THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Echo Lake

Township of Lake of Bays

Common Name	Site 1[R]					Scientific Name
	2021	2022	2023	2024	2025	
Hydras						Coelenterata
Flatworms			1	1	3	Turbellaria
Roundworms	6	3	1	1	11	Nematoda
Aquatic Earthworms	6		2	5		Oligochaeta
Leeches	1					Hirudinaea
Sow Bugs	27					Isopoda
Clams & Mussels				3	1	Bivalvia
Scuds		54	22	24	17	Amphipoda
Crayfish						Decapoda
Mites	3	9	44	14	22	Hydracarina
Mayflies	41	31	3	20	14	Ephemeroptera
Dragonflies	3	4	8	12	7	Anisoptera
Damselflies	5	1	1	5	12	Zygoptera
Stoneflies						Plecoptera
True Bugs			1			Hemiptera
Fishflies & Alderflies						Megaloptera
Caddisflies	1	2		1		Trichoptera
Aquatic Moths						Lepidoptera
Beetles					1	Coleoptera
Snails & Limpets			4	1	4	Gastropoda
Midges	10	7	17	12	9	Chironomidae
Horse & Deer Flies						Tabanidae
Mosquitos					1	Culicidae
No-see-ums	3			6	2	Ceratopogonidae
Craneflies						Tipulidae
Blackflies						Simuliidae
Misc. True Flies						Misc. Diptera
Total Count	106	111	104	105	104	
Number of Taxa	11	8	11	13	13	
						Muskoka Average *
Richness	11	8	11	13	13	**13**
% EOT	47	34	12	36	32	**17**
% Chironomids	9	6	16	11	9	**8**
% Predators	14	13	53	36	45	**24**
% Shredders	1	2	0	1	0	**2**
% Collectors/Gatherers	79	83	42	58	39	**68**
Hilsenhoff Index	5.78	5.69	6.11	5.97	6.03	**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

Echo Lake

Township of Lake of Bays

Common Name	Site 2					Scientific Name
	2021	2022	2023	2024	2025	
Hydras						Coelenterata
Flatworms						Turbellaria
Roundworms	20	6	5	8	4	Nematoda
Aquatic Earthworms			2	12		Oligochaeta
Leeches				1		Hirudinaea
Sow Bugs						Isopoda
Clams & Mussels			1	1	1	Bivalvia
Scuds	3	44	36	2	18	Amphipoda
Crayfish						Decapoda
Mites	29	27	30	19	34	Hydracarina
Mayflies	1	29	3	13	2	Ephemeroptera
Dragonflies	1		6	11	21	Anisoptera
Damselflies	22	2	10	16	19	Zygoptera
Stoneflies						Plecoptera
True Bugs	1					Hemiptera
Fishflies & Alderflies						Megaloptera
Caddisflies	1				1	Trichoptera
Aquatic Moths						Lepidoptera
Beetles					1	Coleoptera
Snails & Limpets	1		2	4		Gastropoda
Midges	19	7	15	14	5	Chironomidae
Horse & Deer Flies						Tabanidae
Mosquitos						Culicidae
No-see-ums	7				2	Ceratopogonidae
Craneflies						Tipulidae
Blackflies						Simuliidae
Misc. True Flies						Misc. Diptera
Total Count	105	115	110	101	108	
Number of Taxa	11	6	10	11	11	
						Muskoka Average *
Richness	11	6	10	11	11	**13**
% EOT	24	27	17	40	40	**17**
% Chironomids	18	7	14	14	5	**8**
% Predators	57	25	42	47	71	**24**
% Shredders	1	0	0	0	1	**2**
% Collectors/Gatherers	22	70	51	41	23	**68**
Hilsenhoff Index	6.16	5.78	6.17	6.30	6.15	**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.