

Hoosier Riverwatch Biological Monitoring Data Sheet

Date: ____/____/____ Volunteer ID: _____ Site ID: _____
 Stream Name: _____ Latitude: _____ Longitude: _____
 Time ____:____ AM / PM Time Sampling: _____ hrs Air Temp.: _____ °C
 Current Weather: Clear/Sunny Overcast Showers Rain (steady) Storm (Heavy)
 Worst Weather (past 48 hours): Clear/Sunny Overcast Showers Rain (steady) Storm (Heavy)
 Check Methods Used: Kick Seine Net (3 times) Dip Net (20 jabs or scoops)
 Check Habitats Sampled: Undercut Banks Riffles Leaf Packs Snags/Vegetation Sediment

Pollution Tolerance Index (PTI)

Record the taxa (group) represented in your sampling by either entering the number of organisms you counted or a ✓

<input type="checkbox"/> Stonefly nymph	<input type="checkbox"/> Damselfly nymph	<input type="checkbox"/> Leech	<input type="checkbox"/> Aquatic worm
<input type="checkbox"/> Mayfly nymph	<input type="checkbox"/> Dragonfly nymph	<input type="checkbox"/> Midge larva	<input type="checkbox"/> Blood midge larva (red)
<input type="checkbox"/> Caddisfly larva	<input type="checkbox"/> Scud	<input type="checkbox"/> Planaria/ Flatworm	<input type="checkbox"/> Rat-tailed Maggot
<input type="checkbox"/> Riffle Beetle	<input type="checkbox"/> Sowbug	<input type="checkbox"/> Black fly larva	<input type="checkbox"/> Left-Handed or Pouch snail
<input type="checkbox"/> Dobsonfly Larva	<input type="checkbox"/> Cranefly larva		
<input type="checkbox"/> Right-Handed or Gilled snail	<input type="checkbox"/> Clam/Mussel		
<input type="checkbox"/> Water Penny	<input type="checkbox"/> Crayfish		
<input type="checkbox"/> # of TAXA represented	<input type="checkbox"/> # of TAXA represented	<input type="checkbox"/> # of TAXA represented	<input type="checkbox"/> # of TAXA represented
<input type="checkbox"/> Weighting Factor (x4)	<input type="checkbox"/> Weighting Factor (x3)	<input type="checkbox"/> Weighting Factor (x2)	<input type="checkbox"/> Weighting Factor (x1)

Pollution Tolerance Index Rating

(Add the final index values for each group)

PTI Ratings	
Excellent	23 or More
Good	17 - 22
Fair	11 - 16
Poor	10 or Less

Please check other Biological Indicators you observed:

Native Mussels Zebra Mussels Rusty Crayfish Aquatic Plants _____ % Algae Cover _____ Diversity Index

Hoosier Riverwatch Biological Monitoring Data Sheet

Date: 10/04/2009 Volunteer ID: 1000 Site ID: 1000 Longitude: - 85.76369
 Stream Name: Example Stream Indiana Latitude: 40.76054
 Time: 12:15 AM / PM Air Temp.: 29.5 °C
 Current Weather: Clear/Sunny Overcast Showers Rain (steady) Storm (Heavy)
 Worst Weather (past 48 hours): Clear/Sunny Overcast Showers Rain (steady) Storm (Heavy)
 Check Methods Used: Kick Seine Net (3 times) Dip Net (20 jabs or scoops)
 Check Habitats Sampled: Undercut Banks Riffles Leaf Packs Logs/Vegetation Sediment

Pollution Tolerance Index (PTI)

Record the taxa (group) represented in your sampling by either entering the number of organisms you counted or a ✓

