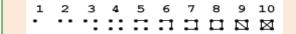
BENTHIC MACROINVERTEBRATES: Assess your macroinvertebrate collections by counting and identifying to the family-level if possible. Use the table to record your data.



The dot-dash tally method is a convenient way to record your data. Each dot or dash represents one tally.

Insect Groups

Patterned stoneflies	Winter stoneflies	Roach-like stonefly
Taxa Total	Taxa Total	Total
Giant stonefly	Brown stonefly	Spiny crawler mayfly
Total	Total	Total
Square-gilled mayfly	Minnow mayflies	Flatheaded mayfly
equate gilled maying	, minion mayines	Traineaded mayny
	IIIII	
Total	Taxa 1 Total 5	Total
Brush-legged mayfly	Burrowing mayflies	Net-spinning caddisflies
		III
Total	Taxa Total	Taxa 1 Total 3
Case-building caddisflies	Free-living caddisfly	Common netspinner
	1001 1001 1001 1001	1001-1001-1001-1001-1001-1001-1001
	1111 1111 1111	IIIII
Taxa Total	Total 20	Total 45
Dragonflies	Damselflies	Riffle beetle
		1001 1001 100
Taxa Total	Taxa Total	Total 14
Long-toed beetle	Water penny	Other beetles (true bugs)
Total	Total	Taxa Total
Hellgrammite/Fishfly	Alderfly	Aquatic moth
,		·
Total	Total	Total
Non-biting midge	Black fly	Crane fly
100 100 100 100 100 100 100 100 100 100		
100 100 100 100 100 100 10	IIII I	IIII
Total 77	Total	Total 4
Total 77	Total 6	Total 4

LEVEL-TWO SURVEY DATA SHEET

Watersnipe fly	Dance fly	Dixid midge				
	l l					
Total	Total 1	Total				
Net-wing midge	Horse fly	Other fly larva				
		'				
Total	Total	Taxa 1 Total 1				
Non-Insect Groups						
Crayfish	Scud/Sideswimmer	Aquatic sowbug				
	1001 1001 1001 1001 1001 1001 1001 100					
Total	Total 62	Total				
Water mite	Operculate snails	Non-operculate snails				
		'				
Total	Taxa Total	Taxa 1 Total 1				
Pea clam	Asian clam	Mussel				
Total	Total	Total				
Flatworms	Aquatic worms	Leeches				
П	1001 1001 1001 1001 1001 1					
Total 2	Total 31	Total				
Other aquatic invertebrates	Commente					
	Comments:					
		Total Taxa Total Number				
Taxa Total		14 272				
Describe other aquatic life (e.g. fish, amphibians) collected or observed, as well as other indications that the reach is being used by other animals (i.e. birds, mammals, reptiles).						
RAINBOW TROUT						

LEVEL-TWO BENTHIC ASSESSMENT

The SHADED boxes indicate that multiple families are possible; tolerance values are provided.

Mad	croinvertebrates	Totals	Tolerance score	Families	Macroinvertebrates		Totals	Tolerance score	Families
1	Patterned stoneflies				6	Aquatic moth			
2	Winter stoneflies				4	Riffle beetle	14	56	1
1	Roach-like stonefly				5	Long-toed beetle			
1	Giant stonefly				3	Water penny			
2	Little brown stonefly				5	Whirligig beetle			
3	Spiny crawler mayfly				7	Other beetles/bugs			
5	Square-gilled mayflies				3	Hellgrammite/Fishfly			
4	Minnow mayflies	5	20	1	6	Alderfly			
3	Flatheaded mayfly				9	Non-biting midge	77	693	1
3	Brush-legged mayfly				6	Black fly	6	36	1
5	Burrowing mayflies				5	Crane fly	4	20	1
4	Net-spinning caddisflies	3	12	1	3	Watersnipe fly			
3	Case-building caddisflies	1	3	1	6	Dance fly	1	6	1
5	Common netspinner	45	225	1	5	Dixid midge			
3	Free-living caddisfly	20	60	1	2	Net-wing midge			
4	Dragonflies				7	Horse fly			
7	Damselflies				8	Other fly larva	1	8	1
			N	on-Insect	Grou	ıps			
5	Crayfish				5	Pea clam			
5	Scud/Sideswimmer	62	310	1	6	Asian clam			
7	Aquatic sowbug				4	Mussel			
6	Water mite				5	Operculate snails			
10	Aquatic worms	31	310	1	7	Non-operculate snails	1	7	1
10	Leeches				Oth	er invertebrates			
7	Flatworms	2	14	1					
Com	plete your calculations using	Total	Total	Total				·	
	the metrics below. These metrics		Tolerance	Taxa		Comments:			
	combined to determine your all score and integrity rating.	273	1469	15	_				

Metrics	Results	Points	10	8	6	4	2
Total Taxa	15	8	> 18	18 - 15	14 - 11	10 - 7	< 7
2. EPT Taxa	5	6	> 10	10 - 8	7 - 5	4 - 2	< 2
3. Biotic Index	5.38	6	< 3.5	3.5 – 4.5	4.6 – 5.4	5.5 – 6.5	> 6.5
4. % EPT Abundance	27.1	2	> 80	80 - 70	69.9 - 60	59.9 - 40	< 40
5. % Tolerant	41.2	2	< 2	2 - 10	10.1 - 15	15.1 - 20	> 20
6. % Dominance	28.2	4	< 10	10 - 15	15.1 - 25	25.1 - 50	> 50

Stream Score

28

Integrity Rating

integrity reading			
> 48	48 - 36	35 - 24	< 24
Ontimal	Suboptimal	Marginal	Poor