	0.02	0.02	0.00	0.	*		1	JAN	1745	72	0.02	0.01	0.02	22.	*
1	JAN	0530	23	0.02	0.02	0.00	0.	*		1	JAN	1800	73	0.02	0.01	0.02	21.	*
1	JAN	0545	24	0.02	0.02	0.00	0.	*		1	JAN	1815	74	0.02	0.01	0.02	20.	*
1	JAN	0600	25	0.02	0.02	0.00	0.	*		1	JAN	1830	75	0.02	0.00	0.02	20.	*
1	JAN	0615	26	0.02	0.02	0.00	0.	*		1	JAN	1845	76	0.02	0.00	0.01	19.	*
1	JAN	0630	27	0.02	0.02	0.00	0.	*		1	JAN	1900	77	0.02	0.00	0.01	18.	*
1	JAN	0645	28	0.02	0.02	0.00	0.	*		1	JAN	1915	78	0.02	0.00	0.01	18.	*
1	JAN	0700	29	0.02	0.02	0.00	0.	*		1	JAN	1930	79	0.02	0.00	0.01	17.	*
1	JAN	0715	30	0.02	0.02	0.00	0.	*		1	JAN	1945	80	0.02	0.00	0.01	16.	*
1	JAN	0730	31	0.02	0.02	0.00	0.	*		1	JAN	2000	81	0.02	0.00	0.01	15.	*
1	JAN	0745	32	0.02	0.02	0.00	0.	*		1	JAN	2015	82	0.02	0.00	0.01	15.	*
1	JAN	0800	33	0.03	0.03	0.00	0.	*		1	JAN	2030	83	0.01	0.00	0.01	15.	*
1	JAN	0815	34	0.03	0.03	0.00	0.	*		1	JAN	2045	84	0.02	0.00	0.01	15.	*
1	JAN	0830	35	0.03	0.03	0.00	0.	*		1	JAN	2100	85	0.02	0.00	0.01	15.	*
1	JAN	0845	36	0.03	0.03	0.00	0.	*		1	JAN	2115	86	0.01	0.00	0.01	14.	*
1	JAN	0900	37	0.04	0.04	0.00	0.	*		1	JAN	2130	87	0.01	0.00	0.01	14.	*
1	JAN	0915	38	0.04	0.04	0.00	0.	*		1	JAN	2145	88	0.01	0.00	0.01	14.	*
1	JAN	0930	39	0.04	0.04	0.00	1.	*		1	JAN	2200	89	0.01	0.00	0.01	14.	*
1	JAN	0945	40	0.04	0.04	0.00	2.	*		1	JAN	2215	90	0.01	0.00	0.01	14.	*
1	JAN	1000	41	0.05	0.04	0.00	3.	*		1	JAN	2230	91	0.01	0.00	0.01	14.	*
1	JAN	1015	42	0.05	0.05	0.00	5.	*		1	JAN	2245	92	0.01	0.00	0.01	14.	*
1	JAN	1030	43	0.06	0.05	0.01	7.	*		1	JAN	2300	93	0.01	0.00	0.01	14.	*
1	JAN	1045	44	0.07	0.06	0.01	11.	*		1	JAN	2315	94	0.01	0.00	0.01	13.	*
1	JAN	1100	45	0.08	0.07	0.01	16.	*		1	JAN	2330	95	0.01	0.00	0.01	13.	*
1	JAN	1115	46	0.10	0.08	0.02	24.	*		1	JAN	2345	96	0.01	0.00	0.01	13.	*
1	JAN	1130	47	0.13	0.10	0.03	36.	*		2	JAN	0000	97	0.01	0.00	0.01	13.	*
1	JAN	1145	48	0.52	0.34	0.18	182.	*		2	JAN	0015	98	0.00	0.00	0.00	3.	*
1	JAN	1200	49	1.28	0.58	0.70	710.	*		2	JAN	0030	99	0.00	0.00	0.00	1.	*
1	JAN	1215	50	0.20	0.07	0.13	320.	*		2	JAN	0045	100	0.00	0.00	0.00	0.	*

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.62, TOTAL EXCESS = 2.13

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)			
710.	12.00	91.	28.	27.	27.
		(INCHES)	1.731	2.128	2.128
		(AC-FT)	45.	56.	56.

CUMULATIVE AREA = 0.49 SQ MI

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315 KK \* \* 2C \* CNAME 2R \* \* \* \*\*\*\*\*

316 KO OUTPUT CONTROL VARIABLES IPRNT 1 PRINT CONTROL IPLOT 0 PLOT CONTROL QSCAL 0. HYDROGRAPH PLOT SCALE IPNCH 0 PUNCH COMPUTED HYDROGRAPH IOUT 22 SAVE HYDROGRAPH ON THIS UNIT ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED ISAV2 100 LAST ORDINATE PUNCHED OR SAVED TIMINT 0.250 TIME INTERVAL IN HOURS

317 HC HYDROGRAPH COMBINATION ICOMP 4 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 2C SUM OF 4 HYDROGRAPHS

Table with 18 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 4 times). Rows list hydrograph data for various dates in January, including flow values and station identifiers.

PEAK FLOW TIME (CFS) (HR) MAXIMUM AVERAGE FLOW 6-HR 24-HR 72-HR 24.75-HR. Includes values like 3621. CFS at 12.25 HR and cumulative area of 3.61 SQ MI.

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318 KK \* \* 2R \* CNAME 2C \* \* \* \*\*\*\*\*

319 KO OUTPUT CONTROL VARIABLES IPRNT 1 PRINT CONTROL IPLOT 0 PLOT CONTROL QSCAL 0. HYDROGRAPH PLOT SCALE IPNCH 0 PUNCH COMPUTED HYDROGRAPH IOUT 22 SAVE HYDROGRAPH ON THIS UNIT ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED ISAV2 100 LAST ORDINATE PUNCHED OR SAVED TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

320 RM MUSKINGUM ROUTING NSTPS 1 NUMBER OF SUBREACHES AMSKK 0.14 MUSKINGUM K X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 2R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2984.	*	1	JAN	1845	76	146.
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	1588.	*	1	JAN	1900	77	141.
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	907.	*	1	JAN	1915	78	136.
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	657.	*	1	JAN	1930	79	131.
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	514.	*	1	JAN	1945	80	127.
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	439.	*	1	JAN	2000	81	121.
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	380.	*	1	JAN	2015	82	116.
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	340.	*	1	JAN	2030	83	112.
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	307.	*	1	JAN	2045	84	110.
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	288.	*	1	JAN	2100	85	109.
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	271.	*	1	JAN	2115	86	108.
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	259.	*	1	JAN	2130	87	107.
1	JAN	0300	13	0.	*	1	JAN	0915	38	1.	*	1	JAN	1530	63	244.	*	1	JAN	2145	88	105.
1	JAN	0315	14	0.	*	1	JAN	0930	39	4.	*	1	JAN	1545	64	231.	*	1	JAN	2200	89	105.
1	JAN	0330	15	0.	*	1	JAN	0945	40	9.	*	1	JAN	1600	65	217.	*	1	JAN	2215	90	104.
1	JAN	0345	16	0.	*	1	JAN	1000	41	16.	*	1	JAN	1615	66	205.	*	1	JAN	2230	91	103.
1	JAN	0400	17	0.	*	1	JAN	1015	42	26.	*	1	JAN	1630	67	193.	*	1	JAN	2245	92	102.
1	JAN	0415	18	0.	*	1	JAN	1030	43	39.	*	1	JAN	1645	68	187.	*	1	JAN	2300	93	101.
1	JAN	0430	19	0.	*	1	JAN	1045	44	58.	*	1	JAN	1700	69	181.	*	1	JAN	2315	94	101.
1	JAN	0445	20	0.	*	1	JAN	1100	45	83.	*	1	JAN	1715	70	176.	*	1	JAN	2330	95	99.
1	JAN	0500	21	0.	*	1	JAN	1115	46	121.	*	1	JAN	1730	71	171.	*	1	JAN	2345	96	98.
1	JAN	0515	22	0.	*	1	JAN	1130	47	179.	*	1	JAN	1745	72	166.	*	2	JAN	0000	97	97.
1	JAN	0530	23	0.	*	1	JAN	1145	48	453.	*	1	JAN	1800	73	161.	*	2	JAN	0015	98	83.
1	JAN	0545	24	0.	*	1	JAN	1200	49	1754.	*	1	JAN	1815	74	156.	*	2	JAN	0030	99	45.
1	JAN	0600	25	0.	*	1	JAN	1215	50	3396.	*	1	JAN	1830	75	151.	*	2	JAN	0045	100	13.

PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 + (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
 + 3396. 12.25 (CFS) 681. 210. 203. 203.  
 (INCHES) 1.755 2.161 2.161 2.161  
 (AC-FT) 338. 416. 416. 416.  
 CUMULATIVE AREA = 3.61 SQ MI

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 \* \*  
 321 KK 1B \*  
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322 KO OUTPUT CONTROL VARIABLES  
 IPRINT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

325 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

323 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.56 SUBBASIN AREA

PRECIPITATION DATA

324 PB STORM 4.75 BASIN TOTAL PRECIPITATION

326 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

351 LS SCS LOSS RATE

STRTL 0.73 INITIAL ABSTRACTION
CRVNR 73.35 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

352 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.00 LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH
5 END-OF-PERIOD ORDINATES
0.

1075. 301. 59. 12.

HYDROGRAPH AT STATION 1B

Table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and a second set of the same columns. It lists hydrograph data for various dates and times, including rainfall, loss, and excess values.

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.64, TOTAL EXCESS = 2.11

Table with columns: PEAK FLOW, TIME, 6-HR, 24-HR, 72-HR, 24.75-HR. It shows peak flow values in CFS and inches, and cumulative area in SQ MI.

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\*
353 KK \* 1C \* CNAME 1C
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354 KO      OUTPUT CONTROL VARIABLES
            IPRNT      1  PRINT CONTROL
            IPLOT      0  PLOT CONTROL
            QSCAL      0.  HYDROGRAPH PLOT SCALE
            IPNCH      0  PUNCH COMPUTED HYDROGRAPH
            IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     100  LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250  TIME INTERVAL IN HOURS

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355 HC      HYDROGRAPH COMBINATION
            ICOMP      2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 1C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3168.	*	1	JAN	1845	76	168.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	1702.	*	1	JAN	1900	77	162.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	994.	*	1	JAN	1915	78	156.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	729.	*	1	JAN	1930	79	151.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	578.	*	1	JAN	1945	80	145.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	495.	*	1	JAN	2000	81	139.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	430.	*	1	JAN	2015	82	133.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	386.	*	1	JAN	2030	83	129.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	350.	*	1	JAN	2045	84	126.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	329.	*	1	JAN	2100	85	126.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	310.	*	1	JAN	2115	86	125.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	296.	*	1	JAN	2130	87	123.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1.	*	1	JAN	1530	63	279.	*	1	JAN	2145	88	122.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	4.	*	1	JAN	1545	64	264.	*	1	JAN	2200	89	121.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	11.	*	1	JAN	1600	65	248.	*	1	JAN	2215	90	120.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	19.	*	1	JAN	1615	66	234.	*	1	JAN	2230	91	118.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	31.	*	1	JAN	1630	67	222.	*	1	JAN	2245	92	117.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	47.	*	1	JAN	1645	68	214.	*	1	JAN	2300	93	117.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	70.	*	1	JAN	1700	69	208.	*	1	JAN	2315	94	116.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	101.	*	1	JAN	1715	70	202.	*	1	JAN	2330	95	114.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	147.	*	1	JAN	1730	71	196.	*	1	JAN	2345	96	113.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	220.	*	1	JAN	1745	72	191.	*	2	JAN	0000	97	112.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	659.	*	1	JAN	1800	73	185.	*	2	JAN	0015	98	87.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	2561.	*	1	JAN	1815	74	179.	*	2	JAN	0030	99	45.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3760.	*	1	JAN	1830	75	173.	*	2	JAN	0045	100	14.	*

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PEAK FLOW      TIME
+ (CFS)        (HR)
+ 3760.        12.25
                (CFS)
                (INCHES)
                (AC-FT)
                CUMULATIVE AREA = 4.17 SQ MI

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*
356 KK      1C *      CNAME      1C
*
*****

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357 KO      OUTPUT CONTROL VARIABLES
            IPRNT      1  PRINT CONTROL
            IPLOT      0  PLOT CONTROL
            QSCAL      0.  HYDROGRAPH PLOT SCALE
            IPNCH      0  PUNCH COMPUTED HYDROGRAPH
            IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     100  LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250  TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

358 RN NO ROUTING

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HYDROGRAPH AT STATION 1C

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				25yr.out													
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3168.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	1702.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	994.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	729.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	578.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	495.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	430.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	386.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	350.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	329.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	310.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	296.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1.	*	1	JAN	1530	63	279.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	4.	*	1	JAN	1545	64	264.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	11.	*	1	JAN	1600	65	248.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	19.	*	1	JAN	1615	66	234.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	31.	*	1	JAN	1630	67	222.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	47.	*	1	JAN	1645	68	214.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	70.	*	1	JAN	1700	69	208.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	101.	*	1	JAN	1715	70	202.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	147.	*	1	JAN	1730	71	196.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	220.	*	1	JAN	1745	72	191.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	659.	*	1	JAN	1800	73	185.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	2561.	*	1	JAN	1815	74	179.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3760.	*	1	JAN	1830	75	173.	*

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
3760.	12.25	784.	242.	234.	234.
		1.750	2.155	2.155	2.155
		389.	479.	479.	479.

CUMULATIVE AREA = 4.17 SQ MI

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT								
+	ROUTED TO	4B	395.	12.25	77.	24.	23.	0.40	
+	HYDROGRAPH AT								
+	ROUTED TO	4R	408.	12.25	77.	24.	23.	0.40	
+	HYDROGRAPH AT								
+	ROUTED TO	5B	682.	12.00	124.	38.	37.	0.63	
+	HYDROGRAPH AT								
+	ROUTED TO	5R	696.	12.25	124.	38.	37.	0.63	
+	HYDROGRAPH AT								
+	ROUTED TO	3aB	396.	12.00	72.	22.	21.	0.43	
+	HYDROGRAPH AT								
+	ROUTED TO	3bB	455.	12.00	87.	27.	26.	0.45	
+	HYDROGRAPH AT								
+	ROUTED TO	4	1886.	12.25	360.	111.	107.	1.90	
+	HYDROGRAPH AT								
+	ROUTED TO	3R	1960.	12.25	360.	111.	107.	1.90	
+	HYDROGRAPH AT								
+	ROUTED TO	6B	286.	12.00	49.	15.	14.	0.25	
+	HYDROGRAPH AT								
+	ROUTED TO	6R	269.	12.25	49.	15.	14.	0.25	
+	HYDROGRAPH AT								
+	ROUTED TO	7bB	425.	12.00	54.	17.	16.	0.27	
+	HYDROGRAPH AT								
+	ROUTED TO	7aB	821.	12.00	105.	32.	31.	0.57	
+	HYDROGRAPH AT								
+	ROUTED TO	3	1489.	12.00	208.	64.	62.	1.09	
+	HYDROGRAPH AT								
+	ROUTED TO	7R	1263.	12.25	208.	64.	62.	1.09	
+	HYDROGRAPH AT								
+	ROUTED TO	2bB	173.	12.00	22.	7.	7.	0.13	
+	HYDROGRAPH AT								
+	ROUTED TO	2aB	710.	12.00	91.	28.	27.	0.49	
+	HYDROGRAPH AT								
+	ROUTED TO	4	3621.	12.25	681.	210.	203.	3.61	



25yr.out

+	ROUTED TO	2R	3396.	12.25	681.	210.	203.	3.61
+	HYDROGRAPH AT	1B	807.	12.00	104.	32.	31.	0.56
+	2 COMBINED AT	1C	3760.	12.25	784.	242.	234.	4.17
+	ROUTED TO	1C	3760.	12.25	784.	242.	234.	4.17

\*\*\* NORMAL END OF HEC-1 \*\*\*

1\*\*\*\*\*
\*
\* FLOOD HYDROGRAPH PACKAGE (HEC-1)
\* MAY 1991
\* VERSION 4.0.1E
\*
\* RUN DATE TIME
\*\*\*\*\*

\*\*\*\*\*
\*
\* U.S. ARMY CORPS OF ENGINEERS
\* HYDROLOGIC ENGINEERING CENTER
\* 609 SECOND STREET
\* DAVIS, CALIFORNIA 95616
\* (916) 551-1748
\*\*\*\*\*

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HECL (JAN 73), HECLGS, HECLDB, AND HECLKW.
THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

Table with columns: LINE, ID, and numerical data. Includes input parameters like 'Scrabble Creek', 'w Mining & w Logging', and a large data table for 'typeII-24hour' with 10 columns of values.

HEC-1 INPUT

Table with columns: LINE, ID, and numerical data. Includes input parameter 'PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614'.

		100yr.out									
51	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
52	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
53	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
54	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
55	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
56	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
57	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
58	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
59	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
60	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
61	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
62	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
63	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
64	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
65	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
66	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
67	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
68	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
69	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
70	PC	1.0									
71	LS	0.0	75.11	0.0							
72	UD	0.2197									
73	KK	5R	CNAME	5C							
74	KO	0	0	0.0	0	22					
75	RM	1	0.102	0.2							
76	KK	3aB									
77	KO	0	0	0.0	1	22					
78	BA	0.4252									
79	PB	5.7									
80	IN	6	1JAN94	0							
	*	typeII-24hour									
81	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
82	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
83	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
84	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
85	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
86	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
87	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
88	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
89	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
90	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
91	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
92	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
93	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
94	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
95	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
96	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
97	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
98	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
99	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
100	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
101	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
102	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
103	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
104	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
105	PC	1.0									
106	LS	0.0	70.96	0.0							
107	UD	0.2104									
108	KK	3bB									
109	KO	0	0	0.0	1	22					
110	BA	0.4467									
111	PB	5.7									
112	IN	6	1JAN94	0							
	*	typeII-24hour									
113	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
114	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
115	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
116	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
117	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
118	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
119	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
120	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
121	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
122	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
123	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
124	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
125	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
126	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
127	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
128	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
129	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
130	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
131	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
132	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
133	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
134	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
135	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
136	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
137	PC	1.0									
138	LS	0.0	74.89	0.0							
139	UD	0.2331									

100yr.out

140	KK	3C	CNAME	3R		
141	KO	0	0	0.0	0	22
142	HC	4				
143	KK	3R	CNAME	3C		
144	KO	0	0	0.0	0	22
145	RM	2	0.045	0.2		
146	KK	6B				
147	KO	0	0	0.0	1	22
148	BA	0.2511				
149	PB	5.7				
150	IN	6	1JAN94	0		

\* typeII-24hour

HEC-1 INPUT

PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

151	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
152	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
153	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
154	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
155	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
156	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
157	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
158	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
159	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
160	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
161	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
162	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
163	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
164	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
165	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
166	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
167	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
168	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
169	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
170	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
171	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
172	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
173	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
174	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
175	PC	1.0									
176	LS	0.0	74.58	0.0							
177	UD	0.2017									

178	KK	6R	CNAME	6C		
179	KO	0	0	0.0	0	22
180	RM	1	0.037	0.2		
181	KK	7bB				
182	KO	0	0	0.0	1	22
183	BA	0.2705				
184	PB	5.7				
185	IN	6	1JAN94	0		

\* typeII-24hour

186	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
187	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
188	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
189	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
190	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
191	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
192	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
193	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
194	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
195	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
196	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
197	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
198	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
199	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
200	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
201	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
202	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997

HEC-1 INPUT

PAGE 5

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

203	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
204	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
205	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
206	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
207	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
208	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
209	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
210	PC	1.0									
211	LS	0.0	75.55	0.0							
212	UD	0.0									
213	KK	7aB									
214	KO	0	0	0.0	1	22					
215	BA	0.5681									
216	PB	5.7									
217	IN	6	1JAN94	0							

\* typeII-24hour

218	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
219	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208

100yr.out											
220	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
221	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
222	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
223	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
224	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
225	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
226	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
227	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
228	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
229	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
230	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
231	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
232	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
233	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
234	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
235	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
236	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
237	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
238	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
239	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
240	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
241	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
242	PC	1.0									
243	LS	0.0	73.44	0.0							
244	UD	0.0									
245	KK	7C	CNAME	7R							
246	KO	0	0	0.0	0	22					
247	HC	3									
248	KK	7R	CNAME	7C							
249	KO	0	0	0.0	0	22					
250	RM	1	0.105	0.2							

HEC-1 INPUT

PAGE 6

LINE	ID	1	2	3	4	5	6	7	8	9	10
251	KK	2bB									
252	KO	0	0	0.0	1	22					
253	BA	0.1252									
254	PB	5.7									
255	IN	6	1JAN94	0							
		* typeII-24hour									
256	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
257	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
258	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
259	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
260	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
261	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
262	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
263	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
264	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
265	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
266	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
267	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
268	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
269	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
270	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
271	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
272	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
273	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
274	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
275	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
276	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
277	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
278	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
279	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
280	PC	1.0									
281	LS	0.0	72.37	0.0							
282	UD	0.0									
283	KK	2aB									
284	KO	0	0	0.0	1	22					
285	BA	0.49									
286	PB	5.7									
287	IN	6	1JAN94	0							
		* typeII-24hour									
288	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
289	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
290	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
291	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
292	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
293	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
294	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
295	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
296	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
297	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
298	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
299	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
300	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
301	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162

HEC-1 INPUT

PAGE 7

LINE	ID	1	2	3	4	5	6	7	8	9	10
302	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505

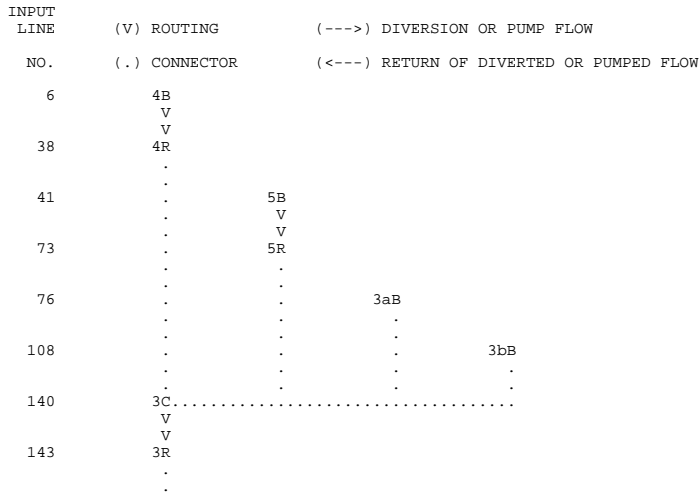
100yr.out											
303	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
304	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
305	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
306	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
307	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
308	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
309	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
310	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
311	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
312	PC	1.0									
313	LS	0.0	73.52	0.0							
314	UD	0.0									
315	KK	2C	CNAME	2R							
316	KO	0	0	0.0	0	22					
317	HC	4									
318	KK	2R	CNAME	2C							
319	KO	0	0	0.0	0	22					
320	RM	1	0.138	0.2							
321	KK	1B									
322	KO	0	0	0.0	1	22					
323	BA	0.5606									
324	PB	5.7									
325	IN	6	1JAN94	0							
	*	typeII-24hour									
326	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
327	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
328	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
329	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
330	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
331	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
332	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
333	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
334	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
335	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
336	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
337	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
338	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
339	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
340	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
341	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
342	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
343	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
344	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
345	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
346	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
347	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
348	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
349	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
350	PC	1.0									
351	LS	0.0	73.35	0.0							
352	UD	0.0									

HEC-1 INPUT

PAGE 8

LINE	ID	1	2	3	4	5	6	7	8	9	10
353	KK	1C	CNAME	1C							
354	KO	0	0	0.0	0	22					
355	HC	2									
356	KK	1C	CNAME	1C							
357	KO	0	0	0.0	0	22					
358	RN	1C									
359	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK



```

146      .      6B
      .      V
      .      V
178      .      6R
      .      .
      .      .
181      .      .      7bB
      .      .      .
213      .      .      .      7aB
      .      .      .      .
      .      .      .      .
245      .      7C.....
      .      V
      .      V
248      .      7R
      .      .
      .      .
251      .      .      2bB
      .      .      .
      .      .      .
283      .      .      .      2aB
      .      .      .      .
      .      .      .      .
315      2C.....
      .      V
      .      V
318      2R
      .      .
      .      .
321      .      1B
      .      .
      .      .
353      1C.....
      .      V
      .      V
356      1C

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE TIME *
*
*****

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*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
*
*****

```

Scrabble Creek  
w Mining & w Logging (Scenario 1), LIDAR Data  
100 yr Storm

```

5 IO      OUTPUT CONTROL VARIABLES
      IPRNT      1 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE

IT      HYDROGRAPH TIME DATA
      NMIN      15 MINUTES IN COMPUTATION INTERVAL
      IDATE      1JAN94 STARTING DATE
      ITIME      0000 STARTING TIME
      NQ,        100 NUMBER OF HYDROGRAPH ORDINATES
      NDDATE     2JAN94 ENDING DATE
      NDTIME     0045 ENDING TIME
      ICENT      19 CENTURY MARK

      COMPUTATION INTERVAL 0.25 HOURS
      TOTAL TIME BASE 24.75 HOURS

```

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ENGLISH UNITS
DRAINAGE AREA      SQUARE MILES
PRECIPITATION DEPTH INCHES
LENGTH, ELEVATION FEET
FLOW               CUBIC FEET PER SECOND
STORAGE VOLUME    ACRE-Feet
SURFACE AREA      ACRES
TEMPERATURE        DEGREES FAHRENHEIT

```

\*\*\*\*\*

```

*****
*
*      4B *
*      *
*****

```

```

7 KO      OUTPUT CONTROL VARIABLES
      IPRNT      1 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
      IPNCH      1 PUNCH COMPUTED HYDROGRAPH

```

100yr.out  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

10 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

8 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.40 SUBBASIN AREA

PRECIPITATION DATA

9 PB STORM 5.70 BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

36 LS SCS LOSS RATE  
 STRTL 0.69 INITIAL ABSTRACTION  
 CRVNBR 74.37 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

37 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.26 LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 7 END-OF-PERIOD ORDINATES  
 375. 430. 151. 53. 18. 6. 2.

HYDROGRAPH AT STATION 4B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.17	0.04	0.12	288.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.09	171.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.10	0.02	0.07	113.
1	JAN	0045	4	0.02	0.02	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	85.
1	JAN	0100	5	0.02	0.02	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.06	69.
1	JAN	0115	6	0.02	0.02	0.00	0.	*	1	JAN	1345	56	0.06	0.01	0.05	59.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.06	0.01	0.04	52.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	46.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	43.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.05	0.01	0.04	40.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	38.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	36.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	34.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	32.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	30.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.03	28.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.03	27.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	26.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	26.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	25.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	24.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	23.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.03	0.00	0.02	23.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.03	0.00	0.02	22.
1	JAN	0600	25	0.03	0.03	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	21.
1	JAN	0615	26	0.03	0.03	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	21.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	20.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	19.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	18.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.02	18.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.02	17.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.02	16.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	16.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.02	16.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.02	16.
1	JAN	0845	36	0.04	0.04	0.00	1.	*	1	JAN	2115	86	0.02	0.00	0.01	15.
1	JAN	0900	37	0.04	0.04	0.00	2.	*	1	JAN	2130	87	0.02	0.00	0.01	15.
1	JAN	0915	38	0.05	0.04	0.00	3.	*	1	JAN	2145	88	0.02	0.00	0.01	15.
1	JAN	0930	39	0.05	0.04	0.01	4.	*	1	JAN	2200	89	0.02	0.00	0.01	15.
1	JAN	0945	40	0.05	0.04	0.01	6.	*	1	JAN	2215	90	0.02	0.00	0.01	15.
1	JAN	1000	41	0.05	0.05	0.01	7.	*	1	JAN	2230	91	0.02	0.00	0.01	15.
1	JAN	1015	42	0.06	0.05	0.01	9.	*	1	JAN	2245	92	0.02	0.00	0.01	14.
1	JAN	1030	43	0.07	0.05	0.01	12.	*	1	JAN	2300	93	0.02	0.00	0.01	14.



										100yr.out			
1 JAN 1045	44	0.08	0.06	0.02	16.	*	1 JAN 2315	94	0.02	0.00	0.01	14.	
1 JAN 1100	45	0.10	0.07	0.03	21.	*	1 JAN 2330	95	0.02	0.00	0.01	14.	
1 JAN 1115	46	0.12	0.08	0.04	29.	*	1 JAN 2345	96	0.02	0.00	0.01	14.	
1 JAN 1130	47	0.15	0.10	0.05	42.	*	2 JAN 0000	97	0.02	0.00	0.01	14.	
1 JAN 1145	48	0.62	0.34	0.28	138.	*	2 JAN 0015	98	0.00	0.00	0.00	9.	
1 JAN 1200	49	1.54	0.56	0.98	501.	*	2 JAN 0030	99	0.00	0.00	0.00	3.	
1 JAN 1215	50	0.24	0.07	0.18	535.	*	2 JAN 0045	100	0.00	0.00	0.00	1.	

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TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.73, TOTAL EXCESS = 2.97

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
535.	12.25	104.	32.	31.	31.
		(INCHES)	2.402	2.968	2.968
		(AC-FT)	51.	64.	64.

CUMULATIVE AREA = 0.40 SQ MI

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 38 KK \* 4R \* CNAME 4C  
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39 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

40 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.10 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 4R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	401.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	200.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	134.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	94.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	75.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	63.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	54.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	48.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	44.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	41.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1.	*	1	JAN	1500	61	39.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	2.	*	1	JAN	1515	62	37.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	3.	*	1	JAN	1530	63	35.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	4.	*	1	JAN	1545	64	33.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	5.	*	1	JAN	1600	65	31.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	7.	*	1	JAN	1615	66	29.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	9.	*	1	JAN	1630	67	28.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	11.	*	1	JAN	1645	68	27.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	15.	*	1	JAN	1700	69	26.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	19.	*	1	JAN	1715	70	25.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	26.	*	1	JAN	1730	71	24.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	37.	*	2	JAN	1745	72	24.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	93.	*	2	JAN	1800	73	23.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	337.	*	2	JAN	1815	74	22.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	557.	*	2	JAN	1830	75	21.	*

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
557.	12.25	104.	32.	31.	31.
		(INCHES)	2.403	2.967	2.967
		(AC-FT)	51.	63.	63.

CUMULATIVE AREA = 0.40 SQ MI

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\* \*  
41 KK \* 5B \*  
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42 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

45 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

43 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.63 SUBBASIN AREA

PRECIPITATION DATA

44 PB STORM 5.70 BASIN TOTAL PRECIPITATION

46 PI INCREMENTAL PRECIPITATION PATTERN  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

71 LS SCS LOSS RATE  
STRTL 0.66 INITIAL ABSTRACTION  
CRVNBR 75.11 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

72 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.22 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
6 END-OF-PERIOD ORDINATES  
731. 629. 186. 57. 17. 6.

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HYDROGRAPH AT STATION 5B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.17	0.04	0.13	411.	*
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.11	0.03	0.09	240.	*
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.10	0.02	0.07	163.	*
1	JAN	0045	4	0.02	0.02	0.00	0.	*		1	JAN	1315	54	0.08	0.02	0.06	126.	*
1	JAN	0100	5	0.02	0.02	0.00	0.	*		1	JAN	1330	55	0.07	0.02	0.06	104.	*
1	JAN	0115	6	0.02	0.02	0.00	0.	*		1	JAN	1345	56	0.06	0.01	0.05	91.	*
1	JAN	0130	7	0.02	0.02	0.00	0.	*		1	JAN	1400	57	0.06	0.01	0.04	80.	*
1	JAN	0145	8	0.02	0.02	0.00	0.	*		1	JAN	1415	58	0.05	0.01	0.04	72.	*
1	JAN	0200	9	0.02	0.02	0.00	0.	*		1	JAN	1430	59	0.05	0.01	0.04	67.	*
1	JAN	0215	10	0.02	0.02	0.00	0.	*		1	JAN	1445	60	0.05	0.01	0.04	63.	*
1	JAN	0230	11	0.02	0.02	0.00	0.	*		1	JAN	1500	61	0.04	0.01	0.04	60.	*
1	JAN	0245	12	0.02	0.02	0.00	0.	*		1	JAN	1515	62	0.04	0.01	0.03	57.	*
1	JAN	0300	13	0.02	0.02	0.00	0.	*		1	JAN	1530	63	0.04	0.01	0.03	54.	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.04	0.01	0.03	51.	*
1	JAN	0330	15	0.02	0.02	0.00	0.	*		1	JAN	1600	65	0.03	0.01	0.03	47.	*
1	JAN	0345	16	0.02	0.02	0.00	0.	*		1	JAN	1615	66	0.03	0.01	0.03	45.	*
1	JAN	0400	17	0.02	0.02	0.00	0.	*		1	JAN	1630	67	0.03	0.01	0.03	43.	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.03	0.01	0.02	42.	*
1	JAN	0430	19	0.02	0.02	0.00	0.	*		1	JAN	1700	69	0.03	0.01	0.02	41.	*
1	JAN	0445	20	0.02	0.02	0.00	0.	*		1	JAN	1715	70	0.03	0.01	0.02	39.	*
1	JAN	0500	21	0.02	0.02	0.00	0.	*		1	JAN	1730	71	0.03	0.00	0.02	38.	*
1	JAN	0515	22	0.02	0.02	0.00	0.	*		1	JAN	1745	72	0.03	0.00	0.02	37.	*
1	JAN	0530	23	0.02	0.02	0.00	0.	*		1	JAN	1800	73	0.03	0.00	0.02	36.	*

100yr.out												
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.03	0.00	0.02	35.
1 JAN 0600	25	0.03	0.03	0.00	0.	*	1 JAN 1830	75	0.02	0.00	0.02	34.
1 JAN 0615	26	0.03	0.03	0.00	0.	*	1 JAN 1845	76	0.02	0.00	0.02	32.
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.02	31.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	30.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	29.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.02	28.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.02	27.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.02	26.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	25.
1 JAN 0815	34	0.03	0.03	0.00	1.	*	1 JAN 2045	84	0.02	0.00	0.02	25.
1 JAN 0830	35	0.04	0.04	0.00	2.	*	1 JAN 2100	85	0.02	0.00	0.02	25.
1 JAN 0845	36	0.04	0.04	0.00	3.	*	1 JAN 2115	86	0.02	0.00	0.01	24.
1 JAN 0900	37	0.04	0.04	0.00	5.	*	1 JAN 2130	87	0.02	0.00	0.01	24.
1 JAN 0915	38	0.05	0.04	0.00	7.	*	1 JAN 2145	88	0.02	0.00	0.01	24.
1 JAN 0930	39	0.05	0.04	0.01	8.	*	1 JAN 2200	89	0.02	0.00	0.01	24.
1 JAN 0945	40	0.05	0.04	0.01	10.	*	1 JAN 2215	90	0.02	0.00	0.01	23.
1 JAN 1000	41	0.05	0.04	0.01	13.	*	1 JAN 2230	91	0.02	0.00	0.01	23.
1 JAN 1015	42	0.06	0.05	0.01	17.	*	1 JAN 2245	92	0.02	0.00	0.01	23.
1 JAN 1030	43	0.07	0.05	0.02	22.	*	1 JAN 2300	93	0.02	0.00	0.01	23.
1 JAN 1045	44	0.08	0.06	0.02	29.	*	1 JAN 2315	94	0.02	0.00	0.01	22.
1 JAN 1100	45	0.10	0.07	0.03	38.	*	1 JAN 2330	95	0.02	0.00	0.01	22.
1 JAN 1115	46	0.12	0.08	0.04	52.	*	1 JAN 2345	96	0.02	0.00	0.01	22.
1 JAN 1130	47	0.15	0.10	0.06	74.	*	2 JAN 0000	97	0.02	0.00	0.01	22.
1 JAN 1145	48	0.62	0.33	0.30	262.	*	2 JAN 0015	98	0.00	0.00	0.00	12.
1 JAN 1200	49	1.54	0.54	1.00	932.	*	2 JAN 0030	99	0.00	0.00	0.00	4.
1 JAN 1215	50	0.24	0.06	0.18	823.	*	2 JAN 0045	100	0.00	0.00	0.00	1.

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TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.66, TOTAL EXCESS = 3.04

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
932.	12.00	167.	51.	50.	50.	
		(INCHES)	2.458	3.038	3.038	3.038
		(AC-FT)	83.	102.	102.	102.

CUMULATIVE AREA = 0.63 SQ MI

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*****
*
73 KK *      5R *      CNAME      5C
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74 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
          IPNCH      0 PUNCH COMPUTED HYDROGRAPH
          IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
          ISAV2      100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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75 RM      MUSKINGUM ROUTING
          NSTPS      1 NUMBER OF SUBREACHES
          AMSKK      0.10 MUSKINGUM K
          X          0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 5R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	589.	*	1	JAN	1845	76	33.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	287.	*	1	JAN	1900	77	32.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	191.	*	1	JAN	1915	78	30.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	139.	*	1	JAN	1930	79	29.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	112.	*	1	JAN	1945	80	28.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	95.	*	1	JAN	2000	81	27.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	84.	*	1	JAN	2015	82	26.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	75.	*	1	JAN	2030	83	25.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	69.	*	1	JAN	2045	84	25.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	1.	*	1	JAN	1445	60	65.	*	1	JAN	2100	85	25.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	2.	*	1	JAN	1500	61	61.	*	1	JAN	2115	86	24.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	4.	*	1	JAN	1515	62	58.	*	1	JAN	2130	87	24.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	6.	*	1	JAN	1530	63	55.	*	1	JAN	2145	88	24.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	8.	*	1	JAN	1545	64	52.	*	1	JAN	2200	89	24.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	10.	*	1	JAN	1600	65	49.	*	1	JAN	2215	90	23.	*

100yr.out

1 JAN 0345	16	0.	*	1 JAN 1000	41	12.	*	1 JAN 1615	66	46.	*	1 JAN 2230	91	23.
1 JAN 0400	17	0.	*	1 JAN 1015	42	15.	*	1 JAN 1630	67	44.	*	1 JAN 2245	92	23.
1 JAN 0415	18	0.	*	1 JAN 1030	43	20.	*	1 JAN 1645	68	42.	*	1 JAN 2300	93	23.
1 JAN 0430	19	0.	*	1 JAN 1045	44	26.	*	1 JAN 1700	69	41.	*	1 JAN 2315	94	23.
1 JAN 0445	20	0.	*	1 JAN 1100	45	34.	*	1 JAN 1715	70	40.	*	1 JAN 2330	95	22.
1 JAN 0500	21	0.	*	1 JAN 1115	46	46.	*	1 JAN 1730	71	38.	*	1 JAN 2345	96	22.
1 JAN 0515	22	0.	*	1 JAN 1130	47	64.	*	1 JAN 1745	72	37.	*	2 JAN 0000	97	22.
1 JAN 0530	23	0.	*	1 JAN 1145	48	171.	*	1 JAN 1800	73	36.	*	2 JAN 0015	98	17.
1 JAN 0545	24	0.	*	1 JAN 1200	49	620.	*	1 JAN 1815	74	35.	*	2 JAN 0030	99	7.
1 JAN 0600	25	0.	*	1 JAN 1215	50	942.	*	1 JAN 1830	75	34.	*	2 JAN 0045	100	2.

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PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
+	942.	12.25	166.	51.	50.	50.
		(INCHES)	2.457	3.037	3.037	3.037
		(AC-FT)	83.	102.	102.	102.

CUMULATIVE AREA = 0.63 SQ MI

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 76 KK \* 3aB \*  
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77 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

80 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

78 BA SUBBASIN CHARACTERISTICS

TAREA,	0.43	SUBBASIN AREA
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PRECIPITATION DATA

79 PB STORM 5.70 BASIN TOTAL PRECIPITATION

81 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

106 LS SCS LOSS RATE

STRTL	0.82	INITIAL ABSTRACTION
CRVNR	70.96	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

107 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.21	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 6 END-OF-PERIOD ORDINATES

520.	412.	117.	34.	10.	3.
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HYDROGRAPH AT STATION 3aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1 JAN	0000	1	0.00	0.00	0.00	0.00	0.	*	1 JAN	1230	51	0.17	0.05	0.12	239.	
1 JAN	0015	2	0.01	0.01	0.00	0.	*	*	1 JAN	1245	52	0.11	0.03	0.08	141.	
1 JAN	0030	3	0.01	0.01	0.00	0.	*	*	1 JAN	1300	53	0.10	0.03	0.07	98.	

100yr.out

1 JAN 0045	4	0.02	0.02	0.00	0.	*	1 JAN 1315	54	0.08	0.02	0.06	77.
1 JAN 0100	5	0.02	0.02	0.00	0.	*	1 JAN 1330	55	0.07	0.02	0.05	64.
1 JAN 0115	6	0.02	0.02	0.00	0.	*	1 JAN 1345	56	0.06	0.02	0.05	56.
1 JAN 0130	7	0.02	0.02	0.00	0.	*	1 JAN 1400	57	0.06	0.02	0.04	50.
1 JAN 0145	8	0.02	0.02	0.00	0.	*	1 JAN 1415	58	0.05	0.01	0.04	45.
1 JAN 0200	9	0.02	0.02	0.00	0.	*	1 JAN 1430	59	0.05	0.01	0.04	42.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.05	0.01	0.03	39.
1 JAN 0230	11	0.02	0.02	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	37.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.04	0.01	0.03	36.
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.04	0.01	0.03	34.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.04	0.01	0.03	32.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.03	30.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	28.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	27.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	26.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.03	0.01	0.02	25.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.03	0.01	0.02	25.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.03	0.01	0.02	24.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.03	0.01	0.02	23.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.03	0.01	0.02	23.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.03	0.01	0.02	22.
1 JAN 0600	25	0.03	0.03	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.02	21.
1 JAN 0615	26	0.03	0.03	0.00	0.	*	1 JAN 1845	76	0.02	0.01	0.02	20.
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.01	0.02	20.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	19.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	18.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.02	18.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	17.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	16.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	16.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	16.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	16.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	15.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	15.
1 JAN 0915	38	0.05	0.04	0.00	1.	*	1 JAN 2145	88	0.02	0.00	0.01	15.
1 JAN 0930	39	0.05	0.04	0.00	1.	*	1 JAN 2200	89	0.02	0.00	0.01	15.
1 JAN 0945	40	0.05	0.05	0.00	2.	*	1 JAN 2215	90	0.02	0.00	0.01	15.
1 JAN 1000	41	0.05	0.05	0.00	4.	*	1 JAN 2230	91	0.02	0.00	0.01	15.
1 JAN 1015	42	0.06	0.05	0.01	6.	*	1 JAN 2245	92	0.02	0.00	0.01	14.
1 JAN 1030	43	0.07	0.06	0.01	8.	*	1 JAN 2300	93	0.02	0.00	0.01	15.
1 JAN 1045	44	0.08	0.07	0.01	12.	*	1 JAN 2315	94	0.02	0.00	0.01	14.
1 JAN 1100	45	0.10	0.08	0.02	17.	*	1 JAN 2330	95	0.02	0.00	0.01	14.
1 JAN 1115	46	0.12	0.09	0.03	24.	*	1 JAN 2345	96	0.02	0.00	0.01	14.
1 JAN 1130	47	0.15	0.11	0.04	36.	*	2 JAN 0000	97	0.02	0.00	0.01	14.
1 JAN 1145	48	0.62	0.39	0.24	145.	*	2 JAN 0015	98	0.00	0.00	0.00	7.
1 JAN 1200	49	1.54	0.66	0.88	560.	*	2 JAN 0030	99	0.00	0.00	0.00	2.
1 JAN 1215	50	0.24	0.08	0.16	477.	*	2 JAN 0045	100	0.00	0.00	0.00	1.

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TOTAL RAINFALL = 5.70, TOTAL LOSS = 3.04, TOTAL EXCESS = 2.66

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
560.	12.00	99.	30.	29.	29.
		(INCHES)	2.157	2.655	2.655
		(AC-FT)	49.	60.	60.

CUMULATIVE AREA = 0.43 SQ MI

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108 KK 3bB \*  
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109 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

112 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

110 BA SUBBASIN CHARACTERISTICS

TAREA,	0.45	SUBBASIN AREA
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PRECIPITATION DATA

111 PB STORM 5.70 BASIN TOTAL PRECIPITATION

100yr.out

113 PI	INCREMENTAL PRECIPITATION PATTERN										
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

138 LS	SCS LOSS RATE		
	STRTL	0.67	INITIAL ABSTRACTION
	CRVNBR	74.89	CURVE NUMBER
	RTIMP	0.00	PERCENT IMPERVIOUS AREA

139 UD	SCS DIMENSIONLESS UNITGRAPH	
	TLAG	0.23 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 7 END-OF-PERIOD ORDINATES  
 481. 461. 145. 46. 15. 5. 1.

HYDROGRAPH AT STATION 3bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.17	0.04	0.13	302.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.09	177.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.10	0.02	0.07	119.
1	JAN	0045	4	0.02	0.02	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	91.
1	JAN	0100	5	0.02	0.02	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.06	75.
1	JAN	0115	6	0.02	0.02	0.00	0.	*	1	JAN	1345	56	0.06	0.01	0.05	65.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.06	0.01	0.04	57.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	51.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	47.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.05	0.01	0.04	45.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.04	47.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	40.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	38.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	36.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	34.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.03	32.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.03	30.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	29.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	29.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	28.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	27.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.00	0.02	26.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.03	0.00	0.02	25.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.03	0.00	0.02	24.
1	JAN	0600	25	0.03	0.03	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	24.
1	JAN	0615	26	0.03	0.03	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	23.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	22.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	21.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	21.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.02	20.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.02	19.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.02	18.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	18.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.02	17.
1	JAN	0830	35	0.04	0.04	0.00	1.	*	1	JAN	2100	85	0.02	0.00	0.02	17.
1	JAN	0845	36	0.04	0.04	0.00	2.	*	1	JAN	2115	86	0.02	0.00	0.01	17.
1	JAN	0900	37	0.04	0.04	0.00	3.	*	1	JAN	2130	87	0.02	0.00	0.01	17.
1	JAN	0915	38	0.05	0.04	0.00	4.	*	1	JAN	2145	88	0.02	0.00	0.01	17.
1	JAN	0930	39	0.05	0.04	0.01	6.	*	1	JAN	2200	89	0.02	0.00	0.01	17.
1	JAN	0945	40	0.05	0.04	0.01	7.	*	1	JAN	2215	90	0.02	0.00	0.01	17.
1	JAN	1000	41	0.05	0.04	0.01	9.	*	1	JAN	2230	91	0.02	0.00	0.01	16.
1	JAN	1015	42	0.06	0.05	0.01	12.	*	1	JAN	2245	92	0.02	0.00	0.01	16.
1	JAN	1030	43	0.07	0.05	0.02	15.	*	1	JAN	2300	93	0.02	0.00	0.01	16.
1	JAN	1045	44	0.08	0.06	0.02	20.	*	1	JAN	2315	94	0.02	0.00	0.01	16.
1	JAN	1100	45	0.10	0.07	0.03	26.	*	1	JAN	2330	95	0.02	0.00	0.01	16.
1	JAN	1115	46	0.12	0.08	0.04	35.	*	1	JAN	2345	96	0.02	0.00	0.01	16.
1	JAN	1130	47	0.15	0.10	0.06	50.	*	2	JAN	0000	97	0.02	0.00	0.01	15.
1	JAN	1145	48	0.62	0.33	0.29	174.	*	2	JAN	0015	98	0.00	0.00	0.00	9.
1	JAN	1200	49	1.54	0.55	1.00	624.	*	2	JAN	0030	99	0.00	0.00	0.00	3.
1	JAN	1215	50	0.24	0.06	0.18	592.	*	2	JAN	0045	100	0.00	0.00	0.00	1.

TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.68, TOTAL EXCESS = 3.02

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
+ 624.	12.00	117.	36.	35.	35.
		(INCHES)	2.441	3.017	3.017
		(AC-FT)	58.	72.	72.

CUMULATIVE AREA = 0.45 SQ MI 100yr.out

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*      *
140 KK      3C *      CNAME      3R
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141 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
          IPNCH      0 PUNCH COMPUTED HYDROGRAPH
          IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
          ISAV2      100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250 TIME INTERVAL IN HOURS
  
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142 HC      HYDROGRAPH COMBINATION
          ICOMP      4 NUMBER OF HYDROGRAPHS TO COMBINE
  
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HYDROGRAPH AT STATION 3C  
SUM OF 4 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	1532.	*	1	JAN	1845	76	97.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	806.	*	1	JAN	1900	77	93.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	542.	*	1	JAN	1915	78	90.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	400.	*	1	JAN	1930	79	87.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	326.	*	1	JAN	1945	80	84.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	279.	*	1	JAN	2000	81	80.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	245.	*	1	JAN	2015	82	77.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	220.	*	1	JAN	2030	83	74.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	1.	*	1	JAN	1430	59	202.	*	1	JAN	2045	84	73.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	2.	*	1	JAN	1445	60	190.	*	1	JAN	2100	85	73.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	5.	*	1	JAN	1500	61	180.	*	1	JAN	2115	86	72.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	9.	*	1	JAN	1515	62	171.	*	1	JAN	2130	87	71.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	13.	*	1	JAN	1530	63	161.	*	1	JAN	2145	88	71.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	19.	*	1	JAN	1545	64	152.	*	1	JAN	2200	89	70.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	24.	*	1	JAN	1600	65	143.	*	1	JAN	2215	90	70.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	31.	*	1	JAN	1615	66	134.	*	1	JAN	2230	91	69.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	41.	*	1	JAN	1630	67	128.	*	1	JAN	2245	92	68.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	54.	*	1	JAN	1645	68	124.	*	1	JAN	2300	93	68.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	72.	*	1	JAN	1700	69	121.	*	1	JAN	2315	94	67.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	96.	*	1	JAN	1715	70	117.	*	1	JAN	2330	95	66.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	131.	*	1	JAN	1730	71	114.	*	1	JAN	2345	96	65.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	188.	*	1	JAN	1745	72	111.	*	2	JAN	0000	97	65.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	582.	*	1	JAN	1800	73	107.	*	2	JAN	0015	98	44.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	2142.	*	1	JAN	1815	74	103.	*	2	JAN	0030	99	17.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	2568.	*	1	JAN	1830	75	100.	*	2	JAN	0045	100	5.	*

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PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR	
+	(CFS)	(HR)	(CFS)			
+	2568.	12.25	486.	150.	146.	146.
			(INCHES)	2.374	2.932	2.932
			(AC-FT)	241.	298.	298.

CUMULATIVE AREA = 1.90 SQ MI

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*      *
143 KK      3R *      CNAME      3C
*      *
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144 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
          IPNCH      0 PUNCH COMPUTED HYDROGRAPH
          IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1 FIRST ORDINATE PUNCHED OR SAVED
          ISAV2      100 LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250 TIME INTERVAL IN HOURS
  
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HYDROGRAPH ROUTING DATA

145 RM MUSKINGUM ROUTING  
 NSTPS 2 NUMBER OF SUBREACHES  
 AMSKK 0.05 MUSKINGUM K  
 X 0.20 MUSKINGUM X

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 \*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 3R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	1773.	1	JAN	1845	76	98.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	864.	1	JAN	1900	77	94.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	586.	1	JAN	1915	78	90.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	412.	1	JAN	1930	79	88.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	342.	1	JAN	1945	80	84.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	280.	1	JAN	2000	81	81.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	256.	1	JAN	2015	82	77.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	220.	1	JAN	2030	83	75.
1	JAN	0200	9	0.	1	JAN	0815	34	1.	1	JAN	1430	59	208.	1	JAN	2045	84	73.
1	JAN	0215	10	0.	1	JAN	0830	35	2.	1	JAN	1445	60	189.	1	JAN	2100	85	73.
1	JAN	0230	11	0.	1	JAN	0845	36	5.	1	JAN	1500	61	185.	1	JAN	2115	86	73.
1	JAN	0245	12	0.	1	JAN	0900	37	8.	1	JAN	1515	62	171.	1	JAN	2130	87	71.
1	JAN	0300	13	0.	1	JAN	0915	38	13.	1	JAN	1530	63	165.	1	JAN	2145	88	71.
1	JAN	0315	14	0.	1	JAN	0930	39	18.	1	JAN	1545	64	153.	1	JAN	2200	89	71.
1	JAN	0330	15	0.	1	JAN	0945	40	23.	1	JAN	1600	65	146.	1	JAN	2215	90	70.
1	JAN	0345	16	0.	1	JAN	1000	41	30.	1	JAN	1615	66	135.	1	JAN	2230	91	69.
1	JAN	0400	17	0.	1	JAN	1015	42	39.	1	JAN	1630	67	130.	1	JAN	2245	92	68.
1	JAN	0415	18	0.	1	JAN	1030	43	52.	1	JAN	1645	68	124.	1	JAN	2300	93	68.
1	JAN	0430	19	0.	1	JAN	1045	44	68.	1	JAN	1700	69	122.	1	JAN	2315	94	67.
1	JAN	0445	20	0.	1	JAN	1100	45	91.	1	JAN	1715	70	118.	1	JAN	2330	95	66.
1	JAN	0500	21	0.	1	JAN	1115	46	124.	1	JAN	1730	71	115.	1	JAN	2345	96	65.
1	JAN	0515	22	0.	1	JAN	1130	47	176.	1	JAN	1745	72	111.	2	JAN	0000	97	65.
1	JAN	0530	23	0.	1	JAN	1145	48	475.	1	JAN	1800	73	108.	2	JAN	0015	98	50.
1	JAN	0545	24	0.	1	JAN	1200	49	1754.	1	JAN	1815	74	104.	2	JAN	0030	99	21.
1	JAN	0600	25	0.	1	JAN	1215	50	2679.	1	JAN	1830	75	101.	2	JAN	0045	100	5.

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
+	(CFS)				
+	2679.	12.25	486.	150.	145.
			(INCHES)	2.375	2.932
			(AC-FT)	241.	298.
				298.	298.
			CUMULATIVE AREA =	1.90	SQ MI

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 \* \*  
 146 KK 6B \*  
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147 KO OUTPUT CONTROL VARIABLES  
 IPRT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

150 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

148 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.25 SUBBASIN AREA

PRECIPITATION DATA

149 PB STORM 5.70 BASIN TOTAL PRECIPITATION

151 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01



0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

176 LS SCS LOSS RATE  
STRFL 0.68 INITIAL ABSTRACTION  
CRVNBR 74.58 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

177 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.20 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
6 END-OF-PERIOD ORDINATES  
324. 234. 65. 18. 5. 1.

HYDROGRAPH AT STATION 6B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.17	0.04	0.13	152.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.09	89.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.10	0.02	0.07	61.
1	JAN	0045	4	0.02	0.02	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	48.
1	JAN	0100	5	0.02	0.02	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.06	40.
1	JAN	0115	6	0.02	0.02	0.00	0.	*	1	JAN	1345	56	0.06	0.01	0.05	35.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.06	0.01	0.04	31.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	28.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	26.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.05	0.01	0.04	25.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	24.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	22.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	21.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	20.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	19.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.03	18.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.03	17.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	16.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	16.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	15.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	15.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.00	0.02	15.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.03	0.00	0.02	14.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.03	0.00	0.02	14.
1	JAN	0600	25	0.03	0.03	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	13.
1	JAN	0615	26	0.03	0.03	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	13.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	12.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	12.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	11.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.02	11.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.02	10.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.02	10.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	10.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.02	10.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.02	10.
1	JAN	0845	36	0.04	0.04	0.00	1.	*	1	JAN	2115	86	0.02	0.00	0.01	10.
1	JAN	0900	37	0.04	0.04	0.00	2.	*	1	JAN	2130	87	0.02	0.00	0.01	9.
1	JAN	0915	38	0.05	0.04	0.00	2.	*	1	JAN	2145	88	0.02	0.00	0.01	9.
1	JAN	0930	39	0.05	0.04	0.01	3.	*	1	JAN	2200	89	0.02	0.00	0.01	9.
1	JAN	0945	40	0.05	0.04	0.01	4.	*	1	JAN	2215	90	0.02	0.00	0.01	9.
1	JAN	1000	41	0.05	0.05	0.01	5.	*	1	JAN	2230	91	0.02	0.00	0.01	9.
1	JAN	1015	42	0.06	0.05	0.01	6.	*	1	JAN	2245	92	0.02	0.00	0.01	9.
1	JAN	1030	43	0.07	0.05	0.02	8.	*	1	JAN	2300	93	0.02	0.00	0.01	9.
1	JAN	1045	44	0.08	0.06	0.02	11.	*	1	JAN	2315	94	0.02	0.00	0.01	9.
1	JAN	1100	45	0.10	0.07	0.03	15.	*	1	JAN	2330	95	0.02	0.00	0.01	9.
1	JAN	1115	46	0.12	0.08	0.04	20.	*	1	JAN	2345	96	0.02	0.00	0.01	9.
1	JAN	1130	47	0.15	0.10	0.06	29.	*	2	JAN	0000	97	0.02	0.00	0.01	9.
1	JAN	1145	48	0.62	0.34	0.29	109.	*	2	JAN	0015	98	0.00	0.00	0.00	4.
1	JAN	1200	49	1.54	0.55	0.99	392.	*	2	JAN	0030	99	0.00	0.00	0.00	1.
1	JAN	1215	50	0.24	0.06	0.18	309.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.71, TOTAL EXCESS = 2.99

PEAK FLOW + (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
392.	12.00	65.	20.	20.	20.	
		(INCHES)	2.419	2.988	2.988	2.988
		(AC-FT)	32.	40.	40.	40.

CUMULATIVE AREA = 0.25 SQ MI

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*****
*
178 KK      6R      CNAME      6C
*
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179 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS
    
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HYDROGRAPH ROUTING DATA

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180 RM      MUSKINGUM ROUTING
          NSTPS      1      NUMBER OF SUBREACHES
          AMSKK      0.04   MUSKINGUM K
          X          0.20   MUSKINGUM X
    
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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 6R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 6R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	156.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	102.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	60.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	52.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	40.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	37.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	31.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	29.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	26.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	25.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1.	*	1	JAN	1500	61	24.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	2.	*	1	JAN	1515	62	23.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2.	*	1	JAN	1530	63	21.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	3.	*	1	JAN	1545	64	20.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	4.	*	1	JAN	1600	65	19.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	5.	*	1	JAN	1615	66	18.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	6.	*	1	JAN	1630	67	17.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	8.	*	1	JAN	1645	68	16.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	11.	*	1	JAN	1700	69	16.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	14.	*	1	JAN	1715	70	16.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	19.	*	1	JAN	1730	71	15.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	28.	*	1	JAN	1745	72	15.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	91.	*	1	JAN	1800	73	14.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	336.	*	1	JAN	1815	74	14.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	364.	*	1	JAN	1830	75	13.	*

\*\*\*\*\*

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
+	(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
		(CFS)				
+	364.	12.25	65.	20	20.	20.
		(INCHES)	2.419	2.988	2.988	2.988
		(AC-FT)	32.	40.	40.	40.

CUMULATIVE AREA = 0.25 SQ MI

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181 KK      7bB
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182 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      1      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS
    
```

