

Tolerance Values
(Lower is better!)

Stream Macroinvertebrate Health Scoresheet

#45

(Tolerance Values (TV) derived from Maryland DNR IBI Calculator unless noted by * which indicates State of Pennsylvania TV)

1 point for each Macro family circled)

Summer 2022 - July 17
Site #45
9 - Diversity;
0 - Tolerance

0	Ameletid Mayfly Nymph	Rolled Wing Stonefly Nymph (Spring-Fall)	<input type="checkbox"/>
1	Hellgrammite Larva	Freeliving Caddisfly Larvae	<input type="checkbox"/>
2	Mayfly Nymphs	Stonefly Nymphs	<input type="checkbox"/>
3	Mayfly Nymphs	Dragonfly Nymphs	<input type="checkbox"/>
4	Crane Fly Larva	Whirligig Beetle	<input type="checkbox"/>
5	Water Scavenger Beetle	Predaceous Diving Beetle*	<input checked="" type="checkbox"/>
6	Asian Clam	Scud	<input type="checkbox"/>
7	Black Fly Larva	Cylindrical Jawless Leech	<input checked="" type="checkbox"/>
8	Narrow Winged Damselfly Larva	Sowbug	<input type="checkbox"/>
9	Common Water Strider*	Lunged Snail	<input type="checkbox"/>
10	Aquatic Worm		<input checked="" type="checkbox"/>

Pollution Sensitive

Total TOLERANCE SCORE

Somewhat Pollution Tolerant

Pollution Tolerant

- SCORING INSTRUCTIONS:**
- 1) Circle Macros observed
 - 2) Total Macros into boxes (&)
 - 3) Put total of all boxes in DIVERSITY SCORE box
 - 4) Mark corresponding X on DIVERSITY SCORE scale
 - 5) Total all Macros
 - 6) Mark corresponding X on TOLERANCE SCORE scale

Total for DIVERSITY SCORE 9

DIVERSITY SCORE 12

Poor Biodiversity 0-9 Fair Biodiversity 12 Excellent Biodiversity 14+

TOLERANCE SCORE = TOTAL OF 0 BOXES

Poor or Stagnant Habitat 0-3 Fair Habitat 6 Excellent Habitat 8+

Little Falls 45
7/17/22
108

AUDUBON NATURALIST SOCIETY
TAXONOMIC LISTING OF BENTHOS
Classification of Important Freshwater Benthic Macroinvertebrates in Maryland/DC
February 15, 2020

PHYLUM/ Class/Order/Suborder	FAMILY	COMMON NAME	TOTAL
ANNELIDA			
<i>Hirudinea</i>	Erpobdellidae	Leeches (cylindrical) II	2
	Glossiphoniidae	Leeches (flat, wide at end)	
<i>Oligochaeta</i>	Lumbriculidae	Aquatic worms II	2
PLATYHELMINTHES	Dugesidae IIII	Planarians, flatworms	32
MOLLUSCA			
<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	
ARTHROPODA			
<i>Malacostraca</i>			
<i>Amphipoda</i>	Gammaridae	Scuds	
<i>Isopoda</i>	Asellidae	Aquatic sowbugs IIII	6
<i>Decapoda</i>	Cambaridae	Crayfish	
<i>Insecta</i>			
Coleoptera		Aquatic Beetles	
	Dryopidae	Long-toed water beetles	
	Dytiscidae	Predaceous diving beetles	
	Elmidae	Riffle beetles: Genus not identified Genus <i>Ancyronyx</i> Genus <i>Macronychus</i> Genus <i>Stenelmis</i>	1
	Gyrinidae	Whirligig beetles	
	Haliplidae	Crawling water beetles	
	Hydrophilidae	Water scavenger beetles	
	Psephenidae	Water pennies	
	Ptilodactylidae	Ptilodactylid beetles	

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PHYLUM/ Class/Order/Suborder	FAMILY	COMMON NAME	TOTAL
Diptera			
<i>Send in to verify</i>	Athericidae	Watersnipe flies	
<i>Send in to verify</i>	Ceratopogonidae	Biting midges	
II	Chironomidae	Midges	2
I	Culicidae	Mosquitoes	1
<i>Send in to verify</i>	Dixidae	Dixid midges	
<i>Send in to verify</i>	Empididae	Aquatic dance flies	
IIII II	Simuliidae	Black flies	7
	Tabanidae	Horse/deer flies	
	Tipulidae	Crane flies: Genus not identified Genus <i>Antocha</i> Genus <i>Dicranota</i> Genus <i>Hexatoma</i> Genus <i>Tipula</i>	
Trichoptera			
Caddisflies (CF)			
	Brachycentridae	Humpless case maker CF	
	Glossosomatidae	Saddlecase maker CF	
IIII IIII IIII IIII	Hydropsychidae	Common netspinner CF	20
	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	
			30

PHYLUM/ Class/Order/Suborder	FAMILY	COMMON NAME	TOTAL
Ephemeroptera		Mayflies	
	Ameletidae	Ameletid minnow mayflies	
	Baetidae	Small minnow mayflies: Genus not identified Genus <i>Acentrella</i> Genus <i>Baetis</i>	35
<i>Send in to verify</i>	Baetiscidae	Armored mayflies	
	Caenidae	Small squaregill mayflies	
	Ephemerellidae	Spiny crawler mayflies: 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: Genus not identified Genus <i>Epeorus</i> Genus <i>Maccaffertium</i> Genus <i>Stenacron</i>	
<i>Send in to verify</i>			
<i>Send in to verify</i>			
	Isonychiidae	Brushlegged mayflies	
	Leptohiphidae	Little stout crawler mayflies	
	Leptophlebiidae	Pronggilled mayflies: Genus not identified Genus <i>Leptophlebia</i> Genus <i>Paraleptophlebia</i>	
<i>Send in to verify</i>	Siphonuridae	Primitive minnow mayfly	
Odonata		Dragonflies & Damselflies	
Anisoptera		Dragonflies	
	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	
Zygoptera		Damselflies	
	Calopterygidae	Broadwinged damselflies	
	Coenagrionidae	Narrowwinged damselfly	

PHYLUM/ Class/Order/Suborder	FAMILY	COMMON NAME	TOTAL
Plecoptera		Stoneflies (SF)	
	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: Genus not identified Genus <i>Strophopteryx</i> Genus <i>Taeniopteryx</i>	
Megaloptera		"Large Wings"	
	Corydalidae	Dobsonflies/fishflies: Subfamily not identified	
	Corydalus	Dobsonflies (brushy gills)	
	Nigronia	Fishflies (no brushy gills)	
	Sialidae	Alderflies	
Hemiptera		True Bugs	
	Belostomatidae	Giant water bugs	
	Veliidae	Short-legged striders	
Lepidoptera		Aquatic Moths	
	Pyralidae	Aquatic pyralid moths	
Other:			

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.