Group 1 - Intolerant	Group 2 - Moderately Intolerant	Group 3 - Fairly Tolerant	Group 4 - Very Tolerant
<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <p>6 </p> <p>5 </p> <p>10 </p> <p></p> <p></p> <p></p> <p>30 </p> </div> <div style="width: 20%;"> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p>2 </p> </div> <div style="width: 20%;"> <p></p> <p>Midge larva</p> <p>Planaria/Flatworm</p> <p>Black fly larva</p> </div> <div style="width: 20%;"> <p>25 </p> <p></p> <p></p> <p>1 </p> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <p>15</p> </div> <div style="width: 20%;"> <p>>100</p> </div> <div style="width: 20%;"> <p>16</p> </div> <div style="width: 20%;"> <p>2</p> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <p>2</p> </div> <div style="width: 20%;"> <p>4</p> </div> <div style="width: 20%;"> <p>2</p> </div> <div style="width: 20%;"> <p>2</p> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <p>4</p> </div> <div style="width: 20%;"> <p>16</p> </div> <div style="width: 20%;"> <p>2</p> </div> <div style="width: 20%;"> <p>2</p> </div> </div>
# of TAXA represented	# of TAXA represented	# of TAXA represented	# of TAXA represented
Weighting Factor (x4)	Weighting Factor (x3)	Weighting Factor (x2)	Weighting Factor (x1)
16	6	4	2

PTI Ratings
Excellent 23 or More
Good 17 - 22
Fair 11 - 16
Poor 10 or Less

28

Pollution Tolerance Index Rating

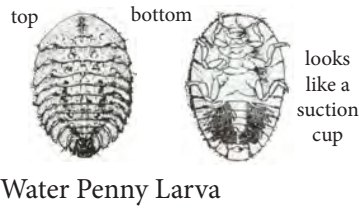
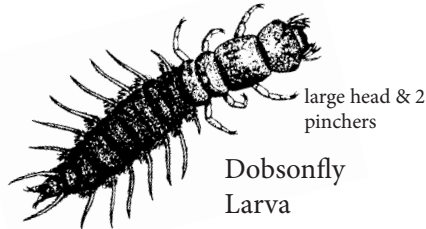
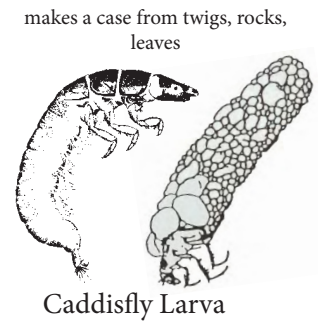
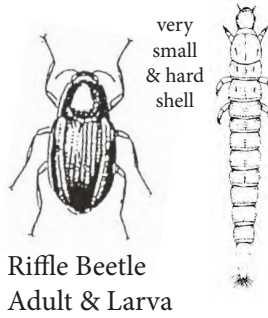
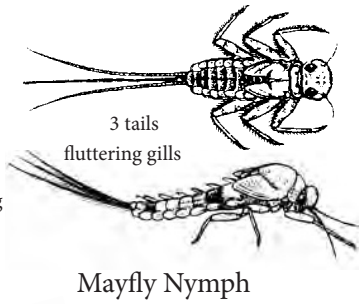
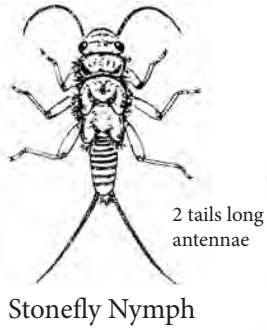
(Add the final index values for each group)

Please check other Biological Indicators you observed:

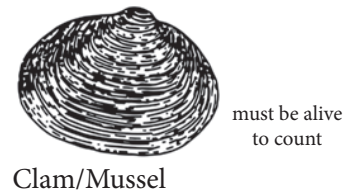
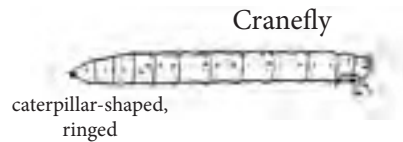
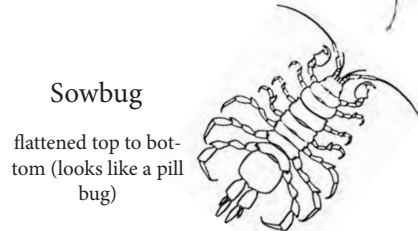
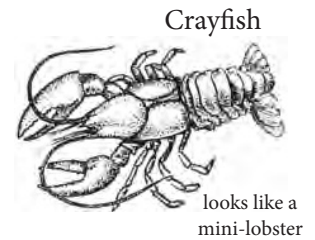
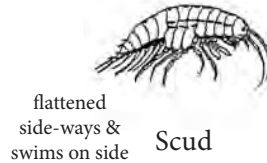
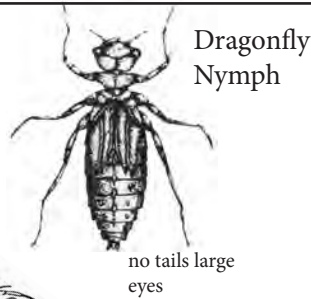
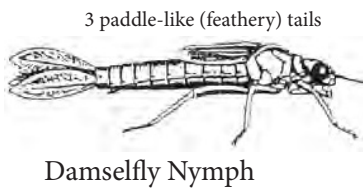
Native Mussels Zebra Mussels Rusty Crayfish Aquatic Plants % Algae Cover Diversity Index

