THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Lake of Bays

Township of Lake of Bays

Common Name	Site 1[R] 2004	Scientific Name
Hydras		Coelenterata
Flatworms		Turbellaria
Roundworms		Nematoda
Aquatic Earthworms	10	Oligochaeta
Leeches	9	Hirudinaea
Sow Bugs		Isopoda
Clams & Mussels		Bivalvia
Scuds	215	Amphipoda
Crayfish		Decapoda
Mites	13	Hydracarina
Mayflies	21	Ephemeroptera
Dragonflies	16	Anisoptera
Damselflies	6	Zygoptera
Stoneflies		Plecoptera
True Bugs		Hemiptera
Fishflies & Alderflies	6	Megaloptera
Caddisflies		Trichoptera
Aquatic Moths		Lepidoptera
Beetles		Coleoptera
Snails & Limpets		Gastropoda
Midges	21	Chironomidae
Horse & Deer Flies	1	Tabanidae
Mosquitos		Culicidae
No-see-ums		Ceratopogonidae
Craneflies		Tipulidae
Blackflies		Simuliidae
Misc. True Flies		Misc. Diptera
Total Count	318	
Number of Taxa	10	
		Muskoka Average *
Richness	10	**13**
% EOT	14	**17**
% Chironomids	7	**8**
% Predators	16	**24**
% Shredders	0	**2**
% Collectors/Gatherers	84	**68**
Hilsenhoff Index	6.06	**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.

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Lake of Bays

Township of Lake of Bays

Common Name	Site 2		Scientific Name
	2004	2015	
Hydras			Coelenterata
Flatworms			Turbellaria
Roundworms	5		Nematoda
Aquatic Earthworms	29	26	Oligochaeta
Leeches	3	2	Hirudinaea
Sow Bugs			Isopoda
Clams & Mussels		1	Bivalvia
Scuds	174	182	Amphipoda
Crayfish			Decapoda
Mites	18		Hydracarina
Mayflies	22	26	Ephemeroptera
Dragonflies	5		Anisoptera
Damselflies			Zygoptera
Stoneflies			Plecoptera
True Bugs			Hemiptera
Fishflies & Alderflies			Megaloptera
Caddisflies	15	23	Trichoptera
Aquatic Moths			Lepidoptera
Beetles			Coleoptera
Snails & Limpets	1	20	Gastropoda
Midges	101	36	Chironomidae
Horse & Deer Flies	2		Tabanidae
Mosquitos			Culicidae
No-see-ums	1	3	Ceratopogonidae
Craneflies			Tipulidae
Blackflies			Simuliidae
Misc. True Flies			Misc. Diptera
Total Count	376	319	
Number of Taxa	12	9	
			Muskoka Average *
Richness	12	9	**13**
% EOT	11	15	**17**
% Chironomids	27	11	**8**
% Predators	8	2	**24**
% Shredders	4	7	**2**
% Collectors/Gatherers	87	85	**68**
Hilsenhoff Index	6.29	6.13	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Lake of Bays - Ten Mile Bay

Township of Lake of Bays

Common Name	Site 1[R]				Scientific Name
	2021	2023	2024	2025	
Hydras					Coelenterata
Flatworms	1	4	1		Turbellaria
Roundworms	14	17	15	18	Nematoda
Aquatic Earthworms	11	15	5		Oligochaeta
Leeches				1	Hirudinaea
Sow Bugs	1			42	Isopoda
Clams & Mussels		11	28	1	Bivalvia
Scuds	2	10	3	46	Amphipoda
Crayfish					Decapoda
Mites	11	9	10	16	Hydracarina
Mayflies	20	1			Ephemeroptera
Dragonflies		5	4	1	Anisoptera
Damselflies					Zygoptera
Stoneflies					Plecoptera
True Bugs					Hemiptera
Fishflies & Alderflies	1			3	Megaloptera
Caddisflies		2		10	Trichoptera
Aquatic Moths		1			Lepidoptera
Beetles		2	2		Coleoptera
Snails & Limpets		7	25	2	Gastropoda
Midges	6	25	11	3	Chironomidae
Horse & Deer Flies					Tabanidae
Mosquitos				1	Culicidae
No-see-ums	2		4	7	Ceratopogonidae
Craneflies	1				Tipulidae
Blackflies					Simuliidae
Misc. True Flies					Misc. Diptera
Total Count	70	109	108	151	
Number of Taxa	11	13	11	13	
					Muskoka Average *
Richness	11	13	11	13	**13**
% EOT	29	7	4	7	**17**
% Chironomids	9	23	10	2	**8**
% Predators	21	18	19	19	**24**
% Shredders	1	3	0	7	**2**
% Collectors/Gatherers	57	47	18	61	**68**
Hilsenhoff Index	5.84	6.41	6.71	6.05	**6.27**