185 IN        TIME DATA FOR INPUT TIME SERIES  
             JXMIN            6    TIME INTERVAL IN MINUTES  
             JXDATE          1JAN94    STARTING DATE  
             JXTIME           0    STARTING TIME

SUBBASIN RUNOFF DATA

183 BA        SUBBASIN CHARACTERISTICS  
             TAREA,            0.27    SUBBASIN AREA

PRECIPITATION DATA

184 PB        STORM            5.70    BASIN TOTAL PRECIPITATION

186 PI        INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

211 LS        SCS LOSS RATE  
             STRTL            0.65    INITIAL ABSTRACTION  
             CRVNR            75.55    CURVE NUMBER  
             RTIMP            0.00    PERCENT IMPERVIOUS AREA

212 UD        SCS DIMENSIONLESS UNITGRAPH  
             TLAG            0.00    LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES

519.        145.        29.        6.        0.

\*\*\*\*\*  
 HYDROGRAPH AT STATION        7bb  
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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.17	0.04	0.13	124.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.09	76.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.10	0.02	0.08	57.
1	JAN	0045	4	0.02	0.02	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	48.
1	JAN	0100	5	0.02	0.02	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.06	42.
1	JAN	0115	6	0.02	0.02	0.00	0.	*	1	JAN	1345	56	0.06	0.01	0.05	37.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.06	0.01	0.05	33.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	30.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	28.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.05	0.01	0.04	27.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.04	25.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	24.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	23.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	21.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	20.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.03	19.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.03	18.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.03	18.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	17.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.00	0.02	17.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.00	0.02	16.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.00	0.02	16.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.03	0.00	0.02	15.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.03	0.00	0.02	15.
1	JAN	0600	25	0.03	0.03	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	14.
1	JAN	0615	26	0.03	0.03	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	14.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	13.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	13.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	12.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.02	12.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.02	11.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.02	11.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.02	11.
1	JAN	0815	34	0.03	0.03	0.00	1.	*	1	JAN	2045	84	0.02	0.00	0.02	11.
1	JAN	0830	35	0.04	0.03	0.00	1.	*	1	JAN	2100	85	0.02	0.00	0.02	11.
1	JAN	0845	36	0.04	0.04	0.00	2.	*	1	JAN	2115	86	0.02	0.00	0.01	10.
1	JAN	0900	37	0.04	0.04	0.00	3.	*	1	JAN	2130	87	0.02	0.00	0.01	10.
1	JAN	0915	38	0.05	0.04	0.01	4.	*	1	JAN	2145	88	0.02	0.00	0.01	10.
1	JAN	0930	39	0.05	0.04	0.01	4.	*	1	JAN	2200	89	0.02	0.00	0.01	10.
1	JAN	0945	40	0.05	0.04	0.01	5.	*	1	JAN	2215	90	0.02	0.00	0.01	10.
1	JAN	1000	41	0.05	0.04	0.01	7.	*	1	JAN	2230	91	0.02	0.00	0.01	10.
1	JAN	1015	42	0.06	0.05	0.01	9.	*	1	JAN	2245	92	0.02	0.00	0.01	10.
1	JAN	1030	43	0.07	0.05	0.02	11.	*	1	JAN	2300	93	0.02	0.00	0.01	10.
1	JAN	1045	44	0.08	0.06	0.02	14.	*	1	JAN	2315	94	0.02	0.00	0.01	10.
1	JAN	1100	45	0.10	0.07	0.03	19.	*	1	JAN	2330	95	0.02	0.00	0.01	9.
1	JAN	1115	46	0.12	0.08	0.04	26.	*	1	JAN	2345	96	0.02	0.00	0.01	10.
1	JAN	1130	47	0.15	0.09	0.06	37.	*	2	JAN	0000	97	0.02	0.00	0.01	9.

1 JAN 1145	48	0.62	0.32	0.30	167.	100yr.out	*	2 JAN 0015	98	0.00	0.00	0.00	2.
1 JAN 1200	49	1.54	0.53	1.02	573.	*	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.24	0.06	0.18	252.	*	*	2 JAN 0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.62, TOTAL EXCESS = 3.08

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
+ 573.	12.00		72.	22.	22.	22.
		(INCHES)	2.492	3.080	3.080	3.080
		(AC-FT)	36.	44.	44.	44.

CUMULATIVE AREA = 0.27 SQ MI

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\* \*  
213 KK \* 7aB \*  
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214 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

217 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

215 BA SUBBASIN CHARACTERISTICS

TAREA,	0.57	SUBBASIN AREA
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PRECIPITATION DATA

216 PB STORM 5.70 BASIN TOTAL PRECIPITATION

218 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

243 LS SCS LOSS RATE

STRTL	0.72	INITIAL ABSTRACTION
CRVNBR	73.44	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

244 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.00	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
5 END-OF-PERIOD ORDINATES  
1089. 305. 60. 12. 0.

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HYDROGRAPH AT STATION 7aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.17	0.04	0.12	247.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.09	152.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.10	0.02	0.07	114.
1	JAN	0045	4	0.02	0.02	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	96.
1	JAN	0100	5	0.02	0.02	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.06	84.
1	JAN	0115	6	0.02	0.02	0.00	0.	*	1	JAN	1345	56	0.06	0.01	0.05	74.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.06	0.01	0.04	66.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	60.

										100yr.out				
1 JAN 0200	9	0.02	0.02	0.00	0.	*	1 JAN 1430	59	0.05	0.01	0.04	57.		
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.05	0.01	0.04	54.		
1 JAN 0230	11	0.02	0.02	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	51.		
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.04	0.01	0.03	49.		
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.04	0.01	0.03	46.		
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.04	0.01	0.03	43.		
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.03	40.		
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.03	38.		
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.03	37.		
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	36.		
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.03	0.01	0.02	35.		
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.03	0.01	0.02	34.		
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.03	0.01	0.02	33.		
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.03	0.01	0.02	32.		
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.03	0.01	0.02	31.		
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.03	0.00	0.02	30.		
1 JAN 0600	25	0.03	0.03	0.00	0.	*	1 JAN 1830	75	0.02	0.00	0.02	29.		
1 JAN 0615	26	0.03	0.03	0.00	0.	*	1 JAN 1845	76	0.02	0.00	0.02	28.		
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.02	27.		
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	26.		
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	25.		
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.02	24.		
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.02	23.		
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.02	22.		
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	22.		
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	22.		
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	22.		
1 JAN 0845	36	0.04	0.04	0.00	1.	*	1 JAN 2115	86	0.02	0.00	0.01	21.		
1 JAN 0900	37	0.04	0.04	0.00	3.	*	1 JAN 2130	87	0.02	0.00	0.01	21.		
1 JAN 0915	38	0.05	0.04	0.00	4.	*	1 JAN 2145	88	0.02	0.00	0.01	21.		
1 JAN 0930	39	0.05	0.04	0.00	6.	*	1 JAN 2200	89	0.02	0.00	0.01	21.		
1 JAN 0945	40	0.05	0.04	0.01	8.	*	1 JAN 2215	90	0.02	0.00	0.01	21.		
1 JAN 1000	41	0.05	0.05	0.01	10.	*	1 JAN 2230	91	0.02	0.00	0.01	20.		
1 JAN 1015	42	0.06	0.05	0.01	14.	*	1 JAN 2245	92	0.02	0.00	0.01	20.		
1 JAN 1030	43	0.07	0.06	0.01	18.	*	1 JAN 2300	93	0.02	0.00	0.01	20.		
1 JAN 1045	44	0.08	0.06	0.02	24.	*	1 JAN 2315	94	0.02	0.00	0.01	19.		
1 JAN 1100	45	0.10	0.07	0.02	33.	*	1 JAN 2330	95	0.02	0.00	0.01	19.		
1 JAN 1115	46	0.12	0.09	0.03	47.	*	1 JAN 2345	96	0.02	0.00	0.01	19.		
1 JAN 1130	47	0.15	0.10	0.05	68.	*	2 JAN 0000	97	0.02	0.00	0.01	19.		
1 JAN 1145	48	0.62	0.35	0.27	314.	*	2 JAN 0015	98	0.00	0.00	0.00	5.		
1 JAN 1200	49	1.54	0.59	0.95	1124.	*	2 JAN 0030	99	0.00	0.00	0.00	1.		
1 JAN 1215	50	0.24	0.07	0.17	498.	*	2 JAN 0045	100	0.00	0.00	0.00	0.		

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TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.82, TOTAL EXCESS = 2.88

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
1124.	12.00	143.	44.	43.	43.
		(INCHES) 2.338	2.882	2.882	2.882
		(AC-FT) 71.	87.	87.	87.

CUMULATIVE AREA = 0.57 SQ MI

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*          *
245 KK   *      7C *      CNAME      7R
*          *
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246 KO      OUTPUT CONTROL VARIABLES
           IPRNT          1 PRINT CONTROL
           IPLOT          0 PLOT CONTROL
           QSCAL          0. HYDROGRAPH PLOT SCALE
           IPNCH          0 PUNCH COMPUTED HYDROGRAPH
           IOUT           22 SAVE HYDROGRAPH ON THIS UNIT
           ISAV1          1 FIRST ORDINATE PUNCHED OR SAVED
           ISAV2         100 LAST ORDINATE PUNCHED OR SAVED
           TIMINT         0.250 TIME INTERVAL IN HOURS
  
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247 HC      HYDROGRAPH COMBINATION
           ICOMP          3 NUMBER OF HYDROGRAPHS TO COMBINE
  
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HYDROGRAPH AT STATION 7C  
SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	526.	*	1	JAN	1845	76	55.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	329.	*	1	JAN	1900	77	52.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	231.	*	1	JAN	1915	78	51.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	195.	*	1	JAN	1930	79	49.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	166.	*	1	JAN	1945	80	47.	*

		100yr.out									
DATE	TIME	FLOW	DATE	TIME	FLOW	DATE	TIME	FLOW	DATE	TIME	FLOW
1 JAN 0115	6	0.	1 JAN 0730	31	0.	1 JAN 1345	56	148.	1 JAN 2000	81	44.
1 JAN 0130	7	0.	1 JAN 0745	32	0.	1 JAN 1400	57	130.	1 JAN 2015	82	43.
1 JAN 0145	8	0.	1 JAN 0800	33	0.	1 JAN 1415	58	119.	1 JAN 2030	83	42.
1 JAN 0200	9	0.	1 JAN 0815	34	1.	1 JAN 1430	59	111.	1 JAN 2045	84	42.
1 JAN 0215	10	0.	1 JAN 0830	35	2.	1 JAN 1445	60	106.	1 JAN 2100	85	42.
1 JAN 0230	11	0.	1 JAN 0845	36	4.	1 JAN 1500	61	100.	1 JAN 2115	86	41.
1 JAN 0245	12	0.	1 JAN 0900	37	7.	1 JAN 1515	62	95.	1 JAN 2130	87	40.
1 JAN 0300	13	0.	1 JAN 0915	38	10.	1 JAN 1530	63	89.	1 JAN 2145	88	41.
1 JAN 0315	14	0.	1 JAN 0930	39	13.	1 JAN 1545	64	85.	1 JAN 2200	89	40.
1 JAN 0330	15	0.	1 JAN 0945	40	17.	1 JAN 1600	65	79.	1 JAN 2215	90	40.
1 JAN 0345	16	0.	1 JAN 1000	41	22.	1 JAN 1615	66	74.	1 JAN 2230	91	39.
1 JAN 0400	17	0.	1 JAN 1015	42	29.	1 JAN 1630	67	72.	1 JAN 2245	92	39.
1 JAN 0415	18	0.	1 JAN 1030	43	37.	1 JAN 1645	68	70.	1 JAN 2300	93	39.
1 JAN 0430	19	0.	1 JAN 1045	44	49.	1 JAN 1700	69	69.	1 JAN 2315	94	38.
1 JAN 0445	20	0.	1 JAN 1100	45	66.	1 JAN 1715	70	66.	1 JAN 2330	95	37.
1 JAN 0500	21	0.	1 JAN 1115	46	92.	1 JAN 1730	71	64.	1 JAN 2345	96	38.
1 JAN 0515	22	0.	1 JAN 1130	47	133.	1 JAN 1745	72	63.	2 JAN 0000	97	37.
1 JAN 0530	23	0.	1 JAN 1145	48	571.	1 JAN 1800	73	60.	2 JAN 0015	98	13.
1 JAN 0545	24	0.	1 JAN 1200	49	2032.	1 JAN 1815	74	58.	2 JAN 0030	99	3.
1 JAN 0600	25	0.	1 JAN 1215	50	1113.	1 JAN 1830	75	57.	2 JAN 0045	100	1.

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.75-HR
2032.	12.00	281.	87.	84.	84.
		(INCHES)	2.395	2.956	2.956
		(AC-FT)	139.	172.	172.

CUMULATIVE AREA = 1.09 SQ MI

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248 KK * 7R * CNAME 7C
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249 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLST 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS
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HYDROGRAPH ROUTING DATA

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250 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.10 MUSKINGUM K
X 0.20 MUSKINGUM X
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\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 7R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 7R

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	704.	1	JAN	1845	76	56.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	393.	1	JAN	1900	77	53.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	268.	1	JAN	1915	78	51.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	206.	1	JAN	1930	79	50.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	179.	1	JAN	1945	80	48.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	154.	1	JAN	2000	81	46.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	138.	1	JAN	2015	82	44.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	123.	1	JAN	2030	83	43.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	114.	1	JAN	2045	84	42.
1	JAN	0215	10	0.	1	JAN	0830	35	1.	1	JAN	1445	60	108.	1	JAN	2100	85	42.
1	JAN	0230	11	0.	1	JAN	0845	36	3.	1	JAN	1500	61	103.	1	JAN	2115	86	42.
1	JAN	0245	12	0.	1	JAN	0900	37	6.	1	JAN	1515	62	97.	1	JAN	2130	87	41.
1	JAN	0300	13	0.	1	JAN	0915	38	9.	1	JAN	1530	63	92.	1	JAN	2145	88	41.
1	JAN	0315	14	0.	1	JAN	0930	39	12.	1	JAN	1545	64	87.	1	JAN	2200	89	41.
1	JAN	0330	15	0.	1	JAN	0945	40	15.	1	JAN	1600	65	81.	1	JAN	2215	90	40.
1	JAN	0345	16	0.	1	JAN	1000	41	19.	1	JAN	1615	66	76.	1	JAN	2230	91	39.
1	JAN	0400	17	0.	1	JAN	1015	42	26.	1	JAN	1630	67	73.	1	JAN	2245	92	39.
1	JAN	0415	18	0.	1	JAN	1030	43	33.	1	JAN	1645	68	71.	1	JAN	2300	93	39.
1	JAN	0430	19	0.	1	JAN	1045	44	44.	1	JAN	1700	69	69.	1	JAN	2315	94	39.
1	JAN	0445	20	0.	1	JAN	1100	45	58.	1	JAN	1715	70	67.	1	JAN	2330	95	38.
1	JAN	0500	21	0.	1	JAN	1115	46	80.	1	JAN	1730	71	65.	1	JAN	2345	96	38.
1	JAN	0515	22	0.	1	JAN	1130	47	115.	1	JAN	1745	72	63.	2	JAN	0000	97	37.
1	JAN	0530	23	0.	1	JAN	1145	48	355.	1	JAN	1800	73	61.	2	JAN	0015	98	25.
1	JAN	0545	24	0.	1	JAN	1200	49	1341.	1	JAN	1815	74	59.	2	JAN	0030	99	5.

1 JAN 0600 25 0. \* 1 JAN 1215 50 1711. \* 100yr.out \* 1 JAN 1830 75 57. \* 2 JAN 0045 100 1. \*  
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PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 + (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
 + 1711. 12.25 (CFS) 280. 87. 84. 84.  
 (INCHES) 2.393 2.955 2.955 2.955  
 (AC-FT) 139. 172. 172. 172.  
 CUMULATIVE AREA = 1.09 SQ MI

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 251 KK \* 2b \*  
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252 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

255 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

253 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.13 SUBBASIN AREA

PRECIPITATION DATA

254 PB STORM 5.70 BASIN TOTAL PRECIPITATION

256 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

281 LS SCS LOSS RATE  
 STRTL 0.76 INITIAL ABSTRACTION  
 CRVNBR 72.37 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

282 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 240. 67. 13. 3. 0.

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HYDROGRAPH AT STATION 2bB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.17	0.05	0.12	53.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	33.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.10	0.03	0.07	25.
1	JAN	0045	4	0.02	0.02	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	21.
1	JAN	0100	5	0.02	0.02	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	18.
1	JAN	0115	6	0.02	0.02	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.05	16.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.06	0.01	0.04	14.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	13.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	12.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.05	0.01	0.04	12.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	11.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	11.

100yr.out												
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.04	0.01	0.03	10.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.04	0.01	0.03	9.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.03	9.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.03	8.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	8.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	8.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.03	0.01	0.02	8.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.03	0.01	0.02	7.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.03	0.01	0.02	7.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.03	0.01	0.02	7.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.03	0.01	0.02	7.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.03	0.01	0.02	6.
1 JAN 0600	25	0.03	0.03	0.00	0.	*	1 JAN 1830	75	0.02	0.01	0.02	6.
1 JAN 0615	26	0.03	0.03	0.00	0.	*	1 JAN 1845	76	0.02	0.00	0.02	6.
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.02	6.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	6.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	5.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.02	5.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	5.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	5.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	5.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	5.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	5.
1 JAN 0845	36	0.04	0.04	0.00	0.	*	1 JAN 2115	86	0.02	0.00	0.01	5.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.02	0.00	0.01	5.
1 JAN 0915	38	0.05	0.04	0.00	1.	*	1 JAN 2145	88	0.02	0.00	0.01	5.
1 JAN 0930	39	0.05	0.04	0.00	1.	*	1 JAN 2200	89	0.02	0.00	0.01	4.
1 JAN 0945	40	0.05	0.04	0.00	1.	*	1 JAN 2215	90	0.02	0.00	0.01	4.
1 JAN 1000	41	0.05	0.05	0.01	2.	*	1 JAN 2230	91	0.02	0.00	0.01	4.
1 JAN 1015	42	0.06	0.05	0.01	3.	*	1 JAN 2245	92	0.02	0.00	0.01	4.
1 JAN 1030	43	0.07	0.06	0.01	3.	*	1 JAN 2300	93	0.02	0.00	0.01	4.
1 JAN 1045	44	0.08	0.07	0.02	5.	*	1 JAN 2315	94	0.02	0.00	0.01	4.
1 JAN 1100	45	0.10	0.07	0.02	6.	*	1 JAN 2330	95	0.02	0.00	0.01	4.
1 JAN 1115	46	0.12	0.09	0.03	9.	*	1 JAN 2345	96	0.02	0.00	0.01	4.
1 JAN 1130	47	0.15	0.11	0.05	14.	*	2 JAN 0000	97	0.02	0.00	0.01	4.
1 JAN 1145	48	0.62	0.37	0.26	65.	*	2 JAN 0015	98	0.00	0.00	0.00	1.
1 JAN 1200	49	1.54	0.62	0.92	239.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.24	0.07	0.17	106.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.92, TOTAL EXCESS = 2.78

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
+	239.	12.00	30.	9.	9.	9.
		(INCHES)	2.259	2.784	2.784	2.784
		(AC-FT)	15.	19.	19.	19.

CUMULATIVE AREA = 0.13 SQ MI

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 \* \*  
 283 KK \* 2aB \*  
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284 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

287 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

285 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.49 SUBBASIN AREA

PRECIPITATION DATA

286 PB STORM 5.70 BASIN TOTAL PRECIPITATION

288 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



0.00 0.00 0.00 0.00 0.00 100yr.out 0.00 0.00 0.00 0.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00

313 LS SCS LOSS RATE  
STRTL 0.72 INITIAL ABSTRACTION  
CRVNBR 73.52 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

314 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.00 LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
5 END-OF-PERIOD ORDINATES  
940. 263. 52. 10. 0.

HYDROGRAPH AT STATION 2aB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.17	0.04	0.12	213.	*
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.11	0.03	0.09	131.	*
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.10	0.02	0.07	99.	*
1	JAN	0045	4	0.02	0.02	0.00	0.	*		1	JAN	1315	54	0.08	0.02	0.06	83.	*
1	JAN	0100	5	0.02	0.02	0.00	0.	*		1	JAN	1330	55	0.07	0.02	0.06	73.	*
1	JAN	0115	6	0.02	0.02	0.00	0.	*		1	JAN	1345	56	0.06	0.01	0.05	64.	*
1	JAN	0130	7	0.02	0.02	0.00	0.	*		1	JAN	1400	57	0.06	0.01	0.04	57.	*
1	JAN	0145	8	0.02	0.02	0.00	0.	*		1	JAN	1415	58	0.05	0.01	0.04	52.	*
1	JAN	0200	9	0.02	0.02	0.00	0.	*		1	JAN	1430	59	0.05	0.01	0.04	49.	*
1	JAN	0215	10	0.02	0.02	0.00	0.	*		1	JAN	1445	60	0.05	0.01	0.04	47.	*
1	JAN	0230	11	0.02	0.02	0.00	0.	*		1	JAN	1500	61	0.04	0.01	0.03	44.	*
1	JAN	0245	12	0.02	0.02	0.00	0.	*		1	JAN	1515	62	0.04	0.01	0.03	42.	*
1	JAN	0300	13	0.02	0.02	0.00	0.	*		1	JAN	1530	63	0.04	0.01	0.03	39.	*
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.04	0.01	0.03	37.	*
1	JAN	0330	15	0.02	0.02	0.00	0.	*		1	JAN	1600	65	0.03	0.01	0.03	35.	*
1	JAN	0345	16	0.02	0.02	0.00	0.	*		1	JAN	1615	66	0.03	0.01	0.03	33.	*
1	JAN	0400	17	0.02	0.02	0.00	0.	*		1	JAN	1630	67	0.03	0.01	0.03	32.	*
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.03	0.01	0.02	31.	*
1	JAN	0430	19	0.02	0.02	0.00	0.	*		1	JAN	1700	69	0.03	0.01	0.02	30.	*
1	JAN	0445	20	0.02	0.02	0.00	0.	*		1	JAN	1715	70	0.03	0.01	0.02	29.	*
1	JAN	0500	21	0.02	0.02	0.00	0.	*		1	JAN	1730	71	0.03	0.01	0.02	28.	*
1	JAN	0515	22	0.02	0.02	0.00	0.	*		1	JAN	1745	72	0.03	0.01	0.02	28.	*
1	JAN	0530	23	0.02	0.02	0.00	0.	*		1	JAN	1800	73	0.03	0.01	0.02	27.	*
1	JAN	0545	24	0.02	0.02	0.00	0.	*		1	JAN	1815	74	0.03	0.00	0.02	26.	*
1	JAN	0600	25	0.03	0.03	0.00	0.	*		1	JAN	1830	75	0.02	0.00	0.02	25.	*
1	JAN	0615	26	0.03	0.03	0.00	0.	*		1	JAN	1845	76	0.02	0.00	0.02	24.	*
1	JAN	0630	27	0.03	0.03	0.00	0.	*		1	JAN	1900	77	0.02	0.00	0.02	23.	*
1	JAN	0645	28	0.03	0.03	0.00	0.	*		1	JAN	1915	78	0.02	0.00	0.02	23.	*
1	JAN	0700	29	0.03	0.03	0.00	0.	*		1	JAN	1930	79	0.02	0.00	0.02	22.	*
1	JAN	0715	30	0.03	0.03	0.00	0.	*		1	JAN	1945	80	0.02	0.00	0.02	21.	*
1	JAN	0730	31	0.03	0.03	0.00	0.	*		1	JAN	2000	81	0.02	0.00	0.02	20.	*
1	JAN	0745	32	0.03	0.03	0.00	0.	*		1	JAN	2015	82	0.02	0.00	0.02	19.	*
1	JAN	0800	33	0.03	0.03	0.00	0.	*		1	JAN	2030	83	0.02	0.00	0.01	19.	*
1	JAN	0815	34	0.03	0.03	0.00	0.	*		1	JAN	2045	84	0.02	0.00	0.01	19.	*
1	JAN	0830	35	0.04	0.04	0.00	0.	*		1	JAN	2100	85	0.02	0.00	0.01	19.	*
1	JAN	0845	36	0.04	0.04	0.00	1.	*		1	JAN	2115	86	0.02	0.00	0.01	18.	*
1	JAN	0900	37	0.04	0.04	0.00	2.	*		1	JAN	2130	87	0.02	0.00	0.01	18.	*
1	JAN	0915	38	0.05	0.04	0.00	4.	*		1	JAN	2145	88	0.02	0.00	0.01	18.	*
1	JAN	0930	39	0.05	0.04	0.00	5.	*		1	JAN	2200	89	0.02	0.00	0.01	18.	*
1	JAN	0945	40	0.05	0.04	0.01	7.	*		1	JAN	2215	90	0.02	0.00	0.01	18.	*
1	JAN	1000	41	0.05	0.05	0.01	9.	*		1	JAN	2230	91	0.02	0.00	0.01	17.	*
1	JAN	1015	42	0.06	0.05	0.01	12.	*		1	JAN	2245	92	0.02	0.00	0.01	17.	*
1	JAN	1030	43	0.07	0.06	0.01	16.	*		1	JAN	2300	93	0.02	0.00	0.01	17.	*
1	JAN	1045	44	0.08	0.06	0.02	21.	*		1	JAN	2315	94	0.02	0.00	0.01	17.	*
1	JAN	1100	45	0.10	0.07	0.02	28.	*		1	JAN	2330	95	0.02	0.00	0.01	17.	*
1	JAN	1115	46	0.12	0.09	0.04	40.	*		1	JAN	2345	96	0.02	0.00	0.01	17.	*
1	JAN	1130	47	0.15	0.10	0.05	59.	*		2	JAN	0000	97	0.02	0.00	0.01	16.	*
1	JAN	1145	48	0.62	0.35	0.27	272.	*		2	JAN	0015	98	0.00	0.00	0.00	4.	*
1	JAN	1200	49	1.54	0.59	0.95	972.	*		2	JAN	0030	99	0.00	0.00	0.00	1.	*
1	JAN	1215	50	0.24	0.07	0.18	430.	*		2	JAN	0045	100	0.00	0.00	0.00	0.	*

TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.81, TOTAL EXCESS = 2.89

PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
+ 972. 12.00 (CFS) 124. 38. 37. 37.  
(INCHES) 2.343 2.890 2.890 2.890  
(AC-FT) 61. 76. 76. 76.

CUMULATIVE AREA = 0.49 SQ MI

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315 KK \* \* 2C \* CNAME 2R \* \* \* \*\*\*\*\*

316 KO OUTPUT CONTROL VARIABLES IPRNT 1 PRINT CONTROL IPLOT 0 PLOT CONTROL QSCAL 0. HYDROGRAPH PLOT SCALE IPNCH 0 PUNCH COMPUTED HYDROGRAPH IOUT 22 SAVE HYDROGRAPH ON THIS UNIT ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED ISAV2 100 LAST ORDINATE PUNCHED OR SAVED TIMINT 0.250 TIME INTERVAL IN HOURS

317 HC HYDROGRAPH COMBINATION ICOMP 4 NUMBER OF HYDROGRAPHS TO COMBINE

\*\*\*

HYDROGRAPH AT STATION 2C SUM OF 4 HYDROGRAPHS

Table with 18 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 4 times). Rows list hydrograph data for various dates in January, including flow values and peak flow information.

PEAK FLOW TIME (CFS) (HR) MAXIMUM AVERAGE FLOW 6-HR 24-HR 72-HR 24.75-HR CUMULATIVE AREA = 3.61 SQ MI

\*\*\* \*\*

318 KK \* \* 2R \* CNAME 2C \* \* \* \*\*\*\*\*

319 KO OUTPUT CONTROL VARIABLES IPRNT 1 PRINT CONTROL IPLOT 0 PLOT CONTROL QSCAL 0. HYDROGRAPH PLOT SCALE IPNCH 0 PUNCH COMPUTED HYDROGRAPH IOUT 22 SAVE HYDROGRAPH ON THIS UNIT ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED ISAV2 100 LAST ORDINATE PUNCHED OR SAVED TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

320 RM MUSKINGUM ROUTING NSTPS 1 NUMBER OF SUBREACHES AMSKK 0.14 MUSKINGUM K X 0.20 MUSKINGUM X

\*\*\*

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 2R

Table with columns: DA MON HRMN ORD, FLOW, DA MON HRMN ORD, FLOW, DA MON HRMN ORD, FLOW. It lists 25 days of hydrograph data for station 2R, including dates, times, and flow values in CFS and inches.

Summary statistics table with columns: PEAK FLOW (CFS), TIME (HR), 6-HR, 24-HR, 72-HR, 24.75-HR. Values include 4675 CFS at 12.25 HR, with corresponding flow rates in inches and feet per second.

CUMULATIVE AREA = 3.61 SQ MI

\*\*\*\*\*

321 KK 1B \*\*\*\*\*

322 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOR 0 PLOT CONTROL  
QSCAL 0 HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

325 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

323 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.56 SUBBASIN AREA

PRECIPITATION DATA

324 PB STORM 5.70 BASIN TOTAL PRECIPITATION

326 PI INCREMENTAL PRECIPITATION PATTERN table with multiple columns showing precipitation values over time, ranging from 0.00 to 0.02.

351 LS SCS LOSS RATE

STRTL 0.73 INITIAL ABSTRACTION
CRVNR 73.35 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

352 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.00 LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH
5 END-OF-PERIOD ORDINATES

1075. 301. 59. 12. 0.

HYDROGRAPH AT STATION 1B

Table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and a second set of columns for a second station. Rows represent hourly data from 1 JAN 0000 to 1 JAN 1215.

TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.83, TOTAL EXCESS = 2.87

Summary table with columns: PEAK FLOW (CFS), TIME (HR), 6-HR, 24-HR, 72-HR, 24.75-HR. Includes cumulative area = 0.56 SQ MI.

