















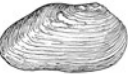









## Macroinvertebrate Assessment

Investigators:	Date and Time:
Town:	Site Name:

<b>Location</b>	
County:	
River/Stream name:	
Watershed name:	
Area sketch:	
Weather in the last 24 hours:	Weather Now:
<input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Showers (intermittent rain) <input type="checkbox"/> Snow <input type="checkbox"/> Overcast <input type="checkbox"/> Clear/Sunny	<input type="checkbox"/> Storm (heavy rain) <input type="checkbox"/> Rain (steady rain) <input type="checkbox"/> Showers (intermittent rain) <input type="checkbox"/> Snow <input type="checkbox"/> Overcast <input type="checkbox"/> Clear/Sunny

### Waterbug Assessment Field Sheet-Part A

Group I: Sensitive	<b>Caddisfly larvae</b> (except net spinners)  Total Count _____ Abundance Code: R C D	<b>Mayfly larvae</b>  Total Count _____ Abundance Code: R C D	<b>Stonefly larvae</b>  Total Count _____ Abundance Code: R C D	<b>Water snipe fly larvae</b>  Total Count _____ Abundance Code: R C D	<b>Water pennies</b>  Total Count _____ Abundance Code: R C D	<b>Gilled snails</b>  Total Count _____ Abundance Code: R C D	<b>Riffle Beetles</b>  Total Count _____ Abundance Code: R C D							
	Group II: Moderately Sensitive	<b>Dragonfly larvae</b>  Total Count _____ Abundance Code: R C D	<b>Damselfly larvae</b>  Total Count _____ Abundance Code: R C D	<b>Sowbugs</b>  Total Count _____ Abundance Code: R C D	<b>Alderfly larvae</b>  Total Count _____ Abundance Code: R C D	<b>Fishfly and Dobsonfly larvae</b>  Total Count _____ Abundance Code:	<b>Scuds</b>  Total Count _____ Abundance Code: R C D	<b>Beetle Larvae</b>  Total Count _____ Abundance Code: R C D						
Group III: Tolerant		<b>Crayfish</b>  Total Count _____ Abundance Code: R C D	<b>Clams</b>  Total Count _____ Abundance Code: R C D	<b>Mussels</b>  Total Count _____ Abundance Code: R C D	<b>Cranefly larvae</b>  Total Count _____ Abundance Code: R C D	<b>Net-spinning caddisfly larvae</b>  Total Count _____ Abundance Code:	<h3>Instructions</h3> <p>For each kind of organism you collect:</p> <ol style="list-style-type: none"> <li>1. Check the box next to its name.</li> <li>2. Count (or estimate) the number of individuals of this kind and enter this number in the "Total Count" space.</li> <li>3. Circle Abundance Code R, C, or D for this kind.</li> </ol> <h3>Abundance Codes</h3> <table> <tr> <td>1 to 9 organisms:</td> <td>10 to 99 organisms:</td> <td>over 100 organisms:</td> </tr> <tr> <td>Rare (R)</td> <td>Common (C)</td> <td>Dominant (D)</td> </tr> </table>		1 to 9 organisms:	10 to 99 organisms:	over 100 organisms:	Rare (R)	Common (C)	Dominant (D)
		1 to 9 organisms:	10 to 99 organisms:	over 100 organisms:										
	Rare (R)	Common (C)	Dominant (D)											
	<b>Aquatic worms</b>  Total Count _____ Abundance Code: R C D	<b>Blackfly larvae</b>  Total Count _____ Abundance Code:	<b>Midge larvae</b>  Total Count _____ Abundance Code:	<b>Leeches</b>  Total Count _____ Abundance Code:	<b>Lunged snails</b>  Total Count _____ Abundance Code:	<p>Copyright 2016, University of New Hampshire, Cooperative Extension, Sarah Grosvenor</p> <p>Sampling 12</p>								

### Waterbugs Assessment Field Sheet: Part B

1. Calculate the Index Value for each Group of Macroinvertebrates.

#### **SENSITIVE: First Row animals**

How many R's did you find in this group: \_\_\_\_\_ X 5 = \_\_\_\_\_

How many C's did you find in this group: \_\_\_\_\_ X 5.6 = \_\_\_\_\_

How many D's did you find in this group: \_\_\_\_\_ X 5.3 = \_\_\_\_\_

**Total** = \_\_\_\_\_

*Add the three totals together and to get your water quality score.*

#### **Moderately Sensitive: Middle Two Row animals**

How many R's did you find in this group: \_\_\_\_\_ X 3.2 = \_\_\_\_\_

How many C's did you find in this group: \_\_\_\_\_ X 3.4 = \_\_\_\_\_

How many D's did you find in this group: \_\_\_\_\_ X 3.0 = \_\_\_\_\_

**Total** = \_\_\_\_\_

#### **Tolerant: Last Row animals**

How many R's did you find in this group: \_\_\_\_\_ X 1.2 = \_\_\_\_\_

How many C's did you find in this group: \_\_\_\_\_ X 1.1 = \_\_\_\_\_

How many D's did you find in this group: \_\_\_\_\_ X 1.0 = \_\_\_\_\_

**Total** = \_\_\_\_\_

**Total from all 3 Rows =** \_\_\_\_\_

**Water Quality Scores:**

**41+ Excellent**

**31-40 Good to Very Good**

**21-30 Fair**

**0-20 Poor**