





Biotic Index Data Sheet









Reproduce for use








Date: _____ Investigator Names: _____

Time: _____ AM/PM Leaf Pack Location: _____

1

Group 1: Sensitive	
<input type="checkbox"/>	Stoneflies 
<input type="checkbox"/>	Mayflies 
<input type="checkbox"/>	Other Caddisflies 
<input type="checkbox"/>	Dobsonflies, Fishflies, and Alderflies 
<input type="checkbox"/>	Riffle Beetle Larvae/ Adults 
<input type="checkbox"/>	Water Pennies 
<input type="checkbox"/>	Right-Handed/ Gilled Snails 
<input type="checkbox"/>	Aquatic Snipe Flies 
<input type="checkbox"/>	Number of TAXA

Group 2: Somewhat Sensitive	
<input type="checkbox"/>	Damselflies 
<input type="checkbox"/>	Dragonflies 
<input type="checkbox"/>	Sowbugs 
<input type="checkbox"/>	Scuds 
<input type="checkbox"/>	Crane Flies 
<input type="checkbox"/>	Clams/Mussels 
<input type="checkbox"/>	Crayfish 
<input type="checkbox"/>	Net-Spinning Caddisflies 
<input type="checkbox"/>	Number of TAXA

Group 3: Tolerant	
<input type="checkbox"/>	Midge Flies 
<input type="checkbox"/>	Black Flies 
<input type="checkbox"/>	Planarians 
<input type="checkbox"/>	Leeches 
<input type="checkbox"/>	Left-Handed/ Lunged Snails 
<input type="checkbox"/>	Aquatic Worms 
<input type="checkbox"/>	Rat-Tailed Maggots 
<input type="checkbox"/>	Number of TAXA

2

Sum of All Individuals
[Add the values from all boxes next to the taxa names]

3

4

Number of TAXA x 3 = INDEX VALUE

Number of TAXA x 2 = INDEX VALUE

Number of TAXA x 1 = INDEX VALUE

5

Pollution Tolerance Index (PTI) Score
[Add the three Index Values]

Calculating the Biotic Index

Sort the macroinvertebrates into taxa groups.

- Count the number of individual macroinvertebrates for each taxa. Record the quantity in the box to the left of the taxa name.
- Determine the **Sum of All Individuals** by adding the numbers in the boxes next to all of the the taxa names. Record the total in the **Sum of All Individuals** box on the far right.
- Count how many boxes in each sensitivity group column have a quantity entered. (Group 1 and Group 2: maximum 8, Group 3: maximum 7). Enter the **Number of TAXA** in the box at the bottom of each column.
- Multiply the **Number of TAXA** by the weighting factor [3, 2 or 1] at the bottom of the column to obtain the **Index Value** for each Sensitivity Group.
- Add the **Index Values** for the three groups to determine the **Pollution Tolerance Index (PTI) Score**. Enter the **PTI Score** in the box.
- Determine the **Pollution Tolerance Index Rating** from the PTI Score.

6

POLLUTION TOLERANCE INDEX RATING

23 or more	Excellent	<input type="checkbox"/>
17-22	Good	<input type="checkbox"/>
11-16	Fair	<input type="checkbox"/>
10 or less	Poor	<input type="checkbox"/>