



Macroinvertebrate Data Sheet III

Pollution Tolerance Index

1. Place a check next to each macroinvertebrate group present in your sample. For example, whether you found one mayfly or fifty mayflies, place one check next to the mayfly line in Group 1.
2. Complete the chart for all of the macroinvertebrate groups.
3. Calculate the group scores using the multipliers provided.
4. Total all of the group scores for your Total Score.
5. Compare your Total Score with the Water Quality Assessment Chart scores and record the relative water quality rating for your stream sample.

Stream #: _____

Recorded by: _____

Date of Sampling: _____

| Group 1 Macroinvertebrates: Very Intolerant | Group 2 Macroinvertebrates: Intolerant | Group 3 Macroinvertebrates: Tolerant | Group 4 Macroinvertebrates: Very Tolerant |
|---|---|---|--|
| <input type="checkbox"/> Water Pennies <input type="checkbox"/> Stoneflies <input type="checkbox"/> Mayflies <input type="checkbox"/> Caddisflies <input type="checkbox"/> Dobsonflies <input type="checkbox"/> Riffle Beetles | <input type="checkbox"/> Crawling Water Beetles <input type="checkbox"/> Dragonflies <input type="checkbox"/> Backswimmers <input type="checkbox"/> Diving Beetle <input type="checkbox"/> Cray Fishes <input type="checkbox"/> Damselflies | <input type="checkbox"/> Clams/Mussels <input type="checkbox"/> Midges <input type="checkbox"/> Scud <input type="checkbox"/> Water Striders <input type="checkbox"/> Giant Water Bugs <input type="checkbox"/> Sow Bugs <input type="checkbox"/> Crane Flies | <input type="checkbox"/> Aquatic Worms <input type="checkbox"/> Pouch Snails <input type="checkbox"/> Tubifex worms <input type="checkbox"/> Flat Worms (planaria) <input type="checkbox"/> Mosquitoes <input type="checkbox"/> Black Flies <input type="checkbox"/> Leeches |
| # of checks = _____ x 4 Group Score = _____ | # of checks = _____ x 3 Group Score = _____ | # of checks = _____ x 2 Group Score = _____ | # of checks = _____ x 1 Group Score = _____ |
| Total Score = _____ Your Water Quality Assessment: | | Water Quality Assessment Chart: ≥23 Potentially Excellent Water Quality 17-22 Potentially Good Water Quality 11-16 Potentially Fair Water Quality ≤10 Potentially Poor Water Quality | |

(Adapted from Mitchell, 1997)