THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Bruce Lake

Township of Muskoka Lakes

Common Name	Site 1							Scientific Name
	2016	2018	2021	2022	2023	2024	2025	
Hydras								Coelenterata
Flatworms								Turbellaria
Roundworms	2		6	9	3			Nematoda
Aquatic Earthworms	3		3	6	1			Oligochaeta
Leeches	2							Hirudinaea
Sow Bugs	250	172	38	53	37	36	18	Isopoda
Clams & Mussels								Bivalvia
Scuds	114	192	61	42	60	53	36	Amphipoda
Crayfish	2					1	1	Decapoda
Mites	6	45	3	8	9	11	33	Hydracarina
Mayflies	10	27					3	Ephemeroptera
Dragonflies	4	6		2	2	2	4	Anisoptera
Damselflies	1	4		1	1	1		Zygoptera
Stoneflies		3						Plecoptera
True Bugs								Hemiptera
Fishflies & Alderflies	6		1				2	Megaloptera
Caddisflies	2			2	1			Trichoptera
Aquatic Moths								Lepidoptera
Beetles	4	10			2	1		Coleoptera
Snails & Limpets		2	4		3			Gastropoda
Midges	18	8	2	5	4	3	10	Chironomidae
Horse & Deer Flies								Tabanidae
Mosquitos							1	Culicidae
No-see-ums	2						3	Ceratopogonidae
Craneflies								Tipulidae
Blackflies								Simuliidae
Misc. True Flies			6					Misc. Diptera
Total Count	426	469	124	128	123	108	111	
Number of Taxa	15	10	9	9	11	8	10	
								Muskoka Average *
Richness	15	10	9	9	11	8	10	**13**
% EOT	4	8	0	4	3.3	2.8	6.3	**17**
% Chironomids	4	2	2	4	3.3	2.8	9	**8**
% Predators	6	15	3	9	11	14	38	**24**
% Shredders	0	0	0	2	0.8	0	0	**2**
% Collectors/Gatherers	94	85	89	83	83	86	62	**68**
Hilsenhoff Index	7.20	6.61	6.60	6.85	6.59	6.67	5.45	**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.

THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Bruce Lake

Township of Muskoka Lakes

Common Name	Site 2[R]					Scientific Name
	2016	2017	2019	2022	2023	
Hydras						Coelenterata
Flatworms	1					Turbellaria
Roundworms	3		4	3	1	Nematoda
Aquatic Earthworms	5	41	2		1	Oligochaeta
Leeches		5	3			Hirudinaea
Sow Bugs	215	135	240	31	53	Isopoda
Clams & Mussels						Bivalvia
Scuds	58	76	73	42	22	Amphipoda
Crayfish						Decapoda
Mites	3	17	3	11	5	Hydracarina
Mayflies	14	23	1	3	9	Ephemeroptera
Dragonflies	2	2	7	4	5	Anisoptera
Damselflies	1	1	2			Zygoptera
Stoneflies						Plecoptera
True Bugs						Hemiptera
Fishflies & Alderflies			1			Megaloptera
Caddisflies	15	9		1	1	Trichoptera
Aquatic Moths						Lepidoptera
Beetles		1	4			Coleoptera
Snails & Limpets	1	2	2	1		Gastropoda
Midges	6	8	3	3	1	Chironomidae
Horse & Deer Flies						Tabanidae
Mosquitos						Culicidae
No-see-ums	3	2				Ceratopogonidae
Craneflies						Tipulidae
Blackflies						Simuliidae
Misc. True Flies				1		Misc. Diptera
Total Count	327	322	345	100	98	0
Number of Taxa	13	13	13	10	9	
						Muskoka Average *
Richness	14	13	13	10	17	**17**
% EOT	10	11	3	8	23	**23**
% Chironomids	2	2	1	3	5	**5**
% Predators	3	8	6	15	11	**11**
% Shredders	5	3	0	1	3	**3**
% Collectors/Gatherers	91	88	92	80	80	**80**
Hilsenhoff Index	7.21	7.01	7.37	6.53	6.94	**6.27**

R = Reference Site

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Bruce Lake

Township of Muskoka Lakes

Common Name	Site 3 2023	Scientific Name
Hydras		Coelenterata
Flatworms		Turbellaria
Roundworms	3	Nematoda
Aquatic Earthworms	1	Oligochaeta
Leeches		Hirudinaea
Sow Bugs	37	Isopoda
Clams & Mussels		Bivalvia
Scuds	60	Amphipoda
Crayfish		Decapoda
Mites	9	Hydracarina
Mayflies		Ephemeroptera
Dragonflies	2	Anisoptera
Damselflies	1	Zygoptera
Stoneflies		Plecoptera
True Bugs		Hemiptera
Fishflies & Alderflies		Megaloptera
Caddisflies	1	Trichoptera
Aquatic Moths		Lepidoptera
Beetles	2	Coleoptera
Snails & Limpets	3	Gastropoda
Midges	4	Chironomidae
Horse & Deer Flies		Tabanidae
Mosquitos		Culicidae
No-see-ums		Ceratopogonidae
Craneflies		Tipulidae
Blackflies		Simuliidae
Misc. True Flies		Misc. Diptera
Total Count	123	
Number of Taxa	11	
		Muskoka Average *
Richness	11	**13**
% EOT	3	**17**
% Chironomids	3	**8**
% Predators	11	**24**
% Shredders	1	**2**
% Collectors/Gatherers	83	**68**
Hilsenhoff Index	6.59	**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.