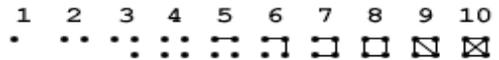


LEVEL-TWO SURVEY DATA SHEET

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

Note: Although streamside identification is possible, WV Save Our Streams Coordinator recommends preserving your samples using a full count or standard sub-sampling procedure in a well-lit and more comfortable setting.

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



Patterned stoneflies Taxa <input type="text"/> Total <input type="text"/>	Winter stoneflies Taxa <input type="text"/> Total <input type="text"/>	Roach-like stonefly Total <input type="text"/>
Giant stonefly Total <input type="text"/>	Brown stonefly Total <input type="text"/>	Spiny crawler mayfly Total <input type="text"/>
Square-gilled mayfly Total <input type="text"/>	Minnow mayflies Taxa <input type="text"/> Total <input type="text"/>	Flatheaded mayfly Total <input type="text"/>
Brush-legged mayfly Total <input type="text"/>	Burrowing mayflies Taxa <input type="text"/> Total <input type="text"/>	Net-spinning caddisflies Taxa <input type="text"/> Total <input type="text"/>
Case-building caddisflies Taxa <input type="text"/> Total <input type="text"/>	Free-living caddisfly Taxa <input type="text"/> Total <input type="text"/>	Common netspinner Taxa <input type="text"/> Total <input type="text"/>
Dragonflies Taxa <input type="text"/> Total <input type="text"/>	Damselflies Taxa <input type="text"/> Total <input type="text"/>	Riffle beetle Taxa <input type="text"/> Total <input type="text"/>
Long-toed beetle Total <input type="text"/>	Water penny Total <input type="text"/>	Other beetles (true bugs) Taxa <input type="text"/> Total <input type="text"/>
Hellgrammite/Fishfly Total <input type="text"/>	Alderfly Total <input type="text"/>	Aquatic moth Total <input type="text"/>
Non-biting midge Taxa <input type="text"/> Total <input type="text"/>	Black fly Taxa <input type="text"/> Total <input type="text"/>	Crane fly Taxa <input type="text"/> Total <input type="text"/>

LEVEL-TWO SURVEY DATA SHEET

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

Macroinvertebrates	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				4 Crane fly	4	16	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
Non-Insect Groups							
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				Other invertebrates			
7 Flatworms	2	14	1				
Complete your calculations using the metrics below. These metrics are combined to determine your overall score and integrity rating.	Total Number	Total Tolerance	Total Taxa	Comments: _____ _____			
	273	1466	15				

Metrics	Results	Points	10	8	6	4	2
1. 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	5.35	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	4	< 10	10 - 15	15.1 - 25	25.1 - 50	> 50
6. % Dominance	28.2	2	< 2	2 - 10	10.1 - 15	15.1 - 20	> 20
Stream Score	28	Integrity Rating					
		> 48	48 - 36	35 - 24	< 24		
		Optimal	Suboptimal	Marginal	Poor		