


<http://www.epa.gov/bioiweb1/html/benthosclean.html>

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## Biological Indicators of Watershed Health

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## Benthic Macroinvertebrates in Our Waters

### Phyla Annelida, Mollusca and Arthropoda




#### PHYLUM Annelida






Class Oligochaeta <u>Worms</u>	Class Hirudinea <u>Leeches</u>
	





#### PHYLUM Mollusca





Class Bivalvia <u>Mussels</u>	Class Gastropoda <u>Pouch Snail</u>
	

#### PHYLUM Arthropoda

CLASS Malacostraca		
Order <u>Decapoda</u> (Crayfish)	Order <u>Amphipoda</u>	Order <u>Isopoda</u>
		

CLASS Insecta		
Order Plecoptera ( <b>Stonefly</b> )	Order Trichoptera ( <b>Caddisfly</b> )	Order Ephemeroptera ( <b>Mayfly</b> )
		
Order Megaloptera ( <b>Alderflies</b> )	Order Megaloptera ( <b>Dobsonfly</b> )	
		

CLASS Insecta (continued)			
Order Coleoptera ( <b>Water Penny Beetle</b> )	Order Coleoptera ( <b>Riffle Beetles</b> )	Order Odonata ( <b>Damselfly</b> )	Order Odonata ( <b>Dragonfly</b> )
			

Class Insecta (continued)			
Order Diptera Family Simuliidae ( <b>Black Fly</b> )	Order Diptera Family Tipulidae ( <b>Crane Fly</b> )	Order Diptera Family Chironomidae ( <b>Midge Fly</b> )	Order Diptera Family Athericidae ( <b>Snipe Fly</b> )
			

For more information, see our links on:

- [common freshwater benthic macroinvertebrates](#)
- [macroinvertebrate identification](#)
- [benthic macroinvertebrates as indicators](#)

- [benthic macroinvertebrates classification](#)
- [life cycle of benthic macroinvertebrates](#)

For more information on benthic macroinvertebrate taxonomy at the Order and Family levels:

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- [Guide to Aquatic Invertebrates of the Upper Midwest](#) - Chironomidae Research Group University of Minnesota
- [Identifying Aquatic Insects](#) - University of Michigan Dearborn Environmental Interpretive Center
- [Aquatic Organisms of Colorado](#) - Colorado Division of Wildlife
- [Freshwater Benthic Ecology and Aquatic Entomology Homepage](#)
- [Chironomidae and Water Beetles of Florida](#)
- [Freshwater MacroInvertebrates of New Brunswick](#)
- [Kentucky Water Watch](#)
- [Aquatic Insects of Idaho](#) - University of Idaho
- [Key to Aquatic Macroinvertebrates](#) - New York DEC
- [Digital Key to Aquatic Insects of North Dakota](#) - Valley City State University
- [Freshwater Macroinvertebrates from Streams in Western Washington and Western Oregon](#)
- [Field Guide to Freshwater Invertebrates for the Pacific Northwest](#)
- [Kentucky Insects](#) by University of Kentucky (terrestrial and aquatic)
- [A Field Guide to Common Texas Insects](#) (terrestrial and aquatic)
- [Entomology: Freshwater Food Sources of British Columbia's Game Fish](#)
- [Electronic Field Guide to Aquatic macroinvertebrates of Small Streams](#) - University of Massachusetts Boston
- [Guide to Aquatic Invertebrates](#) - West Virginia Department of Environmental Protection - Save Our Streams Program (pdf, 500K, 6p)
- [Family-Level Key to the Stream Invertebrates of Maryland and Surrounding Areas](#) (pdf, 1.6MB, 98p)

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