THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet
Stewart Lake
Township of Georgian Bay

Common Name	Site 1[R]							Scientific Name
	2016	2018	2021	2022	2023	2024	2025	
Hydras								Coelenterata
Flatworms								Turbellaria
Roundworms		3	2	15		3	3	Nematoda
Aquatic Earthworms	8	11	3	2	6			Oligochaeta
Leeches	1			1				Hirudinaea
Sow Bugs	194	186	15	40	56	77	23	Isopoda
Clams & Mussels				1				Bivalvia
Scuds	60	108	6	14	32	19	24	Amphipoda
Crayfish	1	1			1	1		Decapoda
Mites		7		17	1		41	Hydracarina
Mayflies	9	5	3	5	2	2	2	Ephemeroptera
Dragonflies	6	1		1			2	Anisoptera
Damselflies	5	1		4	5	3	1	Zygoptera
Stoneflies		2						Plecoptera
True Bugs								Hemiptera
Fishflies & Alderflies								Megaloptera
Caddisflies	3	6			1	1		Trichoptera
Aquatic Moths								Lepidoptera
Beetles	4		1				1	Coleoptera
Snails & Limpets	5			1				Gastropoda
Midges	39	12		14				Chironomidae
Horse & Deer Flies								Tabanidae
Mosquitos								Culicidae
No-see-ums	3	9					4	Ceratopogonidae
Craneflies								Tipulidae
Blackflies								Simuliidae
Misc. True Flies				2				Misc. Diptera
Total Count	338	352	30	117	104	106	101	
Number of Taxa	13	13	6	13	8	7	9	
								Muskoka Average *
Richness	13	13	6	13	8	7	9	**13**
% EOT	7	3	10	9	8	6	5	**17**
% Chironomids	12	3	0	12	0	0	0	**8**
% Predators	6	4	3	20	6	3	49	**24**
% Shredders	1	1	0	0	1	1	0	**2**
% Collectors/Gatherers	92	92	90	66	93	93	49	**68**
Hilsenhoff Index	7.26	6.95	6.97	7.00	7.20	7.42	6.33	**6.27**

R = Reference Site

* The Muskoka Average is based on 228 samples collected at 94 reference sites between 2013 and 2023. Data prior to 2021 is based on three subsamples (min. 300 count) per site while data from 2021 on is based on one sample (min. 100 count) per site.

THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Stewart Lake

Township of Georgian Bay

Common Name	Site 2[R]							Scientific Name
	2016	2017	2019	2022	2023	2024	2025	
Hydras								Coelenterata
Flatworms	2					1		Turbellaria
Roundworms			4	5	2	6	13	Nematoda
Aquatic Earthworms	11	18	4	2	3	3		Oligochaeta
Leeches	2							Hirudinaea
Sow Bugs	218	160	188	36	29	56	36	Isopoda
Clams & Mussels		1			2	3	1	Bivalvia
Scuds	33	109	68	58	39	11	14	Amphipoda
Crayfish		1	2					Decapoda
Mites	10	13	7	10	11	14	26	Hydracarina
Mayflies	8	5	21	1	1	14	5	Ephemeroptera
Dragonflies	5	2	2			1	3	Anisoptera
Damselflies	1	1	2	2	3			Zygoptera
Stoneflies		1						Plecoptera
True Bugs								Hemiptera
Fishflies & Alderflies				1		1	4	Megaloptera
Caddisflies	2	2		4				Trichoptera
Aquatic Moths								Lepidoptera
Beetles	1	2	1		1			Coleoptera
Snails & Limpets	2	2	5	1	2	3		Gastropoda
Midges	30	2	12	7	9	2		Chironomidae
Horse & Deer Flies								Tabanidae
Mosquitos								Culicidae
No-see-ums	5	11	4	2			4	Ceratopogonidae
Craneflies			1					Tipulidae
Blackflies								Simuliidae
Misc. True Flies								Misc. Diptera
Total Count	330	330	321	129	102	115	106	
Number of Taxa	14	15	14	12	11	12	9	
								Muskoka Average *
Richness	14	15	14	12	11	12	9	**13**
% EOT	5	3	8	5	4	13	8	**17**
% Chironomids	9	0.6	4	5	9	2	0	**8**
% Predators	8	9	5	12	15	15	35	**24**
% Shredders	1	0.6	0.3	3	0	0	0	**2**
% Collectors/Gatherers	91	89	92	81	79	75	52	**68**
Hilsenhoff Index	7.43	7.03	7.15	6.54	6.75	6.90	6.26	**6.27**

* The Muskoka Average is based on 228 samples collected at 94 reference sites between 2013 and 2023. Data prior to 2021 is based on three subsamples (min. 300 count) per site while data from 2021 on is based on one sample (min. 100 count) per site.