THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Three Mile Lake

Township of Muskoka Lakes

Common Name	Site 1[R]						Scientific Name
	2016	2017	2019	2022	2023	2025	
Hydras							Coelenterata
Flatworms	3		2		1		Turbellaria
Roundworms	3		34	9		1	Nematoda
Aquatic Earthworms	20	53	7		5	1	Oligochaeta
Leeches	6	5					Hirudinaea
Sow Bugs	21	22	147	2	17	52	Isopoda
Clams & Mussels	3		1			2	Bivalvia
Scuds	123	108	75	51	51	25	Amphipoda
Crayfish	1	1	1			1	Decapoda
Mites	15	41	3	38	1	8	Hydracarina
Mayflies	27	39	35	3	7	3	Ephemeroptera
Dragonflies	1		4		1	1	Anisoptera
Damselflies	1	9	4				Zygoptera
Stoneflies		1					Plecoptera
True Bugs		2					Hemiptera
Fishflies & Alderflies	1						Megaloptera
Caddisflies	5	8	5	1		1	Trichoptera
Aquatic Moths		1				1	Lepidoptera
Beetles	23	15	6	1		1	Coleoptera
Snails & Limpets	7	13	6	2	5	5	Gastropoda
Midges	85	8	5	4	1	3	Chironomidae
Horse & Deer Flies							Tabanidae
Mosquitos		5					Culicidae
No-see-ums		7	2	2		3	Ceratopogonidae
Craneflies							Tipulidae
Blackflies							Simuliidae
Misc. True Flies							Misc. Diptera
Total Count	345	338	337	113	89	108	
Number of Taxa	17	17	16	10	9	15	
							Muskoka Average *
Richness	17	17	16	10	9	15	**13**
% EOT	10	17	14	4	9	5	**17**
% Chironomids	25	2	1	4	1	3	**8**
% Predators	14	24	6	36	3	12	**24**
% Shredders	1	3	1	1	0	2	**2**
% Collectors/Gatherers	80	70	80	53	91	79	**68**
Hilsenhoff Index	6.28	6.31	6.67	5.95	6.45	6.43	**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
Three Mile Lake
Township of Muskoka Lakes

Common Name	Site 2[R]							Scientific Name
	2016	2018	2021	2022	2023	2024	2025	
Hydras								Coelenterata
Flatworms	7	1		1		1		Turbellaria
Roundworms	3	9	1	5		13		Nematoda
Aquatic Earthworms	35	5		3	15	33	3	Oligochaeta
Leeches	5			2				Hirudinaea
Sow Bugs	8	94	8	43	35	2	36	Isopoda
Clams & Mussels	1				2		1	Bivalvia
Scuds	135	121	2	36	20	23	33	Amphipoda
Crayfish			1					Decapoda
Mites	4	74	21	29	27	12	15	Hydracarina
Mayflies	27	16	52	21	3	2		Ephemeroptera
Dragonflies	1							Anisoptera
Damselflies		3	1	2				Zygoptera
Stoneflies		1	2	4				Plecoptera
True Bugs	7	1						Hemiptera
Fishflies & Alderflies				1		1		Megaloptera
Caddisflies	20	1	5	5	2	3	2	Trichoptera
Aquatic Moths							1	Lepidoptera
Beetles	6	9	10	14		1		Coleoptera
Snails & Limpets	16	11	1	2	20	8	9	Gastropoda
Midges	38	17	4	5	8	8	4	Chironomidae
Horse & Deer Flies								Tabanidae
Mosquitos								Culicidae
No-see-ums	1	17	1			14		Ceratopogonidae
Craneflies								Tipulidae
Blackflies								Simuliidae
Misc. True Flies				4				Misc. Diptera
Total Count	314	380	109	177	132	121	104	
Number of Taxa	16	15	13	16	9	13	9	
								Muskoka Average *
Richness	16	15	13	16	9	13	9	**13**
% EOT	15	5.3	53	16	4	4	2	**17**
% Chironomids	12	4.5	3.7	2.8	6	7	4	**8**
% Predators	9.9	28	32	30	20	24	14	**24**
% Shredders	6.4	0.3	4.6	2.8	2	2	3	**2**
% Collectors/Gatherers	77	67	61	63	61	56	73	**68**
Hilsenhoff Index	6.15	5.28	5.35	6.07	6.95	6.49	5.95	**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.