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\* \*
353 KK \* 1C \* CNAME 1C
\* \*
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354 KO      OUTPUT CONTROL VARIABLES
            IPRNT      1  PRINT CONTROL
            IPLOT      0  PLOT CONTROL
            QSCAL      0.  HYDROGRAPH PLOT SCALE
            IPNCH      0  PUNCH COMPUTED HYDROGRAPH
            IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     100  LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250  TIME INTERVAL IN HOURS
  
```

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355 HC      HYDROGRAPH COMBINATION
            ICOMP      2  NUMBER OF HYDROGRAPHS TO COMBINE
  
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HYDROGRAPH AT STATION 1C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	4281.	*	1	JAN	1845	76	215.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2265.	*	1	JAN	1900	77	207.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1307.	*	1	JAN	1915	78	199.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	952.	*	1	JAN	1930	79	192.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	751.	*	1	JAN	1945	80	185.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	641.	*	1	JAN	2000	81	177.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	556.	*	1	JAN	2015	82	170.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	499.	*	1	JAN	2030	83	164.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	1.	*	1	JAN	1430	59	452.	*	1	JAN	2045	84	161.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	2.	*	1	JAN	1445	60	424.	*	1	JAN	2100	85	160.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	7.	*	1	JAN	1500	61	399.	*	1	JAN	2115	86	159.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	15.	*	1	JAN	1515	62	381.	*	1	JAN	2130	87	156.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	25.	*	1	JAN	1530	63	359.	*	1	JAN	2145	88	155.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	36.	*	1	JAN	1545	64	340.	*	1	JAN	2200	89	154.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	48.	*	1	JAN	1600	65	319.	*	1	JAN	2215	90	153.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	62.	*	1	JAN	1615	66	300.	*	1	JAN	2230	91	151.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	82.	*	1	JAN	1630	67	284.	*	1	JAN	2245	92	149.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	108.	*	1	JAN	1645	68	275.	*	1	JAN	2300	93	149.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	143.	*	1	JAN	1700	69	267.	*	1	JAN	2315	94	147.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	190.	*	1	JAN	1715	70	259.	*	1	JAN	2330	95	145.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	260.	*	1	JAN	1730	71	251.	*	1	JAN	2345	96	143.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	368.	*	1	JAN	1745	72	244.	*	2	JAN	0000	97	143.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	1008.	*	1	JAN	1800	73	236.	*	2	JAN	0015	98	110.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	3600.	*	1	JAN	1815	74	229.	*	2	JAN	0030	99	58.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	5165.	*	1	JAN	1830	75	221.	*	2	JAN	0045	100	17.	*

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PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)      6-HR      24-HR      72-HR      24.75-HR
+ 5165.        12.25      (CFS)
                (INCHES)  1060.    327.     317.     317.
                (AC-FT)  2.365   2.920   2.920   2.920
                CUMULATIVE AREA = 4.17 SQ MI
  
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*****
*          *
356 KK      1C *      CNAME      1C
*          *
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357 KO      OUTPUT CONTROL VARIABLES
            IPRNT      1  PRINT CONTROL
            IPLOT      0  PLOT CONTROL
            QSCAL      0.  HYDROGRAPH PLOT SCALE
            IPNCH      0  PUNCH COMPUTED HYDROGRAPH
            IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     100  LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250  TIME INTERVAL IN HOURS
  
```

HYDROGRAPH ROUTING DATA

358 RN NO ROUTING

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HYDROGRAPH AT STATION 1C

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*          *
  
```

				100yr.out													
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	4281.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2265.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1307.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	952.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	751.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	641.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	556.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	499.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	1.	*	1	JAN	1430	59	452.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	2.	*	1	JAN	1445	60	424.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	7.	*	1	JAN	1500	61	399.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	15.	*	1	JAN	1515	62	381.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	25.	*	1	JAN	1530	63	359.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	36.	*	1	JAN	1545	64	340.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	48.	*	1	JAN	1600	65	319.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	62.	*	1	JAN	1615	66	300.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	82.	*	1	JAN	1630	67	284.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	108.	*	1	JAN	1645	68	275.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	143.	*	1	JAN	1700	69	267.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	190.	*	1	JAN	1715	70	259.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	260.	*	1	JAN	1730	71	251.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	368.	*	1	JAN	1745	72	244.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	1008.	*	1	JAN	1800	73	236.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	3600.	*	1	JAN	1815	74	229.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	5165.	*	1	JAN	1830	75	221.	*

\*\*\*\*\*

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
5165.	12.25	1060.	327.	317.	317.
		2.365	2.920	2.920	2.920
		526.	649.	649.	649.

CUMULATIVE AREA = 4.17 SQ MI

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	4B	535.	12.25	104.	32.	31.	0.40		
ROUTED TO	4R	557.	12.25	104.	32.	31.	0.40		
HYDROGRAPH AT	5B	932.	12.00	167.	51.	50.	0.63		
ROUTED TO	5R	942.	12.25	166.	51.	50.	0.63		
HYDROGRAPH AT	3aB	560.	12.00	99.	30.	29.	0.43		
HYDROGRAPH AT	3bB	624.	12.00	117.	36.	35.	0.45		
4 COMBINED AT	3C	2568.	12.25	486.	150.	146.	1.90		
ROUTED TO	3R	2679.	12.25	486.	150.	145.	1.90		
HYDROGRAPH AT	6B	392.	12.00	65.	20.	20.	0.25		
ROUTED TO	6R	364.	12.25	65.	20.	20.	0.25		
HYDROGRAPH AT	7bB	573.	12.00	72.	22.	22.	0.27		
HYDROGRAPH AT	7aB	1124.	12.00	143.	44.	43.	0.57		
3 COMBINED AT	7C	2032.	12.00	281.	87.	84.	1.09		
ROUTED TO	7R	1711.	12.25	280.	87.	84.	1.09		
HYDROGRAPH AT	2bB	239.	12.00	30.	9.	9.	0.13		
HYDROGRAPH AT	2aB	972.	12.00	124.	38.	37.	0.49		
4 COMBINED AT	2C	4926.	12.25	920.	284.	275.	3.61		

100yr.out

+	ROUTED TO	2R	4675.	12.25	920.	284.	275.	3.61
+	HYDROGRAPH AT	1B	1106.	12.00	141.	43.	42.	0.56
+	2 COMBINED AT	1C	5165.	12.25	1060.	327.	317.	4.17
+	ROUTED TO	1C	5165.	12.25	1060.	327.	317.	4.17

\*\*\* NORMAL END OF HEC-1 \*\*\*

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
*****

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*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
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X X XXXXXXX XXXXX X
X X X X X XX
X X X X X
XXXXXXXX XXXX X XXXXX X
X X X X X
X X X X X
X X XXXXXXX XXXXX XXX

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION  
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,  
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION  
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID Scrabble Creek
2 ID w Mining & wo Logging (Scenario 2), LIDAR Data
3 ID Storm Event
*DIAGRAM
4 IT 15 1JAN94 0 100
5 IO 1
* Gage XY Position 480389.00000 4224905.00000 1
6 PG Gage 4.1
7 IN 15 1JAN94 0
* Scrabble Rainfall Distribution
8 PC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.025
9 PC 0.05 0.075 0.1 0.1625 0.225 0.2875 0.35 0.475 0.6 0.725
10 PC 0.85 0.9125 0.975 1.0375 1.1 1.1625 1.225 1.2875 1.35 1.725
11 PC 2.1 2.475 2.85 3.1 3.35 3.6 3.85 3.9125 3.975 4.0375
12 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
13 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
14 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
15 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
16 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
17 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
18 KK 4B
19 KO 0 0 0 1 22
20 BA 0.4012
21 PR Gage
22 PW 1.0
23 PT Gage
24 PW 0.254
25 LS 0.0 74.37 0.0
26 UD 0.2578
27 KK 4R CNAME 4C
28 KO 0 0 0 0 22
29 RM 1 0.097 0.2
30 KK 5B
31 KO 0 0 0 1 22
32 BA 0.6299
33 PR Gage
34 PW 1.0
35 PT Gage
36 PW 0.254
37 LS 0.0 75.11 0.0
38 UD 0.2197
39 KK 5R CNAME 5C
40 KO 0 0 0 0 22
41 RM 1 0.102 0.2
42 KK 3aB
43 KO 0 0 0 1 22
44 BA 0.4252
45 PR Gage
46 PW 1.0
47 PT Gage

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HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
48 PW 0.254

```



LINE	ID	1	2	3	4	5	6	7	8	9	10
49	LS	0.0	70.96	0.0							
50	UD	0.2104									
51	KK	3bB									
52	KO	0	0	0.0	1	22					
53	BA	0.4467									
54	PR	Gage									
55	PW	1.0									
56	PT	Gage									
57	PW	0.254									
58	LS	0.0	73.72	0.0							
59	UD	0.2331									
60	KK	3C	CNAME	3R							
61	KO	0	0	0.0	0	22					
62	HC	4									
63	KK	3R	CNAME	3C							
64	KO	0	0	0.0	0	22					
65	RM	2	0.045	0.2							
66	KK	6B									
67	KO	0	0	0.0	1	22					
68	BA	0.2511									
69	PR	Gage									
70	PW	1.0									
71	PT	Gage									
72	PW	0.254									
73	LS	0.0	74.57	0.0							
74	UD	0.2017									
75	KK	6R	CNAME	6C							
76	KO	0	0	0.0	0	22					
77	RM	1	0.037	0.2							
78	KK	7bB									
79	KO	0	0	0.0	1	22					
80	BA	0.2705									
81	PR	Gage									
82	PW	1.0									
83	PT	Gage									
84	PW	0.254									
85	LS	0.0	74.67	0.0							
86	UD	0.0									
87	KK	7aB									
88	KO	0	0	0.0	1	22					
89	BA	0.5681									
90	PR	Gage									
91	PW	1.0									
92	PT	Gage									
93	PW	0.254									
94	LS	0.0	71.89	0.0							
95	UD	0.0									

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
96	KK	7C	CNAME	7R							
97	KO	0	0	0.0	0	22					
98	HC	3									
99	KK	7R	CNAME	7C							
100	KO	0	0	0.0	0	22					
101	RM	1	0.105	0.2							
102	KK	2bB									
103	KO	0	0	0.0	1	22					
104	BA	0.1252									
105	PR	Gage									
106	PW	1.0									
107	PT	Gage									
108	PW	0.254									
109	LS	0.0	71.61	0.0							
110	UD	0.0									
111	KK	2aB									
112	KO	0	0	0.0	1	22					
113	BA	0.49									
114	PR	Gage									
115	PW	1.0									
116	PT	Gage									
117	PW	0.254									
118	LS	0.0	70.68	0.0							
119	UD	0.0									
120	KK	2C	CNAME	2R							
121	KO	0	0	0.0	0	22					
122	HC	4									
123	KK	2R	CNAME	2C							
124	KO	0	0	0.0	0	22					
125	RM	1	0.138	0.2							
126	KK	1B									
127	KO	0	0	0.0	1	22					
128	BA	0.5606									

```

129      PR      Gage
130      PW      1.0
131      PT      Gage
132      PW      0.254
133      LS      0.0   71.35   0.0
134      UD      0.0

135      KK      1C   CNAME   1C
136      KO      0     0     0.0   0   22
137      HC      2

```

Event.out

HEC-1 INPUT

PAGE 4

```

LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

138      KK      1C   CNAME   1C
139      KO      0     0     0.0   0   22
140      RN      1C
141      ZZ

```

SCHEMATIC DIAGRAM OF STREAM NETWORK

```

INPUT
LINE      (V) ROUTING      (--->) DIVERSION OR PUMP FLOW
NO.      (.) CONNECTOR    (<---) RETURN OF DIVERTED OR PUMPED FLOW

18      4B
        V
27      4R
        .
        .
30      .      5B
        .      V
        .      V
39      .      5R
        .      .
42      .      .      3aB
        .      .      .
51      .      .      .      3bB
        .      .      .      .
60      3C.....
        V
63      3R
        .
66      .      6B
        .      V
75      .      6R
        .      .
78      .      .      7bB
        .      .      .
87      .      .      .      7aB
        .      .      .      .
96      .      7C.....
        .      V
99      .      7R
        .      .
102     .      .      2bB
        .      .      .
111     .      .      .      2aB
        .      .      .      .
120     2C.....
        V
123     2R
        .
126     .      1B
        .      .
135     1C.....
        V
138     1C

```

```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION
*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE TIME *
*****

```

```

*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
*****

```

Scrabble Creek  
w Mining & wo Logging (Scenario 2), LIDAR Data  
Storm Event

5 IO      OUTPUT CONTROL VARIABLES  
           IPRNT        1    PRINT CONTROL  
           IPLOT        0    PLOT CONTROL  
           QSCAL        0.    HYDROGRAPH PLOT SCALE

7 IN      TIME DATA FOR INPUT TIME SERIES  
           JXMIN        15    TIME INTERVAL IN MINUTES  
           JXDATE       1JAN94    STARTING DATE  
           JXTIME        0    STARTING TIME

IT        HYDROGRAPH TIME DATA  
           NMIN        15    MINUTES IN COMPUTATION INTERVAL  
           IDATE        1JAN94    STARTING DATE  
           ITIME        0000    STARTING TIME  
           NQ,           100    NUMBER OF HYDROGRAPH ORDINATES  
           NDDATE       2JAN94    ENDING DATE  
           NDTIME       0045    ENDING TIME  
           ICENT        19    CENTURY MARK

          COMPUTATION INTERVAL    0.25 HOURS  
           TOTAL TIME BASE        24.75 HOURS

ENGLISH UNITS  
 DRAINAGE AREA            SQUARE MILES  
 PRECIPITATION DEPTH      INCHES  
 LENGTH, ELEVATION        FEET  
 FLOW                      CUBIC FEET PER SECOND  
 STORAGE VOLUME           ACRE-Feet  
 SURFACE AREA             ACRES  
 TEMPERATURE             DEGREES FAHRENHEIT

\*\*\* \*\*

\*\*\*\*\*  
 \*            \*  
 18 KK        4B    \*  
 \*            \*  
 \*\*\*\*\*

19 KO      OUTPUT CONTROL VARIABLES  
           IPRNT        1    PRINT CONTROL  
           IPLOT        0    PLOT CONTROL  
           QSCAL        0.    HYDROGRAPH PLOT SCALE  
           IPNCH        1    PUNCH COMPUTED HYDROGRAPH  
           IOUT         22    SAVE HYDROGRAPH ON THIS UNIT  
           ISAV1        1    FIRST ORDINATE PUNCHED OR SAVED  
           ISAV2        100    LAST ORDINATE PUNCHED OR SAVED  
           TIMINT       0.250    TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

20 BA      SUBBASIN CHARACTERISTICS  
           TAREA,       0.40    SUBBASIN AREA

PRECIPITATION DATA

23 PT      TOTAL STORM STATIONS      Gage  
 24 PW      WEIGHTS                    0.25

21 PR      RECORDING STATIONS        Gage  
 22 PW      WEIGHTS                    1.00

25 LS      SCS LOSS RATE  
           STRTL        0.69    INITIAL ABSTRACTION  
           CRVNBR      74.37    CURVE NUMBER  
           RTIMP        0.00    PERCENT IMPERVIOUS AREA

26 UD      SCS DIMENSIONLESS UNITGRAPH  
           TLAG        0.26    LAG

\*\*\*

PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	
0.03	0.02	0.06	0.06	0.06	0.06	0.12	0.13	0.12	0.12	
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37	
0.38	0.38	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06	

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
7 END-OF-PERIOD ORDINATES

375. 430. 151. 53. 18. 6. 2.

HYDROGRAPH AT STATION 4B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.00	0.00	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.03	0.03	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.03	0.03	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.06	0.06	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.06	0.06	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.06	0.06	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.06	0.06	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.12	0.12	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.13	0.13	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.12	0.12	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.12	0.12	0.01	3.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.06	0.06	0.01	5.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.06	0.05	0.01	7.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.06	0.05	0.01	9.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.06	0.05	0.01	10.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	12.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	14.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.02	15.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.04	0.02	17.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.38	0.24	0.13	61.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.37	0.20	0.17	125.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.38	0.18	0.20	170.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.38	0.15	0.22	203.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.25	0.09	0.16	198.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.25	0.08	0.17	180.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.25	0.08	0.17	178.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.25	0.07	0.18	181.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.06	0.02	0.05	134.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.06	0.02	0.05	78.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.06	0.02	0.05	58.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.06	0.02	0.05	51.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	32.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	11.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	4.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	1.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	0.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	0.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.40, TOTAL EXCESS = 1.70

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
203.	8.00	73.	18	18.	18.	
		(INCHES)	1.694	1.697	1.697	1.697
		(AC-FT)	36.	36.	36.	36.

CUMULATIVE AREA = 0.40 SQ MI

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*****
*
27 KK *      4R *      CNAME      4C
*
*****

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28 KO      OUTPUT CONTROL VARIABLES
IPRNT      1      PRINT CONTROL
IPLOT      0      PLOT CONTROL
QSCAL      0.     HYDROGRAPH PLOT SCALE
IPNCH      0      PUNCH COMPUTED HYDROGRAPH
IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
ISAV2      100   LAST ORDINATE PUNCHED OR SAVED
TIMINT     0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

29 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.10 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 4R

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	12.	1	JAN	1230	51	0.	1	JAN	1845	76	0.
1	JAN	0015	2	0.	1	JAN	0630	27	13.	1	JAN	1245	52	0.	1	JAN	1900	77	0.
1	JAN	0030	3	0.	1	JAN	0645	28	15.	1	JAN	1300	53	0.	1	JAN	1915	78	0.
1	JAN	0045	4	0.	1	JAN	0700	29	16.	1	JAN	1315	54	0.	1	JAN	1930	79	0.
1	JAN	0100	5	0.	1	JAN	0715	30	40.	1	JAN	1330	55	0.	1	JAN	1945	80	0.
1	JAN	0115	6	0.	1	JAN	0730	31	99.	1	JAN	1345	56	0.	1	JAN	2000	81	0.
1	JAN	0130	7	0.	1	JAN	0745	32	154.	1	JAN	1400	57	0.	1	JAN	2015	82	0.
1	JAN	0145	8	0.	1	JAN	0800	33	190.	1	JAN	1415	58	0.	1	JAN	2030	83	0.
1	JAN	0200	9	0.	1	JAN	0815	34	203.	1	JAN	1430	59	0.	1	JAN	2045	84	0.
1	JAN	0215	10	0.	1	JAN	0830	35	187.	1	JAN	1445	60	0.	1	JAN	2100	85	0.
1	JAN	0230	11	0.	1	JAN	0845	36	177.	1	JAN	1500	61	0.	1	JAN	2115	86	0.
1	JAN	0245	12	0.	1	JAN	0900	37	180.	1	JAN	1515	62	0.	1	JAN	2130	87	0.
1	JAN	0300	13	0.	1	JAN	0915	38	157.	1	JAN	1530	63	0.	1	JAN	2145	88	0.
1	JAN	0315	14	0.	1	JAN	0930	39	99.	1	JAN	1545	64	0.	1	JAN	2200	89	0.
1	JAN	0330	15	0.	1	JAN	0945	40	62.	1	JAN	1600	65	0.	1	JAN	2215	90	0.
1	JAN	0345	16	0.	1	JAN	1000	41	54.	1	JAN	1615	66	0.	1	JAN	2230	91	0.
1	JAN	0400	17	0.	1	JAN	1015	42	41.	1	JAN	1630	67	0.	1	JAN	2245	92	0.
1	JAN	0415	18	0.	1	JAN	1030	43	19.	1	JAN	1645	68	0.	1	JAN	2300	93	0.
1	JAN	0430	19	0.	1	JAN	1045	44	5.	1	JAN	1700	69	0.	1	JAN	2315	94	0.
1	JAN	0445	20	0.	1	JAN	1100	45	2.	1	JAN	1715	70	0.	1	JAN	2330	95	0.
1	JAN	0500	21	1.	1	JAN	1115	46	1.	1	JAN	1730	71	0.	1	JAN	2345	96	0.
1	JAN	0515	22	4.	1	JAN	1130	47	0.	1	JAN	1745	72	0.	2	JAN	0000	97	0.
1	JAN	0530	23	6.	1	JAN	1145	48	0.	1	JAN	1800	73	0.	2	JAN	0015	98	0.
1	JAN	0545	24	8.	1	JAN	1200	49	0.	1	JAN	1815	74	0.	2	JAN	0030	99	0.
1	JAN	0600	25	10.	1	JAN	1215	50	0.	1	JAN	1830	75	0.	2	JAN	0045	100	0.

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
203.	8.25	73.	18.	18.	18.
		(INCHES)	1.694	1.697	1.697
		(AC-FT)	36.	36.	36.
CUMULATIVE AREA =		0.40 SQ MI			

\*\*\*\*\*

30 KK 5B

31 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

32 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.63 SUBBASIN AREA

PRECIPITATION DATA

35 PT TOTAL STORM STATIONS Gage  
 36 PW WEIGHTS 0.25

33 PR RECORDING STATIONS Gage  
 34 PW WEIGHTS 1.00

37 LS SCS LOSS RATE  
 STRTL 0.66 INITIAL ABSTRACTION  
 CRVNBR 75.11 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

38 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.22 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT  
Gage 4.10 0.00 0.25

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00  
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.03 0.03  
0.03 0.02 0.06 0.06 0.06 0.06 0.12 0.13 0.12  
0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.38 0.37  
0.38 0.38 0.25 0.25 0.25 0.25 0.06 0.06 0.06

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
6 END-OF-PERIOD ORDINATES

731. 629. 186. 57. 17. 6.

HYDROGRAPH AT STATION 5B

Table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and a second set of columns for comparison. Rows list dates from 1 JAN 0000 to 1 JAN 1215 with corresponding hydrograph values.

TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.35, TOTAL EXCESS = 1.75

Table with columns: PEAK FLOW, TIME, 6-HR, MAXIMUM AVERAGE FLOW (24-HR, 72-HR, 24.75-HR). Values include 338. CFS at 8.00 HR and various flow rates in CFS and AC-FT.

CUMULATIVE AREA = 0.63 SQ MI

\*\*\* \*\*

39 KK \*\*\*\*\*
\* \*
\* 5R \* CNAME 5C
\* \*
\*\*\*\*\*

40 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

41 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.10 MUSKINGUM K
X 0.20 MUSKINGUM X

\*\*\*

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

\*\*\*\*\*

HYDROGRAPH AT STATION 5R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 4 times). Rows show hydrograph data for various dates and times, including flow values in CFS and AC-FT.

\*\*\*\*\*

PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR
+ 330. 8.25 (CFS) 118. 30 29. 29.
(INCHES) 1.748 1.750 1.750 1.750
(AC-FT) 59. 59. 59. 59.
CUMULATIVE AREA = 0.63 SQ MI

\*\*\* \*\*

42 KK \*\*\*\*\*
\* \*
\* 3aB \*
\* \*
\*\*\*\*\*

43 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED

TIMINT 0.250 TIME INTERVAL IN HOURS Event.out

SUBBASIN RUNOFF DATA

44 BA SUBBASIN CHARACTERISTICS TAREA, 0.43 SUBBASIN AREA

PRECIPITATION DATA

47 PT TOTAL STORM STATIONS Gage
48 PW WEIGHTS 0.25

45 PR RECORDING STATIONS Gage
46 PW WEIGHTS 1.00

49 LS SCS LOSS RATE STRL 0.82 INITIAL ABSTRACTION
CRVNBR 70.96 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

50 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.21 LAG

\*\*\*

PRECIPITATION STATION DATA

STATION TOTAL AVG. ANNUAL WEIGHT
Gage 4.10 0.00 0.25

TEMPORAL DISTRIBUTIONS

STATION Gage, WEIGHT = 1.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.03 0.03
0.03 0.02 0.06 0.06 0.06 0.06 0.12 0.13 0.12 0.12
0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.38 0.37
0.38 0.38 0.25 0.25 0.25 0.25 0.06 0.06 0.06 0.06

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH
6 END-OF-PERIOD ORDINATES
520. 412. 117. 34. 10. 3.

HYDROGRAPH AT STATION 3aB

Table with 17 columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and 8 empty columns. It contains a series of data points for each hour from 0000 to 2345 on January 1st.



1 JAN 1130	47	0.00	0.00	0.00	0.	Event.out	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	0.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.64, TOTAL EXCESS = 1.46

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
(CFS)	(HR)		6-HR	24-HR	72-HR	24.75-HR
+	193.	8.00	67.	17.	16.	16.
		(CFS)				
		(INCHES)	1.460	1.460	1.460	1.460
		(AC-FT)	33.	33.	33.	33.

CUMULATIVE AREA = 0.43 SQ MI

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\*\*\*\*\*  
\* \*  
51 KK 3bB \*  
\* \*  
\*\*\*\*\*

52 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TMINT	0.250	TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

53 BA SUBBASIN CHARACTERISTICS

TAREA,	0.45	SUBBASIN AREA
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PRECIPITATION DATA

56 PT	TOTAL STORM STATIONS	Gage
57 PW	WEIGHTS	0.25
54 PR	RECORDING STATIONS	Gage
55 PW	WEIGHTS	1.00

58 LS SCS LOSS RATE

STRTL	0.71	INITIAL ABSTRACTION
CRVNR	73.72	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

59 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.23	LAG
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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	
0.03	0.02	0.06	0.06	0.06	0.06	0.06	0.12	0.13	0.12	0.12	
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37	
0.38	0.38	0.25	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06	

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
7 END-OF-PERIOD ORDINATES

481.	461.	145.	46.	15.	5.	1.
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HYDROGRAPH AT STATION 3bB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.

										Event.out				
1 JAN 0145	8	0.00	0.00	0.00	0.	*	1 JAN 1415	58	0.00	0.00	0.00	0.		
1 JAN 0200	9	0.00	0.00	0.00	0.	*	1 JAN 1430	59	0.00	0.00	0.00	0.		
1 JAN 0215	10	0.03	0.03	0.00	0.	*	1 JAN 1445	60	0.00	0.00	0.00	0.		
1 JAN 0230	11	0.03	0.03	0.00	0.	*	1 JAN 1500	61	0.00	0.00	0.00	0.		
1 JAN 0245	12	0.03	0.03	0.00	0.	*	1 JAN 1515	62	0.00	0.00	0.00	0.		
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.00	0.00	0.00	0.		
1 JAN 0315	14	0.06	0.06	0.00	0.	*	1 JAN 1545	64	0.00	0.00	0.00	0.		
1 JAN 0330	15	0.06	0.06	0.00	0.	*	1 JAN 1600	65	0.00	0.00	0.00	0.		
1 JAN 0345	16	0.06	0.06	0.00	0.	*	1 JAN 1615	66	0.00	0.00	0.00	0.		
1 JAN 0400	17	0.06	0.06	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.		
1 JAN 0415	18	0.12	0.12	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.		
1 JAN 0430	19	0.13	0.13	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.		
1 JAN 0445	20	0.12	0.12	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.		
1 JAN 0500	21	0.12	0.12	0.01	2.	*	1 JAN 1730	71	0.00	0.00	0.00	0.		
1 JAN 0515	22	0.06	0.06	0.01	5.	*	1 JAN 1745	72	0.00	0.00	0.00	0.		
1 JAN 0530	23	0.06	0.06	0.01	7.	*	1 JAN 1800	73	0.00	0.00	0.00	0.		
1 JAN 0545	24	0.06	0.05	0.01	9.	*	1 JAN 1815	74	0.00	0.00	0.00	0.		
1 JAN 0600	25	0.06	0.05	0.01	11.	*	1 JAN 1830	75	0.00	0.00	0.00	0.		
1 JAN 0615	26	0.06	0.05	0.01	13.	*	1 JAN 1845	76	0.00	0.00	0.00	0.		
1 JAN 0630	27	0.06	0.05	0.01	15.	*	1 JAN 1900	77	0.00	0.00	0.00	0.		
1 JAN 0645	28	0.06	0.05	0.02	16.	*	1 JAN 1915	78	0.00	0.00	0.00	0.		
1 JAN 0700	29	0.06	0.05	0.02	18.	*	1 JAN 1930	79	0.00	0.00	0.00	0.		
1 JAN 0715	30	0.38	0.25	0.13	72.	*	1 JAN 1945	80	0.00	0.00	0.00	0.		
1 JAN 0730	31	0.37	0.21	0.16	141.	*	1 JAN 2000	81	0.00	0.00	0.00	0.		
1 JAN 0745	32	0.38	0.18	0.19	189.	*	1 JAN 2015	82	0.00	0.00	0.00	0.		
1 JAN 0800	33	0.38	0.16	0.22	224.	*	1 JAN 2030	83	0.00	0.00	0.00	0.		
1 JAN 0815	34	0.25	0.09	0.16	213.	*	1 JAN 2045	84	0.00	0.00	0.00	0.		
1 JAN 0830	35	0.25	0.09	0.16	195.	*	1 JAN 2100	85	0.00	0.00	0.00	0.		
1 JAN 0845	36	0.25	0.08	0.17	194.	*	1 JAN 2115	86	0.00	0.00	0.00	0.		
1 JAN 0900	37	0.25	0.07	0.18	199.	*	1 JAN 2130	87	0.00	0.00	0.00	0.		
1 JAN 0915	38	0.06	0.02	0.04	139.	*	1 JAN 2145	88	0.00	0.00	0.00	0.		
1 JAN 0930	39	0.06	0.02	0.05	79.	*	1 JAN 2200	89	0.00	0.00	0.00	0.		
1 JAN 0945	40	0.06	0.02	0.05	61.	*	1 JAN 2215	90	0.00	0.00	0.00	0.		
1 JAN 1000	41	0.06	0.02	0.05	55.	*	1 JAN 2230	91	0.00	0.00	0.00	0.		
1 JAN 1015	42	0.00	0.00	0.00	32.	*	1 JAN 2245	92	0.00	0.00	0.00	0.		
1 JAN 1030	43	0.00	0.00	0.00	10.	*	1 JAN 2300	93	0.00	0.00	0.00	0.		
1 JAN 1045	44	0.00	0.00	0.00	3.	*	1 JAN 2315	94	0.00	0.00	0.00	0.		
1 JAN 1100	45	0.00	0.00	0.00	1.	*	1 JAN 2330	95	0.00	0.00	0.00	0.		
1 JAN 1115	46	0.00	0.00	0.00	0.	*	1 JAN 2345	96	0.00	0.00	0.00	0.		
1 JAN 1130	47	0.00	0.00	0.00	0.	*	2 JAN 0000	97	0.00	0.00	0.00	0.		
1 JAN 1145	48	0.00	0.00	0.00	0.	*	2 JAN 0015	98	0.00	0.00	0.00	0.		
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.		
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.		

\*\*\*\*\*

TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.45, TOTAL EXCESS = 1.65

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)			
224.	8.00	79.	20.	19.	19.
		(INCHES)	1.648	1.650	1.650
		(AC-FT)	39.	39.	39.

CUMULATIVE AREA = 0.45 SQ MI

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\*\*\*\*\*  
 60 KK 3C \* CNAME 3R  
 \*\*\*\*\*

61 KO OUTPUT CONTROL VARIABLES  
 IPRT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

62 HC HYDROGRAPH COMBINATION  
 ICOMP 4 NUMBER OF HYDROGRAPHS TO COMBINE

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\*\*\*\*\*

HYDROGRAPH AT STATION 3C  
 SUM OF 4 HYDROGRAPHS

\*\*\*\*\*

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	53.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	61.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	68.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	75.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*

		Event.out												
1 JAN 0100	5	0.	*	1 JAN 0715	30	248.	*	1 JAN 1330	55	0.	*	1 JAN 1945	80	0.
1 JAN 0115	6	0.	*	1 JAN 0730	31	539.	*	1 JAN 1345	56	0.	*	1 JAN 2000	81	0.
1 JAN 0130	7	0.	*	1 JAN 0745	32	768.	*	1 JAN 1400	57	0.	*	1 JAN 2015	82	0.
1 JAN 0145	8	0.	*	1 JAN 0800	33	927.	*	1 JAN 1415	58	0.	*	1 JAN 2030	83	0.
1 JAN 0200	9	0.	*	1 JAN 0815	34	928.	*	1 JAN 1430	59	0.	*	1 JAN 2045	84	0.
1 JAN 0215	10	0.	*	1 JAN 0830	35	846.	*	1 JAN 1445	60	0.	*	1 JAN 2100	85	0.
1 JAN 0230	11	0.	*	1 JAN 0845	36	824.	*	1 JAN 1500	61	0.	*	1 JAN 2115	86	0.
1 JAN 0245	12	0.	*	1 JAN 0900	37	842.	*	1 JAN 1515	62	0.	*	1 JAN 2130	87	0.
1 JAN 0300	13	0.	*	1 JAN 0915	38	654.	*	1 JAN 1530	63	0.	*	1 JAN 2145	88	0.
1 JAN 0315	14	0.	*	1 JAN 0930	39	387.	*	1 JAN 1545	64	0.	*	1 JAN 2200	89	0.
1 JAN 0330	15	0.	*	1 JAN 0945	40	268.	*	1 JAN 1600	65	0.	*	1 JAN 2215	90	0.
1 JAN 0345	16	0.	*	1 JAN 1000	41	240.	*	1 JAN 1615	66	0.	*	1 JAN 2230	91	0.
1 JAN 0400	17	0.	*	1 JAN 1015	42	158.	*	1 JAN 1630	67	0.	*	1 JAN 2245	92	0.
1 JAN 0415	18	0.	*	1 JAN 1030	43	60.	*	1 JAN 1645	68	0.	*	1 JAN 2300	93	0.
1 JAN 0430	19	0.	*	1 JAN 1045	44	16.	*	1 JAN 1700	69	0.	*	1 JAN 2315	94	0.
1 JAN 0445	20	1.	*	1 JAN 1100	45	6.	*	1 JAN 1715	70	0.	*	1 JAN 2330	95	0.
1 JAN 0500	21	8.	*	1 JAN 1115	46	2.	*	1 JAN 1730	71	0.	*	1 JAN 2345	96	0.
1 JAN 0515	22	20.	*	1 JAN 1130	47	0.	*	1 JAN 1745	72	0.	*	2 JAN 0000	97	0.
1 JAN 0530	23	28.	*	1 JAN 1145	48	0.	*	1 JAN 1800	73	0.	*	2 JAN 0015	98	0.
1 JAN 0545	24	36.	*	1 JAN 1200	49	0.	*	1 JAN 1815	74	0.	*	2 JAN 0030	99	0.
1 JAN 0600	25	45.	*	1 JAN 1215	50	0.	*	1 JAN 1830	75	0.	*	2 JAN 0045	100	0.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
928.	8.25	337.	84.	82.	82.
		(INCHES)	1.649	1.651	1.651
		(AC-FT)	167.	168.	168.

CUMULATIVE AREA = 1.90 SQ MI

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 63 KK 3R \* CNAME 3C  
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64 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

65 RM MUSKINGUM ROUTING  
 NSTPS 2 NUMBER OF SUBREACHES  
 AMSKK 0.05 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 3R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN 0000			1	0.	*	1 JAN 0615			26	51.	*	1 JAN 1230			51	0.	*	1 JAN 1845			76	0.	*
1 JAN 0015			2	0.	*	1 JAN 0630			27	59.	*	1 JAN 1245			52	0.	*	1 JAN 1900			77	0.	*
1 JAN 0030			3	0.	*	1 JAN 0645			28	67.	*	1 JAN 1300			53	0.	*	1 JAN 1915			78	0.	*
1 JAN 0045			4	0.	*	1 JAN 0700			29	74.	*	1 JAN 1315			54	0.	*	1 JAN 1930			79	0.	*
1 JAN 0100			5	0.	*	1 JAN 0715			30	198.	*	1 JAN 1330			55	0.	*	1 JAN 1945			80	0.	*
1 JAN 0115			6	0.	*	1 JAN 0730			31	484.	*	1 JAN 1345			56	0.	*	1 JAN 2000			81	0.	*
1 JAN 0130			7	0.	*	1 JAN 0745			32	736.	*	1 JAN 1400			57	0.	*	1 JAN 2015			82	0.	*
1 JAN 0145			8	0.	*	1 JAN 0800			33	901.	*	1 JAN 1415			58	0.	*	1 JAN 2030			83	0.	*
1 JAN 0200			9	0.	*	1 JAN 0815			34	944.	*	1 JAN 1430			59	0.	*	1 JAN 2045			84	0.	*
1 JAN 0215			10	0.	*	1 JAN 0830			35	860.	*	1 JAN 1445			60	0.	*	1 JAN 2100			85	0.	*
1 JAN 0230			11	0.	*	1 JAN 0845			36	821.	*	1 JAN 1500			61	0.	*	1 JAN 2115			86	0.	*
1 JAN 0245			12	0.	*	1 JAN 0900			37	839.	*	1 JAN 1515			62	0.	*	1 JAN 2130			87	0.	*
1 JAN 0300			13	0.	*	1 JAN 0915			38	711.	*	1 JAN 1530			63	0.	*	1 JAN 2145			88	0.	*
1 JAN 0315			14	0.	*	1 JAN 0930			39	431.	*	1 JAN 1545			64	0.	*	1 JAN 2200			89	0.	*
1 JAN 0330			15	0.	*	1 JAN 0945			40	275.	*	1 JAN 1600			65	0.	*	1 JAN 2215			90	0.	*
1 JAN 0345			16	0.	*	1 JAN 1000			41	244.	*	1 JAN 1615			66	0.	*	1 JAN 2230			91	0.	*
1 JAN 0400			17	0.	*	1 JAN 1015			42	179.	*	1 JAN 1630			67	0.	*	1 JAN 2245			92	0.	*
1 JAN 0415			18	0.	*	1 JAN 1030			43	76.	*	1 JAN 1645			68	0.	*	1 JAN 2300			93	0.	*
1 JAN 0430			19	0.	*	1 JAN 1045			44	18.	*	1 JAN 1700			69	0.	*	1 JAN 2315			94	0.	*
1 JAN 0445			20	0.	*	1 JAN 1100			45	8.	*	1 JAN 1715			70	0.	*	1 JAN 2330			95	0.	*
1 JAN 0500			21	6.	*	1 JAN 1115			46	1.	*	1 JAN 1730			71	0.	*	1 JAN 2345			96	0.	*
1 JAN 0515			22	18.	*	1 JAN 1130			47	1.	*	1 JAN 1745			72	0.	*	2 JAN 0000			97	0.	*
1 JAN 0530			23	28.	*	1 JAN 1145			48	-1.	*	1 JAN 1800			73	0.	*	2 JAN 0015			98	0.	*

1 JAN 0545 24 34. \* 1 JAN 1200 49 0. \* 1 JAN 1815 74 0. \* 2 JAN 0030 99 0.  
 1 JAN 0600 25 43. \* 1 JAN 1215 50 0. \* 1 JAN 1830 75 0. \* 2 JAN 0045 100 0.  
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PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 + (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
 + 944. 8.25 (CFS) 337. 84. 82. 82.  
 (INCHES) 1.649 1.651 1.651 1.651  
 (AC-FT) 167. 168. 168. 168.  
 CUMULATIVE AREA = 1.90 SQ MI

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 66 KK \* 6B \*  
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67 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA  
 68 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.25 SUBBASIN AREA

PRECIPITATION DATA  
 71 PT TOTAL STORM STATIONS Gage  
 72 PW WEIGHTS 0.25  
 69 PR RECORDING STATIONS Gage  
 70 PW WEIGHTS 1.00  
 73 LS SCS LOSS RATE  
 STRTL 0.68 INITIAL ABSTRACTION  
 CRVNBR 74.57 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA  
 74 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.20 LAG

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PRECIPITATION STATION DATA  
 STATION TOTAL AVG. ANNUAL WEIGHT  
 Gage 4.10 0.00 0.25

TEMPORAL DISTRIBUTIONS  
 STATION Gage, WEIGHT = 1.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.03 0.03  
 0.03 0.02 0.06 0.06 0.06 0.06 0.12 0.13 0.12 0.12  
 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.38 0.37  
 0.38 0.38 0.25 0.25 0.25 0.25 0.06 0.06 0.06 0.06

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 6 END-OF-PERIOD ORDINATES  
 324. 234. 65. 18. 5. 1.

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HYDROGRAPH AT STATION 6B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.00	0.00	0.00	0.	*
1	JAN	0015	2	0.00	0.00	0.00	0.	*	*	1	JAN	1245	52	0.00	0.00	0.00	0.	*
1	JAN	0030	3	0.00	0.00	0.00	0.	*	*	1	JAN	1300	53	0.00	0.00	0.00	0.	*
1	JAN	0045	4	0.00	0.00	0.00	0.	*	*	1	JAN	1315	54	0.00	0.00	0.00	0.	*
1	JAN	0100	5	0.00	0.00	0.00	0.	*	*	1	JAN	1330	55	0.00	0.00	0.00	0.	*
1	JAN	0115	6	0.00	0.00	0.00	0.	*	*	1	JAN	1345	56	0.00	0.00	0.00	0.	*
1	JAN	0130	7	0.00	0.00	0.00	0.	*	*	1	JAN	1400	57	0.00	0.00	0.00	0.	*
1	JAN	0145	8	0.00	0.00	0.00	0.	*	*	1	JAN	1415	58	0.00	0.00	0.00	0.	*
1	JAN	0200	9	0.00	0.00	0.00	0.	*	*	1	JAN	1430	59	0.00	0.00	0.00	0.	*
1	JAN	0215	10	0.03	0.03	0.00	0.	*	*	1	JAN	1445	60	0.00	0.00	0.00	0.	*
1	JAN	0230	11	0.03	0.03	0.00	0.	*	*	1	JAN	1500	61	0.00	0.00	0.00	0.	*

Event.out												
1 JAN 0245	12	0.03	0.03	0.00	0.	*	1 JAN 1515	62	0.00	0.00	0.00	0.
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.00	0.00	0.00	0.
1 JAN 0315	14	0.06	0.06	0.00	0.	*	1 JAN 1545	64	0.00	0.00	0.00	0.
1 JAN 0330	15	0.06	0.06	0.00	0.	*	1 JAN 1600	65	0.00	0.00	0.00	0.
1 JAN 0345	16	0.06	0.06	0.00	0.	*	1 JAN 1615	66	0.00	0.00	0.00	0.
1 JAN 0400	17	0.06	0.06	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.
1 JAN 0415	18	0.12	0.12	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.
1 JAN 0430	19	0.13	0.13	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.
1 JAN 0445	20	0.12	0.12	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.
1 JAN 0500	21	0.12	0.12	0.01	3.	*	1 JAN 1730	71	0.00	0.00	0.00	0.
1 JAN 0515	22	0.06	0.06	0.01	4.	*	1 JAN 1745	72	0.00	0.00	0.00	0.
1 JAN 0530	23	0.06	0.05	0.01	5.	*	1 JAN 1800	73	0.00	0.00	0.00	0.
1 JAN 0545	24	0.06	0.05	0.01	6.	*	1 JAN 1815	74	0.00	0.00	0.00	0.
1 JAN 0600	25	0.06	0.05	0.01	7.	*	1 JAN 1830	75	0.00	0.00	0.00	0.
1 JAN 0615	26	0.06	0.05	0.01	8.	*	1 JAN 1845	76	0.00	0.00	0.00	0.
1 JAN 0630	27	0.06	0.05	0.02	9.	*	1 JAN 1900	77	0.00	0.00	0.00	0.
1 JAN 0645	28	0.06	0.05	0.02	10.	*	1 JAN 1915	78	0.00	0.00	0.00	0.
1 JAN 0700	29	0.06	0.04	0.02	11.	*	1 JAN 1930	79	0.00	0.00	0.00	0.
1 JAN 0715	30	0.38	0.24	0.13	49.	*	1 JAN 1945	80	0.00	0.00	0.00	0.
1 JAN 0730	31	0.37	0.20	0.17	89.	*	1 JAN 2000	81	0.00	0.00	0.00	0.
1 JAN 0745	32	0.38	0.17	0.20	115.	*	1 JAN 2015	82	0.00	0.00	0.00	0.
1 JAN 0800	33	0.38	0.15	0.22	134.	*	1 JAN 2030	83	0.00	0.00	0.00	0.
1 JAN 0815	34	0.25	0.09	0.16	122.	*	1 JAN 2045	84	0.00	0.00	0.00	0.
1 JAN 0830	35	0.25	0.08	0.17	111.	*	1 JAN 2100	85	0.00	0.00	0.00	0.
1 JAN 0845	36	0.25	0.08	0.17	112.	*	1 JAN 2115	86	0.00	0.00	0.00	0.
1 JAN 0900	37	0.25	0.07	0.18	115.	*	1 JAN 2130	87	0.00	0.00	0.00	0.
1 JAN 0915	38	0.06	0.02	0.05	73.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.06	0.02	0.05	42.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.06	0.02	0.05	33.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.06	0.02	0.05	31.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	15.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	4.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	1.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	0.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	0.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	0.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	0.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.39, TOTAL EXCESS = 1.71

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
134.	8.00	46.	12.	11.	11.
		(INCHES)	1.709	1.711	1.711
		(AC-FT)	23.	23.	23.
CUMULATIVE AREA =		0.25 SQ MI			

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 75 KK 6R \* CNAME 6C  
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76 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

77 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.04 MUSKINGUM K  
 X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 6R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 6R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	8.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	9.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	10.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*

		Event.out												
1 JAN 0045	4	0.	*	1 JAN 0700	29	11.	*	1 JAN 1315	54	0.	*	1 JAN 1930	79	0.
1 JAN 0100	5	0.	*	1 JAN 0715	30	40.	*	1 JAN 1330	55	0.	*	1 JAN 1945	80	0.
1 JAN 0115	6	0.	*	1 JAN 0730	31	85.	*	1 JAN 1345	56	0.	*	1 JAN 2000	81	0.
1 JAN 0130	7	0.	*	1 JAN 0745	32	111.	*	1 JAN 1400	57	0.	*	1 JAN 2015	82	0.
1 JAN 0145	8	0.	*	1 JAN 0800	33	132.	*	1 JAN 1415	58	0.	*	1 JAN 2030	83	0.
1 JAN 0200	9	0.	*	1 JAN 0815	34	126.	*	1 JAN 1430	59	0.	*	1 JAN 2045	84	0.
1 JAN 0215	10	0.	*	1 JAN 0830	35	111.	*	1 JAN 1445	60	0.	*	1 JAN 2100	85	0.
1 JAN 0230	11	0.	*	1 JAN 0845	36	112.	*	1 JAN 1500	61	0.	*	1 JAN 2115	86	0.
1 JAN 0245	12	0.	*	1 JAN 0900	37	114.	*	1 JAN 1515	62	0.	*	1 JAN 2130	87	0.
1 JAN 0300	13	0.	*	1 JAN 0915	38	83.	*	1 JAN 1530	63	0.	*	1 JAN 2145	88	0.
1 JAN 0315	14	0.	*	1 JAN 0930	39	43.	*	1 JAN 1545	64	0.	*	1 JAN 2200	89	0.
1 JAN 0330	15	0.	*	1 JAN 0945	40	35.	*	1 JAN 1600	65	0.	*	1 JAN 2215	90	0.
1 JAN 0345	16	0.	*	1 JAN 1000	41	31.	*	1 JAN 1615	66	0.	*	1 JAN 2230	91	0.
1 JAN 0400	17	0.	*	1 JAN 1015	42	19.	*	1 JAN 1630	67	0.	*	1 JAN 2245	92	0.
1 JAN 0415	18	0.	*	1 JAN 1030	43	4.	*	1 JAN 1645	68	0.	*	1 JAN 2300	93	0.
1 JAN 0430	19	0.	*	1 JAN 1045	44	2.	*	1 JAN 1700	69	0.	*	1 JAN 2315	94	0.
1 JAN 0445	20	0.	*	1 JAN 1100	45	0.	*	1 JAN 1715	70	0.	*	1 JAN 2330	95	0.
1 JAN 0500	21	2.	*	1 JAN 1115	46	0.	*	1 JAN 1730	71	0.	*	1 JAN 2345	96	0.
1 JAN 0515	22	4.	*	1 JAN 1130	47	0.	*	1 JAN 1745	72	0.	*	2 JAN 0000	97	0.
1 JAN 0530	23	5.	*	1 JAN 1145	48	0.	*	1 JAN 1800	73	0.	*	2 JAN 0015	98	0.
1 JAN 0545	24	6.	*	1 JAN 1200	49	0.	*	1 JAN 1815	74	0.	*	2 JAN 0030	99	0.
1 JAN 0600	25	7.	*	1 JAN 1215	50	0.	*	1 JAN 1830	75	0.	*	2 JAN 0045	100	0.

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
132.	8.00	46.	12.	11.	11.	
		(INCHES)	1.709	1.711	1.711	1.711
		(AC-FT)	23.	23.	23.	23.

CUMULATIVE AREA = 0.25 SQ MI

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\* \*  
78 KK \* 7bB \*  
\* \*  
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79 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

80 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.27 SUBBASIN AREA

PRECIPITATION DATA

83 FT TOTAL STORM STATIONS Gage  
84 PW WEIGHTS 0.25

81 PR RECORDING STATIONS Gage  
82 PW WEIGHTS 1.00

85 LS SCS LOSS RATE

STRTL	0.68	INITIAL ABSTRACTION
CRVNBR	74.67	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

86 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.00 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	
0.03	0.02	0.06	0.06	0.06	0.06	0.12	0.13	0.12	0.12	
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37	
0.38	0.38	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06	

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
5 END-OF-PERIOD ORDINATES  
519. 145. 29. 6. 0.

HYDROGRAPH AT STATION 7bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.00	0.00	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.03	0.03	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.03	0.03	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.06	0.06	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.06	0.06	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.06	0.06	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.06	0.06	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.12	0.12	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.13	0.13	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.12	0.12	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.12	0.12	0.01	4.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.06	0.06	0.01	5.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.06	0.05	0.01	6.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.06	0.05	0.01	7.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.06	0.05	0.01	8.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	9.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.02	10.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.02	11.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.04	0.02	12.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.38	0.24	0.14	74.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.37	0.20	0.17	110.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.38	0.17	0.20	134.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.38	0.15	0.23	152.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.25	0.09	0.16	123.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.25	0.08	0.17	118.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.25	0.08	0.17	121.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.25	0.07	0.18	125.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.06	0.02	0.05	56.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.06	0.02	0.05	37.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.06	0.02	0.05	33.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.06	0.02	0.05	33.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	8.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	2.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	0.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	0.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	0.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	0.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.38, TOTAL EXCESS = 1.72

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
+	152.	8.00	(CFS)			
			(INCHES)	1.718	1.718	1.718
			(AC-FT)	25.	25.	25.
			CUMULATIVE AREA =	0.27 SQ MI		

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87 KK \*\*\*\*\*  
\* 7aB \*  
\* \*  
\*\*\*\*\*

88 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

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89 BA      SUBBASIN CHARACTERISTICS
          TAREA,      0.57 SUBBASIN AREA

          PRECIPITATION DATA

92 PT      TOTAL STORM STATIONS      Gage
93 PW      WEIGHTS                    0.25

90 PR      RECORDING STATIONS        Gage
91 PW      WEIGHTS                    1.00

94 LS      SCS LOSS RATE
          STRTL      0.78 INITIAL ABSTRACTION
          CRVNBR    71.89 CURVE NUMBER
          RTIMP     0.00 PERCENT IMPERVIOUS AREA

95 UD      SCS DIMENSIONLESS UNITGRAPH
          TLAG      0.00 LAG
  
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PRECIPITATION STATION DATA

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          STATION  TOTAL  AVG. ANNUAL  WEIGHT
          Gage    4.10    0.00        0.25
  
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TEMPORAL DISTRIBUTIONS

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STATION  Gage,  WEIGHT =  1.00
  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.03    0.03
  0.03    0.02    0.06    0.06    0.06    0.06    0.06    0.12    0.13    0.12
  0.06    0.06    0.06    0.06    0.06    0.06    0.06    0.06    0.06    0.38
  0.38    0.38    0.25    0.25    0.25    0.25    0.25    0.06    0.06    0.06
  
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

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          UNIT HYDROGRAPH
          5 END-OF-PERIOD ORDINATES
          1089.    305.    60.    12.    0.
  
