

**AUDUBON NATURALIST SOCIETY**  
**TAXONOMIC LISTING OF BENTHOS**  
**Classification of Important Freshwater Benthic Macroinvertebrates in Maryland/DC**  
**June 5, 2019**

| PHYLUM/<br>Class/Order/Suborder | FAMILY          | COMMON NAME   | TOTAL |
|---------------------------------|-----------------|---|-------|
| <b>ANNELIDA</b>                 |                 |   |       |
| <i>Hirudinea</i>                | Erpobdellidae   | Leeches (cylindrical)   |       |
|                                 | Glossiphoniidae | Leeches (flat, wide at end)   |       |
| <i>Oligochaeta</i>              | Lumbriculidae   | Aquatic worms   |       |
| <b>PLATYHELMINTHES</b>          | Dugesiiidae     | Planarians, flatworms   |       |
| <b>MOLLUSCA</b>                 |                 |   |       |
| <i>Bivalvia</i>                 | Corbiculidae    | Asian clams   |       |
|                                 | Sphaeriidae     | Fingernail clams  |       |
|                                 | Unionidae       | Freshwater mussels  |       |
| <i>Gastropoda</i>               | Ancylidae       | Limpets (low, flat cones)   |       |
|                                 | Lymnaeidae      | River/pond snails (right)   |       |
|                                 | Physidae        | Pouch snails (left opening)   |       |
|                                 | Planorbidae     | Wheel or orb snails   |       |
| <i>Send in to verify</i>        |                 | Operculate snails   |       |
| <b>ARTHROPODA</b>               |                 |   |       |
| <i>Malacostraca</i>             |                 |   |       |
| <b>Amphipoda</b>                | Gammaridae      | Scuds   |       |
| <b>Isopoda</b>                  | Asellidae       | Aquatic sowbugs   |       |
| <b>Decapoda</b>                 | Cambaridae      | Crayfish  |       |
| <i>Insecta</i>                  |                 |   |       |
| <b>Coleoptera</b>               |                 | <b>Aquatic Beetles</b>  |       |
|                                 | Dryopidae       | Long-toed water beetles   |       |
|                                 | Dytiscidae      | Predaceous diving beetles   |       |
|                                 | Elmidae         | Riffle beetles:<br>Genus not identified<br>Genus <i>Ancyronyx</i><br>Genus <i>Macronychus</i><br>Genus <i>Stenelmis</i> |       |
|                                 | Gyrinidae       | Whirligig beetles   |       |
|                                 | Haliplidae      | Crawling water beetles  |       |
|                                 | Hydrophilidae   | Water scavenger beetles   |       |
|                                 | Psephenidae     | Water pennies   |       |
|                                 | Ptilodactylidae | Ptilodactylid beetles   |       |

| PHYLUM/<br>Class/Order/Suborder | FAMILY            | COMMON NAME  | TOTAL |
|---------------------------------|-------------------|--|-------|
| <b>Diptera</b>                  |                   | <b>True Flies</b>  |       |
| <i>Send in to verify</i>        | Athericidae       | Watersnipe flies   |       |
| <i>Send in to verify</i>        | Ceratopogonidae   | Biting midges  |       |
|                                 | Chironomidae      | Midges   |       |
|                                 | Culicidae         | Mosquitoes   |       |
| <i>Send in to verify</i>        | Dixidae           | Dixid midges   |       |
| <i>Send in to verify</i>        | Empididae         | Aquatic dance flies  |       |
|                                 | Simuliidae        | Black flies  |       |
|                                 | Tabanidae         | Horse/deer flies   |       |
|                                 | Tipulidae         | Crane flies:<br>Genus not identified<br>Genus <i>Antocha</i><br>Genus <i>Dicranota</i><br>Genus <i>Hexatoma</i><br>Genus <i>Tipula</i> |       |
|                                 |                   |  |       |
| <b>Trichoptera</b>              |                   | <b>Caddisflies (CF)</b>  |       |
|                                 | Brachycentridae   | Humpless case maker CF   |       |
|                                 | Glossosomatidae   | Saddlecase maker CF  |       |
|                                 | Hydropsychidae    | Common netspinner CF   |       |
|                                 | Hydroptilidae     | Micro Caddisflies  |       |
|                                 | Lepidostomatidae  | Lepidostomatid Case Makers   |       |
|                                 | Leptoceridae      | Longhorned case maker CF   |       |
|                                 | Limnephilidae     | Northern case maker CF   |       |
| <i>Send in to verify</i>        | Molannidae        | Hoodcase maker CF  |       |
| <i>Send in to verify</i>        | Odontoceridae     | Strongcase maker CF  |       |
|                                 | Philopotamidae    | Fingernet caddisflies  |       |
|                                 | Phryganeidae      | Giant case maker CF  |       |
|                                 | Polycentropodidae | Trumpetnet caddisflies   |       |
|                                 | Psychomyiidae     | Tubemaker caddisflies  |       |
| <i>Send in to verify</i>        | Rhyacophilidae    | Freeliving caddisflies   |       |
|                                 | Uenoidae          | Uenoid case maker CF   |       |
|                                 |                   |  |       |
|                                 |                   |  |       |

