

JUDAY CREEK MACROINVERTEBRATE DATA: keep a tally of the number of each macroinvertebrate you collect.

| Group member names: | | | | |
|--|-----------|-----------------------------|-------------------------------|---------------------------------|
| Group 1 Pollution Intolerant | | | | |
| Habitat 1 | Habitat 2 | Common name | Class: Order | Functional feeding group |
| | | Stonefly nymph | Insecta: Plecoptera | Shredder |
| | | Caddisfly larva (in a tent) | Insecta: Tricoptera | Filtering collector |
| | | Caddisfly larva (in house) | Insecta: Tricoptera | Scraper (rock), Shredder (twig) |
| | | Water Penny | Insecta: Coleoptera | Grazer |
| | | Riffle Beetle | Insecta: Coleoptera | Gathering collector |
| | | Riffle Beetle Larva | Insecta: Coleoptera | Gathering collector |
| | | Mayfly nymph | Insecta: Ephemeroptera | Scraper |
| | | Gilled (right-handed) Snail | Gastropoda (Pylum Mollusca) | Scraper |
| | | Dobsonfly larva | Insecta: Megaloptera | Predator |
| | | | | |
| Group 2 Moderately Pollution Intolerant | | | | |
| Habitat 1 | Habitat 2 | Common name | Order | Functional feeding group |
| | | Crayfish | Crustacea: Decapoda | Scraper |
| | | Sowbug | Crustacea: Isopoda | Shredder |
| | | Scud | Crustacea: Amphipoda | Shredder |
| | | Damselfly nymph | Insecta: Odonata | Predator |
| | | Cranefly larva | Insecta: Diptera | Shredder |
| | | Dragonfly nymph | Insecta: Odonata | Predator |
| | | Clam | Bivalvia (Phylum Mollusca) | Filtering collector |
| | | | | |
| Group 3 Fairly Pollution Tolerant | | | | |
| Habitat 1 | Habitat 2 | Common name | Order | Functional feeding group |
| | | Midge fly larva | Insecta: Diptera | Gathering collector |
| | | Black fly larva | Insecta: Diptera | Filtering collector |
| | | Planaria | Tubularia (Phylum Flatworms) | Gathering collector |
| | | Leech | Hirudinea (Pylum Annelida) | Predator |
| | | | | |
| Group 4 Very Pollution Tolerant | | | | |
| Habitat 1 | Habitat 2 | Common name | Order | Functional feeding group |
| | | Left-handed snails | Gastropoda (Phylum Mollusca) | Scraper |
| | | Aquatic worms | Oligochaeta (Phylum Annelida) | Collector |
| | | Blood midge (red) | Insecta: Diptera | Gathering collector |
| | | | | |
| Use your raw data to calculate the two indices below: | | | | |
| POLLUTION TOLERANCE ANALYSIS (# of "species" observed, not count) | | | | |
| # of Group 1 Intolerant Species* | | | x 4 | |
| # of Group 2 Moderate Species | | | x 3 | |
| # of Group 3 Tolerant Species | | | x 2 | |
| # of Group 4 Very Tolerant Species | | | x 1 | |
| Pollution Tolerance Index (total) = _____ | | | | |
| Excellent = 23 and above, Good = 17-22, Fair = 11-16, Poor = 10 or below | | | | |