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HYDROGRAPH AT STATION 7aB  
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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.00	0.00	0.00	0.	*
1	JAN	0015	2	0.00	0.00	0.00	0.	*		1	JAN	1245	52	0.00	0.00	0.00	0.	*
1	JAN	0030	3	0.00	0.00	0.00	0.	*		1	JAN	1300	53	0.00	0.00	0.00	0.	*
1	JAN	0045	4	0.00	0.00	0.00	0.	*		1	JAN	1315	54	0.00	0.00	0.00	0.	*
1	JAN	0100	5	0.00	0.00	0.00	0.	*		1	JAN	1330	55	0.00	0.00	0.00	0.	*
1	JAN	0115	6	0.00	0.00	0.00	0.	*		1	JAN	1345	56	0.00	0.00	0.00	0.	*
1	JAN	0130	7	0.00	0.00	0.00	0.	*		1	JAN	1400	57	0.00	0.00	0.00	0.	*
1	JAN	0145	8	0.00	0.00	0.00	0.	*		1	JAN	1415	58	0.00	0.00	0.00	0.	*
1	JAN	0200	9	0.00	0.00	0.00	0.	*		1	JAN	1430	59	0.00	0.00	0.00	0.	*
1	JAN	0215	10	0.03	0.03	0.00	0.	*		1	JAN	1445	60	0.00	0.00	0.00	0.	*
1	JAN	0230	11	0.03	0.03	0.00	0.	*		1	JAN	1500	61	0.00	0.00	0.00	0.	*
1	JAN	0245	12	0.03	0.03	0.00	0.	*		1	JAN	1515	62	0.00	0.00	0.00	0.	*
1	JAN	0300	13	0.02	0.02	0.00	0.	*		1	JAN	1530	63	0.00	0.00	0.00	0.	*
1	JAN	0315	14	0.06	0.06	0.00	0.	*		1	JAN	1545	64	0.00	0.00	0.00	0.	*
1	JAN	0330	15	0.06	0.06	0.00	0.	*		1	JAN	1600	65	0.00	0.00	0.00	0.	*
1	JAN	0345	16	0.06	0.06	0.00	0.	*		1	JAN	1615	66	0.00	0.00	0.00	0.	*
1	JAN	0400	17	0.06	0.06	0.00	0.	*		1	JAN	1630	67	0.00	0.00	0.00	0.	*
1	JAN	0415	18	0.12	0.12	0.00	0.	*		1	JAN	1645	68	0.00	0.00	0.00	0.	*
1	JAN	0430	19	0.13	0.13	0.00	0.	*		1	JAN	1700	69	0.00	0.00	0.00	0.	*
1	JAN	0445	20	0.12	0.12	0.00	0.	*		1	JAN	1715	70	0.00	0.00	0.00	0.	*
1	JAN	0500	21	0.12	0.12	0.00	1.	*		1	JAN	1730	71	0.00	0.00	0.00	0.	*
1	JAN	0515	22	0.06	0.06	0.00	4.	*		1	JAN	1745	72	0.00	0.00	0.00	0.	*
1	JAN	0530	23	0.06	0.06	0.00	6.	*		1	JAN	1800	73	0.00	0.00	0.00	0.	*
1	JAN	0545	24	0.06	0.06	0.01	9.	*		1	JAN	1815	74	0.00	0.00	0.00	0.	*
1	JAN	0600	25	0.06	0.05	0.01	11.	*		1	JAN	1830	75	0.00	0.00	0.00	0.	*
1	JAN	0615	26	0.06	0.05	0.01	14.	*		1	JAN	1845	76	0.00	0.00	0.00	0.	*
1	JAN	0630	27	0.06	0.05	0.01	16.	*		1	JAN	1900	77	0.00	0.00	0.00	0.	*
1	JAN	0645	28	0.06	0.05	0.01	18.	*		1	JAN	1915	78	0.00	0.00	0.00	0.	*
1	JAN	0700	29	0.06	0.05	0.01	20.	*		1	JAN	1930	79	0.00	0.00	0.00	0.	*
1	JAN	0715	30	0.38	0.26	0.11	126.	*		1	JAN	1945	80	0.00	0.00	0.00	0.	*
1	JAN	0730	31	0.37	0.23	0.15	197.	*		1	JAN	2000	81	0.00	0.00	0.00	0.	*
1	JAN	0745	32	0.38	0.20	0.18	248.	*		1	JAN	2015	82	0.00	0.00	0.00	0.	*
1	JAN	0800	33	0.38	0.17	0.20	287.	*		1	JAN	2030	83	0.00	0.00	0.00	0.	*
1	JAN	0815	34	0.25	0.10	0.15	235.	*		1	JAN	2045	84	0.00	0.00	0.00	0.	*
1	JAN	0830	35	0.25	0.09	0.16	228.	*		1	JAN	2100	85	0.00	0.00	0.00	0.	*
1	JAN	0845	36	0.25	0.09	0.16	235.	*		1	JAN	2115	86	0.00	0.00	0.00	0.	*
1	JAN	0900	37	0.25	0.08	0.17	244.	*		1	JAN	2130	87	0.00	0.00	0.00	0.	*
1	JAN	0915	38	0.06	0.02	0.04	110.	*		1	JAN	2145	88	0.00	0.00	0.00	0.	*
1	JAN	0930	39	0.06	0.02	0.04	72.	*		1	JAN	2200	89	0.00	0.00	0.00	0.	*
1	JAN	0945	40	0.06	0.02	0.04	65.	*		1	JAN	2215	90	0.00	0.00	0.00	0.	*
1	JAN	1000	41	0.06	0.02	0.04	64.	*		1	JAN	2230	91	0.00	0.00	0.00	0.	*
1	JAN	1015	42	0.00	0.00	0.00	17.	*		1	JAN	2245	92	0.00	0.00	0.00	0.	*
1	JAN	1030	43	0.00	0.00	0.00	3.	*		1	JAN	2300	93	0.00	0.00	0.00	0.	*
1	JAN	1045	44	0.00	0.00	0.00	1.	*		1	JAN	2315	94	0.00	0.00	0.00	0.	*
1	JAN	1100	45	0.00	0.00	0.00	0.	*		1	JAN	2330	95	0.00	0.00	0.00	0.	*
1	JAN	1115	46	0.00	0.00	0.00	0.	*		1	JAN	2345	96	0.00	0.00	0.00	0.	*
1	JAN	1130	47	0.00	0.00	0.00	0.	*		2	JAN	0000	97	0.00	0.00	0.00	0.	*
1	JAN	1145	48	0.00	0.00	0.00	0.	*		2	JAN	0015	98	0.00	0.00	0.00	0.	*
1	JAN	1200	49	0.00	0.00	0.00	0.	*		2	JAN	0030	99	0.00	0.00	0.00	0.	*
1	JAN	1215	50	0.00	0.00	0.00	0.	*		2	JAN	0045	100	0.00	0.00	0.00	0.	*



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TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.58, TOTAL EXCESS = 1.52

PEAK FLOW (CFS)	TIME (HR)	(CFS)	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.75-HR
287.	8.00	93.	23.	23.	23.	23.
		(INCHES)	1.523	1.523	1.523	1.523
		(AC-FT)	46.	46.	46.	46.

CUMULATIVE AREA = 0.57 SQ MI

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*****
*
96 KK *      7C *      CNAME      7R
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97 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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98 HC      HYDROGRAPH COMBINATION
          ICOMP      3      NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 7C  
SUM OF 3 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	31.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	35.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	40.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	44.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	240.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	393.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	493.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	571.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	484.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	458.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	468.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	483.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	249.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	152.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	133.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	128.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	44.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	9.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	3.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	0.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	7.	*	1	JAN	1115	46	0.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	12.	*	1	JAN	1130	47	0.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	17.	*	1	JAN	1145	48	0.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	22.	*	1	JAN	1200	49	0.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	26.	*	1	JAN	1215	50	0.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

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PEAK FLOW (CFS)	TIME (HR)	(CFS)	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.75-HR
571.	8.00	189.	47.	46.	46.	46.
		(INCHES)	1.614	1.615	1.615	1.615
		(AC-FT)	94.	94.	94.	94.

CUMULATIVE AREA = 1.09 SQ MI

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*****
*
99 KK *      7R *      CNAME      7C
*
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100 KO      OUTPUT CONTROL VARIABLES
            IPRNT      1  PRINT CONTROL
            IPLOT      0  PLOT CONTROL
            QSCAL      0.  HYDROGRAPH PLOT SCALE
            IPNCH      0  PUNCH COMPUTED HYDROGRAPH
            IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     100  LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250  TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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101 RM      MUSKINGUM ROUTING
            NSTPS      1  NUMBER OF SUBREACHES
            AMSKK      0.10  MUSKINGUM K
            X           0.20  MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 7R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 7R

\*\*\*\*\*

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	29.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	34.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	38.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	42.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	142.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	335.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	454.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	539.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	534.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	461.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	462.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	477.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	368.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	177.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	138.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	130.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	86.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	19.	*	1	JAN	1645	68	0.	*	1	JAN	2300	93	0.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	4.	*	1	JAN	1700	69	0.	*	1	JAN	2315	94	0.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	1.	*	1	JAN	1715	70	0.	*	1	JAN	2330	95	0.	*
1	JAN	0500	21	4.	*	1	JAN	1115	46	0.	*	1	JAN	1730	71	0.	*	1	JAN	2345	96	0.	*
1	JAN	0515	22	10.	*	1	JAN	1130	47	0.	*	1	JAN	1745	72	0.	*	2	JAN	0000	97	0.	*
1	JAN	0530	23	15.	*	1	JAN	1145	48	0.	*	1	JAN	1800	73	0.	*	2	JAN	0015	98	0.	*
1	JAN	0545	24	20.	*	1	JAN	1200	49	0.	*	1	JAN	1815	74	0.	*	2	JAN	0030	99	0.	*
1	JAN	0600	25	24.	*	1	JAN	1215	50	0.	*	1	JAN	1830	75	0.	*	2	JAN	0045	100	0.	*

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PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)				
+	539.	8.00	(CFS)			
			189.	47.	46.	46.
		(INCHES)	1.614	1.615	1.615	1.615
		(AC-FT)	94.	94.	94.	94.
		CUMULATIVE AREA =	1.09 SQ MI			

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*      *
102 KK  *      2bB  *
*      *
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103 KO      OUTPUT CONTROL VARIABLES
            IPRNT      1  PRINT CONTROL
            IPLOT      0  PLOT CONTROL
            QSCAL      0.  HYDROGRAPH PLOT SCALE
            IPNCH      1  PUNCH COMPUTED HYDROGRAPH
            IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     100  LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250  TIME INTERVAL IN HOURS

```

SUBBASIN RUNOFF DATA

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104 BA      SUBBASIN CHARACTERISTICS
            TAREA,      0.13  SUBBASIN AREA

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PRECIPITATION DATA

Event.out

107 PT TOTAL STORM STATIONS Gage  
 108 PW WEIGHTS 0.25

105 PR RECORDING STATIONS Gage  
 106 PW WEIGHTS 1.00

109 LS SCS LOSS RATE  
 STRTL 0.79 INITIAL ABSTRACTION  
 CRVNR 71.61 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

110 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	
0.03	0.02	0.06	0.06	0.06	0.06	0.06	0.12	0.13	0.12	
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	
0.38	0.38	0.25	0.25	0.25	0.25	0.25	0.06	0.06	0.06	

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES

240.	67.	13.	3.	0.
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HYDROGRAPH AT STATION 2bb

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.00	0.00	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.03	0.03	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.03	0.03	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.06	0.06	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.06	0.06	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.06	0.06	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.06	0.06	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.12	0.12	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.13	0.13	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.12	0.12	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.
1	JAN	0500	21	0.12	0.12	0.00	0.	*	1	JAN	1730	71	0.00	0.00	0.00	0.
1	JAN	0515	22	0.06	0.06	0.00	1.	*	1	JAN	1745	72	0.00	0.00	0.00	0.
1	JAN	0530	23	0.06	0.06	0.00	1.	*	1	JAN	1800	73	0.00	0.00	0.00	0.
1	JAN	0545	24	0.06	0.06	0.01	2.	*	1	JAN	1815	74	0.00	0.00	0.00	0.
1	JAN	0600	25	0.06	0.05	0.01	2.	*	1	JAN	1830	75	0.00	0.00	0.00	0.
1	JAN	0615	26	0.06	0.05	0.01	3.	*	1	JAN	1845	76	0.00	0.00	0.00	0.
1	JAN	0630	27	0.06	0.05	0.01	3.	*	1	JAN	1900	77	0.00	0.00	0.00	0.
1	JAN	0645	28	0.06	0.05	0.01	4.	*	1	JAN	1915	78	0.00	0.00	0.00	0.
1	JAN	0700	29	0.06	0.05	0.01	4.	*	1	JAN	1930	79	0.00	0.00	0.00	0.
1	JAN	0715	30	0.38	0.27	0.11	27.	*	1	JAN	1945	80	0.00	0.00	0.00	0.
1	JAN	0730	31	0.37	0.23	0.15	43.	*	1	JAN	2000	81	0.00	0.00	0.00	0.
1	JAN	0745	32	0.38	0.20	0.18	54.	*	1	JAN	2015	82	0.00	0.00	0.00	0.
1	JAN	0800	33	0.38	0.17	0.20	63.	*	1	JAN	2030	83	0.00	0.00	0.00	0.
1	JAN	0815	34	0.25	0.10	0.15	51.	*	1	JAN	2045	84	0.00	0.00	0.00	0.
1	JAN	0830	35	0.25	0.10	0.15	50.	*	1	JAN	2100	85	0.00	0.00	0.00	0.
1	JAN	0845	36	0.25	0.09	0.16	51.	*	1	JAN	2115	86	0.00	0.00	0.00	0.
1	JAN	0900	37	0.25	0.08	0.17	53.	*	1	JAN	2130	87	0.00	0.00	0.00	0.
1	JAN	0915	38	0.06	0.02	0.04	24.	*	1	JAN	2145	88	0.00	0.00	0.00	0.
1	JAN	0930	39	0.06	0.02	0.04	16.	*	1	JAN	2200	89	0.00	0.00	0.00	0.
1	JAN	0945	40	0.06	0.02	0.04	14.	*	1	JAN	2215	90	0.00	0.00	0.00	0.
1	JAN	1000	41	0.06	0.02	0.04	14.	*	1	JAN	2230	91	0.00	0.00	0.00	0.
1	JAN	1015	42	0.00	0.00	0.00	4.	*	1	JAN	2245	92	0.00	0.00	0.00	0.
1	JAN	1030	43	0.00	0.00	0.00	1.	*	1	JAN	2300	93	0.00	0.00	0.00	0.
1	JAN	1045	44	0.00	0.00	0.00	0.	*	1	JAN	2315	94	0.00	0.00	0.00	0.
1	JAN	1100	45	0.00	0.00	0.00	0.	*	1	JAN	2330	95	0.00	0.00	0.00	0.
1	JAN	1115	46	0.00	0.00	0.00	0.	*	1	JAN	2345	96	0.00	0.00	0.00	0.
1	JAN	1130	47	0.00	0.00	0.00	0.	*	2	JAN	0000	97	0.00	0.00	0.00	0.
1	JAN	1145	48	0.00	0.00	0.00	0.	*	2	JAN	0015	98	0.00	0.00	0.00	0.
1	JAN	1200	49	0.00	0.00	0.00	0.	*	2	JAN	0030	99	0.00	0.00	0.00	0.
1	JAN	1215	50	0.00	0.00	0.00	0.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.60, TOTAL EXCESS = 1.50

Event.out  
 PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 + (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
 + 63. 8.00 (CFS) 20. 5. 5. 5.  
 (INCHES) 1.504 1.504 1.504 1.504  
 (AC-FT) 10. 10. 10. 10.  
 CUMULATIVE AREA = 0.13 SQ MI

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 \* \*  
 111 KK \* 2aB \*  
 \* \*  
 \*\*\*\*\*

112 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

113 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.49 SUBBASIN AREA

PRECIPITATION DATA

116 PT TOTAL STORM STATIONS Gage  
 117 PW WEIGHTS 0.25

114 PR RECORDING STATIONS Gage  
 115 PW WEIGHTS 1.00

118 LS SCS LOSS RATE  
 STRTL 0.83 INITIAL ABSTRACTION  
 CRVNBR 70.68 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

119 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
0.03	0.02	0.06	0.06	0.06	0.06	0.06	0.12	0.13	0.12	0.12
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37
0.38	0.38	0.25	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 940. 263. 52. 10. 0.

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HYDROGRAPH AT STATION 2aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.00	0.00	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.03	0.03	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.03	0.03	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.06	0.06	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.06	0.06	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.06	0.06	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.

Event.out												
1 JAN 0400	17	0.06	0.06	0.00	0.	*	1 JAN 1630	67	0.00	0.00	0.00	0.
1 JAN 0415	18	0.12	0.12	0.00	0.	*	1 JAN 1645	68	0.00	0.00	0.00	0.
1 JAN 0430	19	0.13	0.13	0.00	0.	*	1 JAN 1700	69	0.00	0.00	0.00	0.
1 JAN 0445	20	0.12	0.12	0.00	0.	*	1 JAN 1715	70	0.00	0.00	0.00	0.
1 JAN 0500	21	0.12	0.12	0.00	0.	*	1 JAN 1730	71	0.00	0.00	0.00	0.
1 JAN 0515	22	0.06	0.06	0.00	1.	*	1 JAN 1745	72	0.00	0.00	0.00	0.
1 JAN 0530	23	0.06	0.06	0.00	4.	*	1 JAN 1800	73	0.00	0.00	0.00	0.
1 JAN 0545	24	0.06	0.06	0.00	6.	*	1 JAN 1815	74	0.00	0.00	0.00	0.
1 JAN 0600	25	0.06	0.06	0.01	8.	*	1 JAN 1830	75	0.00	0.00	0.00	0.
1 JAN 0615	26	0.06	0.05	0.01	10.	*	1 JAN 1845	76	0.00	0.00	0.00	0.
1 JAN 0630	27	0.06	0.05	0.01	12.	*	1 JAN 1900	77	0.00	0.00	0.00	0.
1 JAN 0645	28	0.06	0.05	0.01	13.	*	1 JAN 1915	78	0.00	0.00	0.00	0.
1 JAN 0700	29	0.06	0.05	0.01	15.	*	1 JAN 1930	79	0.00	0.00	0.00	0.
1 JAN 0715	30	0.38	0.27	0.10	99.	*	1 JAN 1945	80	0.00	0.00	0.00	0.
1 JAN 0730	31	0.37	0.24	0.14	158.	*	1 JAN 2000	81	0.00	0.00	0.00	0.
1 JAN 0745	32	0.38	0.21	0.17	201.	*	1 JAN 2015	82	0.00	0.00	0.00	0.
1 JAN 0800	33	0.38	0.18	0.19	236.	*	1 JAN 2030	83	0.00	0.00	0.00	0.
1 JAN 0815	34	0.25	0.11	0.14	194.	*	1 JAN 2045	84	0.00	0.00	0.00	0.
1 JAN 0830	35	0.25	0.10	0.15	189.	*	1 JAN 2100	85	0.00	0.00	0.00	0.
1 JAN 0845	36	0.25	0.09	0.16	196.	*	1 JAN 2115	86	0.00	0.00	0.00	0.
1 JAN 0900	37	0.25	0.09	0.16	204.	*	1 JAN 2130	87	0.00	0.00	0.00	0.
1 JAN 0915	38	0.06	0.02	0.04	92.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.06	0.02	0.04	61.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.06	0.02	0.04	55.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.06	0.02	0.04	54.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	14.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	3.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	0.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	0.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	0.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	0.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	0.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.66, TOTAL EXCESS = 1.44

PEAK FLOW (CFS)	TIME (HR)	(CFS)	6-HR (INCHES) (AC-FT)	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.75-HR
+	236.	8.00	76.	19.	18.	18.
+			1.442 38.	1.442 38.	1.442 38.	1.442 38.
CUMULATIVE AREA =			0.49 SQ MI			

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\* \*  
120 KK      2C \*      CNAME      2R  
\* \*  
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121 KO      OUTPUT CONTROL VARIABLES  
IPRNT      1      PRINT CONTROL  
IPLOT      0      PLOT CONTROL  
QSCAL      0.      HYDROGRAPH PLOT SCALE  
IPNCH      0      PUNCH COMPUTED HYDROGRAPH  
IOUT      22      SAVE HYDROGRAPH ON THIS UNIT  
ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED  
ISAV2      100      LAST ORDINATE PUNCHED OR SAVED  
TIMINT      0.250      TIME INTERVAL IN HOURS

122 HC      HYDROGRAPH COMBINATION  
ICOMP      4      NUMBER OF HYDROGRAPHS TO COMBINE  
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HYDROGRAPH AT STATION      2C  
SUM OF 4 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1 JAN	0000	1	0.	*	*	1 JAN	0615	26	93.	*	*	1 JAN	1230	51	0.	*	*	1 JAN	1845	76	0.	*	
1 JAN	0015	2	0.	*	*	1 JAN	0630	27	108.	*	*	1 JAN	1245	52	0.	*	*	1 JAN	1900	77	0.	*	
1 JAN	0030	3	0.	*	*	1 JAN	0645	28	122.	*	*	1 JAN	1300	53	0.	*	*	1 JAN	1915	78	0.	*	
1 JAN	0045	4	0.	*	*	1 JAN	0700	29	136.	*	*	1 JAN	1315	54	0.	*	*	1 JAN	1930	79	0.	*	
1 JAN	0100	5	0.	*	*	1 JAN	0715	30	466.	*	*	1 JAN	1330	55	0.	*	*	1 JAN	1945	80	0.	*	
1 JAN	0115	6	0.	*	*	1 JAN	0730	31	1020.	*	*	1 JAN	1345	56	0.	*	*	1 JAN	2000	81	0.	*	
1 JAN	0130	7	0.	*	*	1 JAN	0745	32	1444.	*	*	1 JAN	1400	57	0.	*	*	1 JAN	2015	82	0.	*	
1 JAN	0145	8	0.	*	*	1 JAN	0800	33	1738.	*	*	1 JAN	1415	58	0.	*	*	1 JAN	2030	83	0.	*	
1 JAN	0200	9	0.	*	*	1 JAN	0815	34	1723.	*	*	1 JAN	1430	59	0.	*	*	1 JAN	2045	84	0.	*	
1 JAN	0215	10	0.	*	*	1 JAN	0830	35	1561.	*	*	1 JAN	1445	60	0.	*	*	1 JAN	2100	85	0.	*	
1 JAN	0230	11	0.	*	*	1 JAN	0845	36	1531.	*	*	1 JAN	1500	61	0.	*	*	1 JAN	2115	86	0.	*	
1 JAN	0245	12	0.	*	*	1 JAN	0900	37	1573.	*	*	1 JAN	1515	62	0.	*	*	1 JAN	2130	87	0.	*	
1 JAN	0300	13	0.	*	*	1 JAN	0915	38	1195.	*	*	1 JAN	1530	63	0.	*	*	1 JAN	2145	88	0.	*	

DATE	TIME	FLOW (CFS)	PEAK FLOW (CFS)	TIME (HR)	6-HR FLOW (CFS)	24-HR FLOW (CFS)	72-HR FLOW (CFS)	24.75-HR FLOW (CFS)
1 JAN 0315	14	0.	1738.	8.00	623.	156.	151.	151.
1 JAN 0330	15	0.						
1 JAN 0345	16	0.						
1 JAN 0400	17	0.						
1 JAN 0415	18	0.						
1 JAN 0430	19	0.						
1 JAN 0445	20	1.						
1 JAN 0500	21	10.						
1 JAN 0515	22	31.						
1 JAN 0530	23	47.						
1 JAN 0545	24	61.						
1 JAN 0600	25	78.						

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
+ 1738. 8.00 (CFS) 623. 156. 151. 151.  
(INCHES) 1.605 1.606 1.606 1.606  
(AC-FT) 309. 309. 309. 309.  
CUMULATIVE AREA = 3.61 SQ MI

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123 KK * 2R * CNAME 2C
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124 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPILOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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125 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.14 MUSKINGUM K
X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 2R

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1 JAN 0000	1	0.	*		1 JAN 0615	26	85.	*		1 JAN 1230	51	0.	*		1 JAN 1845	76	0.		
1 JAN 0015	2	0.	*		1 JAN 0630	27	100.	*		1 JAN 1245	52	0.	*		1 JAN 1900	77	0.		
1 JAN 0030	3	0.	*		1 JAN 0645	28	114.	*		1 JAN 1300	53	0.	*		1 JAN 1915	78	0.		
1 JAN 0045	4	0.	*		1 JAN 0700	29	128.	*		1 JAN 1315	54	0.	*		1 JAN 1930	79	0.		
1 JAN 0100	5	0.	*		1 JAN 0715	30	273.	*		1 JAN 1330	55	0.	*		1 JAN 1945	80	0.		
1 JAN 0115	6	0.	*		1 JAN 0730	31	707.	*		1 JAN 1345	56	0.	*		1 JAN 2000	81	0.		
1 JAN 0130	7	0.	*		1 JAN 0745	32	1215.	*		1 JAN 1400	57	0.	*		1 JAN 2015	82	0.		
1 JAN 0145	8	0.	*		1 JAN 0800	33	1580.	*		1 JAN 1415	58	0.	*		1 JAN 2030	83	0.		
1 JAN 0200	9	0.	*		1 JAN 0815	34	1742.	*		1 JAN 1430	59	0.	*		1 JAN 2045	84	0.		
1 JAN 0215	10	0.	*		1 JAN 0830	35	1655.	*		1 JAN 1445	60	0.	*		1 JAN 2100	85	0.		
1 JAN 0230	11	0.	*		1 JAN 0845	36	1543.	*		1 JAN 1500	61	0.	*		1 JAN 2115	86	0.		
1 JAN 0245	12	0.	*		1 JAN 0900	37	1547.	*		1 JAN 1515	62	0.	*		1 JAN 2130	87	0.		
1 JAN 0300	13	0.	*		1 JAN 0915	38	1418.	*		1 JAN 1530	63	0.	*		1 JAN 2145	88	0.		
1 JAN 0315	14	0.	*		1 JAN 0930	39	970.	*		1 JAN 1545	64	0.	*		1 JAN 2200	89	0.		
1 JAN 0330	15	0.	*		1 JAN 0945	40	583.	*		1 JAN 1600	65	0.	*		1 JAN 2215	90	0.		
1 JAN 0345	16	0.	*		1 JAN 1000	41	459.	*		1 JAN 1615	66	0.	*		1 JAN 2230	91	0.		
1 JAN 0400	17	0.	*		1 JAN 1015	42	375.	*		1 JAN 1630	67	0.	*		1 JAN 2245	92	0.		
1 JAN 0415	18	0.	*		1 JAN 1030	43	200.	*		1 JAN 1645	68	0.	*		1 JAN 2300	93	0.		
1 JAN 0430	19	0.	*		1 JAN 1045	44	61.	*		1 JAN 1700	69	0.	*		1 JAN 2315	94	0.		
1 JAN 0445	20	0.	*		1 JAN 1100	45	15.	*		1 JAN 1715	70	0.	*		1 JAN 2330	95	0.		
1 JAN 0500	21	5.	*		1 JAN 1115	46	5.	*		1 JAN 1730	71	0.	*		1 JAN 2345	96	0.		
1 JAN 0515	22	19.	*		1 JAN 1130	47	1.	*		1 JAN 1745	72	0.	*		2 JAN 0000	97	0.		
1 JAN 0530	23	38.	*		1 JAN 1145	48	0.	*		1 JAN 1800	73	0.	*		2 JAN 0015	98	0.		
1 JAN 0545	24	54.	*		1 JAN 1200	49	0.	*		1 JAN 1815	74	0.	*		2 JAN 0030	99	0.		
1 JAN 0600	25	69.	*		1 JAN 1215	50	0.	*		1 JAN 1830	75	0.	*		2 JAN 0045	100	0.		

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
(CFS)

+ 1742. 8.25 623. 156. 151. 151.  
 (INCHES) 1.605 1.606 1.606 1.606  
 (AC-FT) 309. 309. 309. 309.

CUMULATIVE AREA = 3.61 SQ MI

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 \* \*  
 126 KK \* 1B \*  
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127 KO OUTPUT CONTROL VARIABLES  
 IPRT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

SUBBASIN RUNOFF DATA

128 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.56 SUBBASIN AREA

PRECIPITATION DATA

131 PT TOTAL STORM STATIONS Gage  
 132 PW WEIGHTS 0.25

129 PR RECORDING STATIONS Gage  
 130 PW WEIGHTS 1.00

133 LS SCS LOSS RATE  
 STRTL 0.80 INITIAL ABSTRACTION  
 CRVNBR 71.35 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

134 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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PRECIPITATION STATION DATA

STATION	TOTAL	AVG. ANNUAL	WEIGHT
Gage	4.10	0.00	0.25

TEMPORAL DISTRIBUTIONS

STATION	Gage,	WEIGHT =	1.00							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
0.03	0.02	0.06	0.06	0.06	0.06	0.06	0.12	0.13	0.12	0.12
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.38	0.37
0.38	0.38	0.25	0.25	0.25	0.25	0.25	0.06	0.06	0.06	0.06

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 1075. 301. 59. 12. 0.

HYDROGRAPH AT STATION 1B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.00	0.00	0.00	0.
1	JAN	0015	2	0.00	0.00	0.00	0.	*	1	JAN	1245	52	0.00	0.00	0.00	0.
1	JAN	0030	3	0.00	0.00	0.00	0.	*	1	JAN	1300	53	0.00	0.00	0.00	0.
1	JAN	0045	4	0.00	0.00	0.00	0.	*	1	JAN	1315	54	0.00	0.00	0.00	0.
1	JAN	0100	5	0.00	0.00	0.00	0.	*	1	JAN	1330	55	0.00	0.00	0.00	0.
1	JAN	0115	6	0.00	0.00	0.00	0.	*	1	JAN	1345	56	0.00	0.00	0.00	0.
1	JAN	0130	7	0.00	0.00	0.00	0.	*	1	JAN	1400	57	0.00	0.00	0.00	0.
1	JAN	0145	8	0.00	0.00	0.00	0.	*	1	JAN	1415	58	0.00	0.00	0.00	0.
1	JAN	0200	9	0.00	0.00	0.00	0.	*	1	JAN	1430	59	0.00	0.00	0.00	0.
1	JAN	0215	10	0.03	0.03	0.00	0.	*	1	JAN	1445	60	0.00	0.00	0.00	0.
1	JAN	0230	11	0.03	0.03	0.00	0.	*	1	JAN	1500	61	0.00	0.00	0.00	0.
1	JAN	0245	12	0.03	0.03	0.00	0.	*	1	JAN	1515	62	0.00	0.00	0.00	0.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.00	0.00	0.00	0.
1	JAN	0315	14	0.06	0.06	0.00	0.	*	1	JAN	1545	64	0.00	0.00	0.00	0.
1	JAN	0330	15	0.06	0.06	0.00	0.	*	1	JAN	1600	65	0.00	0.00	0.00	0.
1	JAN	0345	16	0.06	0.06	0.00	0.	*	1	JAN	1615	66	0.00	0.00	0.00	0.
1	JAN	0400	17	0.06	0.06	0.00	0.	*	1	JAN	1630	67	0.00	0.00	0.00	0.
1	JAN	0415	18	0.12	0.12	0.00	0.	*	1	JAN	1645	68	0.00	0.00	0.00	0.
1	JAN	0430	19	0.13	0.13	0.00	0.	*	1	JAN	1700	69	0.00	0.00	0.00	0.
1	JAN	0445	20	0.12	0.12	0.00	0.	*	1	JAN	1715	70	0.00	0.00	0.00	0.

Event.out

1 JAN 0500	21	0.12	0.12	0.00	1.	*	1 JAN 1730	71	0.00	0.00	0.00	0.
1 JAN 0515	22	0.06	0.06	0.00	3.	*	1 JAN 1745	72	0.00	0.00	0.00	0.
1 JAN 0530	23	0.06	0.06	0.00	5.	*	1 JAN 1800	73	0.00	0.00	0.00	0.
1 JAN 0545	24	0.06	0.06	0.01	8.	*	1 JAN 1815	74	0.00	0.00	0.00	0.
1 JAN 0600	25	0.06	0.05	0.01	10.	*	1 JAN 1830	75	0.00	0.00	0.00	0.
1 JAN 0615	26	0.06	0.05	0.01	12.	*	1 JAN 1845	76	0.00	0.00	0.00	0.
1 JAN 0630	27	0.06	0.05	0.01	15.	*	1 JAN 1900	77	0.00	0.00	0.00	0.
1 JAN 0645	28	0.06	0.05	0.01	17.	*	1 JAN 1915	78	0.00	0.00	0.00	0.
1 JAN 0700	29	0.06	0.05	0.01	19.	*	1 JAN 1930	79	0.00	0.00	0.00	0.
1 JAN 0715	30	0.38	0.27	0.11	119.	*	1 JAN 1945	80	0.00	0.00	0.00	0.
1 JAN 0730	31	0.37	0.23	0.14	188.	*	1 JAN 2000	81	0.00	0.00	0.00	0.
1 JAN 0745	32	0.38	0.20	0.17	238.	*	1 JAN 2015	82	0.00	0.00	0.00	0.
1 JAN 0800	33	0.38	0.18	0.20	277.	*	1 JAN 2030	83	0.00	0.00	0.00	0.
1 JAN 0815	34	0.25	0.11	0.14	228.	*	1 JAN 2045	84	0.00	0.00	0.00	0.
1 JAN 0830	35	0.25	0.10	0.15	222.	*	1 JAN 2100	85	0.00	0.00	0.00	0.
1 JAN 0845	36	0.25	0.09	0.16	229.	*	1 JAN 2115	86	0.00	0.00	0.00	0.
1 JAN 0900	37	0.25	0.08	0.17	238.	*	1 JAN 2130	87	0.00	0.00	0.00	0.
1 JAN 0915	38	0.06	0.02	0.04	107.	*	1 JAN 2145	88	0.00	0.00	0.00	0.
1 JAN 0930	39	0.06	0.02	0.04	71.	*	1 JAN 2200	89	0.00	0.00	0.00	0.
1 JAN 0945	40	0.06	0.02	0.04	64.	*	1 JAN 2215	90	0.00	0.00	0.00	0.
1 JAN 1000	41	0.06	0.02	0.04	63.	*	1 JAN 2230	91	0.00	0.00	0.00	0.
1 JAN 1015	42	0.00	0.00	0.00	16.	*	1 JAN 2245	92	0.00	0.00	0.00	0.
1 JAN 1030	43	0.00	0.00	0.00	3.	*	1 JAN 2300	93	0.00	0.00	0.00	0.
1 JAN 1045	44	0.00	0.00	0.00	1.	*	1 JAN 2315	94	0.00	0.00	0.00	0.
1 JAN 1100	45	0.00	0.00	0.00	0.	*	1 JAN 2330	95	0.00	0.00	0.00	0.
1 JAN 1115	46	0.00	0.00	0.00	0.	*	1 JAN 2345	96	0.00	0.00	0.00	0.
1 JAN 1130	47	0.00	0.00	0.00	0.	*	2 JAN 0000	97	0.00	0.00	0.00	0.
1 JAN 1145	48	0.00	0.00	0.00	0.	*	2 JAN 0015	98	0.00	0.00	0.00	0.
1 JAN 1200	49	0.00	0.00	0.00	0.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.00	0.00	0.00	0.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

\*\*\*\*\*

TOTAL RAINFALL = 4.10, TOTAL LOSS = 2.61, TOTAL EXCESS = 1.49

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
277.	8.00	90.	22.	22.	22.
		(INCHES)	1.486	1.486	1.486
		(AC-FT)	44.	44.	44.

CUMULATIVE AREA = 0.56 SQ MI

\*\*\* \*\*

```

*****
*                               *
135 KK      1C      CNAME      1C
*                               *
*****
  
```

```

136 KO      OUTPUT CONTROL VARIABLES
IPRNT      1      PRINT CONTROL
IPLOT      0      PLOT CONTROL
QSCAL      0.     HYDROGRAPH PLOT SCALE
IPNCH      0      PUNCH COMPUTED HYDROGRAPH
IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
TIMINT     0.250  TIME INTERVAL IN HOURS
  
```

```

137 HC      HYDROGRAPH COMBINATION
ICOMP      2      NUMBER OF HYDROGRAPHS TO COMBINE
  
```

\*\*\*

\*\*\*\*\*

HYDROGRAPH AT STATION 1C  
SUM OF 2 HYDROGRAPHS

\*\*\*\*\*

DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW		DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	*	1	JAN	0615	26	97.	*	1	JAN	1230	51	0.	*	1	JAN	1845	76	0.
1	JAN	0015	2	0.	*	1	JAN	0630	27	114.	*	1	JAN	1245	52	0.	*	1	JAN	1900	77	0.
1	JAN	0030	3	0.	*	1	JAN	0645	28	131.	*	1	JAN	1300	53	0.	*	1	JAN	1915	78	0.
1	JAN	0045	4	0.	*	1	JAN	0700	29	147.	*	1	JAN	1315	54	0.	*	1	JAN	1930	79	0.
1	JAN	0100	5	0.	*	1	JAN	0715	30	392.	*	1	JAN	1330	55	0.	*	1	JAN	1945	80	0.
1	JAN	0115	6	0.	*	1	JAN	0730	31	896.	*	1	JAN	1345	56	0.	*	1	JAN	2000	81	0.
1	JAN	0130	7	0.	*	1	JAN	0745	32	1453.	*	1	JAN	1400	57	0.	*	1	JAN	2015	82	0.
1	JAN	0145	8	0.	*	1	JAN	0800	33	1857.	*	1	JAN	1415	58	0.	*	1	JAN	2030	83	0.
1	JAN	0200	9	0.	*	1	JAN	0815	34	1970.	*	1	JAN	1430	59	0.	*	1	JAN	2045	84	0.
1	JAN	0215	10	0.	*	1	JAN	0830	35	1876.	*	1	JAN	1445	60	0.	*	1	JAN	2100	85	0.
1	JAN	0230	11	0.	*	1	JAN	0845	36	1771.	*	1	JAN	1500	61	0.	*	1	JAN	2115	86	0.
1	JAN	0245	12	0.	*	1	JAN	0900	37	1785.	*	1	JAN	1515	62	0.	*	1	JAN	2130	87	0.
1	JAN	0300	13	0.	*	1	JAN	0915	38	1525.	*	1	JAN	1530	63	0.	*	1	JAN	2145	88	0.
1	JAN	0315	14	0.	*	1	JAN	0930	39	1040.	*	1	JAN	1545	64	0.	*	1	JAN	2200	89	0.
1	JAN	0330	15	0.	*	1	JAN	0945	40	647.	*	1	JAN	1600	65	0.	*	1	JAN	2215	90	0.
1	JAN	0345	16	0.	*	1	JAN	1000	41	522.	*	1	JAN	1615	66	0.	*	1	JAN	2230	91	0.
1	JAN	0400	17	0.	*	1	JAN	1015	42	391.	*	1	JAN	1630	67	0.	*	1	JAN	2245	92	0.



