|  |  |
| --- | --- |
| **Aquatic Earthworms and other Worms** 1/4” - 2”, can be very tiny; thin worm-like body. Tubifex worms shown.  | http://www.iub.edu/%7Ebradwood/eagles/images/pic23.gif |

|  |  |
| --- | --- |
| **http://www.iub.edu/%7Ebradwood/eagles/images/pic18.gif** | **Blackfly Larva** Up to 1/4”, one end of body wider; black head, suction pad on end. |

|  |  |
| --- | --- |
| **Midge Fly Larva** Up to 1/4”, dark head, worm-like segmented body, 2 tiny legs on each side. Bright red or green body. Red ones also called bloodworms. | http://www.iub.edu/%7Ebradwood/eagles/images/pic17.gif |
| http://www.iub.edu/%7Ebradwood/eagles/images/pic02.gif | **Leech** 1/4” - 2”, brown, slimy body, ends with suction pads.  |

|  |  |
| --- | --- |
| **Other Snails** No operculum (hard end cover), breathe air; snail shell coils in one plane | http://www.iub.edu/%7Ebradwood/eagles/images/pic15.gif |
| http://www.iub.edu/%7Ebradwood/eagles/images/pic14.gif | **Pouch Snail and Pond Snail** No operculum (hard end cover). Breathe air; shell usually opens on left.  |

|  |  |
| --- | --- |
| **Rat-tailed Maggot** 1/4” to 1”; the The body is covered with fine hairs and is wrinkled. The long tube is used to breathe. | http://www.iub.edu/%7Ebradwood/eagles/images/pic19.gif |
|

|  |
| --- |
| http://www.iub.edu/%7Ebradwood/eagles/images/pic21.gif |
| http://www.iub.edu/%7Ebradwood/eagles/images/pic22.gif |

 | **Mosquito Larva** **and Pupa** Fused segments makes the thorax thicker than the rest of body. They feed on algae and other bits of organic debris. Larva (top) pupa (bottom)  |

**Two Point Critters** Somewhat pollution tolerant organisms can be in good to fair quality water

|  |  |
| --- | --- |
| **Crayfish** Up to 6”, 2 large claws, 8 legs, resembles small lobster | http://www.iub.edu/%7Ebradwood/eagles/images/pic05.gif |
| http://www.iub.edu/%7Ebradwood/eagles/images/pic07.gif | **Damselfly Larva** 1/2” - 1”, large eyes, 6 thin hooked legs, 3 broad oar-shaped tails, positioned like a tripod. Smooth (no gills ) on sides of lower half of body.  |

|  |  |
| --- | --- |
| **Fingernail Clam** Small | http://www.iub.edu/%7Ebradwood/eagles/images/pic01.gif |
| http://www.iub.edu/%7Ebradwood/eagles/images/pic16.gif | **Crane Fly Larva** 1/3” -2”, milky green or light brown, plump caterpillar-like segmented body, 4 finger-like lobes at back end. |

|  |  |
| --- | --- |
| **Scud** 1/4”, white to gray, body higher than it is wide, swims sideways, more than 6 legs, resembles small shrimp. | http://www.iub.edu/%7Ebradwood/eagles/images/pic04.gif |
| http://www.iub.edu/%7Ebradwood/eagles/images/pic06.gif | **Dragon Fly Larva** 1/2” -2”, large eyes, 6 hooked legs; wide oval to round abdomen.  |

|  |  |
| --- | --- |
| **Alderfly larva** 1” long; looks like small hellgrammite but has 1 long, thin, beached tail at back end (no hooks). No gill tufts underneath. | http://www.iub.edu/%7Ebradwood/eagles/images/pic12.gif |
| http://www.iub.edu/%7Ebradwood/eagles/images/pic10.gif | **Fishfly larva** Up to 1 1/2” long; looks like small hellgrammite, but often a lighter reddish-tan color, or with yellowish streaks. No gill tufts underneath. |

|  |  |  |
| --- | --- | --- |
| **Sowbug** 1/4”-3/4”, gray oblong body wider than it is high, more than 6 legs, long antennae. | http://www.iub.edu/%7Ebradwood/eagles/images/pic20.gif | http://www.iub.edu/%7Ebradwood/eagles/images/pic03.gif |

Three Point Critters Pollution sensitive organisms found in good quality water.

|  |  |
| --- | --- |
| **Stonefly Larva** 1/2” - 1 1/2”, 6 legs with hooked tips, antennae, 2 hair-like tails. Smooth (no gills) on lower half of body. | http://www.iub.edu/%7Ebradwood/eagles/images/pic08.gif |
| http://www.iub.edu/%7Ebradwood/eagles/images/pic09.gif | **Mayfly Larva** 1/4” -1”, brown, moving, plate-like or feathery gills on sides of lower body, 6 large hooked legs, antennae, 2 or 3 long, hair-like tails. Tails may be webbed together. |

|  |  |
| --- | --- |
| **Dobsonfly Larva (Hellgrammite)** 3/4” - 4”, dark-colored, 6 legs, large pinching jaws, eight pairs feelers on lower half of body with paired cotton-like gill tufts along underside, short antennae, 2 tails and 2 pairs of hooks at back end. | http://www.iub.edu/%7Ebradwood/eagles/images/pic11.gif |
| **Caddisfly Larva** Up to 1”; 6 hooked legs on upper third of body, 2 hooks at back end. May be in a stick, rock or leaf case with its head sticking out. May have fluffy gills tufts on lower half. | http://www.iub.edu/%7Ebradwood/eagles/images/pic13.gif |



|  |  |
| --- | --- |
| **Water Penny** 1/4” flat saucer-shaped body with a raised bump on one side and 6 tiny legs on the other side. Immature beetle. | http://www.iub.edu/%7Ebradwood/eagles/images/wtrpenny.gif |
| http://www.iub.edu/%7Ebradwood/eagles/images/pic26.gif | **Gilled Snail** Shell opening covered by thin plate called operculum. Shell usually opens on right. |

|  |  |
| --- | --- |
| **Riffle Beetle** 1/4” oval body covered with tiny hairs, 6 legs, antennae. Walks slowly underwater, does not swim on surface. | http://www.iub.edu/%7Ebradwood/eagles/images/pic27.gif |