Macroinvertebrate Identification Key

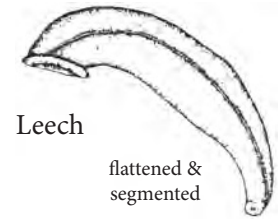
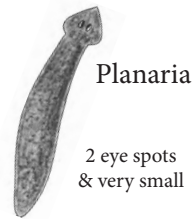
GROUP 1 – Very Intolerant of Pollution



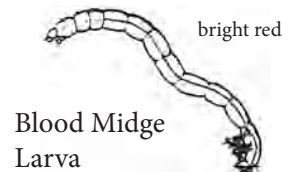
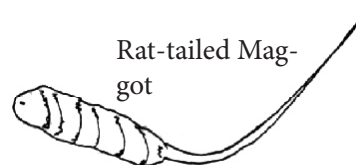
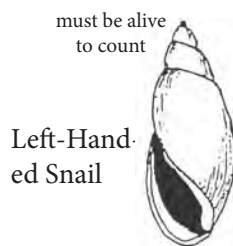
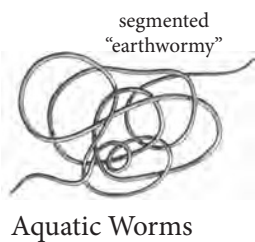
GROUP 2 – Moderately Intolerant of Pollution



GROUP 3 – Fairly Tolerant of Pollution



GROUP 4 – Very Tolerant of Pollution



Macroinvertebrate Adults Key

GROUP 1 – Young are Very Intolerant of Pollution



Stonefly Adult



Mayfly Adult



Riffle Beetle Adult



Caddisfly Adult



Dobsonfly Adult



Water Penny Adult



Right-Handed Snail

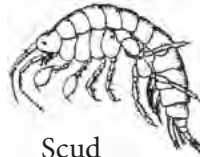
GROUP 2 – Young are Moderately Intolerant of Pollution



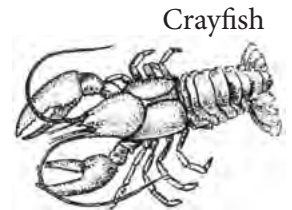
Damselfly Adult



Dragonfly Adult



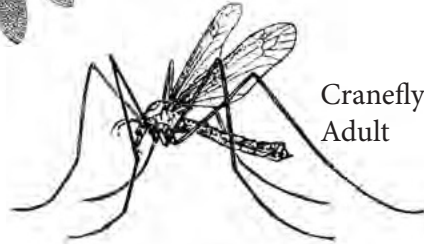
Scud



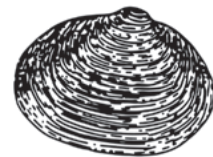
Crayfish



Sowbug



Crane fly Adult



Clam/Mussel

GROUP 3 – Young are Fairly Tolerant of Pollution



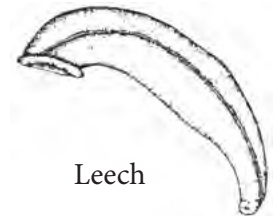
Midge Adult



Planaria



Black Fly Adult



Leech

GROUP 4 – Young are Very Tolerant of Pollution



Aquatic Worms



Left-Handed Snail



Hoverfly (Rat-tailed maggot adult)



Blood Midge Adult