```

Event.out
1 JAN 0415 18 0. * 1 JAN 1030 43 203. * 1 JAN 1645 68 0. * 1 JAN 2300 93 0.
1 JAN 0430 19 0. * 1 JAN 1045 44 61. * 1 JAN 1700 69 0. * 1 JAN 2315 94 0.
1 JAN 0445 20 0. * 1 JAN 1100 45 15. * 1 JAN 1715 70 0. * 1 JAN 2330 95 0.
1 JAN 0500 21 5. * 1 JAN 1115 46 5. * 1 JAN 1730 71 0. * 1 JAN 2345 96 0.
1 JAN 0515 22 22. * 1 JAN 1130 47 1. * 1 JAN 1745 72 0. * 2 JAN 0000 97 0.
1 JAN 0530 23 43. * 1 JAN 1145 48 0. * 1 JAN 1800 73 0. * 2 JAN 0015 98 0.
1 JAN 0545 24 61. * 1 JAN 1200 49 0. * 1 JAN 1815 74 0. * 2 JAN 0030 99 0.
1 JAN 0600 25 79. * 1 JAN 1215 50 0. * 1 JAN 1830 75 0. * 2 JAN 0045 100 0.

```

```

*****
PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)          6-HR      24-HR      72-HR      24.75-HR
+ 1970.        8.25          (CFS)      712.      178.      173.      173.
                (INCHES)    1.589     1.590     1.590     1.590
                (AC-FT)    353.      354.      354.      354.
CUMULATIVE AREA = 4.17 SQ MI

```

\*\*\* \*\*

```

*****
138 KK      *      *
            *      *      CNAME      1C
            *      *
            *****

```

```

139 KO      OUTPUT CONTROL VARIABLES
            IPRNT      1      PRINT CONTROL
            IPLOT      0      PLOT CONTROL
            QSCAL      0.     HYDROGRAPH PLOT SCALE
            IPNCH      0      PUNCH COMPUTED HYDROGRAPH
            IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250  TIME INTERVAL IN HOURS

```

HYDROGRAPH ROUTING DATA

140 RN NO ROUTING

\*\*\*

HYDROGRAPH AT STATION 1C

```

*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
1 JAN 0000 1 0. * 1 JAN 0615 26 97. * 1 JAN 1230 51 0. * 1 JAN 1845 76 0.
1 JAN 0015 2 0. * 1 JAN 0630 27 114. * 1 JAN 1245 52 0. * 1 JAN 1900 77 0.
1 JAN 0030 3 0. * 1 JAN 0645 28 131. * 1 JAN 1300 53 0. * 1 JAN 1915 78 0.
1 JAN 0045 4 0. * 1 JAN 0700 29 147. * 1 JAN 1315 54 0. * 1 JAN 1930 79 0.
1 JAN 0100 5 0. * 1 JAN 0715 30 392. * 1 JAN 1330 55 0. * 1 JAN 1945 80 0.
1 JAN 0115 6 0. * 1 JAN 0730 31 896. * 1 JAN 1345 56 0. * 1 JAN 2000 81 0.
1 JAN 0130 7 0. * 1 JAN 0745 32 1453. * 1 JAN 1400 57 0. * 1 JAN 2015 82 0.
1 JAN 0145 8 0. * 1 JAN 0800 33 1857. * 1 JAN 1415 58 0. * 1 JAN 2030 83 0.
1 JAN 0200 9 0. * 1 JAN 0815 34 1970. * 1 JAN 1430 59 0. * 1 JAN 2045 84 0.
1 JAN 0215 10 0. * 1 JAN 0830 35 1876. * 1 JAN 1445 60 0. * 1 JAN 2100 85 0.
1 JAN 0230 11 0. * 1 JAN 0845 36 1771. * 1 JAN 1500 61 0. * 1 JAN 2115 86 0.
1 JAN 0245 12 0. * 1 JAN 0900 37 1785. * 1 JAN 1515 62 0. * 1 JAN 2130 87 0.
1 JAN 0300 13 0. * 1 JAN 0915 38 1525. * 1 JAN 1530 63 0. * 1 JAN 2145 88 0.
1 JAN 0315 14 0. * 1 JAN 0930 39 1040. * 1 JAN 1545 64 0. * 1 JAN 2200 89 0.
1 JAN 0330 15 0. * 1 JAN 0945 40 647. * 1 JAN 1600 65 0. * 1 JAN 2215 90 0.
1 JAN 0345 16 0. * 1 JAN 1000 41 522. * 1 JAN 1615 66 0. * 1 JAN 2230 91 0.
1 JAN 0400 17 0. * 1 JAN 1015 42 391. * 1 JAN 1630 67 0. * 1 JAN 2245 92 0.
1 JAN 0415 18 0. * 1 JAN 1030 43 203. * 1 JAN 1645 68 0. * 1 JAN 2300 93 0.
1 JAN 0430 19 0. * 1 JAN 1045 44 61. * 1 JAN 1700 69 0. * 1 JAN 2315 94 0.
1 JAN 0445 20 0. * 1 JAN 1100 45 15. * 1 JAN 1715 70 0. * 1 JAN 2330 95 0.
1 JAN 0500 21 5. * 1 JAN 1115 46 5. * 1 JAN 1730 71 0. * 1 JAN 2345 96 0.
1 JAN 0515 22 22. * 1 JAN 1130 47 1. * 1 JAN 1745 72 0. * 2 JAN 0000 97 0.
1 JAN 0530 23 43. * 1 JAN 1145 48 0. * 1 JAN 1800 73 0. * 2 JAN 0015 98 0.
1 JAN 0545 24 61. * 1 JAN 1200 49 0. * 1 JAN 1815 74 0. * 2 JAN 0030 99 0.
1 JAN 0600 25 79. * 1 JAN 1215 50 0. * 1 JAN 1830 75 0. * 2 JAN 0045 100 0.

```

```

*****
PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)          6-HR      24-HR      72-HR      24.75-HR
+ 1970.        8.25          (CFS)      712.      178.      173.      173.
                (INCHES)    1.589     1.590     1.590     1.590
                (AC-FT)    353.      354.      354.      354.
CUMULATIVE AREA = 4.17 SQ MI

```

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND

+	OPERATION	STATION	PEAK FLOW	TIME OF PEAK	Event.out TIME IN HOURS, AREA IN SQUARE MILES			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
					AVERAGE FLOW FOR MAXIMUM PERIOD					
					6-HOUR	24-HOUR	72-HOUR			
+	HYDROGRAPH AT	4B	203.	8.00	73.	18.	18.	0.40		
+	ROUTED TO	4R	203.	8.25	73.	18.	18.	0.40		
+	HYDROGRAPH AT	5B	338.	8.00	118.	30.	29.	0.63		
+	ROUTED TO	5R	330.	8.25	118.	30.	29.	0.63		
+	HYDROGRAPH AT	3aB	193.	8.00	67.	17.	16.	0.43		
+	HYDROGRAPH AT	3bB	224.	8.00	79.	20.	19.	0.45		
+	4 COMBINED AT	3C	928.	8.25	337.	84.	82.	1.90		
+	ROUTED TO	3R	944.	8.25	337.	84.	82.	1.90		
+	HYDROGRAPH AT	6B	134.	8.00	46.	12.	11.	0.25		
+	ROUTED TO	6R	132.	8.00	46.	12.	11.	0.25		
+	HYDROGRAPH AT	7bB	152.	8.00	50.	12.	12.	0.27		
+	HYDROGRAPH AT	7aB	287.	8.00	93.	23.	23.	0.57		
+	3 COMBINED AT	7C	571.	8.00	189.	47.	46.	1.09		
+	ROUTED TO	7R	539.	8.00	189.	47.	46.	1.09		
+	HYDROGRAPH AT	2bB	63.	8.00	20.	5.	5.	0.13		
+	HYDROGRAPH AT	2aB	236.	8.00	76.	19.	18.	0.49		
+	4 COMBINED AT	2C	1738.	8.00	623.	156.	151.	3.61		
+	ROUTED TO	2R	1742.	8.25	623.	156.	151.	3.61		
+	HYDROGRAPH AT	1B	277.	8.00	90.	22.	22.	0.56		
+	2 COMBINED AT	1C	1970.	8.25	712.	178.	173.	4.17		
+	ROUTED TO	1C	1970.	8.25	712.	178.	173.	4.17		

\*\*\* NORMAL END OF HEC-1 \*\*\*

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
*****

```

```

*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
*****

```

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X X XXXXXXX XXXXX X
X X X X X XX
X X X X X
XXXXXXXX XXXX X XXXXX X
X X X X X
X X X X X
X X XXXXXXX XXXXX XXX

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION  
 NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,  
 DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION  
 KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID Scrabble Creek
2 ID w Mining & wo Logging (Scenario 2), LIDAR Data
3 ID 25 yr Storm
*DIAGRAM
4 IT 15 1JAN94 0 100
5 IO 1
* Gage XY Position 480389.00000 4224905.00000 1
6 PG Gage 4.1
7 IN 15 1JAN94 0
* Scrabble Rainfall Distribution
8 PC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.025
9 PC 0.05 0.075 0.1 0.1625 0.225 0.2875 0.35 0.475 0.6 0.725
10 PC 0.85 0.9125 0.975 1.0375 1.1 1.1625 1.225 1.2875 1.35 1.725
11 PC 2.1 2.475 2.85 3.1 3.35 3.6 3.85 3.9125 3.975 4.0375
12 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
13 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
14 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
15 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
16 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
17 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
18 KK 4B
19 KO 0 0 0.0 1 22
20 BA 0.4012
21 PB 4.75
22 IN 6 1JAN94 0
* typeII-24hour
23 PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
24 PC 0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
25 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
26 PC 0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
27 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
28 PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
29 PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
30 PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
31 PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
32 PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
33 PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
34 PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
35 PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
36 PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
37 PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
38 PC 0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
39 PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
40 PC 0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
41 PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
42 PC 0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
43 PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
44 PC 0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
45 PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
46 PC 0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
47 PC 1.0
48 LS 0.0 74.37 0.0
49 UD 0.2578

```

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
50 KK 4R CNAME 4C

```

51	KO	0	0	0.0	0						25yr.out	
52	RM	1	0.097	0.2							22	
53	KK	5B										
54	KO	0	0	0.0	1						22	
55	BA	0.6299										
56	PB	4.75										
57	IN	6	1JAN94	0								
	* typeII-24hour											
58	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094	
59	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
60	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
61	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
62	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
63	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
64	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
65	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
66	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
67	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
68	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
69	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
70	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
71	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
72	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
73	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
74	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
75	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
76	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
77	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
78	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
79	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
80	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
81	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
82	PC	1.0										
83	LS	0.0	75.11	0.0								
84	UD	0.2197										
85	KK	5R	CNAME	5C								
86	KO	0	0	0.0	0						22	
87	RM	1	0.102	0.2								
88	KK	3aB										
89	KO	0	0	0.0	1						22	
90	BA	0.4252										
91	PB	4.75										
92	IN	6	1JAN94	0								
	* typeII-24hour											
93	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094	
94	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
95	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
96	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
97	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
98	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	

HEC-1 INPUT

PAGE 3

LINE	ID	.....1	.....2	.....3	.....4	.....5	.....6	.....7	.....8	.....9	.....10	
99	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
100	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
101	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
102	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
103	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
104	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
105	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
106	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
107	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
108	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
109	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
110	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
111	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
112	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
113	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
114	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
115	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
116	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
117	PC	1.0										
118	LS	0.0	70.96	0.0								
119	UD	0.2104										
120	KK	3bB										
121	KO	0	0	0.0	1						22	
122	BA	0.4467										
123	PB	4.75										
124	IN	6	1JAN94	0								
	* typeII-24hour											
125	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094	
126	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
127	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
128	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
129	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
130	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
131	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
132	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
133	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
134	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
135	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
136	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
137	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	

138	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
139	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
140	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
141	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
142	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
143	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
144	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
145	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
146	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
147	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
148	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
149	PC	1.0									
150	LS	0.0	73.72	0.0							
151	UD	0.2331									

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PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

152	KK	3C	CNAME	3R							
153	KO	0	0	0.0	0	22					
154	HC	4									
155	KK	3R	CNAME	3C							
156	KO	0	0	0.0	0	22					
157	RM	2	0.045	0.2							
158	KK	6B									
159	KO	0	0	0.0	1	22					
160	BA	0.2511									
161	PB	4.75									
162	IN	6	1JAN94	0							
			* typeII-24hour								
163	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
164	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
165	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
166	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
167	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
168	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
169	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
170	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
171	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
172	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
173	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
174	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
175	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
176	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
177	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
178	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
179	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
180	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
181	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
182	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
183	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
184	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
185	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
186	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
187	PC	1.0									
188	LS	0.0	74.57	0.0							
189	UD	0.2017									
190	KK	6R	CNAME	6C							
191	KO	0	0	0.0	0	22					
192	RM	1	0.037	0.2							
193	KK	7bB									
194	KO	0	0	0.0	1	22					
195	BA	0.2705									
196	PB	4.75									
197	IN	6	1JAN94	0							
			* typeII-24hour								
198	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
199	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208

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PAGE 5

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

200	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
201	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
202	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
203	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
204	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
205	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
206	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
207	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
208	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
209	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
210	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
211	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
212	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
213	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
214	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
215	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
216	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
217	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
218	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
219	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758

25yr.out											
220	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
221	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
222	PC	1.0									
223	LS	0.0	74.67	0.0							
224	UD	0.0									
225	KK	7aB									
226	KO	0	0	0.0	1	22					
227	BA	0.5681									
228	PB	4.75									
229	IN	6	1JAN94	0							
		* typeII-24hour									
230	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
231	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
232	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
233	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
234	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
235	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
236	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
237	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
238	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
239	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
240	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
241	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
242	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
243	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
244	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
245	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
246	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
247	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
248	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
249	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
250	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
251	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
252	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876

## HEC-1 INPUT

PAGE 6

LINE	ID	.....1	.....2	.....3	.....4	.....5	.....6	.....7	.....8	.....9	.....10
253	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
254	PC	1.0									
255	LS	0.0	71.89	0.0							
256	UD	0.0									
257	KK	7C	CNAME	7R							
258	KO	0	0	0.0	0	22					
259	HC	3									
260	KK	7R	CNAME	7C							
261	KO	0	0	0.0	0	22					
262	RM	1	0.105	0.2							
263	KK	2bB									
264	KO	0	0	0.0	1	22					
265	BA	0.1252									
266	PB	4.75									
267	IN	6	1JAN94	0							
		* typeII-24hour									
268	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
269	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
270	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
271	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
272	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
273	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
274	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
275	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
276	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
277	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
278	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
279	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
280	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
281	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
282	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
283	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
284	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
285	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
286	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
287	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
288	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
289	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
290	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
291	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
292	PC	1.0									
293	LS	0.0	71.61	0.0							
294	UD	0.0									
295	KK	2aB									
296	KO	0	0	0.0	1	22					
297	BA	0.49									
298	PB	4.75									
299	IN	6	1JAN94	0							
		* typeII-24hour									
300	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
301	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208

## HEC-1 INPUT

PAGE 7

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

25yr.out

302	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
303	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
304	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
305	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
306	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
307	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
308	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
309	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
310	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
311	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
312	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
313	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
314	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
315	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
316	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
317	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
318	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
319	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
320	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
321	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
322	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
323	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
324	PC	1.0									
325	LS	0.0	70.68	0.0							
326	UD	0.0									
327	KK	2C	CNAME	2R							
328	KO	0	0	0.0	0	22					
329	HC	4									
330	KK	2R	CNAME	2C							
331	KO	0	0	0.0	0	22					
332	RM	1	0.138	0.2							
333	KK	1B									
334	KO	0	0	0.0	1	22					
335	BA	0.5606									
336	PB	4.75									
337	IN	6	1JAN94	0							
			* typeII-24hour								
338	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
339	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
340	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
341	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
342	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
343	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
344	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
345	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
346	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
347	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
348	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
349	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
350	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
351	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
352	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505

HEC-1 INPUT

PAGE 8

LINE	ID	1	2	3	4	5	6	7	8	9	10
353	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
354	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
355	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
356	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
357	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
358	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
359	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
360	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
361	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
362	PC	1.0									
363	LS	0.0	71.35	0.0							
364	UD	0.0									
365	KK	1C	CNAME	1C							
366	KO	0	0	0.0	0	22					
367	HC	2									
368	KK	1C	CNAME	1C							
369	KO	0	0	0.0	0	22					
370	RN	1C									
371	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE	(V) ROUTING	(--->) DIVERSION OR PUMP FLOW
NO.	(.) CONNECTOR	(<---) RETURN OF DIVERTED OR PUMPED FLOW
18	4B	
	V	
	V	
50	4R	
	.	
	.	
53	5B	
	V	
	V	
85	5R	
	.	

```

.
.
88 . . . 3aB
.
120 . . . 3bB
.
152 3C-----
.
.
155 V
3R
.
.
158 . 6B
. V
. V
190 . 6R
.
.
193 . . 7bB
.
.
225 . . . 7aB
.
.
257 . 7C-----
.
.
260 V
7R
.
.
263 . . 2bB
.
.
295 . . . 2aB
.
.
327 2C-----
.
.
330 V
2R
.
.
333 . 1B
.
.
365 1C-----
.
.
368 V
1C

```

```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE TIME *
*****

```

```

*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
*****

```

Scrabble Creek  
w Mining & wo Logging (Scenario 2), LIDAR Data  
25 yr Storm

```

5 IO OUTPUT CONTROL VARIABLES
      IPRT 1 PRINT CONTROL
      IPLOT 0 PLOT CONTROL
      QSCAL 0. HYDROGRAPH PLOT SCALE

7 IN TIME DATA FOR INPUT TIME SERIES
      JXMIN 15 TIME INTERVAL IN MINUTES
      JXDATE 1JAN94 STARTING DATE
      JXTIME 0 STARTING TIME

IT HYDROGRAPH TIME DATA
      NMIN 15 MINUTES IN COMPUTATION INTERVAL
      IDATE 1JAN94 STARTING DATE
      ITIME 0000 STARTING TIME
      NQ, 100 NUMBER OF HYDROGRAPH ORDINATES
      NDDATE 2JAN94 ENDING DATE
      NDTIME 0045 ENDING TIME
      ICENT 19 CENTURY MARK

      COMPUTATION INTERVAL 0.25 HOURS
      TOTAL TIME BASE 24.75 HOURS

```

ENGLISH UNITS  
DRAINAGE AREA SQUARE MILES  
PRECIPITATION DEPTH INCHES  
LENGTH, ELEVATION FEET  
FLOW CUBIC FEET PER SECOND  
STORAGE VOLUME ACRE-Feet



SURFACE AREA ACRES  
TEMPERATURE DEGREES FAHRENHEIT

\*\*\* \*\*

\*\*\*\*\*  
\* \*  
18 KK \* 4B \*  
\* \*  
\*\*\*\*\*

19 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

22 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

20 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.40 SUBBASIN AREA

PRECIPITATION DATA

21 PB STORM 4.75 BASIN TOTAL PRECIPITATION

23 PI INCREMENTAL PRECIPITATION PATTERN  
Table with 11 columns of numerical values representing precipitation increments.

48 LS SCS LOSS RATE  
STRTL 0.69 INITIAL ABSTRACTION  
CRVNR 74.37 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

49 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.26 LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
7 END-OF-PERIOD ORDINATES  
375. 430. 151. 53. 18. 6. 2.

\*\*\*\*\*

HYDROGRAPH AT STATION 4B

\*\*\*\*\*

Table with 16 columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and 7 empty columns. It contains 24 rows of hydrograph data for station 4B.

										25yr.out				
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.00	0.02	17.		
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.00	0.01	16.		
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.01	15.		
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.01	15.		
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	14.		
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	14.		
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	13.		
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	13.		
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	12.		
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	12.		
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	12.		
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	12.		
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	12.		
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	12.		
1 JAN 0930	39	0.04	0.04	0.00	1.	*	1 JAN 2200	89	0.01	0.00	0.01	12.		
1 JAN 0945	40	0.04	0.04	0.00	2.	*	1 JAN 2215	90	0.01	0.00	0.01	12.		
1 JAN 1000	41	0.05	0.04	0.00	3.	*	1 JAN 2230	91	0.01	0.00	0.01	11.		
1 JAN 1015	42	0.05	0.05	0.01	4.	*	1 JAN 2245	92	0.01	0.00	0.01	11.		
1 JAN 1030	43	0.06	0.05	0.01	6.	*	1 JAN 2300	93	0.01	0.00	0.01	11.		
1 JAN 1045	44	0.07	0.06	0.01	8.	*	1 JAN 2315	94	0.01	0.00	0.01	11.		
1 JAN 1100	45	0.08	0.06	0.02	12.	*	1 JAN 2330	95	0.01	0.00	0.01	11.		
1 JAN 1115	46	0.10	0.08	0.02	17.	*	1 JAN 2345	96	0.01	0.00	0.01	11.		
1 JAN 1130	47	0.13	0.09	0.03	26.	*	2 JAN 0000	97	0.01	0.00	0.01	11.		
1 JAN 1145	48	0.52	0.33	0.19	92.	*	2 JAN 0015	98	0.00	0.00	0.00	7.		
1 JAN 1200	49	1.28	0.56	0.73	362.	*	2 JAN 0030	99	0.00	0.00	0.00	2.		
1 JAN 1215	50	0.20	0.07	0.14	395.	*	2 JAN 0045	100	0.00	0.00	0.00	1.		

\*\*\*\*\*

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.55, TOTAL EXCESS = 2.20

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)			
395.	12.25	77.	24.	23.	23.
		(INCHES)	1.783	2.196	2.196
		(AC-FT)	38.	47.	47.
CUMULATIVE AREA =		0.40 SQ MI			

\*\*\* \*\*

\*\*\*\*\*  
 50 KK \* 4R \* CNAME 4C  
 \* \*  
 \*\*\*\*\*

51 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

52 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.10 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

\*\*\*\*\*

HYDROGRAPH AT STATION 4R

\*\*\*\*\*

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1 JAN 0000	1	0.	*	1 JAN 0615	26	0.	*	1 JAN 1230	51	298.	*	1 JAN 1845	76	16.					
1 JAN 0015	2	0.	*	1 JAN 0630	27	0.	*	1 JAN 1245	52	151.	*	1 JAN 1900	77	16.					
1 JAN 0030	3	0.	*	1 JAN 0645	28	0.	*	1 JAN 1300	53	102.	*	1 JAN 1915	78	15.					
1 JAN 0045	4	0.	*	1 JAN 0700	29	0.	*	1 JAN 1315	54	72.	*	1 JAN 1930	79	15.					
1 JAN 0100	5	0.	*	1 JAN 0715	30	0.	*	1 JAN 1330	55	58.	*	1 JAN 1945	80	14.					
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	48.	*	1 JAN 2000	81	14.					
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	42.	*	1 JAN 2015	82	13.					
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	38.	*	1 JAN 2030	83	13.					
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	34.	*	1 JAN 2045	84	12.					
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	32.	*	1 JAN 2100	85	12.					
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	30.	*	1 JAN 2115	86	12.					
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	29.	*	1 JAN 2130	87	12.					
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	27.	*	1 JAN 2145	88	12.					
1 JAN 0315	14	0.	*	1 JAN 0930	39	1.	*	1 JAN 1545	64	26.	*	1 JAN 2200	89	12.					
1 JAN 0330	15	0.	*	1 JAN 0945	40	1.	*	1 JAN 1600	65	24.	*	1 JAN 2215	90	12.					
1 JAN 0345	16	0.	*	1 JAN 1000	41	2.	*	1 JAN 1615	66	23.	*	1 JAN 2230	91	12.					

25yr.out

1 JAN 0400	17	0.	*	1 JAN 1015	42	3.	*	1 JAN 1630	67	22.	*	1 JAN 2245	92	11.
1 JAN 0415	18	0.	*	1 JAN 1030	43	5.	*	1 JAN 1645	68	21.	*	1 JAN 2300	93	11.
1 JAN 0430	19	0.	*	1 JAN 1045	44	7.	*	1 JAN 1700	69	20.	*	1 JAN 2315	94	11.
1 JAN 0445	20	0.	*	1 JAN 1100	45	10.	*	1 JAN 1715	70	20.	*	1 JAN 2330	95	11.
1 JAN 0500	21	0.	*	1 JAN 1115	46	15.	*	1 JAN 1730	71	19.	*	1 JAN 2345	96	11.
1 JAN 0515	22	0.	*	1 JAN 1130	47	22.	*	1 JAN 1745	72	19.	*	2 JAN 0000	97	11.
1 JAN 0530	23	0.	*	1 JAN 1145	48	61.	*	1 JAN 1800	73	18.	*	2 JAN 0015	98	9.
1 JAN 0545	24	0.	*	1 JAN 1200	49	240.	*	1 JAN 1815	74	17.	*	2 JAN 0030	99	4.
1 JAN 0600	25	0.	*	1 JAN 1215	50	408.	*	1 JAN 1830	75	17.	*	2 JAN 0045	100	1.

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PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
408.	12.25		77.	24.	23.	23.
		(INCHES)	1.782	2.195	2.195	2.195
		(AC-FT)	38.	47.	47.	47.

CUMULATIVE AREA = 0.40 SQ MI

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 53 KK \* 5B \*  
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54 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

57 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

55 BA SUBBASIN CHARACTERISTICS

TAREA,	0.63	SUBBASIN AREA
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PRECIPITATION DATA

56 PB STORM 4.75 BASIN TOTAL PRECIPITATION

58 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.11	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

83 LS SCS LOSS RATE

STRTL	0.66	INITIAL ABSTRACTION
CRVNBR	75.11	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

84 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.22	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 6 END-OF-PERIOD ORDINATES

731.	629.	186.	57.	17.	6.
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HYDROGRAPH AT STATION 5B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.14	0.04	0.10		310.
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.10	0.03	0.07		183.
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.08	0.02	0.06		125.
1	JAN	0045	4	0.01	0.01	0.00	0.	*		1	JAN	1315	54	0.07	0.02	0.05		98.

25yr.out

1 JAN 0100	5	0.01	0.01	0.00	0.	*	1 JAN 1330	55	0.06	0.02	0.04	81.
1 JAN 0115	6	0.01	0.01	0.00	0.	*	1 JAN 1345	56	0.05	0.01	0.04	70.
1 JAN 0130	7	0.01	0.01	0.00	0.	*	1 JAN 1400	57	0.05	0.01	0.03	62.
1 JAN 0145	8	0.01	0.01	0.00	0.	*	1 JAN 1415	58	0.04	0.01	0.03	56.
1 JAN 0200	9	0.01	0.01	0.00	0.	*	1 JAN 1430	59	0.04	0.01	0.03	52.
1 JAN 0215	10	0.01	0.01	0.00	0.	*	1 JAN 1445	60	0.04	0.01	0.03	49.
1 JAN 0230	11	0.01	0.01	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.03	47.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.03	0.01	0.03	44.
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.03	0.01	0.02	42.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.03	0.01	0.02	40.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.02	37.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.02	35.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.02	34.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	33.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.02	0.01	0.02	32.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.02	0.01	0.02	31.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.02	0.01	0.02	30.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.02	0.01	0.02	29.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.02	0.00	0.02	28.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.02	0.00	0.02	27.
1 JAN 0600	25	0.02	0.02	0.00	0.	*	1 JAN 1830	75	0.02	0.00	0.02	26.
1 JAN 0615	26	0.02	0.02	0.00	0.	*	1 JAN 1845	76	0.02	0.00	0.02	26.
1 JAN 0630	27	0.02	0.02	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.01	24.
1 JAN 0645	28	0.02	0.02	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.01	24.
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	23.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	22.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	21.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	20.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	20.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	19.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	19.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	19.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	19.
1 JAN 0915	38	0.04	0.04	0.00	1.	*	1 JAN 2145	88	0.01	0.00	0.01	19.
1 JAN 0930	39	0.04	0.04	0.00	2.	*	1 JAN 2200	89	0.01	0.00	0.01	19.
1 JAN 0945	40	0.04	0.04	0.00	4.	*	1 JAN 2215	90	0.01	0.00	0.01	18.
1 JAN 1000	41	0.05	0.04	0.00	6.	*	1 JAN 2230	91	0.01	0.00	0.01	18.
1 JAN 1015	42	0.05	0.05	0.01	8.	*	1 JAN 2245	92	0.01	0.00	0.01	18.
1 JAN 1030	43	0.06	0.05	0.01	11.	*	1 JAN 2300	93	0.01	0.00	0.01	18.
1 JAN 1045	44	0.07	0.06	0.01	16.	*	1 JAN 2315	94	0.01	0.00	0.01	18.
1 JAN 1100	45	0.08	0.06	0.02	22.	*	1 JAN 2330	95	0.01	0.00	0.01	17.
1 JAN 1115	46	0.10	0.08	0.02	31.	*	1 JAN 2345	96	0.01	0.00	0.01	17.
1 JAN 1130	47	0.13	0.09	0.04	47.	*	2 JAN 0000	97	0.01	0.00	0.01	17.
1 JAN 1145	48	0.52	0.32	0.20	178.	*	2 JAN 0015	98	0.00	0.00	0.00	9.
1 JAN 1200	49	1.28	0.54	0.75	682.	*	2 JAN 0030	99	0.00	0.00	0.00	3.
1 JAN 1215	50	0.20	0.06	0.14	611.	*	2 JAN 0045	100	0.00	0.00	0.00	1.

\*\*\*\*\*

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.49, TOTAL EXCESS = 2.26

PEAK FLOW (CFS)	TIME (HR)	6-HR (CFS)	24-HR (INCHES)	72-HR (AC-FT)	24.75-HR (INCHES)
682.	12.00	124.	1,832	62.	2,257
			76.	76.	76.

CUMULATIVE AREA = 0.63 SQ MI

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*****
*
85 KK *      5R *      CNAME      5C
*
*****

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86 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

```

HYDROGRAPH ROUTING DATA

```

87 RM      MUSKINGUM ROUTING
          NSTPS      1      NUMBER OF SUBREACHES
          AMSKK      0.10  MUSKINGUM K
          X          0.20  MUSKINGUM X

```

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

\*\*\*\*\*

HYDROGRAPH AT STATION 5R

25yr.out

```
*****
DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW * DA MON HRMN ORD FLOW
1 JAN 0000 1 0. * 1 JAN 0615 26 0. * 1 JAN 1230 51 441. * 1 JAN 1845 76 26.
1 JAN 0015 2 0. * 1 JAN 0630 27 0. * 1 JAN 1245 52 218. * 1 JAN 1900 77 25.
1 JAN 0030 3 0. * 1 JAN 0645 28 0. * 1 JAN 1300 53 146. * 1 JAN 1915 78 24.
1 JAN 0045 4 0. * 1 JAN 0700 29 0. * 1 JAN 1315 54 107. * 1 JAN 1930 79 23.
1 JAN 0100 5 0. * 1 JAN 0715 30 0. * 1 JAN 1330 55 87. * 1 JAN 1945 80 22.
1 JAN 0115 6 0. * 1 JAN 0730 31 0. * 1 JAN 1345 56 74. * 1 JAN 2000 81 21.
1 JAN 0130 7 0. * 1 JAN 0745 32 0. * 1 JAN 1400 57 66. * 1 JAN 2015 82 20.
1 JAN 0145 8 0. * 1 JAN 0800 33 0. * 1 JAN 1415 58 59. * 1 JAN 2030 83 20.
1 JAN 0200 9 0. * 1 JAN 0815 34 0. * 1 JAN 1430 59 54. * 1 JAN 2045 84 19.
1 JAN 0215 10 0. * 1 JAN 0830 35 0. * 1 JAN 1445 60 50. * 1 JAN 2100 85 19.
1 JAN 0230 11 0. * 1 JAN 0845 36 0. * 1 JAN 1500 61 48. * 1 JAN 2115 86 19.
1 JAN 0245 12 0. * 1 JAN 0900 37 0. * 1 JAN 1515 62 45. * 1 JAN 2130 87 19.
1 JAN 0300 13 0. * 1 JAN 0915 38 1. * 1 JAN 1530 63 43. * 1 JAN 2145 88 19.
1 JAN 0315 14 0. * 1 JAN 0930 39 2. * 1 JAN 1545 64 41. * 1 JAN 2200 89 19.
1 JAN 0330 15 0. * 1 JAN 0945 40 3. * 1 JAN 1600 65 38. * 1 JAN 2215 90 19.
1 JAN 0345 16 0. * 1 JAN 1000 41 5. * 1 JAN 1615 66 36. * 1 JAN 2230 91 18.
1 JAN 0400 17 0. * 1 JAN 1015 42 7. * 1 JAN 1630 67 34. * 1 JAN 2245 92 18.
1 JAN 0415 18 0. * 1 JAN 1030 43 10. * 1 JAN 1645 68 33. * 1 JAN 2300 93 18.
1 JAN 0430 19 0. * 1 JAN 1045 44 14. * 1 JAN 1700 69 32. * 1 JAN 2315 94 18.
1 JAN 0445 20 0. * 1 JAN 1100 45 19. * 1 JAN 1715 70 31. * 1 JAN 2330 95 18.
1 JAN 0500 21 0. * 1 JAN 1115 46 27. * 1 JAN 1730 71 30. * 1 JAN 2345 96 17.
1 JAN 0515 22 0. * 1 JAN 1130 47 40. * 1 JAN 1745 72 29. * 2 JAN 0000 97 17.
1 JAN 0530 23 0. * 1 JAN 1145 48 114. * 1 JAN 1800 73 29. * 2 JAN 0015 98 13.
1 JAN 0545 24 0. * 1 JAN 1200 49 446. * 1 JAN 1815 74 28. * 2 JAN 0030 99 5.
1 JAN 0600 25 0. * 1 JAN 1215 50 696. * 1 JAN 1830 75 27. * 2 JAN 0045 100 1.
*****
```

```
PEAK FLOW TIME MAXIMUM AVERAGE FLOW
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR
+ 696. 12.25 (CFS) 124. 38. 37. 37.
(INCHES) 1.831 2.256 2.256 2.256
(AC-FT) 62. 76. 76. 76.
CUMULATIVE AREA = 0.63 SQ MI
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*****
*
88 KK * 3aB *
*
*****
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```
89 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPILOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS
```

```
92 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 6 TIME INTERVAL IN MINUTES
JXDATE 1JAN94 STARTING DATE
JXTIME 0 STARTING TIME
```

SUBBASIN RUNOFF DATA

```
90 BA SUBBASIN CHARACTERISTICS
TAREA, 0.43 SUBBASIN AREA
```

PRECIPITATION DATA

```
91 PB STORM 4.75 BASIN TOTAL PRECIPITATION
```

```
93 PI INCREMENTAL PRECIPITATION PATTERN
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
```

```
118 LS SCS LOSS RATE
STRFL 0.82 INITIAL ABSTRACTION
CRVNBR 70.96 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA
```

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119 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.21 LAG
```

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
6 END-OF-PERIOD ORDINATES  
3.

520. 412. 117. 34. 10. 3.

HYDROGRAPH AT STATION 3aB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.09	176.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.10	0.03	0.06	105.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	74.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.04	58.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	49.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.04	43.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.02	0.03	38.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	34.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	32.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	30.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	29.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	27.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	26.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	24.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	23.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	21.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	21.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	20.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	20.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	19.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	18.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	18.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	17.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.01	17.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	16.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	16.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.01	15.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.01	0.01	15.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	14.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	14.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	13.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	13.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	12.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	12.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	12.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	12.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	12.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	12.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	12.
1	JAN	0945	40	0.04	0.04	0.00	0.	*	1	JAN	2215	90	0.01	0.00	0.01	12.
1	JAN	1000	41	0.05	0.04	0.00	0.	*	1	JAN	2230	91	0.01	0.00	0.01	11.
1	JAN	1015	42	0.05	0.05	0.00	1.	*	1	JAN	2245	92	0.01	0.00	0.01	11.
1	JAN	1030	43	0.06	0.05	0.00	2.	*	1	JAN	2300	93	0.01	0.00	0.01	11.
1	JAN	1045	44	0.07	0.06	0.01	5.	*	1	JAN	2315	94	0.01	0.00	0.01	11.
1	JAN	1100	45	0.08	0.07	0.01	8.	*	1	JAN	2330	95	0.01	0.00	0.01	11.
1	JAN	1115	46	0.10	0.09	0.02	12.	*	1	JAN	2345	96	0.01	0.00	0.01	11.
1	JAN	1130	47	0.13	0.10	0.02	20.	*	2	JAN	0000	97	0.01	0.00	0.01	11.
1	JAN	1145	48	0.52	0.37	0.15	92.	*	2	JAN	0015	98	0.00	0.00	0.00	6.
1	JAN	1200	49	1.28	0.65	0.63	396.	*	2	JAN	0030	99	0.00	0.00	0.00	2.
1	JAN	1215	50	0.20	0.08	0.12	344.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.82, TOTAL EXCESS = 1.93

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	24.75-HR
(CFS)	(HR)	(CFS)	24-HR	72-HR
396.	12.00	72.	22.	21.
		(INCHES)	1.926	1.926
		(AC-FT)	36.	44.

CUMULATIVE AREA = 0.43 SQ MI

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120 KK \*\*\*\*\*  
\* \*  
\* 3bB \*  
\* \*  
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121 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT

ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

25yr.out

124 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

122 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.45 SUBBASIN AREA

PRECIPITATION DATA

123 PB STORM 4.75 BASIN TOTAL PRECIPITATION

125 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

150 LS SCS LOSS RATE  
 STRTL 0.71 INITIAL ABSTRACTION  
 CRVNR 73.72 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

151 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.23 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 7 END-OF-PERIOD ORDINATES  
 481. 461. 145. 46. 15. 5. 1.

HYDROGRAPH AT STATION 3bb

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.04	0.09	218.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.10	0.03	0.07	130.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.02	0.06	89.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.05	68.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	56.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.04	49.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	43.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	39.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	36.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	34.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	32.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.03	31.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	29.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	27.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	26.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	24.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	23.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	23.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	22.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	21.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	21.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	20.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	19.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	19.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	18.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.01	18.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.01	17.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.01	16.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	16.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	15.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	14.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	14.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	14.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	13.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	13.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	13.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	13.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	13.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	13.
1	JAN	0945	40	0.04	0.04	0.00	1.	*	1	JAN	2215	90	0.01	0.00	0.01	13.
1	JAN	1000	41	0.05	0.04	0.00	2.	*	1	JAN	2230	91	0.01	0.00	0.01	13.
1	JAN	1015	42	0.05	0.05	0.00	4.	*	1	JAN	2245	92	0.01	0.00	0.01	12.
1	JAN	1030	43	0.06	0.05	0.01	6.	*	1	JAN	2300	93	0.01	0.00	0.01	13.
1	JAN	1045	44	0.07	0.06	0.01	9.	*	1	JAN	2315	94	0.01	0.00	0.01	12.

						25yr.out						
1 JAN 1100	45	0.08	0.07	0.01	13.	*	1 JAN 2330	95	0.01	0.00	0.01	12.
1 JAN 1115	46	0.10	0.08	0.02	19.	*	1 JAN 2345	96	0.01	0.00	0.01	12.
1 JAN 1130	47	0.13	0.10	0.03	28.	*	2 JAN 0000	97	0.01	0.00	0.01	12.
1 JAN 1145	48	0.52	0.33	0.19	109.	*	2 JAN 0015	98	0.00	0.00	0.00	7.
1 JAN 1200	49	1.28	0.58	0.71	432.	*	2 JAN 0030	99	0.00	0.00	0.00	2.
1 JAN 1215	50	0.20	0.07	0.13	419.	*	2 JAN 0045	100	0.00	0.00	0.00	1.

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TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.61, TOTAL EXCESS = 2.14

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR	
+	432.	84.	26.	25.	25.	
		(INCHES)	1.741	2.143	2.143	2.143
		(AC-FT)	41.	51.	51.	51.

CUMULATIVE AREA = 0.45 SQ MI

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 152 KK \* 3C \* CNAME 3R  
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153 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

154 HC HYDROGRAPH COMBINATION  
 ICOMP 4 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
 SUM OF 4 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	1133.	1	JAN	1845	76	76.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	604.	1	JAN	1900	77	73.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	410.	1	JAN	1915	78	70.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	305.	1	JAN	1930	79	68.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	250.	1	JAN	1945	80	65.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	214.	1	JAN	2000	81	62.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	189.	1	JAN	2015	82	60.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	169.	1	JAN	2030	83	58.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	156.	1	JAN	2045	84	57.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	147.	1	JAN	2100	85	57.
1	JAN	0230	11	0.	1	JAN	0845	36	0.	1	JAN	1500	61	139.	1	JAN	2115	86	57.
1	JAN	0245	12	0.	1	JAN	0900	37	0.	1	JAN	1515	62	132.	1	JAN	2130	87	55.
1	JAN	0300	13	0.	1	JAN	0915	38	1.	1	JAN	1530	63	125.	1	JAN	2145	88	55.
1	JAN	0315	14	0.	1	JAN	0930	39	3.	1	JAN	1545	64	118.	1	JAN	2200	89	55.
1	JAN	0330	15	0.	1	JAN	0945	40	6.	1	JAN	1600	65	111.	1	JAN	2215	90	55.
1	JAN	0345	16	0.	1	JAN	1000	41	10.	1	JAN	1615	66	104.	1	JAN	2230	91	54.
1	JAN	0400	17	0.	1	JAN	1015	42	15.	1	JAN	1630	67	100.	1	JAN	2245	92	53.
1	JAN	0415	18	0.	1	JAN	1030	43	23.	1	JAN	1645	68	96.	1	JAN	2300	93	53.
1	JAN	0430	19	0.	1	JAN	1045	44	34.	1	JAN	1700	69	94.	1	JAN	2315	94	53.
1	JAN	0445	20	0.	1	JAN	1100	45	50.	1	JAN	1715	70	91.	1	JAN	2330	95	51.
1	JAN	0500	21	0.	1	JAN	1115	46	73.	1	JAN	1730	71	88.	1	JAN	2345	96	51.
1	JAN	0515	22	0.	1	JAN	1130	47	111.	1	JAN	1745	72	86.	2	JAN	0000	97	51.
1	JAN	0530	23	0.	1	JAN	1145	48	376.	1	JAN	1800	73	83.	2	JAN	0015	98	35.
1	JAN	0545	24	0.	1	JAN	1200	49	1515.	1	JAN	1815	74	81.	2	JAN	0030	99	13.
1	JAN	0600	25	0.	1	JAN	1215	50	1867.	1	JAN	1830	75	78.	2	JAN	0045	100	4.

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR	
+	1867.	356.	110.	106.	106.	
		(INCHES)	1.740	2.143	2.143	2.143
		(AC-FT)	177.	218.	218.	218.

CUMULATIVE AREA = 1.90 SQ MI



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155 KK \* 3R \* CNAME 3C
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156 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

157 RM MUSKINGUM ROUTING
NSTPS 2 NUMBER OF SUBREACHES
AMSKK 0.05 MUSKINGUM K
X 0.20 MUSKINGUM X

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\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 3R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 15 columns for specific dates (1 JAN 0000 to 1 JAN 0600). Each date entry includes flow values and asterisks.

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Summary table with columns: PEAK FLOW, TIME, 6-HR, 24-HR, 72-HR, 24.75-HR. Includes values for CFS and INCHES/AC-FT.

CUMULATIVE AREA = 1.90 SQ MI

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158 KK \* 6B \*
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159 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

162 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

160 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.25 SUBBASIN AREA

PRECIPITATION DATA

161 PB STORM 4.75 BASIN TOTAL PRECIPITATION

163 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

188 LS SCS LOSS RATE  
 STRTL 0.68 INITIAL ABSTRACTION  
 CRVNBR 74.57 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

189 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.20 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 6 END-OF-PERIOD ORDINATES  
 324. 234. 65. 18. 5. 1.

HYDROGRAPH AT STATION 6B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.04	0.10	114.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.10	0.03	0.07	68.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.02	0.06	47.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.05	37.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	31.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.01	0.04	27.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	24.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	22.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	20.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	19.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	18.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.03	17.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	16.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	16.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	15.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	14.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	13.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	13.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	13.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	12.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	12.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	11.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.00	0.02	11.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.00	0.02	11.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	10.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	10.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.01	10.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.01	9.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	9.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	9.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	8.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	8.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	8.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	8.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	8.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	8.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	7.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	7.
1	JAN	0930	39	0.04	0.04	0.00	1.	*	1	JAN	2200	89	0.01	0.00	0.01	7.
1	JAN	0945	40	0.04	0.04	0.00	1.	*	1	JAN	2215	90	0.01	0.00	0.01	7.
1	JAN	1000	41	0.05	0.04	0.00	2.	*	1	JAN	2230	91	0.01	0.00	0.01	7.
1	JAN	1015	42	0.05	0.05	0.01	3.	*	1	JAN	2245	92	0.01	0.00	0.01	7.
1	JAN	1030	43	0.06	0.05	0.01	4.	*	1	JAN	2300	93	0.01	0.00	0.01	7.
1	JAN	1045	44	0.07	0.06	0.01	6.	*	1	JAN	2315	94	0.01	0.00	0.01	7.
1	JAN	1100	45	0.08	0.06	0.02	8.	*	1	JAN	2330	95	0.01	0.00	0.01	7.
1	JAN	1115	46	0.10	0.08	0.02	12.	*	1	JAN	2345	96	0.01	0.00	0.01	7.
1	JAN	1130	47	0.13	0.09	0.04	18.	*	2	JAN	0000	97	0.01	0.00	0.01	7.
1	JAN	1145	48	0.52	0.32	0.20	74.	*	2	JAN	0015	98	0.00	0.00	0.00	3.

1 JAN 1200 49 1.28 0.55 0.73 286. 25yr.out \* 2 JAN 0030 99 0.00 0.00 0.00 1.  
 1 JAN 1215 50 0.20 0.07 0.14 229. \* 2 JAN 0045 100 0.00 0.00 0.00 0.  
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TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.54, TOTAL EXCESS = 2.21

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
286.	12.00	49.	15.	14.	14.	
		(INCHES)	1.797	2.213	2.213	2.213
		(AC-FT)	24.	30.	30.	30.

CUMULATIVE AREA = 0.25 SQ MI

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 \* \*  
 190 KK 6R \* CNAME 6C  
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191 KO OUTPUT CONTROL VARIABLES  
 IPRINT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

192 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSK 0.04 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 6R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 6R

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	117.	1	JAN	1845	76	10.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	77.	1	JAN	1900	77	10.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	46.	1	JAN	1915	78	9.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	40.	1	JAN	1930	79	9.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	31.	1	JAN	1945	80	9.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	29.	1	JAN	2000	81	8.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	24.	1	JAN	2015	82	8.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	23.	1	JAN	2030	83	8.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	20.	1	JAN	2045	84	8.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	20.	1	JAN	2100	85	8.
1	JAN	0230	11	0.	1	JAN	0845	36	0.	1	JAN	1500	61	18.	1	JAN	2115	86	8.
1	JAN	0245	12	0.	1	JAN	0900	37	0.	1	JAN	1515	62	18.	1	JAN	2130	87	7.
1	JAN	0300	13	0.	1	JAN	0915	38	0.	1	JAN	1530	63	17.	1	JAN	2145	88	7.
1	JAN	0315	14	0.	1	JAN	0930	39	1.	1	JAN	1545	64	16.	1	JAN	2200	89	7.
1	JAN	0330	15	0.	1	JAN	0945	40	1.	1	JAN	1600	65	15.	1	JAN	2215	90	7.
1	JAN	0345	16	0.	1	JAN	1000	41	2.	1	JAN	1615	66	14.	1	JAN	2230	91	7.
1	JAN	0400	17	0.	1	JAN	1015	42	3.	1	JAN	1630	67	13.	1	JAN	2245	92	7.
1	JAN	0415	18	0.	1	JAN	1030	43	4.	1	JAN	1645	68	13.	1	JAN	2300	93	7.
1	JAN	0430	19	0.	1	JAN	1045	44	6.	1	JAN	1700	69	13.	1	JAN	2315	94	7.
1	JAN	0445	20	0.	1	JAN	1100	45	8.	1	JAN	1715	70	12.	1	JAN	2330	95	7.
1	JAN	0500	21	0.	1	JAN	1115	46	11.	1	JAN	1730	71	12.	1	JAN	2345	96	7.
1	JAN	0515	22	0.	1	JAN	1130	47	17.	1	JAN	1745	72	11.	2	JAN	0000	97	7.
1	JAN	0530	23	0.	1	JAN	1145	48	61.	1	JAN	1800	73	11.	2	JAN	0015	98	4.
1	JAN	0545	24	0.	1	JAN	1200	49	243.	1	JAN	1815	74	11.	2	JAN	0030	99	1.
1	JAN	0600	25	0.	1	JAN	1215	50	269.	1	JAN	1830	75	10.	2	JAN	0045	100	0.

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
269.	12.25	49.	15.	14.	14.	
		(INCHES)	1.797	2.212	2.212	2.212
		(AC-FT)	24.	30.	30.	30.

CUMULATIVE AREA = 0.25 SQ MI

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193 KK \*\*\*\*\*
\* \*
\* 7bB \*
\* \*
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194 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

197 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 6 TIME INTERVAL IN MINUTES
JXDATE 1JAN94 STARTING DATE
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

195 BA SUBBASIN CHARACTERISTICS
TAREA, 0.27 SUBBASIN AREA

PRECIPITATION DATA

196 PB STORM 4.75 BASIN TOTAL PRECIPITATION

198 PI INCREMENTAL PRECIPITATION PATTERN
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03
0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

223 LS SCS LOSS RATE
STRTL 0.68 INITIAL ABSTRACTION
CRVNBR 74.67 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

224 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.00 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH
5 END-OF-PERIOD ORDINATES
519. 145. 29. 6. 0.

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HYDROGRAPH AT STATION 7bB

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Table with 16 columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP, Q, and 16 columns of data values. Includes asterisks as row separators.

25yr.out												
1 JAN 0700	29	0.02	0.02	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.01	10.
1 JAN 0715	30	0.02	0.02	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.01	9.
1 JAN 0730	31	0.02	0.02	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.01	9.
1 JAN 0745	32	0.02	0.02	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.01	8.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.01	0.00	0.01	8.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.01	8.
1 JAN 0830	35	0.03	0.03	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.01	8.
1 JAN 0845	36	0.03	0.03	0.00	0.	*	1 JAN 2115	86	0.01	0.00	0.01	8.
1 JAN 0900	37	0.04	0.04	0.00	0.	*	1 JAN 2130	87	0.01	0.00	0.01	8.
1 JAN 0915	38	0.04	0.04	0.00	0.	*	1 JAN 2145	88	0.01	0.00	0.01	8.
1 JAN 0930	39	0.04	0.04	0.00	1.	*	1 JAN 2200	89	0.01	0.00	0.01	8.
1 JAN 0945	40	0.04	0.04	0.00	2.	*	1 JAN 2215	90	0.01	0.00	0.01	8.
1 JAN 1000	41	0.05	0.04	0.00	2.	*	1 JAN 2230	91	0.01	0.00	0.01	8.
1 JAN 1015	42	0.05	0.05	0.01	4.	*	1 JAN 2245	92	0.01	0.00	0.01	8.
1 JAN 1030	43	0.06	0.05	0.01	5.	*	1 JAN 2300	93	0.01	0.00	0.01	8.
1 JAN 1045	44	0.07	0.06	0.01	7.	*	1 JAN 2315	94	0.01	0.00	0.01	7.
1 JAN 1100	45	0.08	0.06	0.02	10.	*	1 JAN 2330	95	0.01	0.00	0.01	7.
1 JAN 1115	46	0.10	0.08	0.02	15.	*	1 JAN 2345	96	0.01	0.00	0.01	7.
1 JAN 1130	47	0.13	0.09	0.04	22.	*	2 JAN 0000	97	0.01	0.00	0.01	7.
1 JAN 1145	48	0.52	0.32	0.20	109.	*	2 JAN 0015	98	0.00	0.00	0.00	2.
1 JAN 1200	49	1.28	0.55	0.73	411.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.20	0.07	0.14	184.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.53, TOTAL EXCESS = 2.22

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)			
411.	12.00	53.	16.	16.	16.
		(INCHES)	1.805	2.221	2.221
		(AC-FT)	26.	32.	32.

CUMULATIVE AREA = 0.27 SQ MI

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 225 KK 7aB \*  
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226 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

229 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

227 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.57 SUBBASIN AREA

PRECIPITATION DATA

228 PB STORM 4.75 BASIN TOTAL PRECIPITATION

230 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

255 LS SCS LOSS RATE  
 STRTL 0.78 INITIAL ABSTRACTION  
 CRVNR 71.89 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

256 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH

1089. 305. 60. 12.

