THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Brandy Lake

Township of Muskoka Lakes

Common Name	Site 1[R]					Scientific Name
	2016	2022	2023	2024	2025	
Hydras						Coelenterata
Flatworms	5					Turbellaria
Roundworms	3	7	3	1	6	Nematoda
Aquatic Earthworms	22		2	2	1	Oligochaeta
Leeches	1	1			1	Hirudinaea
Sow Bugs	74	46	9	13	12	Isopoda
Clams & Mussels	3	1				Bivalvia
Scuds	62	29	21	14	59	Amphipoda
Crayfish	1					Decapoda
Mites	9	2	13	56	66	Hydracarina
Mayflies	28	12	37	2	5	Ephemeroptera
Dragonflies	25	2	5	4	16	Anisoptera
Damselflies	3	3	4	12	25	Zygoptera
Stoneflies						Plecoptera
True Bugs		2				Hemiptera
Fishflies & Alderflies	6	1				Megaloptera
Caddisflies	3	2			11	Trichoptera
Aquatic Moths			1			Lepidoptera
Beetles	17	1	2		3	Coleoptera
Snails & Limpets	3	6	3		2	Gastropoda
Midges	58	8	1	2	4	Chironomidae
Horse & Deer Flies						Tabanidae
Mosquitos					2	Culicidae
No-see-ums	3			2	12	Ceratopogonidae
Craneflies		1				Tipulidae
Blackflies			1			Simuliidae
Misc. True Flies						Misc. Diptera
Total Count	326	124	102	108	225	
Number of Taxa	18	16	13	10	15	
						Muskoka Average *
Richness	18	16	13	10	15	**13**
% EOT	18	15	45	17	25	**17**
% Chironomids	18	6	1	2	2	**8**
% Predators	21	10	24	69	55	**24**
% Shredders	1	2	1	0	5	**2**
% Collectors/Gatherers	75	77	69	31	37	**68**
Hilsenhoff Index	6.45	6.64	5.81	6.34	6.38	**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

Brandy Lake

Township of Muskoka Lakes

Common Name	Site 2									Scientific Name
	2016	2017	2018	2019	2021	2022	2023	2024	2025	
Hydras										Coelenterata
Flatworms	1						1			Turbellaria
Roundworms	3			6		4	1	1	2	Nematoda
Aquatic Earthworms	6	41	7	18	1		9			Oligochaeta
Leeches			3			1				Hirudinaea
Sow Bugs	7	20	25	70		5	8	7	36	Isopoda
Clams & Mussels	2		2	2				1		Bivalvia
Scuds	150	180	244	111	14	89	35	17	98	Amphipoda
Crayfish		1	2	2			1			Decapoda
Mites	6	33	35	16	54	23	24	55	64	Hydracarina
Mayflies	129	52	5	49	30	18	12	14	7	Ephemeroptera
Dragonflies	7	8	17	11	2	4	4	4	6	Anisoptera
Damselflies		2	5	6	6	6	2	2	6	Zygoptera
Stoneflies	2		3							Plecoptera
True Bugs								1		Hemiptera
Fishflies & Alderflies				3			1	1		Megaloptera
Caddisflies		5		11	3	4	1	1	6	Trichoptera
Aquatic Moths										Lepidoptera
Beetles						2	1	3		Coleoptera
Snails & Limpets	3	4	29	13			2	3	1	Gastropoda
Midges	23	42	10	18	7	6	2	3	5	Chironomidae
Horse & Deer Flies										Tabanidae
Mosquitos				2					2	Culicidae
No-see-ums	4	4	5		3			2	4	Ceratopogonidae
Craneflies			4							Tipulidae
Blackflies										Simuliidae
Misc. True Flies				3						Misc. Diptera
Total Count	343	392	396	341	120	162	104	115	237	
Number of Taxa	13	12	15	16	9	11	15	15	12	
										Muskoka Average *
Richness	13	12	15	17	9	11	15	15	12	**13**
% EOT	40	17	7	23	34	20	18	18	11	**17**
% Chironomids	7	10	3	5	6	4	2	3	2	**8**
% Predators	6	11	17	11	54	22	32	59	34	**24**
% Shredders	0	1	1	3	3	2	1	1	3	**2**
% Collectors/Gatherers	92	85	74	80	43	73	64	36	62	**68**
Hilsenhoff Index	5.72	6.25	6.17	6.36	5.81	5.91	6.14	5.95	6.22	**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.