| PHYLUM/<br>Class/Order/Suborder | FAMILY           | COMMON NAME                                     | TOTAL |
|---------------------------------|------------------|---|-------|
| <b>Ephemeroptera</b>            |                  | <b>Mayflies</b>                                 |       |
|                                 | Ameletidae       | Ameletid minnow mayflies                        |       |
|                                 | Baetidae         | Small minnow mayflies:<br>Genus not identified  |       |
|                                 |                  | Genus <i>Acentrella</i>                         |       |
|                                 |                  | Genus <i>Baetis</i>                             |       |
| <i>Send in to verify</i>        | Baetiscidae      | Armored mayflies                                |       |
|                                 | Caenidae         | Small squaregill mayflies                       |       |
|                                 | Ephemerellidae   | Spiny crawler mayflies:<br>Genus not identified |       |
|                                 |                  | Genus <i>Drunella</i>                           |       |
|                                 |                  | Genus <i>Ephemerella</i>                        |       |
|                                 |                  | Genus <i>Eurylophella</i>                       |       |
|                                 |                  | Genus <i>Serratella</i>                         |       |
|                                 | Ephemeridae      | Common burrower mayfly                          |       |
|                                 | Heptageniidae    | Flatheaded mayflies:<br>Genus not identified    |       |
| <i>Send in to verify</i>        |                  | Genus <i>Epeorus</i>                            |       |
|                                 |                  | Genus <i>Maccaffertium</i>                      |       |
| <i>Send in to verify</i>        |                  | Genus <i>Stenacron</i>                          |       |
|                                 | Isonychiidae     | Brushlegged mayflies                            |       |
|                                 | Leptohyphidae    | Little stout crawler mayflies                   |       |
|                                 | Leptophlebiidae  | Pronggilled mayflies:<br>Genus not identified   |       |
|                                 |                  | Genus <i>Leptophlebia</i>                       |       |
|                                 |                  | Genus <i>Paraleptophlebia</i>                   |       |
| <i>Send in to verify</i>        | Siphonuridae     | Primitive minnow mayfly                         |       |
| <b>Odonata</b>                  |                  | <b>Dragonflies &amp; Damselflies</b>            |       |
| <b>Anisoptera</b>               |                  | <b>Dragonflies</b>                              |       |
|                                 | Aeshnidae        | Darner dragonflies                              |       |
| <i>Send in to verify</i>        | Cordulegastridae | Biddies/spiketails                              |       |
| <i>Send in to verify</i>        | Corduliidae      | Green-eyed skimmers                             |       |
|                                 | Gomphidae        | Clubtail dragonflies                            |       |
| <i>Send in to verify</i>        | Libellulidae     | Common skimmers                                 |       |
| <b>Zygoptera</b>                |                  | <b>Damselflies</b>                              |       |
|                                 | Calopterygidae   | Broadwinged damselflies                         |       |
|                                 | Coenagrionidae   | Narrowwinged damselfly                          |       |

| PHYLUM/<br>Class/Order/Suborder | FAMILY           | COMMON NAME  | TOTAL |
|---------------------------------|------------------|--|-------|
| <b>Plecoptera</b>               |                  | <b>Stoneflies (SF)</b>                             |       |
|                                 | Capniidae        | Slender winter stoneflies                          |       |
| <i>Send in to verify</i>        | Chloroperlidae   | Green stoneflies                                   |       |
| <i>Send in to verify</i>        | Leuctridae       | Rolledwinged stoneflies                            |       |
|                                 | Nemouridae       | Nemourid/spring stoneflies                         |       |
| <i>Send in to verify</i>        | Peltoperlidae    | Roachlike stoneflies                               |       |
|                                 | Perlidae         | Common stoneflies                                  |       |
|                                 | Perlodidae       | Perlodid stoneflies                                |       |
| <i>Send in to verify</i>        | Pteronarcyidae   | Giant stoneflies                                   |       |
|                                 | Taeniopterygidae | Taen.broadback/winter SF:<br>Genus not identified  |       |
|                                 |                  | Genus <i>Strophopteryx</i>                         |       |
|                                 |                  | Genus <i>Taeniopteryx</i>                          |       |
| <b>Megaloptera</b>              |                  | <b>“Large Wings”</b>                               |       |
|                                 | Corydalidae      | Dobsonflies/fishflies:<br>Subfamily not identified |       |
|                                 | Chauliodes       | Fishflies (no brushy gills)                        |       |
|                                 | Corydalus        | Dobsonflies (brushy gills)                         |       |
|                                 | Sialidae         | Alderflies   |       |
|                                 |                  |  |       |
| <b>Hemiptera</b>                |                  | <b>True Bugs</b>                                   |       |
|                                 | Belostomatidae   | Giant water bugs                                   |       |
|                                 | Veliidae         | Short-legged striders                              |       |
| <b>Other:</b>                   |                  |  |       |
|                                 |                  |  |       |
|                                 |                  |  |       |
|                                 |                  |  |       |

#### Unable to identify something you collected or found something interesting?

If you cannot identify an individual(s); need verification of the order, family, or genus; or have something to share with the Macro ID classes:

- Place it in a vial of alcohol and write the date and team number on the vial's label
- On this form give
  - (1) Your reason for submitting the fixed specimen;
  - (2) Whether or not you included it in the counts on this form; and
  - (3) Where you included it.
- Return the vial to ANS along with the data collection sheets.