HYDROGRAPH AT STATION 7aB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.14	0.05	0.09	177.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.10	0.03	0.06	111.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.08	0.03	0.05	84.
1	JAN	0045	4	0.01	0.01	0.00	0.	*	1	JAN	1315	54	0.07	0.02	0.05	71.
1	JAN	0100	5	0.01	0.01	0.00	0.	*	1	JAN	1330	55	0.06	0.02	0.04	62.
1	JAN	0115	6	0.01	0.01	0.00	0.	*	1	JAN	1345	56	0.05	0.02	0.04	55.
1	JAN	0130	7	0.01	0.01	0.00	0.	*	1	JAN	1400	57	0.05	0.01	0.03	49.
1	JAN	0145	8	0.01	0.01	0.00	0.	*	1	JAN	1415	58	0.04	0.01	0.03	45.
1	JAN	0200	9	0.01	0.01	0.00	0.	*	1	JAN	1430	59	0.04	0.01	0.03	42.
1	JAN	0215	10	0.01	0.01	0.00	0.	*	1	JAN	1445	60	0.04	0.01	0.03	40.
1	JAN	0230	11	0.01	0.01	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	38.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.03	0.01	0.02	36.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.03	0.01	0.02	34.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.03	0.01	0.02	32.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.02	30.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	29.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	28.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	27.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.02	0.01	0.02	27.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.02	0.01	0.02	26.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.02	0.01	0.02	25.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.02	0.01	0.02	24.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.02	0.01	0.02	23.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.02	0.01	0.02	23.
1	JAN	0600	25	0.02	0.02	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.01	22.
1	JAN	0615	26	0.02	0.02	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.01	21.
1	JAN	0630	27	0.02	0.02	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.01	20.
1	JAN	0645	28	0.02	0.02	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.01	20.
1	JAN	0700	29	0.02	0.02	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.01	19.
1	JAN	0715	30	0.02	0.02	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.01	18.
1	JAN	0730	31	0.02	0.02	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	17.
1	JAN	0745	32	0.02	0.02	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	17.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.01	0.00	0.01	16.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	16.
1	JAN	0830	35	0.03	0.03	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	17.
1	JAN	0845	36	0.03	0.03	0.00	0.	*	1	JAN	2115	86	0.01	0.00	0.01	16.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.01	0.00	0.01	16.
1	JAN	0915	38	0.04	0.04	0.00	0.	*	1	JAN	2145	88	0.01	0.00	0.01	16.
1	JAN	0930	39	0.04	0.04	0.00	0.	*	1	JAN	2200	89	0.01	0.00	0.01	16.
1	JAN	0945	40	0.04	0.04	0.00	0.	*	1	JAN	2215	90	0.01	0.00	0.01	16.
1	JAN	1000	41	0.05	0.04	0.00	1.	*	1	JAN	2230	91	0.01	0.00	0.01	15.
1	JAN	1015	42	0.05	0.05	0.00	3.	*	1	JAN	2245	92	0.01	0.00	0.01	15.
1	JAN	1030	43	0.06	0.05	0.00	6.	*	1	JAN	2300	93	0.01	0.00	0.01	15.
1	JAN	1045	44	0.07	0.06	0.01	9.	*	1	JAN	2315	94	0.01	0.00	0.01	15.
1	JAN	1100	45	0.08	0.07	0.01	14.	*	1	JAN	2330	95	0.01	0.00	0.01	15.
1	JAN	1115	46	0.10	0.08	0.02	22.	*	1	JAN	2345	96	0.01	0.00	0.01	15.
1	JAN	1130	47	0.13	0.10	0.03	36.	*	2	JAN	0000	97	0.01	0.00	0.01	15.
1	JAN	1145	48	0.52	0.36	0.16	188.	*	2	JAN	0015	98	0.00	0.00	0.00	4.
1	JAN	1200	49	1.28	0.63	0.66	769.	*	2	JAN	0030	99	0.00	0.00	0.00	1.
1	JAN	1215	50	0.20	0.08	0.13	349.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.75, TOTAL EXCESS = 2.00

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
769.	12.00	99.	31.	30.	30.	
		(INCHES)	1.626	1.999	1.999	1.999
		(AC-FT)	49.	61.	61.	61.

CUMULATIVE AREA = 0.57 SQ MI

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257 KK \* 7C \* CNAME 7R  
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258 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

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HYDROGRAPH AT STATION 7C  
 SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	387.	*	1	JAN	1845	76	42.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	245.	*	1	JAN	1900	77	40.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	173.	*	1	JAN	1915	78	39.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	147.	*	1	JAN	1930	79	38.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	125.	*	1	JAN	1945	80	36.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	112.	*	1	JAN	2000	81	34.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	99.	*	1	JAN	2015	82	33.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	90.	*	1	JAN	2030	83	32.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	84.	*	1	JAN	2045	84	32.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	81.	*	1	JAN	2100	85	33.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	76.	*	1	JAN	2115	86	32.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	73.	*	1	JAN	2130	87	31.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1.	*	1	JAN	1530	63	68.	*	1	JAN	2145	88	31.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2.	*	1	JAN	1545	64	65.	*	1	JAN	2200	89	31.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	3.	*	1	JAN	1600	65	60.	*	1	JAN	2215	90	31.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	6.	*	1	JAN	1615	66	57.	*	1	JAN	2230	91	30.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	10.	*	1	JAN	1630	67	55.	*	1	JAN	2245	92	30.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	15.	*	1	JAN	1645	68	54.	*	1	JAN	2300	93	30.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	22.	*	1	JAN	1700	69	52.	*	1	JAN	2315	94	29.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	32.	*	1	JAN	1715	70	51.	*	1	JAN	2330	95	29.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	49.	*	1	JAN	1730	71	49.	*	1	JAN	2345	96	29.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	75.	*	1	JAN	1745	72	48.	*	2	JAN	0000	97	29.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	358.	*	1	JAN	1800	73	46.	*	2	JAN	0015	98	10.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1422.	*	1	JAN	1815	74	45.	*	2	JAN	0030	99	2.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	802.	*	1	JAN	1830	75	44.	*	2	JAN	0045	100	1.	*

PEAK FLOW	TIME		MAXIMUM	AVERAGE FLOW		
(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
1422.	12.00		200.	62.	60.	60.
		(INCHES)	1.710	2.103	2.103	2.103
		(AC-FT)	99.	122.	122.	122.

CUMULATIVE AREA = 1.09 SQ MI

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 260 KK \* 7R \* CNAME 7C  
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261 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

262 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSK 0.10 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 7R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 7R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	515.	*	1	JAN	1845	76	43.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	291.	*	1	JAN	1900	77	41.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	200.	*	1	JAN	1915	78	39.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	155.	*	1	JAN	1930	79	38.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	135.	*	1	JAN	1945	80	37.	*

25yr.out														
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	117.	*	1 JAN 2000	81	35.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	104.	*	1 JAN 2015	82	34.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	93.	*	1 JAN 2030	83	33.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	87.	*	1 JAN 2045	84	32.
1 JAN 0215	10	0.	*	1 JAN 0830	35	0.	*	1 JAN 1445	60	82.	*	1 JAN 2100	85	32.
1 JAN 0230	11	0.	*	1 JAN 0845	36	0.	*	1 JAN 1500	61	78.	*	1 JAN 2115	86	32.
1 JAN 0245	12	0.	*	1 JAN 0900	37	0.	*	1 JAN 1515	62	74.	*	1 JAN 2130	87	31.
1 JAN 0300	13	0.	*	1 JAN 0915	38	0.	*	1 JAN 1530	63	70.	*	1 JAN 2145	88	31.
1 JAN 0315	14	0.	*	1 JAN 0930	39	1.	*	1 JAN 1545	64	66.	*	1 JAN 2200	89	31.
1 JAN 0330	15	0.	*	1 JAN 0945	40	2.	*	1 JAN 1600	65	62.	*	1 JAN 2215	90	31.
1 JAN 0345	16	0.	*	1 JAN 1000	41	5.	*	1 JAN 1615	66	58.	*	1 JAN 2230	91	30.
1 JAN 0400	17	0.	*	1 JAN 1015	42	8.	*	1 JAN 1630	67	56.	*	1 JAN 2245	92	30.
1 JAN 0415	18	0.	*	1 JAN 1030	43	13.	*	1 JAN 1645	68	54.	*	1 JAN 2300	93	30.
1 JAN 0430	19	0.	*	1 JAN 1045	44	19.	*	1 JAN 1700	69	53.	*	1 JAN 2315	94	30.
1 JAN 0445	20	0.	*	1 JAN 1100	45	28.	*	1 JAN 1715	70	51.	*	1 JAN 2330	95	29.
1 JAN 0500	21	0.	*	1 JAN 1115	46	41.	*	1 JAN 1730	71	50.	*	1 JAN 2345	96	29.
1 JAN 0515	22	0.	*	1 JAN 1130	47	63.	*	1 JAN 1745	72	49.	*	2 JAN 0000	97	29.
1 JAN 0530	23	0.	*	1 JAN 1145	48	218.	*	1 JAN 1800	73	47.	*	2 JAN 0015	98	19.
1 JAN 0545	24	0.	*	1 JAN 1200	49	915.	*	1 JAN 1815	74	45.	*	2 JAN 0030	99	4.
1 JAN 0600	25	0.	*	1 JAN 1215	50	1213.	*	1 JAN 1830	75	44.	*	2 JAN 0045	100	1.

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
1213.	12.25	200.	62.	60.	60.	
		(INCHES)	1.709	2.103	2.103	2.103
		(AC-FT)	99.	122.	122.	122.

CUMULATIVE AREA = 1.09 SQ MI

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263 KK \* 2b \*  
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264 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

267 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

265 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.13 SUBBASIN AREA

PRECIPITATION DATA

266 PB STORM 4.75 BASIN TOTAL PRECIPITATION

268 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

293 LS SCS LOSS RATE  
 STRTL 0.79 INITIAL ABSTRACTION  
 CRVNBR 71.61 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

294 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 240. 67. 13. 3. 0.

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HYDROGRAPH AT STATION 2bB

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*****
DA MON HRMN  ORD  RAIN  LOSS  EXCESS  COMP Q  *
*
1 JAN 0000  1  0.00  0.00  0.00  0.  *
1 JAN 0015  2  0.01  0.01  0.00  0.  *
1 JAN 0030  3  0.01  0.01  0.00  0.  *
1 JAN 0045  4  0.01  0.01  0.00  0.  *
1 JAN 0100  5  0.01  0.01  0.00  0.  *
1 JAN 0115  6  0.01  0.01  0.00  0.  *
1 JAN 0130  7  0.01  0.01  0.00  0.  *
1 JAN 0145  8  0.01  0.01  0.00  0.  *
1 JAN 0200  9  0.01  0.01  0.00  0.  *
1 JAN 0215  10 0.01  0.01  0.00  0.  *
1 JAN 0230  11 0.01  0.01  0.00  0.  *
1 JAN 0245  12 0.02  0.02  0.00  0.  *
1 JAN 0300  13 0.02  0.02  0.00  0.  *
1 JAN 0315  14 0.02  0.02  0.00  0.  *
1 JAN 0330  15 0.02  0.02  0.00  0.  *
1 JAN 0345  16 0.02  0.02  0.00  0.  *
1 JAN 0400  17 0.02  0.02  0.00  0.  *
1 JAN 0415  18 0.02  0.02  0.00  0.  *
1 JAN 0430  19 0.02  0.02  0.00  0.  *
1 JAN 0445  20 0.02  0.02  0.00  0.  *
1 JAN 0500  21 0.02  0.02  0.00  0.  *
1 JAN 0515  22 0.02  0.02  0.00  0.  *
1 JAN 0530  23 0.02  0.02  0.00  0.  *
1 JAN 0545  24 0.02  0.02  0.00  0.  *
1 JAN 0600  25 0.02  0.02  0.00  0.  *
1 JAN 0615  26 0.02  0.02  0.00  0.  *
1 JAN 0630  27 0.02  0.02  0.00  0.  *
1 JAN 0645  28 0.02  0.02  0.00  0.  *
1 JAN 0700  29 0.02  0.02  0.00  0.  *
1 JAN 0715  30 0.02  0.02  0.00  0.  *
1 JAN 0730  31 0.02  0.02  0.00  0.  *
1 JAN 0745  32 0.02  0.02  0.00  0.  *
1 JAN 0800  33 0.03  0.03  0.00  0.  *
1 JAN 0815  34 0.03  0.03  0.00  0.  *
1 JAN 0830  35 0.03  0.03  0.00  0.  *
1 JAN 0845  36 0.03  0.03  0.00  0.  *
1 JAN 0900  37 0.04  0.04  0.00  0.  *
1 JAN 0915  38 0.04  0.04  0.00  0.  *
1 JAN 0930  39 0.04  0.04  0.00  0.  *
1 JAN 0945  40 0.04  0.04  0.00  0.  *
1 JAN 1000  41 0.05  0.04  0.00  0.  *
1 JAN 1015  42 0.05  0.05  0.00  1.  *
1 JAN 1030  43 0.06  0.05  0.00  1.  *
1 JAN 1045  44 0.07  0.06  0.01  2.  *
1 JAN 1100  45 0.08  0.07  0.01  3.  *
1 JAN 1115  46 0.10  0.08  0.02  5.  *
1 JAN 1130  47 0.13  0.10  0.03  8.  *
1 JAN 1145  48 0.52  0.36  0.16  41.  *
1 JAN 1200  49 1.28  0.63  0.65  167.  *
1 JAN 1215  50 0.20  0.08  0.13  76.  *
*
1 JAN 1230  51 0.14  0.05  0.09  39.  *
1 JAN 1245  52 0.10  0.03  0.06  24.  *
1 JAN 1300  53 0.08  0.03  0.05  18.  *
1 JAN 1315  54 0.07  0.02  0.05  15.  *
1 JAN 1330  55 0.06  0.02  0.04  14.  *
1 JAN 1345  56 0.05  0.02  0.04  12.  *
1 JAN 1400  57 0.05  0.01  0.03  11.  *
1 JAN 1415  58 0.04  0.01  0.03  10.  *
1 JAN 1430  59 0.04  0.01  0.03  9.  *
1 JAN 1445  60 0.04  0.01  0.03  9.  *
1 JAN 1500  61 0.04  0.01  0.03  8.  *
1 JAN 1515  62 0.03  0.01  0.02  8.  *
1 JAN 1530  63 0.03  0.01  0.02  7.  *
1 JAN 1545  64 0.03  0.01  0.02  7.  *
1 JAN 1600  65 0.03  0.01  0.02  7.  *
1 JAN 1615  66 0.03  0.01  0.02  6.  *
1 JAN 1630  67 0.03  0.01  0.02  6.  *
1 JAN 1645  68 0.03  0.01  0.02  6.  *
1 JAN 1700  69 0.02  0.01  0.02  6.  *
1 JAN 1715  70 0.02  0.01  0.02  6.  *
1 JAN 1730  71 0.02  0.01  0.02  5.  *
1 JAN 1745  72 0.02  0.01  0.02  5.  *
1 JAN 1800  73 0.02  0.01  0.02  5.  *
1 JAN 1815  74 0.02  0.01  0.02  5.  *
1 JAN 1830  75 0.02  0.01  0.01  5.  *
1 JAN 1845  76 0.02  0.01  0.01  5.  *
1 JAN 1900  77 0.02  0.01  0.01  4.  *
1 JAN 1915  78 0.02  0.00  0.01  4.  *
1 JAN 1930  79 0.02  0.00  0.01  4.  *
1 JAN 1945  80 0.02  0.00  0.01  4.  *
1 JAN 2000  81 0.02  0.00  0.01  4.  *
1 JAN 2015  82 0.02  0.00  0.01  4.  *
1 JAN 2030  83 0.01  0.00  0.01  4.  *
1 JAN 2045  84 0.02  0.00  0.01  4.  *
1 JAN 2100  85 0.02  0.00  0.01  4.  *
1 JAN 2115  86 0.01  0.00  0.01  4.  *
1 JAN 2130  87 0.01  0.00  0.01  3.  *
1 JAN 2145  88 0.01  0.00  0.01  4.  *
1 JAN 2200  89 0.01  0.00  0.01  3.  *
1 JAN 2215  90 0.01  0.00  0.01  3.  *
1 JAN 2230  91 0.01  0.00  0.01  3.  *
1 JAN 2245  92 0.01  0.00  0.01  3.  *
1 JAN 2300  93 0.01  0.00  0.01  3.  *
1 JAN 2315  94 0.01  0.00  0.01  3.  *
1 JAN 2330  95 0.01  0.00  0.01  3.  *
1 JAN 2345  96 0.01  0.00  0.01  3.  *
2 JAN 0000  97 0.01  0.00  0.01  3.  *
2 JAN 0015  98 0.00  0.00  0.00  1.  *
2 JAN 0030  99 0.00  0.00  0.00  0.  *
2 JAN 0045  100 0.00  0.00  0.00  0.  *
*

```

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.77, TOTAL EXCESS = 1.98

```

PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)          6-HR      24-HR      72-HR      24.75-HR
+ 167.         12.00          (CFS)
                    (INCHES)  22.        7.         6.         6.
                    (AC-FT)   1.609     1.977     1.977     1.977
                    11.        13.        13.        13.

```

CUMULATIVE AREA = 0.13 SQ MI

\*\*\* \*\*

```

*****
*
295 KK  *      2aB *
*      *
*****

```

```

296 KO  OUTPUT CONTROL VARIABLES
        IPRNT      1  PRINT CONTROL
        IPLOT      0  PLOT CONTROL
        QSCAL      0. HYDROGRAPH PLOT SCALE
        IPNCH      1  PUNCH COMPUTED HYDROGRAPH
        IOUT       22 SAVE HYDROGRAPH ON THIS UNIT
        ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
        ISAV2     100 LAST ORDINATE PUNCHED OR SAVED
        TIMINT     0.250 TIME INTERVAL IN HOURS

```

```

299 IN  TIME DATA FOR INPUT TIME SERIES
        JXMIN      6  TIME INTERVAL IN MINUTES
        JXDATE     1JAN94 STARTING DATE
        JXTIME     0  STARTING TIME

```

SUBBASIN RUNOFF DATA

297 BA SUBBASIN CHARACTERISTICS
TAREA, 0.49 SUBBASIN AREA

PRECIPITATION DATA

298 PB STORM 4.75 BASIN TOTAL PRECIPITATION

Table with 11 columns for incremental precipitation pattern data for station 300 PI.

325 LS SCS LOSS RATE
STRTL 0.83 INITIAL ABSTRACTION
CRVNBR 70.68 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

326 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.00 LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH
5 END-OF-PERIOD ORDINATES

940. 263. 52. 10. 0.

\*\*\*\*\*

HYDROGRAPH AT STATION 2aB

\*\*\*\*\*

Main hydrograph data table with columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and a second set of the same columns. Includes asterisks as markers.

\*\*\*\*\*

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.85, TOTAL EXCESS = 1.90 <sup>25yr.out</sup>

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
+	(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
		(CFS)				
+	628.	12.00	82.	25.	24.	24.
		(INCHES)	1.550	1.905	1.905	1.905
		(AC-FT)	40.	50.	50.	50.
CUMULATIVE AREA =			0.49 SQ MI			

\*\*\* \*\*

```

*****
*
327 KK *      2C *      CNAME      2R
*
*****

```

```

328 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT      22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

```

```

329 HC      HYDROGRAPH COMBINATION
          ICOMP      4      NUMBER OF HYDROGRAPHS TO COMBINE

```

\*\*\*

HYDROGRAPH AT STATION 2C  
SUM OF 4 HYDROGRAPHS

\*\*\*\*\*

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2009.	*	1	JAN	1845	76	141.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	1054.	*	1	JAN	1900	77	136.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	732.	*	1	JAN	1915	78	131.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	544.	*	1	JAN	1930	79	127.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	462.	*	1	JAN	1945	80	122.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	390.	*	1	JAN	2000	81	116.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	352.	*	1	JAN	2015	82	112.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	310.	*	1	JAN	2030	83	109.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	291.	*	1	JAN	2045	84	107.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	271.	*	1	JAN	2100	85	107.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	261.	*	1	JAN	2115	86	106.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	245.	*	1	JAN	2130	87	104.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1.	*	1	JAN	1530	63	234.	*	1	JAN	2145	88	104.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	4.	*	1	JAN	1545	64	219.	*	1	JAN	2200	89	103.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	8.	*	1	JAN	1600	65	207.	*	1	JAN	2215	90	102.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	14.	*	1	JAN	1615	66	193.	*	1	JAN	2230	91	100.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	24.	*	1	JAN	1630	67	186.	*	1	JAN	2245	92	100.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	39.	*	1	JAN	1645	68	180.	*	1	JAN	2300	93	100.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	59.	*	1	JAN	1700	69	176.	*	1	JAN	2315	94	98.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	87.	*	1	JAN	1715	70	170.	*	1	JAN	2330	95	96.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	130.	*	1	JAN	1730	71	165.	*	1	JAN	2345	96	96.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	200.	*	1	JAN	1745	72	160.	*	2	JAN	0000	97	96.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	711.	*	1	JAN	1800	73	156.	*	2	JAN	0015	98	62.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	2939.	*	1	JAN	1815	74	150.	*	2	JAN	0030	99	21.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3515.	*	1	JAN	1830	75	146.	*	2	JAN	0045	100	5.	*

\*\*\*\*\*

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
+	(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
		(CFS)				
+	3515.	12.25	660.	203.	197.	197.
		(INCHES)	1.700	2.093	2.093	2.093
		(AC-FT)	327.	403.	403.	403.
CUMULATIVE AREA =			3.61 SQ MI			

\*\*\* \*\*

```

*****
*
330 KK *      2R *      CNAME      2C
*
*****

```

331 KO OUTPUT CONTROL VARIABLES

```

IPRNT      1 PRINT CONTROL
IPLOT      0 PLOT CONTROL
QSCAL     0. HYDROGRAPH PLOT SCALE
IPNCH     0 PUNCH COMPUTED HYDROGRAPH
IOUT      22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1     1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2    100 LAST ORDINATE PUNCHED OR SAVED
TIMINT    0.250 TIME INTERVAL IN HOURS

```

HYDROGRAPH ROUTING DATA

332 RM MUSKINGUM ROUTING

```

NSTPS      1 NUMBER OF SUBREACHES
AMSKK     0.14 MUSKINGUM K
X         0.20 MUSKINGUM X

```

\*\*\*

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 2R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2908.	*	1	JAN	1845	76	144.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	1558.	*	1	JAN	1900	77	139.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	889.	*	1	JAN	1915	78	133.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	644.	*	1	JAN	1930	79	129.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	504.	*	1	JAN	1945	80	125.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	430.	*	1	JAN	2000	81	119.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	372.	*	1	JAN	2015	82	114.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	334.	*	1	JAN	2030	83	110.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	301.	*	1	JAN	2045	84	108.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	282.	*	1	JAN	2100	85	107.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	266.	*	1	JAN	2115	86	107.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	254.	*	1	JAN	2130	87	105.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1.	*	1	JAN	1530	63	239.	*	1	JAN	2145	88	104.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2.	*	1	JAN	1545	64	227.	*	1	JAN	2200	89	103.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	5.	*	1	JAN	1600	65	213.	*	1	JAN	2215	90	103.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	10.	*	1	JAN	1615	66	201.	*	1	JAN	2230	91	101.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	18.	*	1	JAN	1630	67	190.	*	1	JAN	2245	92	100.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	30.	*	1	JAN	1645	68	183.	*	1	JAN	2300	93	100.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	47.	*	1	JAN	1700	69	178.	*	1	JAN	2315	94	99.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	71.	*	1	JAN	1715	70	173.	*	1	JAN	2330	95	97.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	106.	*	1	JAN	1730	71	168.	*	1	JAN	2345	96	96.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	161.	*	1	JAN	1745	72	163.	*	2	JAN	0000	97	96.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	414.	*	1	JAN	1800	73	158.	*	2	JAN	0015	98	82.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1651.	*	1	JAN	1815	74	153.	*	2	JAN	0030	99	44.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3257.	*	1	JAN	1830	75	148.	*	2	JAN	0045	100	13.	*

PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
+ (CFS) (HR) 6-HR 24-HR 72-HR 24.75-HR  
+ 3257. 12.25 (CFS) 660. 203. 197. 197.  
(INCHES) 1.700 2.092 2.092 2.092  
(AC-FT) 327. 403. 403. 403.

CUMULATIVE AREA = 3.61 SQ MI

\*\*\*\*\*

333 KK

```

*          *
*          *
*          *
*          *
*          *

```

334 KO OUTPUT CONTROL VARIABLES

```

IPRNT      1 PRINT CONTROL
IPLOT      0 PLOT CONTROL
QSCAL     0. HYDROGRAPH PLOT SCALE
IPNCH     1 PUNCH COMPUTED HYDROGRAPH
IOUT      22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1     1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2    100 LAST ORDINATE PUNCHED OR SAVED
TIMINT    0.250 TIME INTERVAL IN HOURS

```

337 IN TIME DATA FOR INPUT TIME SERIES

```

JXMIN      6 TIME INTERVAL IN MINUTES
JXDATE    1JAN94 STARTING DATE
JXTIME    0 STARTING TIME

```

SUBBASIN RUNOFF DATA

335 BA SUBBASIN CHARACTERISTICS

TAREA, 0.56 SUBBASIN AREA

PRECIPITATION DATA

336 PB STORM 4.75 BASIN TOTAL PRECIPITATION

338 PI INCREMENTAL PRECIPITATION PATTERN

Table with 11 columns of precipitation data values ranging from 0.00 to 0.11.

363 LS SCS LOSS RATE STRTL 0.80 INITIAL ABSTRACTION CRVNR 71.35 CURVE NUMBER RTIMP 0.00 PERCENT IMPERVIOUS AREA

364 UD SCS DIMENSIONLESS UNITGRAPH TLAG 0.00 LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH 5 END-OF-PERIOD ORDINATES

1075. 301. 59. 12. 0.

HYDROGRAPH AT STATION 1B

Large table with 16 columns: DA, MON, HRMN, ORD, RAIN, LOSS, EXCESS, COMP Q, and 16 columns of data values.

TOTAL RAINFALL = 4.75, TOTAL LOSS = 2.79, TOTAL EXCESS = 1.96

PEAK FLOW TIME 6-HR 24-HR 72-HR 24.75-HR

```

+ (CFS) (HR)
+ 741. 12.00 (CFS) 96. 29. 29. 29.
(INCHES) 1.592 1.956 1.956 1.956
(AC-FT) 48. 58. 58. 58.
CUMULATIVE AREA = 0.56 SQ MI

```

\*\*\* \*\* \*\*

```

*****
*
365 KK * 1C * CNAME 1C
*
*****

```

```

366 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

```

```

367 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

```

\*\*\*

HYDROGRAPH AT STATION 1C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	3080.	*	1	JAN	1845	76	165.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	1666.	*	1	JAN	1900	77	158.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	971.	*	1	JAN	1915	78	153.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	713.	*	1	JAN	1930	79	148.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	564.	*	1	JAN	1945	80	142.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	484.	*	1	JAN	2000	81	136.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	420.	*	1	JAN	2015	82	131.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	378.	*	1	JAN	2030	83	126.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	342.	*	1	JAN	2045	84	124.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	322.	*	1	JAN	2100	85	123.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	0.	*	1	JAN	1500	61	303.	*	1	JAN	2115	86	122.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	0.	*	1	JAN	1515	62	289.	*	1	JAN	2130	87	120.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	1.	*	1	JAN	1530	63	273.	*	1	JAN	2145	88	119.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	2.	*	1	JAN	1545	64	259.	*	1	JAN	2200	89	119.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	5.	*	1	JAN	1600	65	243.	*	1	JAN	2215	90	118.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	11.	*	1	JAN	1615	66	229.	*	1	JAN	2230	91	116.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	21.	*	1	JAN	1630	67	217.	*	1	JAN	2245	92	115.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	35.	*	1	JAN	1645	68	210.	*	1	JAN	2300	93	115.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	55.	*	1	JAN	1700	69	204.	*	1	JAN	2315	94	114.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	84.	*	1	JAN	1715	70	198.	*	1	JAN	2330	95	112.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	126.	*	1	JAN	1730	71	192.	*	1	JAN	2345	96	111.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	194.	*	1	JAN	1745	72	187.	*	2	JAN	0000	97	110.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	593.	*	1	JAN	1800	73	181.	*	2	JAN	0015	98	85.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	2392.	*	1	JAN	1815	74	175.	*	2	JAN	0030	99	45.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	3595.	*	1	JAN	1830	75	170.	*	2	JAN	0045	100	13.	*

```

PEAK FLOW TIME 6-HR MAXIMUM AVERAGE FLOW 24.75-HR
+ (CFS) (HR) (CFS)
+ 3595. 12.25 (CFS) 756. 232. 225. 225.
(INCHES) 1.685 2.074 2.074 2.074
(AC-FT) 375. 461. 461. 461.
CUMULATIVE AREA = 4.17 SQ MI

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*****
*
368 KK * 1C * CNAME 1C
*
*****

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369 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

```

```

IPNCH      0 PUNCH COMPUTED HYDROGRAPH
IOUT      22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1     1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2    100 LAST ORDINATE PUNCHED OR SAVED
TIMINT    0.250 TIME INTERVAL IN HOURS

```

25yr.out

HYDROGRAPH ROUTING DATA

370 RN NO ROUTING

\*\*\*

HYDROGRAPH AT STATION 1C

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	3080.	1	JAN	1845	76	165.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	1666.	1	JAN	1900	77	158.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	971.	1	JAN	1915	78	153.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	713.	1	JAN	1930	79	148.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	564.	1	JAN	1945	80	142.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	484.	1	JAN	2000	81	136.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	420.	1	JAN	2015	82	131.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	378.	1	JAN	2030	83	126.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	342.	1	JAN	2045	84	124.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	322.	1	JAN	2100	85	123.
1	JAN	0230	11	0.	1	JAN	0845	36	0.	1	JAN	1500	61	303.	1	JAN	2115	86	122.
1	JAN	0245	12	0.	1	JAN	0900	37	0.	1	JAN	1515	62	289.	1	JAN	2130	87	120.
1	JAN	0300	13	0.	1	JAN	0915	38	1.	1	JAN	1530	63	273.	1	JAN	2145	88	119.
1	JAN	0315	14	0.	1	JAN	0930	39	2.	1	JAN	1545	64	259.	1	JAN	2200	89	119.
1	JAN	0330	15	0.	1	JAN	0945	40	5.	1	JAN	1600	65	243.	1	JAN	2215	90	118.
1	JAN	0345	16	0.	1	JAN	1000	41	11.	1	JAN	1615	66	229.	1	JAN	2230	91	116.
1	JAN	0400	17	0.	1	JAN	1015	42	21.	1	JAN	1630	67	217.	1	JAN	2245	92	115.
1	JAN	0415	18	0.	1	JAN	1030	43	35.	1	JAN	1645	68	210.	1	JAN	2300	93	115.
1	JAN	0430	19	0.	1	JAN	1045	44	55.	1	JAN	1700	69	204.	1	JAN	2315	94	114.
1	JAN	0445	20	0.	1	JAN	1100	45	84.	1	JAN	1715	70	198.	1	JAN	2330	95	112.
1	JAN	0500	21	0.	1	JAN	1115	46	126.	1	JAN	1730	71	192.	1	JAN	2345	96	111.
1	JAN	0515	22	0.	1	JAN	1130	47	194.	1	JAN	1745	72	187.	2	JAN	0000	97	110.
1	JAN	0530	23	0.	1	JAN	1145	48	593.	1	JAN	1800	73	181.	2	JAN	0015	98	85.
1	JAN	0545	24	0.	1	JAN	1200	49	2392.	1	JAN	1815	74	175.	2	JAN	0030	99	45.
1	JAN	0600	25	0.	1	JAN	1215	50	3595.	1	JAN	1830	75	170.	2	JAN	0045	100	13.

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
3595.	12.25	756.	232.	225.	225.
(INCHES)		1.685	2.074	2.074	2.074
(AC-FT)		375.	461.	461.	461.
CUMULATIVE AREA =		4.17 SQ MI			

RUNOFF SUMMARY  
FLOW IN CUBIC FEET PER SECOND  
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	4B	395.	12.25	77.	24.	23.	0.40		
ROUTED TO	4R	408.	12.25	77.	24.	23.	0.40		
HYDROGRAPH AT	5B	682.	12.00	124.	38.	37.	0.63		
ROUTED TO	5R	696.	12.25	124.	38.	37.	0.63		
HYDROGRAPH AT	3aB	396.	12.00	72.	22.	21.	0.43		
HYDROGRAPH AT	3bB	432.	12.00	84.	26.	25.	0.45		
4 COMBINED AT	3C	1867.	12.25	356.	110.	106.	1.90		
ROUTED TO	3R	1938.	12.25	356.	110.	106.	1.90		
HYDROGRAPH AT	6B	286.	12.00	49.	15.	14.	0.25		
ROUTED TO	6R	269.	12.25	49.	15.	14.	0.25		
HYDROGRAPH AT									

+		7bB	411.	12.00	53.	25yr.out 16.	16.	0.27
+	HYDROGRAPH AT							
+		7aB	769.	12.00	99.	31.	30.	0.57
+	3 COMBINED AT							
+		7C	1422.	12.00	200.	62.	60.	1.09
+	ROUTED TO							
+		7R	1213.	12.25	200.	62.	60.	1.09
+	HYDROGRAPH AT							
+		2bB	167.	12.00	22.	7.	6.	0.13
+	HYDROGRAPH AT							
+		2aB	628.	12.00	82.	25.	24.	0.49
+	4 COMBINED AT							
+		2C	3515.	12.25	660.	203.	197.	3.61
+	ROUTED TO							
+		2R	3257.	12.25	660.	203.	197.	3.61
+	HYDROGRAPH AT							
+		1B	741.	12.00	96.	29.	29.	0.56
+	2 COMBINED AT							
+		1C	3595.	12.25	756.	232.	225.	4.17
+	ROUTED TO							
+		1C	3595.	12.25	756.	232.	225.	4.17

\*\*\* NORMAL END OF HEC-1 \*\*\*



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1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* MAY 1991
* VERSION 4.0.1E
*
* RUN DATE TIME
*
*****

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*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
*
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID Scrabble Creek
2 ID w Mining & wo Logging (Scenario 2), LIDAR Data
3 ID 100 yr Storm
*DIAGRAM
4 IT 15 1JAN94 0 100
5 IO 1
* Gage XY Position 480389.00000 4224905.00000 1
6 PG Gage 4.1
7 IN 15 1JAN94 0
* Scrabble Rainfall Distribution
8 PC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.025
9 PC 0.05 0.075 0.1 0.1625 0.225 0.2875 0.35 0.475 0.6 0.725
10 PC 0.85 0.9125 0.975 1.0375 1.1 1.1625 1.225 1.2875 1.35 1.725
11 PC 2.1 2.475 2.85 3.1 3.35 3.6 3.85 3.9125 3.975 4.0375
12 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
13 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
14 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
15 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
16 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
17 PC 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1
18 KK 4B
19 KO 0 0 0.0 1 22
20 BA 0.4012
21 PB 5.7
22 IN 6 1JAN94 0
* typeII-24hour
23 PC 0.0 0.001 0.002 0.0031 0.0041 0.0051 0.0062 0.0073 0.0083 0.0094
24 PC 0.0105 0.0116 0.0127 0.0138 0.015 0.0161 0.0173 0.0185 0.0196 0.0208
25 PC 0.022 0.0232 0.0244 0.0256 0.0269 0.0281 0.0294 0.0307 0.0319 0.0332
26 PC 0.0345 0.0358 0.0371 0.0384 0.0398 0.0411 0.0425 0.0439 0.0452 0.0466
27 PC 0.048 0.0494 0.0508 0.0523 0.0538 0.0553 0.0568 0.0583 0.0598 0.0614
28 PC 0.063 0.0646 0.0662 0.0679 0.0696 0.0712 0.073 0.0747 0.0764 0.0782
29 PC 0.08 0.0818 0.0836 0.0855 0.0874 0.0892 0.0912 0.0931 0.095 0.097
30 PC 0.099 0.101 0.103 0.1051 0.1072 0.1093 0.1114 0.1135 0.1156 0.1178
31 PC 0.12 0.1223 0.1246 0.1271 0.1296 0.1323 0.135 0.1379 0.1408 0.1439
32 PC 0.147 0.1502 0.1534 0.1566 0.1598 0.163 0.1663 0.1697 0.1733 0.1771
33 PC 0.181 0.1851 0.1895 0.1941 0.1989 0.204 0.2094 0.2152 0.2214 0.228
34 PC 0.235 0.2427 0.2513 0.2609 0.2715 0.283 0.3068 0.3544 0.4308 0.5679
35 PC 0.663 0.682 0.6986 0.713 0.7252 0.735 0.7434 0.7514 0.7588 0.7656
36 PC 0.772 0.778 0.7836 0.789 0.7942 0.799 0.8036 0.808 0.8122 0.8162
37 PC 0.82 0.8237 0.8273 0.8308 0.8342 0.8376 0.8409 0.8442 0.8474 0.8505
38 PC 0.8535 0.8565 0.8594 0.8622 0.8649 0.8676 0.8702 0.8728 0.8753 0.8777
39 PC 0.88 0.8823 0.8845 0.8868 0.889 0.8912 0.8933 0.8955 0.8976 0.8997
40 PC 0.9018 0.9038 0.9058 0.9078 0.9097 0.9117 0.9136 0.9155 0.9174 0.9192
41 PC 0.921 0.9228 0.9245 0.9263 0.928 0.9297 0.9314 0.933 0.9346 0.9362
42 PC 0.9377 0.9393 0.9408 0.9423 0.9437 0.9452 0.9466 0.948 0.9494 0.9507
43 PC 0.952 0.9533 0.9546 0.9559 0.9572 0.9584 0.9597 0.961 0.9622 0.9635
44 PC 0.9648 0.966 0.9672 0.9685 0.9697 0.9709 0.9722 0.9734 0.9746 0.9758
45 PC 0.977 0.9782 0.9794 0.9806 0.9818 0.9829 0.9841 0.9853 0.9864 0.9876
46 PC 0.9888 0.9899 0.991 0.9922 0.9933 0.9944 0.9956 0.9967 0.9978 0.9989
47 PC 1.0
48 LS 0.0 74.37 0.0
49 UD 0.2578

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HEC-1 INPUT

```

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
50 KK 4R CNAME 4C

```

51	KO	0	0	0.0	0	100yr.out					
52	RM	1	0.097	0.2		22					
53	KK	5B									
54	KO	0	0	0.0	1	22					
55	BA	0.6299									
56	PB	5.7									
57	IN	6	1JAN94	0							
	* typeII-24hour										
58	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
59	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
60	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
61	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
62	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
63	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
64	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
65	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
66	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
67	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
68	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
69	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
70	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
71	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
72	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
73	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
74	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
75	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
76	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
77	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
78	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
79	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
80	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
81	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
82	PC	1.0									
83	LS	0.0	75.11	0.0							
84	UD	0.2197									
85	KK	5R	CNAME	5C							
86	KO	0	0	0.0	0	22					
87	RM	1	0.102	0.2							
88	KK	3aB									
89	KO	0	0	0.0	1	22					
90	BA	0.4252									
91	PB	5.7									
92	IN	6	1JAN94	0							
	* typeII-24hour										
93	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
94	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
95	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
96	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
97	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
98	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782

HEC-1 INPUT

PAGE 3

LINE	ID	1	2	3	4	5	6	7	8	9	10	
99	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
100	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
101	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
102	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
103	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
104	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
105	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	
106	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162	
107	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505	
108	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777	
109	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997	
110	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192	
111	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362	
112	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507	
113	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635	
114	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758	
115	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876	
116	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989	
117	PC	1.0										
118	LS	0.0	70.96	0.0								
119	UD	0.2104										
120	KK	3bB										
121	KO	0	0	0.0	1	22						
122	BA	0.4467										
123	PB	5.7										
124	IN	6	1JAN94	0								
	* typeII-24hour											
125	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094	
126	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208	
127	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332	
128	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466	
129	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614	
130	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782	
131	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097	
132	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178	
133	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439	
134	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771	
135	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228	
136	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679	
137	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656	

					100yr.out						
138	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
139	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
140	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
141	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
142	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
143	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
144	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
145	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
146	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
147	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
148	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
149	PC	1.0									
150	LS	0.0	73.72	0.0							
151	UD	0.2331									

HEC-1 INPUT

PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

152	KK	3C	CNAME	3R							
153	KO	0	0	0.0	0	22					
154	HC	4									
155	KK	3R	CNAME	3C							
156	KO	0	0	0.0	0	22					
157	RM	2	0.045	0.2							
158	KK	6B									
159	KO	0	0	0.0	1	22					
160	BA	0.2511									
161	PB	5.7									
162	IN	6	1JAN94	0							
		* typeII-24hour									
163	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
164	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
165	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
166	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
167	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
168	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
169	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
170	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
171	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
172	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
173	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
174	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
175	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
176	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
177	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
178	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
179	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
180	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
181	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
182	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
183	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
184	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
185	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
186	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
187	PC	1.0									
188	LS	0.0	74.57	0.0							
189	UD	0.2017									
190	KK	6R	CNAME	6C							
191	KO	0	0	0.0	0	22					
192	RM	1	0.037	0.2							
193	KK	7bB									
194	KO	0	0	0.0	1	22					
195	BA	0.2705									
196	PB	5.7									
197	IN	6	1JAN94	0							
		* typeII-24hour									
198	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
199	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208

HEC-1 INPUT

PAGE 5

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

200	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
201	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
202	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
203	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
204	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
205	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
206	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
207	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
208	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
209	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
210	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
211	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
212	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
213	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
214	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
215	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
216	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
217	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
218	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
219	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758

					100yr.out						
220	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
221	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
222	PC	1.0									
223	LS	0.0	74.67	0.0							
224	UD	0.0									
225	KK	7aB									
226	KO	0	0	0.0	1	22					
227	BA	0.5681									
228	PB	5.7									
229	IN	6	1JAN94	0							
		* typeII-24hour									
230	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
231	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
232	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
233	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
234	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
235	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
236	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
237	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
238	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
239	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
240	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
241	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
242	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
243	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
244	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
245	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
246	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
247	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
248	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
249	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
250	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
251	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
252	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876

HEC-1 INPUT

PAGE 6

LINE	ID	1	2	3	4	5	6	7	8	9	10
253	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
254	PC	1.0									
255	LS	0.0	71.89	0.0							
256	UD	0.0									
257	KK	7C	CNAME	7R							
258	KO	0	0	0.0	0	22					
259	HC	3									
260	KK	7R	CNAME	7C							
261	KO	0	0	0.0	0	22					
262	RM	1	0.105	0.2							
263	KK	2bB									
264	KO	0	0	0.0	1	22					
265	BA	0.1252									
266	PB	5.7									
267	IN	6	1JAN94	0							
		* typeII-24hour									
268	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
269	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
270	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
271	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
272	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
273	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
274	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
275	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
276	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
277	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
278	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
279	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
280	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
281	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
282	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
283	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
284	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
285	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
286	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
287	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
288	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
289	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
290	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
291	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
292	PC	1.0									
293	LS	0.0	71.61	0.0							
294	UD	0.0									
295	KK	2aB									
296	KO	0	0	0.0	1	22					
297	BA	0.49									
298	PB	5.7									
299	IN	6	1JAN94	0							
		* typeII-24hour									
300	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
301	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208

HEC-1 INPUT

PAGE 7

LINE	ID	1	2	3	4	5	6	7	8	9	10
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100yr.out

302	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
303	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
304	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
305	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
306	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
307	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
308	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
309	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
310	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
311	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
312	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
313	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
314	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505
315	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
316	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
317	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
318	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
319	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
320	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
321	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
322	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
323	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
324	PC	1.0									
325	LS	0.0	70.68	0.0							
326	UD	0.0									
327	KK	2C	CNAME	2R							
328	KO	0	0	0.0	0	22					
329	HC	4									
330	KK	2R	CNAME	2C							
331	KO	0	0	0.0	0	22					
332	RM	1	0.138	0.2							
333	KK	1B									
334	KO	0	0	0.0	1	22					
335	BA	0.5606									
336	PB	5.7									
337	IN	6	1JAN94	0							
		* typeII-24hour									
338	PC	0.0	0.001	0.002	0.0031	0.0041	0.0051	0.0062	0.0073	0.0083	0.0094
339	PC	0.0105	0.0116	0.0127	0.0138	0.015	0.0161	0.0173	0.0185	0.0196	0.0208
340	PC	0.022	0.0232	0.0244	0.0256	0.0269	0.0281	0.0294	0.0307	0.0319	0.0332
341	PC	0.0345	0.0358	0.0371	0.0384	0.0398	0.0411	0.0425	0.0439	0.0452	0.0466
342	PC	0.048	0.0494	0.0508	0.0523	0.0538	0.0553	0.0568	0.0583	0.0598	0.0614
343	PC	0.063	0.0646	0.0662	0.0679	0.0696	0.0712	0.073	0.0747	0.0764	0.0782
344	PC	0.08	0.0818	0.0836	0.0855	0.0874	0.0892	0.0912	0.0931	0.095	0.097
345	PC	0.099	0.101	0.103	0.1051	0.1072	0.1093	0.1114	0.1135	0.1156	0.1178
346	PC	0.12	0.1223	0.1246	0.1271	0.1296	0.1323	0.135	0.1379	0.1408	0.1439
347	PC	0.147	0.1502	0.1534	0.1566	0.1598	0.163	0.1663	0.1697	0.1733	0.1771
348	PC	0.181	0.1851	0.1895	0.1941	0.1989	0.204	0.2094	0.2152	0.2214	0.228
349	PC	0.235	0.2427	0.2513	0.2609	0.2715	0.283	0.3068	0.3544	0.4308	0.5679
350	PC	0.663	0.682	0.6986	0.713	0.7252	0.735	0.7434	0.7514	0.7588	0.7656
351	PC	0.772	0.778	0.7836	0.789	0.7942	0.799	0.8036	0.808	0.8122	0.8162
352	PC	0.82	0.8237	0.8273	0.8308	0.8342	0.8376	0.8409	0.8442	0.8474	0.8505

HEC-1 INPUT

PAGE 8

LINE	ID	1	2	3	4	5	6	7	8	9	10
353	PC	0.8535	0.8565	0.8594	0.8622	0.8649	0.8676	0.8702	0.8728	0.8753	0.8777
354	PC	0.88	0.8823	0.8845	0.8868	0.889	0.8912	0.8933	0.8955	0.8976	0.8997
355	PC	0.9018	0.9038	0.9058	0.9078	0.9097	0.9117	0.9136	0.9155	0.9174	0.9192
356	PC	0.921	0.9228	0.9245	0.9263	0.928	0.9297	0.9314	0.933	0.9346	0.9362
357	PC	0.9377	0.9393	0.9408	0.9423	0.9437	0.9452	0.9466	0.948	0.9494	0.9507
358	PC	0.952	0.9533	0.9546	0.9559	0.9572	0.9584	0.9597	0.961	0.9622	0.9635
359	PC	0.9648	0.966	0.9672	0.9685	0.9697	0.9709	0.9722	0.9734	0.9746	0.9758
360	PC	0.977	0.9782	0.9794	0.9806	0.9818	0.9829	0.9841	0.9853	0.9864	0.9876
361	PC	0.9888	0.9899	0.991	0.9922	0.9933	0.9944	0.9956	0.9967	0.9978	0.9989
362	PC	1.0									
363	LS	0.0	71.35	0.0							
364	UD	0.0									
365	KK	1C	CNAME	1C							
366	KO	0	0	0.0	0	22					
367	HC	2									
368	KK	1C	CNAME	1C							
369	KO	0	0	0.0	0	22					
370	RN	1C									
371	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW  
 NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

18 4B  
 V  
 V  
 50 4R  
 .  
 .  
 53 . 5B  
 . V  
 . V  
 85 . 5R

```

.
.
88 . . . 3aB
.
.
120 . . . 3bB
.
.
152 3C-----
.
V
155 3R
.
.
158 . . . 6B
.
V
190 . . . 6R
.
.
193 . . . 7bB
.
.
225 . . . 7aB
.
.
257 . . . 7C-----
.
V
260 . . . 7R
.
.
263 . . . 2bB
.
.
295 . . . 2aB
.
.
327 2C-----
.
V
330 2R
.
.
333 . . . 1B
.
.
365 1C-----
.
V
368 1C

```

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(***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE TIME *
*****

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*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
*****

```

Scrabble Creek  
w Mining & wo Logging (Scenario 2), LIDAR Data  
100 yr Storm

```

5 IO OUTPUT CONTROL VARIABLES
      IPRT 1 PRINT CONTROL
      IPLOT 0 PLOT CONTROL
      QSCAL 0. HYDROGRAPH PLOT SCALE

7 IN TIME DATA FOR INPUT TIME SERIES
      JXMIN 15 TIME INTERVAL IN MINUTES
      JXDATE 1JAN94 STARTING DATE
      JXTIME 0 STARTING TIME

IT HYDROGRAPH TIME DATA
      NMIN 15 MINUTES IN COMPUTATION INTERVAL
      IDATE 1JAN94 STARTING DATE
      ITIME 0000 STARTING TIME
      NQ, 100 NUMBER OF HYDROGRAPH ORDINATES
      NDDATE 2JAN94 ENDING DATE
      NDTIME 0045 ENDING TIME
      ICENT 19 CENTURY MARK

      COMPUTATION INTERVAL 0.25 HOURS
      TOTAL TIME BASE 24.75 HOURS

```

ENGLISH UNITS  
DRAINAGE AREA SQUARE MILES  
PRECIPITATION DEPTH INCHES  
LENGTH, ELEVATION FEET  
FLOW CUBIC FEET PER SECOND  
STORAGE VOLUME ACRE-Feet

SURFACE AREA ACRES  
TEMPERATURE DEGREES FAHRENHEIT

\*\*\* \*\*

\*\*\*\*\*  
\* \*  
18 KK \* 4B \*  
\* \*  
\*\*\*\*\*

19 KO OUTPUT CONTROL VARIABLES  
IPRNT 1 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE  
IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
TIMINT 0.250 TIME INTERVAL IN HOURS

22 IN TIME DATA FOR INPUT TIME SERIES  
JXMIN 6 TIME INTERVAL IN MINUTES  
JXDATE 1JAN94 STARTING DATE  
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

20 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.40 SUBBASIN AREA

PRECIPITATION DATA

21 PB STORM 5.70 BASIN TOTAL PRECIPITATION

23 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

48 LS SCS LOSS RATE  
STRTL 0.69 INITIAL ABSTRACTION  
CRVNR 74.37 CURVE NUMBER  
RTIMP 0.00 PERCENT IMPERVIOUS AREA

49 UD SCS DIMENSIONLESS UNITGRAPH  
TLAG 0.26 LAG

\*\*\*

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
7 END-OF-PERIOD ORDINATES  
375. 430. 151. 53. 18. 6. 2.

