

Macroinvertebrate Pollution Tolerance Results

Directions: Input all of your data into column #1; if you have multiple samples, use the average for this chart. Multiply column #1 by column #2 to get the values for column #3.

Type	1 Total # collected	2 Pollution Tolerance Value	3 Total Tolerance Value
Mayflies		3.6	
Stoneflies		1	
Caddisflies: Common net-spinners (no case)		5	
Caddisflies: other		2.8	
Dragonflies		4	
Damselflies		7	
Dobsonflies		3	
Alderflies		4	
Beetles		4.6	
Cranefly		4.0	
Midges		6	
Black flies		6	
Scuds		6	
Aquatic pillbugs (sowbugs)		8	
Crayfish		5	
Aquatic worms		8	
Leeches		8	
Snails		7	
Fingernail clams		8	

Totals

Column #1: _____

Column #3: _____

Data for this chart are from the Stroud Water Research Center's Leaf Pack Network.

Divide: totals from column #3/totals from column #1= _____

This will give you a water quality number "score". Use the values below to understand more about your ecosystem.

Biotic Index	Water Quality	Degree of Organic Pollution
<3.75	Excellent	Unlikely
3.75-5	Good	Some pollution likely
5.1-6.5	Fair	Substantial pollution likely
6.6-10	Poor	Severe pollution likely

Optional: Abiotic data

Test	Equipment used (include brand & type such as "probe" or "titration")	Test 1	Test 2	Average
Water Temperature				
Dissolved Oxygen (mg/L)				
pH				
Nitrate-Nitrogen (mg/L)				
Phosphate as PO ₄ (mg/L)				
Turbidity				
Other:				