R = Reference Site

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Lake of Bays - Ten Mile Bay

Township of Lake of Bays

Common Name	Site 2		Scientific Name
	2022	2023	
Hydras			Coelenterata
Flatworms		2	Turbellaria
Roundworms	1	1	Nematoda
Aquatic Earthworms		17	Oligochaeta
Leeches	2		Hirudinaea
Sow Bugs	8	6	Isopoda
Clams & Mussels	2	2	Bivalvia
Scuds	46	39	Amphipoda
Crayfish			Decapoda
Mites	19	7	Hydracarina
Mayflies	14		Ephemeroptera
Dragonflies		1	Anisoptera
Damselflies			Zygoptera
Stoneflies			Plecoptera
True Bugs			Hemiptera
Fishflies & Alderflies			Megaloptera
Caddisflies	22	11	Trichoptera
Aquatic Moths			Lepidoptera
Beetles	1		Coleoptera
Snails & Limpets	4	13	Gastropoda
Midges	3	3	Chironomidae
Horse & Deer Flies			Tabanidae
Mosquitos			Culicidae
No-see-ums			Ceratopogonidae
Craneflies			Tipulidae
Blackflies			Simuliidae
Misc. True Flies			Misc. Diptera
Total Count	122	102	
Number of Taxa	11	11	
			Muskoka Average *
Richness	11	11	**13**
% EOT	30	12	**17**
% Chironomids	2	3	**8**
% Predators	18	10	**24**
% Shredders	18	11	**2**
% Collectors/Gatherers	58	64	**68**
Hilsenhoff Index	5.75	6.37	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Lake of Bays - Ten Mile Bay

Township of Lake of Bays

Common Name	Site 3 2024	Scientific Name
Hydras		Coelenterata
Flatworms		Turbellaria
Roundworms	5	Nematoda
Aquatic Earthworms	15	Oligochaeta
Leeches	1	Hirudinaea
Sow Bugs	42	Isopoda
Clams & Mussels	1	Bivalvia
Scuds	34	Amphipoda
Crayfish		Decapoda
Mites		Hydracarina
Mayflies	2	Ephemeroptera
Dragonflies	1	Anisoptera
Damselflies	1	Zygoptera
Stoneflies		Plecoptera
True Bugs		Hemiptera
Fishflies & Alderflies		Megaloptera
Caddisflies	2	Trichoptera
Aquatic Moths		Lepidoptera
Beetles		Coleoptera
Snails & Limpets	4	Gastropoda
Midges	13	Chironomidae
Horse & Deer Flies		Tabanidae
Mosquitos		Culicidae
No-see-ums	1	Ceratopogonidae
Craneflies		Tipulidae
Blackflies		Simuliidae
Misc. True Flies		Misc. Diptera
Total Count	122	
Number of Taxa	13	
		Muskoka Average *
Richness	13	**13**
% EOT	5	**17**
% Chironomids	11	**8**
% Predators	3	**24**
% Shredders	2	**2**
% Collectors/Gatherers	87	**68**
Hilsenhoff Index	7.02	**6.27**

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