HYDROGRAPH AT STATION 4B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.17	0.04	0.12	288.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.09	171.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.10	0.02	0.07	113.
1	JAN	0045	4	0.02	0.02	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	85.
1	JAN	0100	5	0.02	0.02	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.06	69.
1	JAN	0115	6	0.02	0.02	0.00	0.	*	1	JAN	1345	56	0.06	0.01	0.05	59.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.06	0.01	0.04	52.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	46.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	43.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.05	0.01	0.04	40.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	38.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	36.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	34.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	32.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	30.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.03	28.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.03	27.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	26.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	26.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	25.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	24.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	23.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.03	0.00	0.02	23.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.03	0.00	0.02	22.

100yr.out

1 JAN 0600	25	0.03	0.03	0.00	0.	*	1 JAN 1830	75	0.02	0.00	0.02	21.
1 JAN 0615	26	0.03	0.03	0.00	0.	*	1 JAN 1845	76	0.02	0.00	0.02	21.
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.02	20.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	19.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	18.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.02	18.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.02	17.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.02	16.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	16.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.02	16.
1 JAN 0830	35	0.04	0.04	0.00	0.	*	1 JAN 2100	85	0.02	0.00	0.02	16.
1 JAN 0845	36	0.04	0.04	0.00	1.	*	1 JAN 2115	86	0.02	0.00	0.01	15.
1 JAN 0900	37	0.04	0.04	0.00	2.	*	1 JAN 2130	87	0.02	0.00	0.01	15.
1 JAN 0915	38	0.05	0.04	0.00	3.	*	1 JAN 2145	88	0.02	0.00	0.01	15.
1 JAN 0930	39	0.05	0.04	0.01	4.	*	1 JAN 2200	89	0.02	0.00	0.01	15.
1 JAN 0945	40	0.05	0.04	0.01	6.	*	1 JAN 2215	90	0.02	0.00	0.01	15.
1 JAN 1000	41	0.05	0.05	0.01	7.	*	1 JAN 2230	91	0.02	0.00	0.01	15.
1 JAN 1015	42	0.06	0.05	0.01	9.	*	1 JAN 2245	92	0.02	0.00	0.01	14.
1 JAN 1030	43	0.07	0.05	0.01	12.	*	1 JAN 2300	93	0.02	0.00	0.01	14.
1 JAN 1045	44	0.08	0.06	0.02	16.	*	1 JAN 2315	94	0.02	0.00	0.01	14.
1 JAN 1100	45	0.10	0.07	0.03	21.	*	1 JAN 2330	95	0.02	0.00	0.01	14.
1 JAN 1115	46	0.12	0.08	0.04	29.	*	1 JAN 2345	96	0.02	0.00	0.01	14.
1 JAN 1130	47	0.15	0.10	0.05	42.	*	2 JAN 0000	97	0.02	0.00	0.01	14.
1 JAN 1145	48	0.62	0.34	0.28	138.	*	2 JAN 0015	98	0.00	0.00	0.00	9.
1 JAN 1200	49	1.54	0.56	0.98	501.	*	2 JAN 0030	99	0.00	0.00	0.00	3.
1 JAN 1215	50	0.24	0.07	0.18	535.	*	2 JAN 0045	100	0.00	0.00	0.00	1.

\*\*\*\*\*

TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.73, TOTAL EXCESS = 2.97

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW	24.75-HR
(CFS)	(HR)	(CFS)	24-HR	72-HR
535.	12.25	104.	32.	31.
		(INCHES)	2.402	2.968
		(AC-FT)	51.	64.
			64.	64.

CUMULATIVE AREA = 0.40 SQ MI

\*\*\* \*\*

\*\*\*\*\*  
 50 KK            4R            CNAME            4C  
 \*\*\*\*\*

51 KO            OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLST	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

52 RM            MUSKINGUM ROUTING

NSTPS	1	NUMBER OF SUBREACHES
AMSKK	0.10	MUSKINGUM K
X	0.20	MUSKINGUM X

\*\*\*

\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 4R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

\*\*\*\*\*

HYDROGRAPH AT STATION 4R

\*\*\*\*\*

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	401.	1	JAN	1845	76	21.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	200.	1	JAN	1900	77	20.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	134.	1	JAN	1915	78	19.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	94.	1	JAN	1930	79	19.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	75.	1	JAN	1945	80	18.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	63.	1	JAN	2000	81	17.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	54.	1	JAN	2015	82	16.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	48.	1	JAN	2030	83	16.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	44.	1	JAN	2045	84	16.
1	JAN	0215	10	0.	1	JAN	0830	35	0.	1	JAN	1445	60	41.	1	JAN	2100	85	16.
1	JAN	0230	11	0.	1	JAN	0845	36	1.	1	JAN	1500	61	39.	1	JAN	2115	86	15.
1	JAN	0245	12	0.	1	JAN	0900	37	2.	1	JAN	1515	62	37.	1	JAN	2130	87	15.
1	JAN	0300	13	0.	1	JAN	0915	38	3.	1	JAN	1530	63	35.	1	JAN	2145	88	15.
1	JAN	0315	14	0.	1	JAN	0930	39	4.	1	JAN	1545	64	33.	1	JAN	2200	89	15.
1	JAN	0330	15	0.	1	JAN	0945	40	5.	1	JAN	1600	65	31.	1	JAN	2215	90	15.
1	JAN	0345	16	0.	1	JAN	1000	41	7.	1	JAN	1615	66	29.	1	JAN	2230	91	15.



100yr.out

1 JAN 0400	17	0.	*	1 JAN 1015	42	9.	*	1 JAN 1630	67	28.	*	1 JAN 2245	92	14.
1 JAN 0415	18	0.	*	1 JAN 1030	43	11.	*	1 JAN 1645	68	27.	*	1 JAN 2300	93	14.
1 JAN 0430	19	0.	*	1 JAN 1045	44	15.	*	1 JAN 1700	69	26.	*	1 JAN 2315	94	14.
1 JAN 0445	20	0.	*	1 JAN 1100	45	19.	*	1 JAN 1715	70	25.	*	1 JAN 2330	95	14.
1 JAN 0500	21	0.	*	1 JAN 1115	46	26.	*	1 JAN 1730	71	24.	*	1 JAN 2345	96	14.
1 JAN 0515	22	0.	*	1 JAN 1130	47	37.	*	1 JAN 1745	72	24.	*	2 JAN 0000	97	14.
1 JAN 0530	23	0.	*	1 JAN 1145	48	93.	*	1 JAN 1800	73	23.	*	2 JAN 0015	98	11.
1 JAN 0545	24	0.	*	1 JAN 1200	49	337.	*	1 JAN 1815	74	22.	*	2 JAN 0030	99	5.
1 JAN 0600	25	0.	*	1 JAN 1215	50	557.	*	1 JAN 1830	75	21.	*	2 JAN 0045	100	2.

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PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)	(CFS)				
557.	12.25	104.	104.	32.	31.	31.
		(INCHES)	2.403	2.967	2.967	2.967
		(AC-FT)	51.	63.	63.	63.

CUMULATIVE AREA = 0.40 SQ MI

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 53 KK \* 5B \*  
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54 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

57 IN TIME DATA FOR INPUT TIME SERIES

JXMIN	6	TIME INTERVAL IN MINUTES
JXDATE	1JAN94	STARTING DATE
JXTIME	0	STARTING TIME

SUBBASIN RUNOFF DATA

55 BA SUBBASIN CHARACTERISTICS

TAREA,	0.63	SUBBASIN AREA
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PRECIPITATION DATA

56 PB STORM 5.70 BASIN TOTAL PRECIPITATION

58 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.11	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

83 LS SCS LOSS RATE

STRTL	0.66	INITIAL ABSTRACTION
CRVNBR	75.11	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

84 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.22	LAG
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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 6 END-OF-PERIOD ORDINATES

731.	629.	186.	57.	17.	6.
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HYDROGRAPH AT STATION 5B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1 JAN	0000	1	2	0.00	0.00	0.00	0.	*		1 JAN	1230	51	51	0.17	0.04	0.13	0.	411.
1 JAN	0015	2	2	0.01	0.01	0.00	0.	*		1 JAN	1245	52	52	0.11	0.03	0.09	0.	240.
1 JAN	0030	3	3	0.01	0.01	0.00	0.	*		1 JAN	1300	53	53	0.10	0.02	0.07	0.	163.
1 JAN	0045	4	4	0.02	0.02	0.00	0.	*		1 JAN	1315	54	54	0.08	0.02	0.06	0.	126.

100yr.out

1 JAN 0100	5	0.02	0.02	0.00	0.	*	1 JAN 1330	55	0.07	0.02	0.06	104.
1 JAN 0115	6	0.02	0.02	0.00	0.	*	1 JAN 1345	56	0.06	0.01	0.05	91.
1 JAN 0130	7	0.02	0.02	0.00	0.	*	1 JAN 1400	57	0.06	0.01	0.04	80.
1 JAN 0145	8	0.02	0.02	0.00	0.	*	1 JAN 1415	58	0.05	0.01	0.04	72.
1 JAN 0200	9	0.02	0.02	0.00	0.	*	1 JAN 1430	59	0.05	0.01	0.04	67.
1 JAN 0215	10	0.02	0.02	0.00	0.	*	1 JAN 1445	60	0.05	0.01	0.04	63.
1 JAN 0230	11	0.02	0.02	0.00	0.	*	1 JAN 1500	61	0.04	0.01	0.04	60.
1 JAN 0245	12	0.02	0.02	0.00	0.	*	1 JAN 1515	62	0.04	0.01	0.03	57.
1 JAN 0300	13	0.02	0.02	0.00	0.	*	1 JAN 1530	63	0.04	0.01	0.03	54.
1 JAN 0315	14	0.02	0.02	0.00	0.	*	1 JAN 1545	64	0.04	0.01	0.03	51.
1 JAN 0330	15	0.02	0.02	0.00	0.	*	1 JAN 1600	65	0.03	0.01	0.03	47.
1 JAN 0345	16	0.02	0.02	0.00	0.	*	1 JAN 1615	66	0.03	0.01	0.03	45.
1 JAN 0400	17	0.02	0.02	0.00	0.	*	1 JAN 1630	67	0.03	0.01	0.03	43.
1 JAN 0415	18	0.02	0.02	0.00	0.	*	1 JAN 1645	68	0.03	0.01	0.02	42.
1 JAN 0430	19	0.02	0.02	0.00	0.	*	1 JAN 1700	69	0.03	0.01	0.02	41.
1 JAN 0445	20	0.02	0.02	0.00	0.	*	1 JAN 1715	70	0.03	0.01	0.02	39.
1 JAN 0500	21	0.02	0.02	0.00	0.	*	1 JAN 1730	71	0.03	0.00	0.02	38.
1 JAN 0515	22	0.02	0.02	0.00	0.	*	1 JAN 1745	72	0.03	0.00	0.02	37.
1 JAN 0530	23	0.02	0.02	0.00	0.	*	1 JAN 1800	73	0.03	0.00	0.02	36.
1 JAN 0545	24	0.02	0.02	0.00	0.	*	1 JAN 1815	74	0.03	0.00	0.02	35.
1 JAN 0600	25	0.03	0.03	0.00	0.	*	1 JAN 1830	75	0.02	0.00	0.02	34.
1 JAN 0615	26	0.03	0.03	0.00	0.	*	1 JAN 1845	76	0.02	0.00	0.02	32.
1 JAN 0630	27	0.03	0.03	0.00	0.	*	1 JAN 1900	77	0.02	0.00	0.02	31.
1 JAN 0645	28	0.03	0.03	0.00	0.	*	1 JAN 1915	78	0.02	0.00	0.02	30.
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	29.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.02	28.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.02	27.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.02	26.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	25.
1 JAN 0815	34	0.03	0.03	0.00	1.	*	1 JAN 2045	84	0.02	0.00	0.02	25.
1 JAN 0830	35	0.04	0.04	0.00	2.	*	1 JAN 2100	85	0.02	0.00	0.02	25.
1 JAN 0845	36	0.04	0.04	0.00	3.	*	1 JAN 2115	86	0.02	0.00	0.01	24.
1 JAN 0900	37	0.04	0.04	0.00	5.	*	1 JAN 2130	87	0.02	0.00	0.01	24.
1 JAN 0915	38	0.05	0.04	0.00	7.	*	1 JAN 2145	88	0.02	0.00	0.01	24.
1 JAN 0930	39	0.05	0.04	0.01	8.	*	1 JAN 2200	89	0.02	0.00	0.01	24.
1 JAN 0945	40	0.05	0.04	0.01	10.	*	1 JAN 2215	90	0.02	0.00	0.01	23.
1 JAN 1000	41	0.05	0.04	0.01	13.	*	1 JAN 2230	91	0.02	0.00	0.01	23.
1 JAN 1015	42	0.06	0.05	0.01	17.	*	1 JAN 2245	92	0.02	0.00	0.01	23.
1 JAN 1030	43	0.07	0.05	0.02	22.	*	1 JAN 2300	93	0.02	0.00	0.01	23.
1 JAN 1045	44	0.08	0.06	0.02	29.	*	1 JAN 2315	94	0.02	0.00	0.01	22.
1 JAN 1100	45	0.10	0.07	0.03	38.	*	1 JAN 2330	95	0.02	0.00	0.01	22.
1 JAN 1115	46	0.12	0.08	0.04	52.	*	1 JAN 2345	96	0.02	0.00	0.01	22.
1 JAN 1130	47	0.15	0.10	0.06	74.	*	2 JAN 0000	97	0.02	0.00	0.01	22.
1 JAN 1145	48	0.62	0.33	0.30	262.	*	2 JAN 0015	98	0.00	0.00	0.00	12.
1 JAN 1200	49	1.54	0.54	1.00	932.	*	2 JAN 0030	99	0.00	0.00	0.00	4.
1 JAN 1215	50	0.24	0.06	0.18	823.	*	2 JAN 0045	100	0.00	0.00	0.00	1.

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TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.66, TOTAL EXCESS = 3.04

PEAK FLOW (CFS)	TIME (HR)	6-HR (CFS)	24-HR (INCHES)	72-HR (AC-FT)	24.75-HR (INCHES)
932.	12.00	167.	2.458	83.	3.038
			3.038	102.	102.

CUMULATIVE AREA = 0.63 SQ MI

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85 KK *      5R *      CNAME      5C
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86 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT       22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS

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HYDROGRAPH ROUTING DATA

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87 RM      MUSKINGUM ROUTING
          NSTPS      1      NUMBER OF SUBREACHES
          AMSKK     0.10    MUSKINGUM K
          X          0.20    MUSKINGUM X

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\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 5R.  
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 5R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	589.	*	1	JAN	1845	76	33.
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	287.	*	1	JAN	1900	77	32.
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	191.	*	1	JAN	1915	78	30.
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	139.	*	1	JAN	1930	79	29.
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	112.	*	1	JAN	1945	80	28.
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	95.	*	1	JAN	2000	81	27.
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	84.	*	1	JAN	2015	82	26.
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	75.	*	1	JAN	2030	83	25.
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	69.	*	1	JAN	2045	84	25.
1	JAN	0215	10	0.	*	1	JAN	0830	35	1.	*	1	JAN	1445	60	65.	*	1	JAN	2100	85	25.
1	JAN	0230	11	0.	*	1	JAN	0845	36	2.	*	1	JAN	1500	61	61.	*	1	JAN	2115	86	24.
1	JAN	0245	12	0.	*	1	JAN	0900	37	4.	*	1	JAN	1515	62	58.	*	1	JAN	2130	87	24.
1	JAN	0300	13	0.	*	1	JAN	0915	38	6.	*	1	JAN	1530	63	55.	*	1	JAN	2145	88	24.
1	JAN	0315	14	0.	*	1	JAN	0930	39	8.	*	1	JAN	1545	64	52.	*	1	JAN	2200	89	24.
1	JAN	0330	15	0.	*	1	JAN	0945	40	10.	*	1	JAN	1600	65	49.	*	1	JAN	2215	90	23.
1	JAN	0345	16	0.	*	1	JAN	1000	41	12.	*	1	JAN	1615	66	46.	*	1	JAN	2230	91	23.
1	JAN	0400	17	0.	*	1	JAN	1015	42	15.	*	1	JAN	1630	67	44.	*	1	JAN	2245	92	23.
1	JAN	0415	18	0.	*	1	JAN	1030	43	20.	*	1	JAN	1645	68	42.	*	1	JAN	2300	93	23.
1	JAN	0430	19	0.	*	1	JAN	1045	44	26.	*	1	JAN	1700	69	41.	*	1	JAN	2315	94	23.
1	JAN	0445	20	0.	*	1	JAN	1100	45	34.	*	1	JAN	1715	70	40.	*	1	JAN	2330	95	22.
1	JAN	0500	21	0.	*	1	JAN	1115	46	46.	*	1	JAN	1730	71	38.	*	1	JAN	2345	96	22.
1	JAN	0515	22	0.	*	1	JAN	1130	47	64.	*	1	JAN	1745	72	37.	*	2	JAN	0000	97	22.
1	JAN	0530	23	0.	*	1	JAN	1145	48	171.	*	1	JAN	1800	73	36.	*	2	JAN	0015	98	17.
1	JAN	0545	24	0.	*	1	JAN	1200	49	620.	*	1	JAN	1815	74	35.	*	2	JAN	0030	99	7.
1	JAN	0600	25	0.	*	1	JAN	1215	50	942.	*	1	JAN	1830	75	34.	*	2	JAN	0045	100	2.

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
942.	12.25	166.	51.	50.	50.
(INCHES)		2.457	3.037	3.037	3.037
(AC-FT)		83.	102.	102.	102.
CUMULATIVE AREA =		0.63 SQ MI			

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88 KK \*\*\*\*\*  
 \* 3aB \*  
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89 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

92 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

90 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.43 SUBBASIN AREA

PRECIPITATION DATA

91 PB STORM 5.70 BASIN TOTAL PRECIPITATION

93 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

118 LS SCS LOSS RATE  
 STRTL 0.82 INITIAL ABSTRACTION  
 CRVNR 70.96 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

119 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.21 LAG

WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
6 END-OF-PERIOD ORDINATES  
3.

520. 412. 117. 34. 10.

HYDROGRAPH AT STATION 3aB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.17	0.05	0.12	239.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	141.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.10	0.03	0.07	98.
1	JAN	0045	4	0.02	0.02	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	77.
1	JAN	0100	5	0.02	0.02	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	64.
1	JAN	0115	6	0.02	0.02	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.05	56.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.06	0.02	0.04	50.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	45.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	42.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.05	0.01	0.03	39.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	37.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	36.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	34.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	32.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	30.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	28.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	27.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	26.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	25.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	25.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	24.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	23.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.03	0.01	0.02	23.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.03	0.01	0.02	22.
1	JAN	0600	25	0.03	0.03	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	21.
1	JAN	0615	26	0.03	0.03	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	20.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.01	0.02	20.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	19.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	18.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.02	18.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	17.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	16.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	16.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	16.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	16.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	15.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.02	0.00	0.01	15.
1	JAN	0915	38	0.05	0.04	0.00	1.	*	1	JAN	2145	88	0.02	0.00	0.01	15.
1	JAN	0930	39	0.05	0.04	0.00	1.	*	1	JAN	2200	89	0.02	0.00	0.01	15.
1	JAN	0945	40	0.05	0.05	0.00	2.	*	1	JAN	2215	90	0.02	0.00	0.01	15.
1	JAN	1000	41	0.05	0.05	0.00	4.	*	1	JAN	2230	91	0.02	0.00	0.01	15.
1	JAN	1015	42	0.06	0.05	0.01	6.	*	1	JAN	2245	92	0.02	0.00	0.01	14.
1	JAN	1030	43	0.07	0.06	0.01	8.	*	1	JAN	2300	93	0.02	0.00	0.01	15.
1	JAN	1045	44	0.08	0.07	0.01	12.	*	1	JAN	2315	94	0.02	0.00	0.01	14.
1	JAN	1100	45	0.10	0.08	0.02	17.	*	1	JAN	2330	95	0.02	0.00	0.01	14.
1	JAN	1115	46	0.12	0.09	0.03	24.	*	1	JAN	2345	96	0.02	0.00	0.01	14.
1	JAN	1130	47	0.15	0.11	0.04	36.	*	2	JAN	0000	97	0.02	0.00	0.01	14.
1	JAN	1145	48	0.62	0.39	0.24	145.	*	2	JAN	0015	98	0.00	0.00	0.00	7.
1	JAN	1200	49	1.54	0.66	0.88	560.	*	2	JAN	0030	99	0.00	0.00	0.00	2.
1	JAN	1215	50	0.24	0.08	0.16	477.	*	2	JAN	0045	100	0.00	0.00	0.00	1.

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TOTAL RAINFALL = 5.70, TOTAL LOSS = 3.04, TOTAL EXCESS = 2.66

PEAK FLOW TIME MAXIMUM AVERAGE FLOW 24.75-HR

+	(CFS)	(HR)	(CFS)	6-HR	24-HR	72-HR	24.75-HR
+	560.	12.00	(INCHES)	99.	30.	29.	29.
			(AC-FT)	2.157	2.655	2.655	2.655
				49.	60.	60.	60.

CUMULATIVE AREA = 0.43 SQ MI

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120 KK 3bB \*

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121 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	1	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT

100yr.out  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

124 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

122 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.45 SUBBASIN AREA

PRECIPITATION DATA

123 PB STORM 5.70 BASIN TOTAL PRECIPITATION

125 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

150 LS SCS LOSS RATE  
 STRTL 0.71 INITIAL ABSTRACTION  
 CRVNBR 73.72 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

151 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.23 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 7 END-OF-PERIOD ORDINATES  
 481. 461. 145. 46. 15. 5. 1.

HYDROGRAPH AT STATION 3bB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.17	0.04	0.12	293.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.09	172.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.10	0.02	0.07	116.
1	JAN	0045	4	0.02	0.02	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	89.
1	JAN	0100	5	0.02	0.02	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.06	73.
1	JAN	0115	6	0.02	0.02	0.00	0.	*	1	JAN	1345	56	0.06	0.01	0.05	63.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.06	0.01	0.04	56.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	50.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	47.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.05	0.01	0.04	44.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	42.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	40.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	37.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	35.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	33.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.03	31.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.03	30.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	29.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	28.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	27.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	26.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	26.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.03	0.01	0.02	25.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.03	0.00	0.02	24.
1	JAN	0600	25	0.03	0.03	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	23.
1	JAN	0615	26	0.03	0.03	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	23.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	22.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	21.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	20.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.02	19.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.02	18.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.02	18.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	17.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	17.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	17.
1	JAN	0845	36	0.04	0.04	0.00	1.	*	1	JAN	2115	86	0.02	0.00	0.01	17.
1	JAN	0900	37	0.04	0.04	0.00	2.	*	1	JAN	2130	87	0.02	0.00	0.01	17.
1	JAN	0915	38	0.05	0.04	0.00	3.	*	1	JAN	2145	88	0.02	0.00	0.01	17.
1	JAN	0930	39	0.05	0.04	0.00	4.	*	1	JAN	2200	89	0.02	0.00	0.01	16.
1	JAN	0945	40	0.05	0.04	0.01	6.	*	1	JAN	2215	90	0.02	0.00	0.01	16.
1	JAN	1000	41	0.05	0.05	0.01	7.	*	1	JAN	2230	91	0.02	0.00	0.01	16.
1	JAN	1015	42	0.06	0.05	0.01	10.	*	1	JAN	2245	92	0.02	0.00	0.01	16.
1	JAN	1030	43	0.07	0.06	0.01	13.	*	1	JAN	2300	93	0.02	0.00	0.01	16.
1	JAN	1045	44	0.08	0.06	0.02	17.	*	1	JAN	2315	94	0.02	0.00	0.01	16.

										100yr.out			
1 JAN 1100	45	0.10	0.07	0.02	23.	*	1 JAN 2330	95	0.02	0.00	0.01	15.	
1 JAN 1115	46	0.12	0.08	0.04	32.	*	1 JAN 2345	96	0.02	0.00	0.01	15.	
1 JAN 1130	47	0.15	0.10	0.05	46.	*	2 JAN 0000	97	0.02	0.00	0.01	15.	
1 JAN 1145	48	0.62	0.35	0.28	163.	*	2 JAN 0015	98	0.00	0.00	0.00	9.	
1 JAN 1200	49	1.54	0.58	0.96	599.	*	2 JAN 0030	99	0.00	0.00	0.00	3.	
1 JAN 1215	50	0.24	0.07	0.18	570.	*	2 JAN 0045	100	0.00	0.00	0.00	1.	

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TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.79, TOTAL EXCESS = 2.91

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
599.	12.00	113.	35.	34.	34.
		(INCHES)	2.355	2.908	2.908
		(AC-FT)	56.	69.	69.

CUMULATIVE AREA = 0.45 SQ MI

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 152 KK \* 3C \* CNAME 3R  
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153 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

154 HC HYDROGRAPH COMBINATION  
 ICOMP 4 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 3C  
 SUM OF 4 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	1523.	*	1	JAN	1845	76	97.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	801.	*	1	JAN	1900	77	93.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	539.	*	1	JAN	1915	78	90.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	398.	*	1	JAN	1930	79	87.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	324.	*	1	JAN	1945	80	83.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	277.	*	1	JAN	2000	81	79.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	244.	*	1	JAN	2015	82	76.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	219.	*	1	JAN	2030	83	74.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	201.	*	1	JAN	2045	84	73.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	2.	*	1	JAN	1445	60	189.	*	1	JAN	2100	85	73.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	4.	*	1	JAN	1500	61	180.	*	1	JAN	2115	86	72.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	8.	*	1	JAN	1515	62	170.	*	1	JAN	2130	87	71.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	12.	*	1	JAN	1530	63	161.	*	1	JAN	2145	88	70.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	17.	*	1	JAN	1545	64	152.	*	1	JAN	2200	89	70.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	23.	*	1	JAN	1600	65	142.	*	1	JAN	2215	90	69.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	30.	*	1	JAN	1615	66	134.	*	1	JAN	2230	91	68.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	40.	*	1	JAN	1630	67	128.	*	1	JAN	2245	92	68.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	52.	*	1	JAN	1645	68	124.	*	1	JAN	2300	93	68.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	69.	*	1	JAN	1700	69	120.	*	1	JAN	2315	94	67.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	93.	*	1	JAN	1715	70	117.	*	1	JAN	2330	95	65.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	128.	*	1	JAN	1730	71	113.	*	1	JAN	2345	96	65.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	183.	*	1	JAN	1745	72	110.	*	2	JAN	0000	97	65.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	571.	*	1	JAN	1800	73	107.	*	2	JAN	0015	98	44.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	2116.	*	1	JAN	1815	74	103.	*	2	JAN	0030	99	17.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	2547.	*	1	JAN	1830	75	100.	*	2	JAN	0045	100	5.	*

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
2547.	12.25	482.	149.	144.	144.
		(INCHES)	2.354	2.907	2.907
		(AC-FT)	239.	295.	295.

CUMULATIVE AREA = 1.90 SQ MI

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155 KK \* 3R \* CNAME 3C
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156 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

157 RM MUSKINGUM ROUTING
NSTPS 2 NUMBER OF SUBREACHES
AMSKK 0.05 MUSKINGUM K
X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 3R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 3R

Table with 16 columns: DA, MON, HRMN, ORD, FLOW, and 15 additional columns for other dates. Rows list flow data for various dates from 1 JAN 0000 to 1 JAN 0600.

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Summary table with columns: PEAK FLOW, TIME, 6-HR, 24-HR, 72-HR, 24.75-HR. Values include 2655, 12.25, 482, 149, 144, 144.

CUMULATIVE AREA = 1.90 SQ MI

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158 KK \* 6B \*
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159 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

162 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

160 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.25 SUBBASIN AREA

PRECIPITATION DATA

161 PB STORM 5.70 BASIN TOTAL PRECIPITATION

163 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

188 LS SCS LOSS RATE  
 STRTL 0.68 INITIAL ABSTRACTION  
 CRVNBR 74.57 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

189 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.20 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 6 END-OF-PERIOD ORDINATES  
 324. 234. 65. 18. 5. 1.

HYDROGRAPH AT STATION 6B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.17	0.04	0.12	152.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.09	89.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.10	0.02	0.07	61.
1	JAN	0045	4	0.02	0.02	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	48.
1	JAN	0100	5	0.02	0.02	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.06	40.
1	JAN	0115	6	0.02	0.02	0.00	0.	*	1	JAN	1345	56	0.06	0.01	0.05	35.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.06	0.01	0.04	31.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	28.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	26.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.05	0.01	0.04	25.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	24.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	22.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	21.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	20.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	19.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.03	18.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.03	17.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	16.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	16.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	15.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	15.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.00	0.02	15.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.03	0.00	0.02	14.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.03	0.00	0.02	14.
1	JAN	0600	25	0.03	0.03	0.00	0.	*	1	JAN	1830	75	0.02	0.00	0.02	13.
1	JAN	0615	26	0.03	0.03	0.00	0.	*	1	JAN	1845	76	0.02	0.00	0.02	13.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	12.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	12.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	11.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.02	11.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.02	10.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.02	10.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	10.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.02	10.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.02	10.
1	JAN	0845	36	0.04	0.04	0.00	1.	*	1	JAN	2115	86	0.02	0.00	0.01	10.
1	JAN	0900	37	0.04	0.04	0.00	2.	*	1	JAN	2130	87	0.02	0.00	0.01	9.
1	JAN	0915	38	0.05	0.04	0.00	2.	*	1	JAN	2145	88	0.02	0.00	0.01	9.
1	JAN	0930	39	0.05	0.04	0.01	3.	*	1	JAN	2200	89	0.02	0.00	0.01	9.
1	JAN	0945	40	0.05	0.04	0.01	4.	*	1	JAN	2215	90	0.02	0.00	0.01	9.
1	JAN	1000	41	0.05	0.05	0.01	5.	*	1	JAN	2230	91	0.02	0.00	0.01	9.
1	JAN	1015	42	0.06	0.05	0.01	6.	*	1	JAN	2245	92	0.02	0.00	0.01	9.
1	JAN	1030	43	0.07	0.05	0.02	8.	*	1	JAN	2300	93	0.02	0.00	0.01	9.
1	JAN	1045	44	0.08	0.06	0.02	11.	*	1	JAN	2315	94	0.02	0.00	0.01	9.
1	JAN	1100	45	0.10	0.07	0.03	15.	*	1	JAN	2330	95	0.02	0.00	0.01	9.
1	JAN	1115	46	0.12	0.08	0.04	20.	*	1	JAN	2345	96	0.02	0.00	0.01	9.
1	JAN	1130	47	0.15	0.10	0.06	29.	*	2	JAN	0000	97	0.02	0.00	0.01	9.
1	JAN	1145	48	0.62	0.34	0.29	109.	*	2	JAN	0015	98	0.00	0.00	0.00	4.



100yr.out  
 1 JAN 1200 49 1.54 0.55 0.99 392. \* 2 JAN 0030 99 0.00 0.00 0.00 1.  
 1 JAN 1215 50 0.24 0.06 0.18 309. \* 2 JAN 0045 100 0.00 0.00 0.00 0.  
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TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.71, TOTAL EXCESS = 2.99

PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)	(CFS)				
+	392.	12.00	65.	20.	20.	20.	20.
			(INCHES)	2.419	2.987	2.987	2.987
			(AC-FT)	32.	40.	40.	40.

CUMULATIVE AREA = 0.25 SQ MI

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 190 KK \* 6R \* CNAME 6C  
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191 KO OUTPUT CONTROL VARIABLES  
 IPRINT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

192 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSKK 0.04 MUSKINGUM K  
 X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 6R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 6R

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	156.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	102.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	60.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	52.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	40.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	37.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	31.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	29.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	26.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	0.	*	1	JAN	1445	60	25.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	1.	*	1	JAN	1500	61	24.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	2.	*	1	JAN	1515	62	23.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	2.	*	1	JAN	1530	63	21.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	3.	*	1	JAN	1545	64	20.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	4.	*	1	JAN	1600	65	19.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	5.	*	1	JAN	1615	66	18.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	6.	*	1	JAN	1630	67	17.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	8.	*	1	JAN	1645	68	16.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	11.	*	1	JAN	1700	69	16.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	14.	*	1	JAN	1715	70	16.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	19.	*	1	JAN	1730	71	15.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	28.	*	1	JAN	1745	72	15.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	91.	*	1	JAN	1800	73	14.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	335.	*	1	JAN	1815	74	14.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	363.	*	1	JAN	1830	75	13.	*

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PEAK FLOW	TIME		6-HR	MAXIMUM AVERAGE FLOW	24-HR	72-HR	24.75-HR
+	(CFS)	(HR)	(CFS)				
+	363.	12.25	65.	20.	20.	20.	20.
			(INCHES)	2.418	2.987	2.987	2.987
			(AC-FT)	32.	40.	40.	40.

CUMULATIVE AREA = 0.25 SQ MI

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 193 KK 7bB \*  
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194 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

197 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

195 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.27 SUBBASIN AREA

PRECIPITATION DATA

196 PB STORM 5.70 BASIN TOTAL PRECIPITATION

198 PI INCREMENTAL PRECIPITATION PATTERN  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.02 0.02 0.03 0.11 0.27 0.04 0.03  
 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  
 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

223 LS SCS LOSS RATE  
 STRTL 0.68 INITIAL ABSTRACTION  
 CRVNBR 74.67 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

224 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES

519. 145. 29. 6. 0.

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HYDROGRAPH AT STATION 7bB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*		1	JAN	1230	51	0.17	0.04	0.13	121.	
1	JAN	0015	2	0.01	0.01	0.00	0.	*		1	JAN	1245	52	0.11	0.03	0.09	74.	
1	JAN	0030	3	0.01	0.01	0.00	0.	*		1	JAN	1300	53	0.10	0.02	0.07	56.	
1	JAN	0045	4	0.02	0.02	0.00	0.	*		1	JAN	1315	54	0.08	0.02	0.06	47.	
1	JAN	0100	5	0.02	0.02	0.00	0.	*		1	JAN	1330	55	0.07	0.02	0.06	41.	
1	JAN	0115	6	0.02	0.02	0.00	0.	*		1	JAN	1345	56	0.06	0.01	0.05	36.	
1	JAN	0130	7	0.02	0.02	0.00	0.	*		1	JAN	1400	57	0.06	0.01	0.04	32.	
1	JAN	0145	8	0.02	0.02	0.00	0.	*		1	JAN	1415	58	0.05	0.01	0.04	29.	
1	JAN	0200	9	0.02	0.02	0.00	0.	*		1	JAN	1430	59	0.05	0.01	0.04	28.	
1	JAN	0215	10	0.02	0.02	0.00	0.	*		1	JAN	1445	60	0.05	0.01	0.04	26.	
1	JAN	0230	11	0.02	0.02	0.00	0.	*		1	JAN	1500	61	0.04	0.01	0.04	25.	
1	JAN	0245	12	0.02	0.02	0.00	0.	*		1	JAN	1515	62	0.04	0.01	0.03	24.	
1	JAN	0300	13	0.02	0.02	0.00	0.	*		1	JAN	1530	63	0.04	0.01	0.03	22.	
1	JAN	0315	14	0.02	0.02	0.00	0.	*		1	JAN	1545	64	0.04	0.01	0.03	21.	
1	JAN	0330	15	0.02	0.02	0.00	0.	*		1	JAN	1600	65	0.03	0.01	0.03	20.	
1	JAN	0345	16	0.02	0.02	0.00	0.	*		1	JAN	1615	66	0.03	0.01	0.03	18.	
1	JAN	0400	17	0.02	0.02	0.00	0.	*		1	JAN	1630	67	0.03	0.01	0.03	18.	
1	JAN	0415	18	0.02	0.02	0.00	0.	*		1	JAN	1645	68	0.03	0.01	0.02	17.	
1	JAN	0430	19	0.02	0.02	0.00	0.	*		1	JAN	1700	69	0.03	0.01	0.02	17.	
1	JAN	0445	20	0.02	0.02	0.00	0.	*		1	JAN	1715	70	0.03	0.01	0.02	16.	
1	JAN	0500	21	0.02	0.02	0.00	0.	*		1	JAN	1730	71	0.03	0.01	0.02	16.	
1	JAN	0515	22	0.02	0.02	0.00	0.	*		1	JAN	1745	72	0.03	0.00	0.02	16.	
1	JAN	0530	23	0.02	0.02	0.00	0.	*		1	JAN	1800	73	0.03	0.00	0.02	15.	
1	JAN	0545	24	0.02	0.02	0.00	0.	*		1	JAN	1815	74	0.03	0.00	0.02	14.	
1	JAN	0600	25	0.03	0.03	0.00	0.	*		1	JAN	1830	75	0.02	0.00	0.02	14.	
1	JAN	0615	26	0.03	0.03	0.00	0.	*		1	JAN	1845	76	0.02	0.00	0.02	14.	
1	JAN	0630	27	0.03	0.03	0.00	0.	*		1	JAN	1900	77	0.02	0.00	0.02	13.	
1	JAN	0645	28	0.03	0.03	0.00	0.	*		1	JAN	1915	78	0.02	0.00	0.02	13.	

100yr.out												
1 JAN 0700	29	0.03	0.03	0.00	0.	*	1 JAN 1930	79	0.02	0.00	0.02	12.
1 JAN 0715	30	0.03	0.03	0.00	0.	*	1 JAN 1945	80	0.02	0.00	0.02	12.
1 JAN 0730	31	0.03	0.03	0.00	0.	*	1 JAN 2000	81	0.02	0.00	0.02	11.
1 JAN 0745	32	0.03	0.03	0.00	0.	*	1 JAN 2015	82	0.02	0.00	0.02	11.
1 JAN 0800	33	0.03	0.03	0.00	0.	*	1 JAN 2030	83	0.02	0.00	0.01	10.
1 JAN 0815	34	0.03	0.03	0.00	0.	*	1 JAN 2045	84	0.02	0.00	0.02	11.
1 JAN 0830	35	0.04	0.04	0.00	1.	*	1 JAN 2100	85	0.02	0.00	0.02	11.
1 JAN 0845	36	0.04	0.04	0.00	1.	*	1 JAN 2115	86	0.02	0.00	0.01	10.
1 JAN 0900	37	0.04	0.04	0.00	2.	*	1 JAN 2130	87	0.02	0.00	0.01	10.
1 JAN 0915	38	0.05	0.04	0.00	3.	*	1 JAN 2145	88	0.02	0.00	0.01	10.
1 JAN 0930	39	0.05	0.04	0.01	4.	*	1 JAN 2200	89	0.02	0.00	0.01	10.
1 JAN 0945	40	0.05	0.04	0.01	5.	*	1 JAN 2215	90	0.02	0.00	0.01	10.
1 JAN 1000	41	0.05	0.05	0.01	6.	*	1 JAN 2230	91	0.02	0.00	0.01	10.
1 JAN 1015	42	0.06	0.05	0.01	8.	*	1 JAN 2245	92	0.02	0.00	0.01	10.
1 JAN 1030	43	0.07	0.05	0.02	10.	*	1 JAN 2300	93	0.02	0.00	0.01	10.
1 JAN 1045	44	0.08	0.06	0.02	13.	*	1 JAN 2315	94	0.02	0.00	0.01	9.
1 JAN 1100	45	0.10	0.07	0.03	17.	*	1 JAN 2330	95	0.02	0.00	0.01	9.
1 JAN 1115	46	0.12	0.08	0.04	25.	*	1 JAN 2345	96	0.02	0.00	0.01	9.
1 JAN 1130	47	0.15	0.10	0.06	35.	*	2 JAN 0000	97	0.02	0.00	0.01	9.
1 JAN 1145	48	0.62	0.34	0.29	159.	*	2 JAN 0015	98	0.00	0.00	0.00	2.
1 JAN 1200	49	1.54	0.55	0.99	557.	*	2 JAN 0030	99	0.00	0.00	0.00	0.
1 JAN 1215	50	0.24	0.06	0.18	246.	*	2 JAN 0045	100	0.00	0.00	0.00	0.

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TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.70, TOTAL EXCESS = 3.00

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
557.	12.00	71.	22.	21.	21.	
		(INCHES)	2.428	2.997	2.997	2.997
		(AC-FT)	35.	43.	43.	43.

CUMULATIVE AREA = 0.27 SQ MI

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 225 KK 7aB \*  
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226 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

229 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

227 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.57 SUBBASIN AREA

PRECIPITATION DATA

228 PB STORM 5.70 BASIN TOTAL PRECIPITATION

230 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

255 LS SCS LOSS RATE  
 STRTL 0.78 INITIAL ABSTRACTION  
 CRVNR 71.89 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

256 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH

1089. 305. 60. 12.

HYDROGRAPH AT STATION 7aB

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q		DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.17	0.05	0.12	237.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	147.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.10	0.03	0.07	110.
1	JAN	0045	4	0.02	0.02	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	93.
1	JAN	0100	5	0.02	0.02	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	82.
1	JAN	0115	6	0.02	0.02	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.05	72.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.06	0.01	0.04	64.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	58.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	55.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.05	0.01	0.04	53.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	50.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	47.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	44.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	42.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	39.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	37.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	36.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	35.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	34.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	33.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	32.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	31.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.03	0.01	0.02	30.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.03	0.01	0.02	29.
1	JAN	0600	25	0.03	0.03	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	28.
1	JAN	0615	26	0.03	0.03	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	27.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	26.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	25.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	24.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.02	23.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	22.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	22.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	21.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	21.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	21.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	21.
1	JAN	0900	37	0.04	0.04	0.00	1.	*	1	JAN	2130	87	0.02	0.00	0.01	20.
1	JAN	0915	38	0.05	0.04	0.00	2.	*	1	JAN	2145	88	0.02	0.00	0.01	21.
1	JAN	0930	39	0.05	0.04	0.00	4.	*	1	JAN	2200	89	0.02	0.00	0.01	20.
1	JAN	0945	40	0.05	0.04	0.00	5.	*	1	JAN	2215	90	0.02	0.00	0.01	20.
1	JAN	1000	41	0.05	0.05	0.01	8.	*	1	JAN	2230	91	0.02	0.00	0.01	20.
1	JAN	1015	42	0.06	0.05	0.01	11.	*	1	JAN	2245	92	0.02	0.00	0.01	20.
1	JAN	1030	43	0.07	0.06	0.01	15.	*	1	JAN	2300	93	0.02	0.00	0.01	20.
1	JAN	1045	44	0.08	0.07	0.02	20.	*	1	JAN	2315	94	0.02	0.00	0.01	19.
1	JAN	1100	45	0.10	0.07	0.02	28.	*	1	JAN	2330	95	0.02	0.00	0.01	19.
1	JAN	1115	46	0.12	0.09	0.03	41.	*	1	JAN	2345	96	0.02	0.00	0.01	19.
1	JAN	1130	47	0.15	0.11	0.05	60.	*	2	JAN	0000	97	0.02	0.00	0.01	19.
1	JAN	1145	48	0.62	0.38	0.25	288.	*	2	JAN	0015	98	0.00	0.00	0.00	5.
1	JAN	1200	49	1.54	0.64	0.91	1066.	*	2	JAN	0030	99	0.00	0.00	0.00	1.
1	JAN	1215	50	0.24	0.08	0.17	475.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.96, TOTAL EXCESS = 2.74

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
1066.	12.00	136.	42.	41.	41.	
		(INCHES)	2.224	2.740	2.740	2.740
		(AC-FT)	67.	83.	83.	83.

