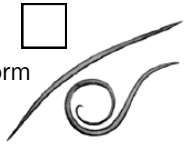
Invertebrate Collection

Check off your catches!

Group A: These organisms live in a wide range of conditions and are pollution tolerant. Their dominance generally signifies POOR WATER QUALITY.

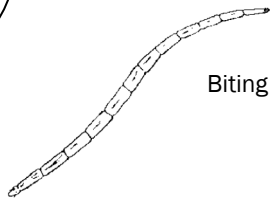
Group Index Value **1**

☐ Aquatic Worm

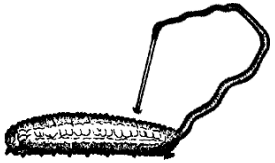


☐ Midget

☐ Biting midge



☐ Rattailed maggot

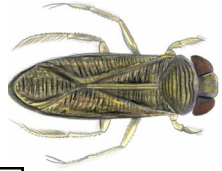


Group B: These organisms live in a wide range of conditions and are somewhat pollution tolerant. Their dominance generally signifies FAIR WATER QUALITY.

Group Index Value **2**

☐ Leech

☐ Water boatman



☐ Water strider

☐ Water flea

☐ Backswimmer

☐ Snail

☐ Water mite

☐ Phantom Midge

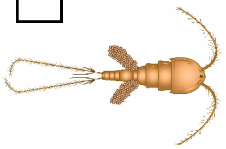
Group C: These organisms live in a wider range of conditions and are somewhat pollution intolerant. Their dominance generally signifies MODERATELY GOOD WATER QUALITY.

Group Index Value **3**

☐ Damselfly nymph

☐ Sideswimmer

☐ Dragonfly nymph



☐ Whirligig beetle

Copepod

☐ Water tiger

Group D: These organisms are generally pollution intolerant. Their dominance generally signifies GOOD WATER QUALITY.

Group Index Value **4**

☐ Caddisfly larvae

☐ Mayfly nymph

Biological Value

INVERTEBRATES

We can use invertebrates to tell us more about water quality.

Certain invertebrates can survive in more polluted water, while some require very clean water.

Follow these instructions to find out how healthy our water is.

1. Take the totals from the previous pages for each of the groups (A,B,C & D). Record these numbers on the table.
2. Multiply the number of invertebrates present with the group index value. Record these numbers on the right hand column of the table.
3. Find the cumulative index value by adding together the three individual group values. Record this number on the Biotic Index table.
4. Compare this cumulative value with the Water Quality Assessment Scale.

Biotic Index Table

Group	**Number of different insects present (I)**	**Group Index Value (II)**	**(I) x (II)**
A		1	
B		2	
C		3	
D		4	
		Cumulative Index Value	
		Water Quality	

Water Quality Assessment Scale:

Excellent	Above 22
Good	22-17
Fair	16-11
Poor	Below 11