Michigan Clean Water Corps

Stream Macroinvertebrate Family Level Datasheet

Volunteer Stream Monitoring Program
Michigan Streams – Ours to Protect

Site Name: _____

MiCorps Site ID:_____ Organization Site ID (if different):_____

Date:_____ Time starting collection:_____
Time starting picking:_____

Latitude (if known):_____ Longitude (if known):_____

Names of Team members: _____

Stream Conditions:

Average water depth:_____feet

Notable weather conditions of the last week:_____

Are there any current site conditions that may impede normal macroinvertebrate sampling? (weather, flooding, poor visibility, etc?)

Habitat Types: Check the habitats that were sampled. Include as many as possible.

____Riffles ____Backwater areas ____Submerged Wood
____Rocks ____Leaf Packs

____Aquatic Plants ____Pools
____Runs ____Undercut banks/Overhanging Vegetation

Did you see any crayfish? #:_____, Clams/mussels? #_____
Return these to the water. Remember to include them in the assessment on the other side!

Do not take crayfish, fish, clams, and mussels from the water.

Collection Finish Time: _____(AM/PM) Picking Finish Time:_____(AM/PM)

Identifications made/supervised by:_____

Datasheet checked for completeness by:_____ Datasheet version 5/28/2026
Data entered into MiCorps database by:_____ Date:_____

Water Quality Rating			Degree of Organic Pollution
0.0-3.50	excellent		Pollution unlikely
3.51-4.50	very good		Slight pollution possible
4.51-5.50	good		Some pollution possible
5.51-6.50	fair		Fairly substantial pollution likely
6.51-7.50	fairly poor		Substantial pollution likely
7.51-8.50	poor		Very substantial pollution likely
8.51-10.0	very poor		Severe pollution likely

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FAMILY LEVEL IDENTIFICATION AND ASSESSMENT

Count	Name	Sensitivity Rating	Count x Sensitivity

ANNELIDA-Segmented Worms

	Hirudinea	10	
	Oligochaeta	10	

COLEOPTERA- Beetles

	Curculionidae	5	
	Dryopidae	5	
	Dytiscidae	5	
	Elmidae	4	
	Gyrinidae	5	
	Haliplidae	5	
	Hydrophilidae	5	
	Lampyridae	6	
	Noteridae	5	
	Psephenidae	4	
	Ptilodactylidae	3	
	Scirtidae	5	
	Staphylinidae	8	

DIPTERA- True Flies

	Athericidae	2	
	Blephariceridae	0	
	Ceratopogonidae	6	
	Chaoboridae	8	
	Chironomidae	6	
	Culicidae	8	
	Dixidae	1	
	Dolichopodidae	4	
	Empididae	6	
	Ephydridae	6	
	Muscidae	6	
	Psychodidae	8	
	Ptychopteridae	9	
	Sciomyzidae	6	
	Simuliidae	6	
	Stratiomyidae	8	
	Syrphidae	10	
	Tabanidae	6	
	Tipulidae	4	

CRUSTACEA- Crustaceans

	Amphipoda	6	
	Decapoda	6	
	Isopoda	8	

Count	Name	Sensitivity Rating	Count x Sensitivity

EPHEMEROPTERA- Mayflies

	Ameletidae	0	
	Ametropodidae	0	
	Arthropleidae	0	
	Baetidae	4	
	Baetiscidae	3	
	Caenidae	7	
	Ephemerellidae	1	
	Ephemeridae	4	
	Heptageniidae	4	
	Isonychiidae	2	
	Leptohyphidae	3	
	Leptoplebiidae	2	
	Metretopodidae	2	
	Neoephemeridae	3	
	Polymitarcyidae	2	
	Potamanthidae	4	
	Pseudironidae	5	
	Siphlonuridae	7	
	Tricorythidae	4	

GASTROPODA- Snails, Limpets

	Ancylidae	6	
	Bithyniidae	8	
	Hydrobiidae	6	
	Lymnaeidae	6	
	Physidae	8	
	Planorbidae	7	
	Pleuroceridae	6	
	Pomatiopsidae	3	
	Valvatidae	6	
	Viviparidae	6	
	Unidentified Snail	6.5	

Count	Name	Sensitivity Rating (0-10)	Count x Sensitivity

HEMIPTERA- True Bugs

	Belostomatidae	10	
	Corixidae	5	
	Gelastocoridae	7	
	Gerridae	5	
	Hydrometridae	6	
	Mesoveliidae	6	
	Naucoridae	5	
	Nepidae	8	
	Notonectidae	8	
	Pleidae	8	
	Saldidae	10	
	Veliidae	6	

LEPIDOPTERA- Moths and Butterflies

	Cosmopterigidiae	5	
	Nepticulidae	5	
	Noctuidae	5	
	Pyralidae	5	
	Tortricidae	5	

MEGALOPTERA

	Corydalidae	0	
	Sialidae	4	

ODONATA- Damselflies, Dragonflies

	Aeshnidae	3	
	Calopterygidae	5	
	Coenagrionidae	9	
	Cordulidae	2	
	Cordulegastridae	3	
	Gomphidae	1	
	Lestidae	9	
	Libellulidae	9	
	Macromiidae	3	

PELECYPODA-bivalves

	Corbiculidae	6	
	Dreissenidae	8	
	Sphaeriidae (aka Pisidiidae)	8	
	Unionidae	6	

Count	Name	Sensitivity Rating (0-10)	Count x Sensitivity

PLECOPTERA- Stoneflies

	Capniidae	1	
	Chloroperlidae	1	
	Leuctridae	0	
	Nemouridae	2	
	Perlidae	1	
	Perlodidae	2	
	Pteronarcyidae	0	
	Taeniopterygidae	2	

TRICHOPTERA- Caddisflies

	Apataniidae	3	
	Brachycentridae	1	
	Dipseudopsidae	5	
	Glossosomatidae	1	
	Goeridae	3	
	Helicopsychidae	3	
	Hydropsychidae	4.5	
	Hydroptilidae	4	
	Lepidostomatidae	3	
	Leptoceridae	4	
	Limnephilidae	4	
	Molannidae	6	
	Odontoceridae	0	
	Philopotamidae	3	
	Phryganeidae	4	
	Polycentropodidae	6	
	Psychomyiidae	2	
	Rhyacophilidae	0	
	Sericostomatidae	3	
	Uenoidae	3	

OTHER GROUPS

	HYDRACARINA Water mites	6	
	COLLEMBOLA springtails	5	
	PLATYHELMINTHES- Turbellaria/Flatworms	4	

Diversity Results	
Total Diversity: *Number of families/groups*	
EPT Diversity: *Number of families that are Ephemeroptera, Plecoptera, Trichoptera*	
Total Sensitive Diversity: *Number of families that have a tolerance of 3 or less*	

WQR Result			
	←Total Abundance *Sum of both sides of datasheet*	**→ Sum of (Count x Sensitivity):** *Sum of both sides of datasheet*	

WQR Calculation

If total abundance <30 → 10

If total abundance <60 → 7

Otherwise, use this formula:

Sum of (Count x Sensitivity) / Total Abundance

WQR Rating

WQR Number