CUMULATIVE AREA = 0.57 SQ MI

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257 KK \* 7C \* CNAME 7R  
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258 KO OUTPUT CONTROL VARIABLES

IPRNT	1	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE
IPNCH	0	PUNCH COMPUTED HYDROGRAPH
IOUT	22	SAVE HYDROGRAPH ON THIS UNIT
ISAV1	1	FIRST ORDINATE PUNCHED OR SAVED
ISAV2	100	LAST ORDINATE PUNCHED OR SAVED
TIMINT	0.250	TIME INTERVAL IN HOURS

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HYDROGRAPH AT STATION 7C  
 SUM OF 3 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	514.	*	1	JAN	1845	76	54.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	322.	*	1	JAN	1900	77	51.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	226.	*	1	JAN	1915	78	50.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	192.	*	1	JAN	1930	79	48.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	162.	*	1	JAN	1945	80	46.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	145.	*	1	JAN	2000	81	44.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	128.	*	1	JAN	2015	82	43.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	117.	*	1	JAN	2030	83	41.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	109.	*	1	JAN	2045	84	41.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	1.	*	1	JAN	1445	60	104.	*	1	JAN	2100	85	42.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	2.	*	1	JAN	1500	61	98.	*	1	JAN	2115	86	40.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	4.	*	1	JAN	1515	62	94.	*	1	JAN	2130	87	40.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	7.	*	1	JAN	1530	63	88.	*	1	JAN	2145	88	40.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	10.	*	1	JAN	1545	64	83.	*	1	JAN	2200	89	40.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	14.	*	1	JAN	1600	65	78.	*	1	JAN	2215	90	39.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	18.	*	1	JAN	1615	66	73.	*	1	JAN	2230	91	38.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	25.	*	1	JAN	1630	67	71.	*	1	JAN	2245	92	38.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	33.	*	1	JAN	1645	68	69.	*	1	JAN	2300	93	39.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	44.	*	1	JAN	1700	69	67.	*	1	JAN	2315	94	37.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	59.	*	1	JAN	1715	70	65.	*	1	JAN	2330	95	37.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	84.	*	1	JAN	1730	71	63.	*	1	JAN	2345	96	37.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	123.	*	1	JAN	1745	72	61.	*	2	JAN	0000	97	37.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	538.	*	1	JAN	1800	73	59.	*	2	JAN	0015	98	12.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	1958.	*	1	JAN	1815	74	57.	*	2	JAN	0030	99	3.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	1084.	*	1	JAN	1830	75	56.	*	2	JAN	0045	100	1.	*

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
(CFS)	(HR)				
1958.	12.00	272.	84.	81.	81.
		(INCHES)	2.319	2.861	2.861
		(AC-FT)	135.	166.	166.

CUMULATIVE AREA = 1.09 SQ MI

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 260 KK \* 7R \* CNAME 7C  
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261 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

262 RM MUSKINGUM ROUTING  
 NSTPS 1 NUMBER OF SUBREACHES  
 AMSK 0.10 MUSKINGUM K  
 X 0.20 MUSKINGUM X

\*\*\*\* WARNING \*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 7R.  
 REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

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HYDROGRAPH AT STATION 7R

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	688.	*	1	JAN	1845	76	55.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	384.	*	1	JAN	1900	77	52.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	262.	*	1	JAN	1915	78	50.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	202.	*	1	JAN	1930	79	49.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	175.	*	1	JAN	1945	80	47.	*

100yr.out														
1 JAN 0115	6	0.	*	1 JAN 0730	31	0.	*	1 JAN 1345	56	151.	*	1 JAN 2000	81	45.
1 JAN 0130	7	0.	*	1 JAN 0745	32	0.	*	1 JAN 1400	57	135.	*	1 JAN 2015	82	43.
1 JAN 0145	8	0.	*	1 JAN 0800	33	0.	*	1 JAN 1415	58	121.	*	1 JAN 2030	83	42.
1 JAN 0200	9	0.	*	1 JAN 0815	34	0.	*	1 JAN 1430	59	112.	*	1 JAN 2045	84	41.
1 JAN 0215	10	0.	*	1 JAN 0830	35	1.	*	1 JAN 1445	60	106.	*	1 JAN 2100	85	42.
1 JAN 0230	11	0.	*	1 JAN 0845	36	2.	*	1 JAN 1500	61	101.	*	1 JAN 2115	86	41.
1 JAN 0245	12	0.	*	1 JAN 0900	37	3.	*	1 JAN 1515	62	95.	*	1 JAN 2130	87	40.
1 JAN 0300	13	0.	*	1 JAN 0915	38	6.	*	1 JAN 1530	63	90.	*	1 JAN 2145	88	40.
1 JAN 0315	14	0.	*	1 JAN 0930	39	9.	*	1 JAN 1545	64	85.	*	1 JAN 2200	89	40.
1 JAN 0330	15	0.	*	1 JAN 0945	40	12.	*	1 JAN 1600	65	80.	*	1 JAN 2215	90	39.
1 JAN 0345	16	0.	*	1 JAN 1000	41	16.	*	1 JAN 1615	66	75.	*	1 JAN 2230	91	39.
1 JAN 0400	17	0.	*	1 JAN 1015	42	22.	*	1 JAN 1630	67	72.	*	1 JAN 2245	92	38.
1 JAN 0415	18	0.	*	1 JAN 1030	43	29.	*	1 JAN 1645	68	70.	*	1 JAN 2300	93	39.
1 JAN 0430	19	0.	*	1 JAN 1045	44	39.	*	1 JAN 1700	69	68.	*	1 JAN 2315	94	38.
1 JAN 0445	20	0.	*	1 JAN 1100	45	53.	*	1 JAN 1715	70	66.	*	1 JAN 2330	95	37.
1 JAN 0500	21	0.	*	1 JAN 1115	46	73.	*	1 JAN 1730	71	64.	*	1 JAN 2345	96	37.
1 JAN 0515	22	0.	*	1 JAN 1130	47	106.	*	1 JAN 1745	72	62.	*	2 JAN 0000	97	37.
1 JAN 0530	23	0.	*	1 JAN 1145	48	333.	*	1 JAN 1800	73	60.	*	2 JAN 0015	98	24.
1 JAN 0545	24	0.	*	1 JAN 1200	49	1285.	*	1 JAN 1815	74	58.	*	2 JAN 0030	99	5.
1 JAN 0600	25	0.	*	1 JAN 1215	50	1655.	*	1 JAN 1830	75	56.	*	2 JAN 0045	100	1.

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.75-HR	
1655.	12.25	272.	84.	81.	81.	
		(INCHES)	2.319	2.860	2.860	2.860
		(AC-FT)	135.	166.	166.	166.

CUMULATIVE AREA = 1.09 SQ MI

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263 KK \* 2b \*  
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264 KO OUTPUT CONTROL VARIABLES  
 IPRNT 1 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE  
 IPNCH 1 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

267 IN TIME DATA FOR INPUT TIME SERIES  
 JXMIN 6 TIME INTERVAL IN MINUTES  
 JXDATE 1JAN94 STARTING DATE  
 JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

265 BA SUBBASIN CHARACTERISTICS  
 TAREA, 0.13 SUBBASIN AREA

PRECIPITATION DATA

266 PB STORM 5.70 BASIN TOTAL PRECIPITATION

268 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.03	0.11	0.27	0.04	0.03	
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

293 LS SCS LOSS RATE  
 STRTL 0.79 INITIAL ABSTRACTION  
 CRVNBR 71.61 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

294 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 240. 67. 13. 3. 0.

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HYDROGRAPH AT STATION 2bB

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*****
DA MON HRMN  ORD  RAIN  LOSS  EXCESS  COMP Q  *  DA MON HRMN  ORD  RAIN  LOSS  EXCESS  COMP Q
*
1 JAN 0000  1  0.00  0.00  0.00  0.  *  1 JAN 1230  51  0.17  0.05  0.12  52.
1 JAN 0015  2  0.01  0.01  0.00  0.  *  1 JAN 1245  52  0.11  0.03  0.08  32.
1 JAN 0030  3  0.01  0.01  0.00  0.  *  1 JAN 1300  53  0.10  0.03  0.07  24.
1 JAN 0045  4  0.02  0.02  0.00  0.  *  1 JAN 1315  54  0.08  0.02  0.06  20.
1 JAN 0100  5  0.02  0.02  0.00  0.  *  1 JAN 1330  55  0.07  0.02  0.05  18.
1 JAN 0115  6  0.02  0.02  0.00  0.  *  1 JAN 1345  56  0.06  0.02  0.05  16.
1 JAN 0130  7  0.02  0.02  0.00  0.  *  1 JAN 1400  57  0.06  0.01  0.04  14.
1 JAN 0145  8  0.02  0.02  0.00  0.  *  1 JAN 1415  58  0.05  0.01  0.04  13.
1 JAN 0200  9  0.02  0.02  0.00  0.  *  1 JAN 1430  59  0.05  0.01  0.04  12.
1 JAN 0215  10  0.02  0.02  0.00  0.  *  1 JAN 1445  60  0.05  0.01  0.04  12.
1 JAN 0230  11  0.02  0.02  0.00  0.  *  1 JAN 1500  61  0.04  0.01  0.03  11.
1 JAN 0245  12  0.02  0.02  0.00  0.  *  1 JAN 1515  62  0.04  0.01  0.03  10.
1 JAN 0300  13  0.02  0.02  0.00  0.  *  1 JAN 1530  63  0.04  0.01  0.03  10.
1 JAN 0315  14  0.02  0.02  0.00  0.  *  1 JAN 1545  64  0.04  0.01  0.03  9.
1 JAN 0330  15  0.02  0.02  0.00  0.  *  1 JAN 1600  65  0.03  0.01  0.03  9.
1 JAN 0345  16  0.02  0.02  0.00  0.  *  1 JAN 1615  66  0.03  0.01  0.02  8.
1 JAN 0400  17  0.02  0.02  0.00  0.  *  1 JAN 1630  67  0.03  0.01  0.02  8.
1 JAN 0415  18  0.02  0.02  0.00  0.  *  1 JAN 1645  68  0.03  0.01  0.02  8.
1 JAN 0430  19  0.02  0.02  0.00  0.  *  1 JAN 1700  69  0.03  0.01  0.02  8.
1 JAN 0445  20  0.02  0.02  0.00  0.  *  1 JAN 1715  70  0.03  0.01  0.02  7.
1 JAN 0500  21  0.02  0.02  0.00  0.  *  1 JAN 1730  71  0.03  0.01  0.02  7.
1 JAN 0515  22  0.02  0.02  0.00  0.  *  1 JAN 1745  72  0.03  0.01  0.02  7.
1 JAN 0530  23  0.02  0.02  0.00  0.  *  1 JAN 1800  73  0.03  0.01  0.02  7.
1 JAN 0545  24  0.02  0.02  0.00  0.  *  1 JAN 1815  74  0.03  0.01  0.02  6.
1 JAN 0600  25  0.03  0.03  0.00  0.  *  1 JAN 1830  75  0.02  0.01  0.02  6.
1 JAN 0615  26  0.03  0.03  0.00  0.  *  1 JAN 1845  76  0.02  0.01  0.02  6.
1 JAN 0630  27  0.03  0.03  0.00  0.  *  1 JAN 1900  77  0.02  0.00  0.02  6.
1 JAN 0645  28  0.03  0.03  0.00  0.  *  1 JAN 1915  78  0.02  0.00  0.02  6.
1 JAN 0700  29  0.03  0.03  0.00  0.  *  1 JAN 1930  79  0.02  0.00  0.02  5.
1 JAN 0715  30  0.03  0.03  0.00  0.  *  1 JAN 1945  80  0.02  0.00  0.02  5.
1 JAN 0730  31  0.03  0.03  0.00  0.  *  1 JAN 2000  81  0.02  0.00  0.01  5.
1 JAN 0745  32  0.03  0.03  0.00  0.  *  1 JAN 2015  82  0.02  0.00  0.01  5.
1 JAN 0800  33  0.03  0.03  0.00  0.  *  1 JAN 2030  83  0.02  0.00  0.01  5.
1 JAN 0815  34  0.03  0.03  0.00  0.  *  1 JAN 2045  84  0.02  0.00  0.01  5.
1 JAN 0830  35  0.04  0.04  0.00  0.  *  1 JAN 2100  85  0.02  0.00  0.01  5.
1 JAN 0845  36  0.04  0.04  0.00  0.  *  1 JAN 2115  86  0.02  0.00  0.01  5.
1 JAN 0900  37  0.04  0.04  0.00  0.  *  1 JAN 2130  87  0.02  0.00  0.01  4.
1 JAN 0915  38  0.05  0.04  0.00  0.  *  1 JAN 2145  88  0.02  0.00  0.01  5.
1 JAN 0930  39  0.05  0.04  0.00  1.  *  1 JAN 2200  89  0.02  0.00  0.01  4.
1 JAN 0945  40  0.05  0.04  0.00  1.  *  1 JAN 2215  90  0.02  0.00  0.01  4.
1 JAN 1000  41  0.05  0.05  0.01  2.  *  1 JAN 2230  91  0.02  0.00  0.01  4.
1 JAN 1015  42  0.06  0.05  0.01  2.  *  1 JAN 2245  92  0.02  0.00  0.01  4.
1 JAN 1030  43  0.07  0.06  0.01  3.  *  1 JAN 2300  93  0.02  0.00  0.01  4.
1 JAN 1045  44  0.08  0.07  0.01  4.  *  1 JAN 2315  94  0.02  0.00  0.01  4.
1 JAN 1100  45  0.10  0.08  0.02  6.  *  1 JAN 2330  95  0.02  0.00  0.01  4.
1 JAN 1115  46  0.12  0.09  0.03  9.  *  1 JAN 2345  96  0.02  0.00  0.01  4.
1 JAN 1130  47  0.15  0.11  0.04  13.  *  2 JAN 0000  97  0.02  0.00  0.01  4.
1 JAN 1145  48  0.62  0.38  0.25  62.  *  2 JAN 0015  98  0.00  0.00  0.00  1.
1 JAN 1200  49  1.54  0.64  0.90  233.  *  2 JAN 0030  99  0.00  0.00  0.00  0.
1 JAN 1215  50  0.24  0.08  0.17  104.  *  2 JAN 0045  100  0.00  0.00  0.00  0.
*
TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.99, TOTAL EXCESS = 2.71
PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)          6-HR      24-HR      72-HR      24.75-HR
+ 233.         12.00          (CFS)
                   (INCHES)  30.        9.         9.         9.
                   (AC-FT)   2.204     2.714     2.714     2.714
                   CUMULATIVE AREA = 0.13 SQ MI

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*****
TOTAL RAINFALL = 5.70, TOTAL LOSS = 2.99, TOTAL EXCESS = 2.71
PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+ (CFS)        (HR)          6-HR      24-HR      72-HR      24.75-HR
+ 233.         12.00          (CFS)
                   (INCHES)  30.        9.         9.         9.
                   (AC-FT)   2.204     2.714     2.714     2.714
                   CUMULATIVE AREA = 0.13 SQ MI

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*****
*
295 KK      *      2aB  *
*
*****

296 KO      OUTPUT CONTROL VARIABLES
            IPRNT      1  PRINT CONTROL
            IPLOT      0  PLOT CONTROL
            QSCAL      0.  HYDROGRAPH PLOT SCALE
            IPNCH      1  PUNCH COMPUTED HYDROGRAPH
            IOUT       22  SAVE HYDROGRAPH ON THIS UNIT
            ISAV1      1  FIRST ORDINATE PUNCHED OR SAVED
            ISAV2     100  LAST ORDINATE PUNCHED OR SAVED
            TIMINT     0.250  TIME INTERVAL IN HOURS

299 IN      TIME DATA FOR INPUT TIME SERIES
            JXMIN      6  TIME INTERVAL IN MINUTES
            JXDATE     1JAN94  STARTING DATE
            JXTIME     0  STARTING TIME

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SUBBASIN RUNOFF DATA

297 BA SUBBASIN CHARACTERISTICS  
TAREA, 0.49 SUBBASIN AREA

PRECIPITATION DATA

298 PB STORM 5.70 BASIN TOTAL PRECIPITATION

300 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04	0.03
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

325 LS SCS LOSS RATE  
 STRTL 0.83 INITIAL ABSTRACTION  
 CRVNBR 70.68 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

326 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 940. 263. 52. 10. 0.

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HYDROGRAPH AT STATION 2aB

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP	Q	*
1	JAN	0000	1	0.00	0.00	0.00	0.	*	*	1	JAN	1230	51	0.17	0.05	0.11	198.	*	
1	JAN	0015	2	0.01	0.01	0.00	0.	*	*	1	JAN	1245	52	0.11	0.03	0.08	123.	*	
1	JAN	0030	3	0.01	0.01	0.00	0.	*	*	1	JAN	1300	53	0.10	0.03	0.07	93.	*	
1	JAN	0045	4	0.02	0.02	0.00	0.	*	*	1	JAN	1315	54	0.08	0.02	0.06	78.	*	
1	JAN	0100	5	0.02	0.02	0.00	0.	*	*	1	JAN	1330	55	0.07	0.02	0.05	69.	*	
1	JAN	0115	6	0.02	0.02	0.00	0.	*	*	1	JAN	1345	56	0.06	0.02	0.05	61.	*	
1	JAN	0130	7	0.02	0.02	0.00	0.	*	*	1	JAN	1400	57	0.06	0.02	0.04	54.	*	
1	JAN	0145	8	0.02	0.02	0.00	0.	*	*	1	JAN	1415	58	0.05	0.01	0.04	49.	*	
1	JAN	0200	9	0.02	0.02	0.00	0.	*	*	1	JAN	1430	59	0.05	0.01	0.04	46.	*	
1	JAN	0215	10	0.02	0.02	0.00	0.	*	*	1	JAN	1445	60	0.05	0.01	0.03	44.	*	
1	JAN	0230	11	0.02	0.02	0.00	0.	*	*	1	JAN	1500	61	0.04	0.01	0.03	42.	*	
1	JAN	0245	12	0.02	0.02	0.00	0.	*	*	1	JAN	1515	62	0.04	0.01	0.03	40.	*	
1	JAN	0300	13	0.02	0.02	0.00	0.	*	*	1	JAN	1530	63	0.04	0.01	0.03	37.	*	
1	JAN	0315	14	0.02	0.02	0.00	0.	*	*	1	JAN	1545	64	0.04	0.01	0.03	35.	*	
1	JAN	0330	15	0.02	0.02	0.00	0.	*	*	1	JAN	1600	65	0.03	0.01	0.03	33.	*	
1	JAN	0345	16	0.02	0.02	0.00	0.	*	*	1	JAN	1615	66	0.03	0.01	0.02	31.	*	
1	JAN	0400	17	0.02	0.02	0.00	0.	*	*	1	JAN	1630	67	0.03	0.01	0.02	30.	*	
1	JAN	0415	18	0.02	0.02	0.00	0.	*	*	1	JAN	1645	68	0.03	0.01	0.02	29.	*	
1	JAN	0430	19	0.02	0.02	0.00	0.	*	*	1	JAN	1700	69	0.03	0.01	0.02	29.	*	
1	JAN	0445	20	0.02	0.02	0.00	0.	*	*	1	JAN	1715	70	0.03	0.01	0.02	28.	*	
1	JAN	0500	21	0.02	0.02	0.00	0.	*	*	1	JAN	1730	71	0.03	0.01	0.02	27.	*	
1	JAN	0515	22	0.02	0.02	0.00	0.	*	*	1	JAN	1745	72	0.03	0.01	0.02	26.	*	
1	JAN	0530	23	0.02	0.02	0.00	0.	*	*	1	JAN	1800	73	0.03	0.01	0.02	25.	*	
1	JAN	0545	24	0.02	0.02	0.00	0.	*	*	1	JAN	1815	74	0.03	0.01	0.02	25.	*	
1	JAN	0600	25	0.03	0.03	0.00	0.	*	*	1	JAN	1830	75	0.02	0.01	0.02	24.	*	
1	JAN	0615	26	0.03	0.03	0.00	0.	*	*	1	JAN	1845	76	0.02	0.01	0.02	23.	*	
1	JAN	0630	27	0.03	0.03	0.00	0.	*	*	1	JAN	1900	77	0.02	0.01	0.02	22.	*	
1	JAN	0645	28	0.03	0.03	0.00	0.	*	*	1	JAN	1915	78	0.02	0.01	0.02	22.	*	
1	JAN	0700	29	0.03	0.03	0.00	0.	*	*	1	JAN	1930	79	0.02	0.00	0.02	21.	*	
1	JAN	0715	30	0.03	0.03	0.00	0.	*	*	1	JAN	1945	80	0.02	0.00	0.02	20.	*	
1	JAN	0730	31	0.03	0.03	0.00	0.	*	*	1	JAN	2000	81	0.02	0.00	0.01	19.	*	
1	JAN	0745	32	0.03	0.03	0.00	0.	*	*	1	JAN	2015	82	0.02	0.00	0.01	18.	*	
1	JAN	0800	33	0.03	0.03	0.00	0.	*	*	1	JAN	2030	83	0.02	0.00	0.01	18.	*	
1	JAN	0815	34	0.03	0.03	0.00	0.	*	*	1	JAN	2045	84	0.02	0.00	0.01	18.	*	
1	JAN	0830	35	0.04	0.04	0.00	0.	*	*	1	JAN	2100	85	0.02	0.00	0.01	18.	*	
1	JAN	0845	36	0.04	0.04	0.00	0.	*	*	1	JAN	2115	86	0.02	0.00	0.01	17.	*	
1	JAN	0900	37	0.04	0.04	0.00	0.	*	*	1	JAN	2130	87	0.02	0.00	0.01	17.	*	
1	JAN	0915	38	0.05	0.04	0.00	1.	*	*	1	JAN	2145	88	0.02	0.00	0.01	17.	*	
1	JAN	0930	39	0.05	0.04	0.00	2.	*	*	1	JAN	2200	89	0.02	0.00	0.01	17.	*	
1	JAN	0945	40	0.05	0.05	0.00	3.	*	*	1	JAN	2215	90	0.02	0.00	0.01	17.	*	
1	JAN	1000	41	0.05	0.05	0.00	5.	*	*	1	JAN	2230	91	0.02	0.00	0.01	17.	*	
1	JAN	1015	42	0.06	0.06	0.01	7.	*	*	1	JAN	2245	92	0.02	0.00	0.01	17.	*	
1	JAN	1030	43	0.07	0.06	0.01	10.	*	*	1	JAN	2300	93	0.02	0.00	0.01	17.	*	
1	JAN	1045	44	0.08	0.07	0.01	15.	*	*	1	JAN	2315	94	0.02	0.00	0.01	16.	*	
1	JAN	1100	45	0.10	0.08	0.02	21.	*	*	1	JAN	2330	95	0.02	0.00	0.01	16.	*	
1	JAN	1115	46	0.12	0.09	0.03	31.	*	*	1	JAN	2345	96	0.02	0.00	0.01	16.	*	
1	JAN	1130	47	0.15	0.11	0.04	47.	*	*	2	JAN	0000	97	0.02	0.00	0.01	16.	*	
1	JAN	1145	48	0.62	0.39	0.23	231.	*	*	2	JAN	0015	98	0.00	0.00	0.00	4.	*	
1	JAN	1200	49	1.54	0.67	0.87	880.	*	*	2	JAN	0030	99	0.00	0.00	0.00	1.	*	
1	JAN	1215	50	0.24	0.08	0.16	395.	*	*	2	JAN	0045	100	0.00	0.00	0.00	0.	*	

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TOTAL RAINFALL = 5.70, TOTAL LOSS = 3.07, TOTAL EXCESS = 2.63 <sup>100yr.out</sup>

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
+	(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
		(CFS)				
+	880.	12.00	113.	35.	34.	34.
		(INCHES)	2.138	2.630	2.630	2.630
		(AC-FT)	56.	69.	69.	69.
CUMULATIVE AREA =			0.49 SQ MI			

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*****
*
327 KK *      2C *      CNAME      2R
*
*****
  
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328 KO      OUTPUT CONTROL VARIABLES
          IPRNT      1      PRINT CONTROL
          IPLOT      0      PLOT CONTROL
          QSCAL      0.    HYDROGRAPH PLOT SCALE
          IPNCH      0      PUNCH COMPUTED HYDROGRAPH
          IOUT      22     SAVE HYDROGRAPH ON THIS UNIT
          ISAV1      1      FIRST ORDINATE PUNCHED OR SAVED
          ISAV2     100     LAST ORDINATE PUNCHED OR SAVED
          TIMINT     0.250  TIME INTERVAL IN HOURS
  
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329 HC      HYDROGRAPH COMBINATION
          ICOMP      4      NUMBER OF HYDROGRAPHS TO COMBINE
  
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HYDROGRAPH AT STATION 2C  
SUM OF 4 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	2700.	*	1	JAN	1845	76	181.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	1398.	*	1	JAN	1900	77	174.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	962.	*	1	JAN	1915	78	168.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	710.	*	1	JAN	1930	79	162.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	602.	*	1	JAN	1945	80	156.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	507.	*	1	JAN	2000	81	149.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	457.	*	1	JAN	2015	82	143.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	402.	*	1	JAN	2030	83	139.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	377.	*	1	JAN	2045	84	137.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	2.	*	1	JAN	1445	60	350.	*	1	JAN	2100	85	137.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	5.	*	1	JAN	1500	61	337.	*	1	JAN	2115	86	135.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	10.	*	1	JAN	1515	62	316.	*	1	JAN	2130	87	133.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	18.	*	1	JAN	1530	63	301.	*	1	JAN	2145	88	132.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	28.	*	1	JAN	1545	64	282.	*	1	JAN	2200	89	132.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	38.	*	1	JAN	1600	65	267.	*	1	JAN	2215	90	130.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	51.	*	1	JAN	1615	66	249.	*	1	JAN	2230	91	128.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	69.	*	1	JAN	1630	67	239.	*	1	JAN	2245	92	127.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	92.	*	1	JAN	1645	68	231.	*	1	JAN	2300	93	127.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	124.	*	1	JAN	1700	69	226.	*	1	JAN	2315	94	125.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	168.	*	1	JAN	1715	70	218.	*	1	JAN	2330	95	123.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	234.	*	1	JAN	1730	71	212.	*	1	JAN	2345	96	122.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	338.	*	1	JAN	1745	72	206.	*	2	JAN	0000	97	122.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	1092.	*	1	JAN	1800	73	200.	*	2	JAN	0015	98	79.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	4129.	*	1	JAN	1815	74	193.	*	2	JAN	0030	99	27.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	4808.	*	1	JAN	1830	75	187.	*	2	JAN	0045	100	7.	*

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
+	(CFS)	(HR)	6-HR	24-HR	72-HR	24.75-HR
		(CFS)				
+	4808.	12.25	896.	276.	268.	268.
		(INCHES)	2.309	2.848	2.848	2.848
		(AC-FT)	444.	548.	548.	548.
CUMULATIVE AREA =			3.61 SQ MI			

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330 KK *      2R *      CNAME      2C
*
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331 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

332 RM MUSKINGUM ROUTING
NSTPS 1 NUMBER OF SUBREACHES
AMSKK 0.14 MUSKINGUM K
X 0.20 MUSKINGUM X

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\*\*\*\*\* WARNING \*\*\*\*\* POSSIBLE INSTABILITIES IN THE MUSKINGUM ROUTING FOR REACH 2R.
REDUCE NSTPS OR DECREASE YOUR COMPUTATION INTERVAL (FIRST FIELD OF THE IT RECORD).

HYDROGRAPH AT STATION 2R

Table with 18 columns: DA, MON, HRMN, ORD, FLOW, \* (repeated 6 times). Rows show hydrograph data for various dates from 1 JAN 0000 to 1 JAN 0600.

Summary table for peak flow and maximum average flow. Columns: PEAK FLOW (CFS), TIME (HR), 6-HR, 24-HR, 72-HR, 24.75-HR. Values include 4519 CFS peak flow and 2.308 inches average flow.

CUMULATIVE AREA = 3.61 SQ MI

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333 KK 1B

334 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 1 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

337 IN TIME DATA FOR INPUT TIME SERIES
JXMIN 6 TIME INTERVAL IN MINUTES
JXDATE 1JAN94 STARTING DATE
JXTIME 0 STARTING TIME

SUBBASIN RUNOFF DATA

335 BA SUBBASIN CHARACTERISTICS

TAREA, 0.56 SUBBASIN AREA

PRECIPITATION DATA

336 PB STORM 5.70 BASIN TOTAL PRECIPITATION

338 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.11	0.27	0.04
0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

363 LS SCS LOSS RATE  
 STRTL 0.80 INITIAL ABSTRACTION  
 CRVNBR 71.35 CURVE NUMBER  
 RTIMP 0.00 PERCENT IMPERVIOUS AREA

364 UD SCS DIMENSIONLESS UNITGRAPH  
 TLAG 0.00 LAG

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WARNING \*\*\* TIME INTERVAL IS GREATER THAN .29\*LAG

UNIT HYDROGRAPH  
 5 END-OF-PERIOD ORDINATES  
 1075. 301. 59. 12. 0.

HYDROGRAPH AT STATION 1B

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1	JAN	0000	1	0.00	0.00	0.00	0.	*	1	JAN	1230	51	0.17	0.05	0.12	231.
1	JAN	0015	2	0.01	0.01	0.00	0.	*	1	JAN	1245	52	0.11	0.03	0.08	143.
1	JAN	0030	3	0.01	0.01	0.00	0.	*	1	JAN	1300	53	0.10	0.03	0.07	108.
1	JAN	0045	4	0.02	0.02	0.00	0.	*	1	JAN	1315	54	0.08	0.02	0.06	91.
1	JAN	0100	5	0.02	0.02	0.00	0.	*	1	JAN	1330	55	0.07	0.02	0.05	80.
1	JAN	0115	6	0.02	0.02	0.00	0.	*	1	JAN	1345	56	0.06	0.02	0.05	70.
1	JAN	0130	7	0.02	0.02	0.00	0.	*	1	JAN	1400	57	0.06	0.01	0.04	63.
1	JAN	0145	8	0.02	0.02	0.00	0.	*	1	JAN	1415	58	0.05	0.01	0.04	57.
1	JAN	0200	9	0.02	0.02	0.00	0.	*	1	JAN	1430	59	0.05	0.01	0.04	54.
1	JAN	0215	10	0.02	0.02	0.00	0.	*	1	JAN	1445	60	0.05	0.01	0.03	51.
1	JAN	0230	11	0.02	0.02	0.00	0.	*	1	JAN	1500	61	0.04	0.01	0.03	49.
1	JAN	0245	12	0.02	0.02	0.00	0.	*	1	JAN	1515	62	0.04	0.01	0.03	46.
1	JAN	0300	13	0.02	0.02	0.00	0.	*	1	JAN	1530	63	0.04	0.01	0.03	43.
1	JAN	0315	14	0.02	0.02	0.00	0.	*	1	JAN	1545	64	0.04	0.01	0.03	41.
1	JAN	0330	15	0.02	0.02	0.00	0.	*	1	JAN	1600	65	0.03	0.01	0.03	38.
1	JAN	0345	16	0.02	0.02	0.00	0.	*	1	JAN	1615	66	0.03	0.01	0.02	36.
1	JAN	0400	17	0.02	0.02	0.00	0.	*	1	JAN	1630	67	0.03	0.01	0.02	35.
1	JAN	0415	18	0.02	0.02	0.00	0.	*	1	JAN	1645	68	0.03	0.01	0.02	34.
1	JAN	0430	19	0.02	0.02	0.00	0.	*	1	JAN	1700	69	0.03	0.01	0.02	33.
1	JAN	0445	20	0.02	0.02	0.00	0.	*	1	JAN	1715	70	0.03	0.01	0.02	32.
1	JAN	0500	21	0.02	0.02	0.00	0.	*	1	JAN	1730	71	0.03	0.01	0.02	31.
1	JAN	0515	22	0.02	0.02	0.00	0.	*	1	JAN	1745	72	0.03	0.01	0.02	31.
1	JAN	0530	23	0.02	0.02	0.00	0.	*	1	JAN	1800	73	0.03	0.01	0.02	29.
1	JAN	0545	24	0.02	0.02	0.00	0.	*	1	JAN	1815	74	0.03	0.01	0.02	28.
1	JAN	0600	25	0.03	0.03	0.00	0.	*	1	JAN	1830	75	0.02	0.01	0.02	28.
1	JAN	0615	26	0.03	0.03	0.00	0.	*	1	JAN	1845	76	0.02	0.01	0.02	27.
1	JAN	0630	27	0.03	0.03	0.00	0.	*	1	JAN	1900	77	0.02	0.00	0.02	25.
1	JAN	0645	28	0.03	0.03	0.00	0.	*	1	JAN	1915	78	0.02	0.00	0.02	25.
1	JAN	0700	29	0.03	0.03	0.00	0.	*	1	JAN	1930	79	0.02	0.00	0.02	24.
1	JAN	0715	30	0.03	0.03	0.00	0.	*	1	JAN	1945	80	0.02	0.00	0.02	23.
1	JAN	0730	31	0.03	0.03	0.00	0.	*	1	JAN	2000	81	0.02	0.00	0.01	22.
1	JAN	0745	32	0.03	0.03	0.00	0.	*	1	JAN	2015	82	0.02	0.00	0.01	21.
1	JAN	0800	33	0.03	0.03	0.00	0.	*	1	JAN	2030	83	0.02	0.00	0.01	21.
1	JAN	0815	34	0.03	0.03	0.00	0.	*	1	JAN	2045	84	0.02	0.00	0.01	21.
1	JAN	0830	35	0.04	0.04	0.00	0.	*	1	JAN	2100	85	0.02	0.00	0.01	21.
1	JAN	0845	36	0.04	0.04	0.00	0.	*	1	JAN	2115	86	0.02	0.00	0.01	20.
1	JAN	0900	37	0.04	0.04	0.00	0.	*	1	JAN	2130	87	0.02	0.00	0.01	20.
1	JAN	0915	38	0.05	0.04	0.00	1.	*	1	JAN	2145	88	0.02	0.00	0.01	20.
1	JAN	0930	39	0.05	0.04	0.00	3.	*	1	JAN	2200	89	0.02	0.00	0.01	20.
1	JAN	0945	40	0.05	0.05	0.00	4.	*	1	JAN	2215	90	0.02	0.00	0.01	20.
1	JAN	1000	41	0.05	0.05	0.01	7.	*	1	JAN	2230	91	0.02	0.00	0.01	19.
1	JAN	1015	42	0.06	0.05	0.01	10.	*	1	JAN	2245	92	0.02	0.00	0.01	19.
1	JAN	1030	43	0.07	0.06	0.01	13.	*	1	JAN	2300	93	0.02	0.00	0.01	19.
1	JAN	1045	44	0.08	0.07	0.01	19.	*	1	JAN	2315	94	0.02	0.00	0.01	19.
1	JAN	1100	45	0.10	0.08	0.02	26.	*	1	JAN	2330	95	0.02	0.00	0.01	18.
1	JAN	1115	46	0.12	0.09	0.03	38.	*	1	JAN	2345	96	0.02	0.00	0.01	19.
1	JAN	1130	47	0.15	0.11	0.04	57.	*	2	JAN	0000	97	0.02	0.00	0.01	18.
1	JAN	1145	48	0.62	0.38	0.24	275.	*	2	JAN	0015	98	0.00	0.00	0.00	5.
1	JAN	1200	49	1.54	0.65	0.89	1032.	*	2	JAN	0030	99	0.00	0.00	0.00	1.
1	JAN	1215	50	0.24	0.08	0.17	461.	*	2	JAN	0045	100	0.00	0.00	0.00	0.

TOTAL RAINFALL = 5.70, TOTAL LOSS = 3.01, TOTAL EXCESS = 2.69

PEAK FLOW TIME MAXIMUM AVERAGE FLOW  
 6-HR 24-HR 72-HR 24.75-HR

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+ (CFS) (HR)
+ 1032. 12.00 (CFS) 132. 41. 39. 39.
(INCHES) 2.185 2.691 2.691 2.691
(AC-FT) 65. 80. 80. 80.
CUMULATIVE AREA = 0.56 SQ MI

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365 KK * 1C * CNAME 1C
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366 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE
IPNCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 22 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 100 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.250 TIME INTERVAL IN HOURS

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367 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION 1C  
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	JAN	0000	1	0.	*	1	JAN	0615	26	0.	*	1	JAN	1230	51	4184.	*	1	JAN	1845	76	211.	*
1	JAN	0015	2	0.	*	1	JAN	0630	27	0.	*	1	JAN	1245	52	2226.	*	1	JAN	1900	77	203.	*
1	JAN	0030	3	0.	*	1	JAN	0645	28	0.	*	1	JAN	1300	53	1283.	*	1	JAN	1915	78	196.	*
1	JAN	0045	4	0.	*	1	JAN	0700	29	0.	*	1	JAN	1315	54	935.	*	1	JAN	1930	79	189.	*
1	JAN	0100	5	0.	*	1	JAN	0715	30	0.	*	1	JAN	1330	55	737.	*	1	JAN	1945	80	182.	*
1	JAN	0115	6	0.	*	1	JAN	0730	31	0.	*	1	JAN	1345	56	629.	*	1	JAN	2000	81	174.	*
1	JAN	0130	7	0.	*	1	JAN	0745	32	0.	*	1	JAN	1400	57	546.	*	1	JAN	2015	82	167.	*
1	JAN	0145	8	0.	*	1	JAN	0800	33	0.	*	1	JAN	1415	58	490.	*	1	JAN	2030	83	162.	*
1	JAN	0200	9	0.	*	1	JAN	0815	34	0.	*	1	JAN	1430	59	443.	*	1	JAN	2045	84	159.	*
1	JAN	0215	10	0.	*	1	JAN	0830	35	1.	*	1	JAN	1445	60	416.	*	1	JAN	2100	85	158.	*
1	JAN	0230	11	0.	*	1	JAN	0845	36	4.	*	1	JAN	1500	61	392.	*	1	JAN	2115	86	156.	*
1	JAN	0245	12	0.	*	1	JAN	0900	37	8.	*	1	JAN	1515	62	374.	*	1	JAN	2130	87	154.	*
1	JAN	0300	13	0.	*	1	JAN	0915	38	15.	*	1	JAN	1530	63	352.	*	1	JAN	2145	88	152.	*
1	JAN	0315	14	0.	*	1	JAN	0930	39	25.	*	1	JAN	1545	64	334.	*	1	JAN	2200	89	152.	*
1	JAN	0330	15	0.	*	1	JAN	0945	40	37.	*	1	JAN	1600	65	313.	*	1	JAN	2215	90	151.	*
1	JAN	0345	16	0.	*	1	JAN	1000	41	50.	*	1	JAN	1615	66	295.	*	1	JAN	2230	91	148.	*
1	JAN	0400	17	0.	*	1	JAN	1015	42	68.	*	1	JAN	1630	67	280.	*	1	JAN	2245	92	147.	*
1	JAN	0415	18	0.	*	1	JAN	1030	43	93.	*	1	JAN	1645	68	270.	*	1	JAN	2300	93	146.	*
1	JAN	0430	19	0.	*	1	JAN	1045	44	125.	*	1	JAN	1700	69	262.	*	1	JAN	2315	94	145.	*
1	JAN	0445	20	0.	*	1	JAN	1100	45	169.	*	1	JAN	1715	70	255.	*	1	JAN	2330	95	143.	*
1	JAN	0500	21	0.	*	1	JAN	1115	46	235.	*	1	JAN	1730	71	247.	*	1	JAN	2345	96	141.	*
1	JAN	0515	22	0.	*	1	JAN	1130	47	336.	*	1	JAN	1745	72	240.	*	2	JAN	0000	97	140.	*
1	JAN	0530	23	0.	*	1	JAN	1145	48	929.	*	1	JAN	1800	73	233.	*	2	JAN	0015	98	109.	*
1	JAN	0545	24	0.	*	1	JAN	1200	49	3408.	*	1	JAN	1815	74	225.	*	2	JAN	0030	99	57.	*
1	JAN	0600	25	0.	*	1	JAN	1215	50	4980.	*	1	JAN	1830	75	218.	*	2	JAN	0045	100	17.	*

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PEAK FLOW TIME
+ (CFS) (HR)
+ 4980. 12.25 (CFS) 1027. 317. 307. 307.
(INCHES) 2.292 2.826 2.826 2.826
(AC-FT) 509. 628. 628. 628.
CUMULATIVE AREA = 4.17 SQ MI

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*****
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368 KK * 1C * CNAME 1C
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369 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

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100yr.out  
 IPNCH 0 PUNCH COMPUTED HYDROGRAPH  
 IOUT 22 SAVE HYDROGRAPH ON THIS UNIT  
 ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED  
 ISAV2 100 LAST ORDINATE PUNCHED OR SAVED  
 TIMINT 0.250 TIME INTERVAL IN HOURS

HYDROGRAPH ROUTING DATA

370 RN NO ROUTING

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HYDROGRAPH AT STATION 1C

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	JAN	0000	1	0.	1	JAN	0615	26	0.	1	JAN	1230	51	4184.	1	JAN	1845	76	211.
1	JAN	0015	2	0.	1	JAN	0630	27	0.	1	JAN	1245	52	2226.	1	JAN	1900	77	203.
1	JAN	0030	3	0.	1	JAN	0645	28	0.	1	JAN	1300	53	1283.	1	JAN	1915	78	196.
1	JAN	0045	4	0.	1	JAN	0700	29	0.	1	JAN	1315	54	935.	1	JAN	1930	79	189.
1	JAN	0100	5	0.	1	JAN	0715	30	0.	1	JAN	1330	55	737.	1	JAN	1945	80	182.
1	JAN	0115	6	0.	1	JAN	0730	31	0.	1	JAN	1345	56	629.	1	JAN	2000	81	174.
1	JAN	0130	7	0.	1	JAN	0745	32	0.	1	JAN	1400	57	546.	1	JAN	2015	82	167.
1	JAN	0145	8	0.	1	JAN	0800	33	0.	1	JAN	1415	58	490.	1	JAN	2030	83	162.
1	JAN	0200	9	0.	1	JAN	0815	34	0.	1	JAN	1430	59	443.	1	JAN	2045	84	159.
1	JAN	0215	10	0.	1	JAN	0830	35	1.	1	JAN	1445	60	416.	1	JAN	2100	85	158.
1	JAN	0230	11	0.	1	JAN	0845	36	4.	1	JAN	1500	61	392.	1	JAN	2115	86	156.
1	JAN	0245	12	0.	1	JAN	0900	37	8.	1	JAN	1515	62	374.	1	JAN	2130	87	154.
1	JAN	0300	13	0.	1	JAN	0915	38	15.	1	JAN	1530	63	352.	1	JAN	2145	88	152.
1	JAN	0315	14	0.	1	JAN	0930	39	25.	1	JAN	1545	64	334.	1	JAN	2200	89	152.
1	JAN	0330	15	0.	1	JAN	0945	40	37.	1	JAN	1600	65	313.	1	JAN	2215	90	151.
1	JAN	0345	16	0.	1	JAN	1000	41	50.	1	JAN	1615	66	295.	1	JAN	2230	91	148.
1	JAN	0400	17	0.	1	JAN	1015	42	68.	1	JAN	1630	67	280.	1	JAN	2245	92	147.
1	JAN	0415	18	0.	1	JAN	1030	43	93.	1	JAN	1645	68	270.	1	JAN	2300	93	146.
1	JAN	0430	19	0.	1	JAN	1045	44	125.	1	JAN	1700	69	262.	1	JAN	2315	94	145.
1	JAN	0445	20	0.	1	JAN	1100	45	169.	1	JAN	1715	70	255.	1	JAN	2330	95	143.
1	JAN	0500	21	0.	1	JAN	1115	46	235.	1	JAN	1730	71	247.	1	JAN	2345	96	141.
1	JAN	0515	22	0.	1	JAN	1130	47	336.	1	JAN	1745	72	240.	2	JAN	0000	97	140.
1	JAN	0530	23	0.	1	JAN	1145	48	929.	1	JAN	1800	73	233.	2	JAN	0015	98	109.
1	JAN	0545	24	0.	1	JAN	1200	49	3408.	1	JAN	1815	74	225.	2	JAN	0030	99	57.
1	JAN	0600	25	0.	1	JAN	1215	50	4980.	1	JAN	1830	75	218.	2	JAN	0045	100	17.

PEAK FLOW	TIME	6-HR	24-HR	72-HR	24.75-HR
4980.	12.25	1027.	317.	307.	307.
		2.292	2.826	2.826	2.826
		509.	628.	628.	628.
CUMULATIVE AREA =		4.17 SQ MI			

RUNOFF SUMMARY  
 FLOW IN CUBIC FEET PER SECOND  
 TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	4B	535.	12.25	104.	32.	31.	0.40
ROUTED TO	4R	557.	12.25	104.	32.	31.	0.40
HYDROGRAPH AT	5B	932.	12.00	167.	51.	50.	0.63
ROUTED TO	5R	942.	12.25	166.	51.	50.	0.63
HYDROGRAPH AT	3aB	560.	12.00	99.	30.	29.	0.43
HYDROGRAPH AT	3bB	599.	12.00	113.	35.	34.	0.45
4 COMBINED AT	3C	2547.	12.25	482.	149.	144.	1.90
ROUTED TO	3R	2655.	12.25	482.	149.	144.	1.90
HYDROGRAPH AT	6B	392.	12.00	65.	20.	20.	0.25
ROUTED TO	6R	363.	12.25	65.	20.	20.	0.25
HYDROGRAPH AT							

+		7bB	557.	12.00	71.	<sup>100yr.out</sup> 22.	21.	0.27
+	HYDROGRAPH AT	7aB	1066.	12.00	136.	42.	41.	0.57
+	3 COMBINED AT	7C	1958.	12.00	272.	84.	81.	1.09
+	ROUTED TO	7R	1655.	12.25	272.	84.	81.	1.09
+	HYDROGRAPH AT	2bB	233.	12.00	30.	9.	9.	0.13
+	HYDROGRAPH AT	2aB	880.	12.00	113.	35.	34.	0.49
+	4 COMBINED AT	2C	4808.	12.25	896.	276.	268.	3.61
+	ROUTED TO	2R	4519.	12.25	896.	276.	268.	3.61
+	HYDROGRAPH AT	1B	1032.	12.00	132.	41.	39.	0.56
+	2 COMBINED AT	1C	4980.	12.25	1027.	317.	307.	4.17
+	ROUTED TO	1C	4980.	12.25	1027.	317.	307.	4.17

\*\*\* NORMAL END OF HEC-1 \*\*\*