



# Riffle Bioassessment by Volunteers (RBV) Field Datasheet

For DEEP Staff Use:

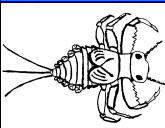
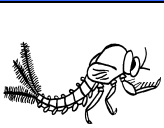
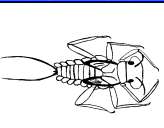
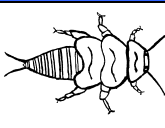
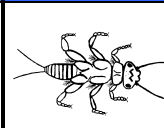
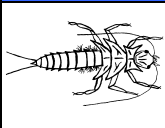
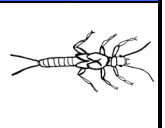
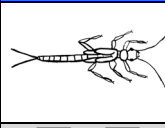
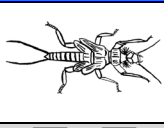
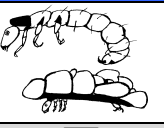
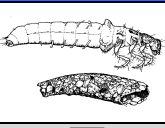
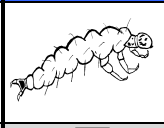
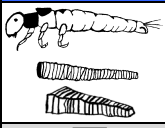
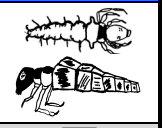


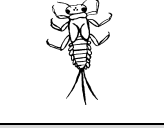
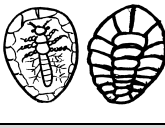
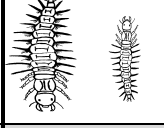
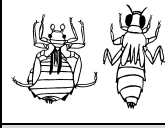
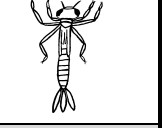



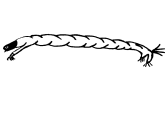


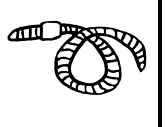
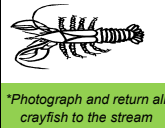
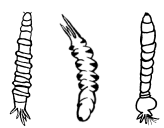

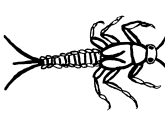
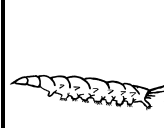
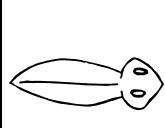

Sample ID: \_\_\_\_\_

AWQ: \_\_\_\_\_ Group ID: \_\_\_\_\_

**PLEASE MAKE SURE ALL SECTIONS BELOW ARE COMPLETE BEFORE RETURNING TO YOUR LOCAL RBV COORDINATOR**

Stream Name:	Latitude:	Longitude:	Stand In the Stream and Take a Photo: <input type="checkbox"/> Facing Upstream <input type="checkbox"/> Facing Downstream
Description of Sample Location (i.e. '100m downstream of Route 44 crossing'):			Collection Date:
Town:	Collectors' Names (First Initial and Last Name):	Organization Responsible for Volunteers:	

**DIRECTIONS:** RBV is a treasure hunt for healthy waters in Connecticut. Your goal is to use the RBV method to evaluate the water quality of an assigned stream segment. Check off each type of macroinvertebrate you find in your sample and then place 2-3 of each into the provided voucher container. Make sure to complete the top of this data sheet and include a matching label inside your voucher! (\*\*Drawings are NOT to scale!\*\*)

<b>MOST WANTED</b> (Most Sensitive to Pollution)	<b>1</b> "Body-Builder" Mayfly Ephemerelellidae (* <i>Drunella</i> spp.)	<b>2</b> Brush-Legged Mayfly Isonychidae	<b>3</b> 2-Tail Flathead Mayfly Heptageniidae (* <i>Epeorus</i> spp.)	<b>4</b> Roach-Like Stonefly Peltoperlidae	<b>5A</b> Common Stonefly Perlidae	<b>5 B</b> Giant Stonefly Pteronarcyidae	<b>5C-1 and 5C-2</b> Small Stoneflies Perlodidae / Chloroperlidae
							
<b>MOST WANTED</b> (Most Sensitive to Pollution)	<b>5C-3 and 5C-4</b> Small Stoneflies Capniidae / Leuctridae	<b>5C-5 and 5C-6</b> Small Stoneflies Taeniopterygidae/ Nemouridae	<b>6A</b> Saddle-Case Caddis Glossosomatidae	<b>6 B</b> Cornucopia Case Caddis Apataniidae	<b>7</b> Free-Living Caddis Rhyacophilidae	<b>8A</b> Humpless Caddis Brachycentridae	<b>8 B</b> Plant Case Caddis Lepidostomatidae
							
<b>MODERATELY</b> (Moderately Sensitive to Pollution)	<b>9</b> Common Netspinner Hydropsychidae	<b>10</b> Fingernet Caddis Philopotamidae	<b>11</b> 3-Tail Flat Head Mayfly Heptageniidae	<b>12</b> Water Penny Psephenidae	<b>13</b> Dobsonfly/Fishfly Corydalidae	<b>14A</b> Dragonfly Anisoptera	<b>14B</b> Damselfly Zygoptera
							
<b>LEAST WANTED</b> (Least Sensitive to Pollution)	<b>15</b> Scud Amphipoda	<b>16</b> Aquatic Sow Bug Isopoda	<b>17</b> Leech Hirudinea/Citellata	<b>18</b> Non-Biting Midge Chironimidae	<b>19</b> Black Fly Simuliidae	<b>20</b> Snail / Limpet Gastropoda	<b>21</b> Aquatic Worm Oligochaeta
							
<b>OTHERS</b>	<b>22</b> Crayfish Decapoda	<b>23</b> Crane Fly Tipulidae	<b>24</b> Riffle Beetle Elmidae	<b>25</b> Small Minnow Mayfly Baetidae	<b>26</b> Aquatic Snipe Fly Athericidae	<b>27</b> Flatworm Planariidae	<b>28</b> Mussel/Clam Bivalvia
	 <i>*Photograph and return all crayfish to the stream</i>						 <i>*Submit only EMPTY shells; do not disturb LIVE mussels</i>

Additional Volunteer Comments:

# MOST Wanted Taxa: \_\_\_\_\_ # MODERATELY Wanted Taxa: \_\_\_\_\_ # LEAST Wanted Taxa: \_\_\_\_\_ # OTHER Taxa: \_\_\_\_\_

How Healthy is Your Site? The more 'Most Wanted' types you can find, the healthier the stream is likely to be. If you can find 4 or more 'Most Wanted' types, you have found the treasure: this site is a Healthy Water! \*\*NOTE: Not all streams will have 4 'most wanted' types, that's ok!