THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Lake Muskoka - Boyd's Bay

Town of Bracebridge/Township of Muskoka Lakes

Common Name	Site 1				Scientific Name
	2021	2022	2023	2025	
Hydras					Coelenterata
Flatworms		1	2		Turbellaria
Roundworms	3	6	11	7	Nematoda
Aquatic Earthworms	1		39	2	Oligochaeta
Leeches		1			Hirudinaea
Sow Bugs	6	37	1	22	Isopoda
Clams & Mussels	3		1	1	Bivalvia
Scuds	6	45	14	39	Amphipoda
Crayfish					Decapoda
Mites	109	8	12	41	Hydracarina
Mayflies	9	1			Ephemeroptera
Dragonflies			2	1	Anisoptera
Damselflies					Zygoptera
Stoneflies					Plecoptera
True Bugs					Hemiptera
Fishflies & Alderflies				3	Megaloptera
Caddisflies	2		2	5	Trichoptera
Aquatic Moths			1	2	Lepidoptera
Beetles			2	3	Coleoptera
Snails & Limpets	109		27	1	Gastropoda
Midges		7	2	1	Chironomidae
Horse & Deer Flies					Tabanidae
Mosquitos				1	Culicidae
No-see-ums	7			6	Ceratopogonidae
Craneflies					Tipulidae
Blackflies					Simuliidae
Misc. True Flies					Misc. Diptera
Total Count	255	106	116	135	
Number of Taxa	10	8	13	15	
					Muskoka Average *
Richness	10	8	13	15	**13**
% EOT	4	1	3	4	**17**
% Chironomids	3	7	2	1	**8**
% Predators	43	9	16	40	**24**
% Shredders	1	0	3	5	**2**
% Collectors/Gatherers	11	85	48	48	**68**
Hilsenhoff Index	6.47	6.70	6.74	6.01	**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

Lake Muskoka - Boyd's Bay

Town of Bracebridge/Township of Muskoka Lakes

Common Name	Site 2[R]				Scientific Name
	2021	2022	2023	2024	
Hydras					Coelenterata
Flatworms		1			Turbellaria
Roundworms	15	37		4	Nematoda
Aquatic Earthworms	1		9		Oligochaeta
Leeches	2	1			Hirudinaea
Sow Bugs	21	2	46	59	Isopoda
Clams & Mussels				7	Bivalvia
Scuds	9	9	42	20	Amphipoda
Crayfish					Decapoda
Mites	59	9		8	Hydracarina
Mayflies	1	2			Ephemeroptera
Dragonflies		1			Anisoptera
Damselflies			1	4	Zygoptera
Stoneflies					Plecoptera
True Bugs					Hemiptera
Fishflies & Alderflies					Megaloptera
Caddisflies	4	6		1	Trichoptera
Aquatic Moths					Lepidoptera
Beetles					Coleoptera
Snails & Limpets	5	69	2	5	Gastropoda
Midges	11	6			Chironomidae
Horse & Deer Flies					Tabanidae
Mosquitos					Culicidae
No-see-ums					Ceratopogonidae
Craneflies					Tipulidae
Blackflies					Simuliidae
Misc. True Flies					Misc. Diptera
Total Count	128	143	100	108	
Number of Taxa	10	11	5	8	
					Muskoka Average *
Richness	10	11	5	8	**13**
% EOT	4	6	1	5	**17**
% Chironomids	9	4	0	0	**8**
% Predators	48	8	1	11	**24**
% Shredders	3	4	0	1	**2**
% Collectors/Gatherers	34	13	97	73	**68**
Hilsenhoff Index	6.31	6.19	7.13	7.25	**6.27**

R = Reference Site

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet
Lake Muskoka - Muskoka Bay
Town of Gravenhurst

Common Name	Site 1									Scientific Name
	2007			2011			2012			
	1	2	3	1	2	3	1	2	3	
Hydras										Coelenterata
Flatworms					1		4	10	15	Turbellaria
Roundworms								1		Nematoda
Aquatic Earthworms	10	1	2	13	2	2	66	43	34	Oligochaeta
Leeches										Hirudinaea
Sow Bugs	8	3	7	4	11	16	10	8	3	Isopoda
Clams & Mussels							1			Bivalvia
Scuds	30	14	52	42	77	63	75	102	45	Amphipoda
Crayfish										Decapoda
Mites	25	47	39	39	10	6	39	35	55	Hydracarina
Mayflies	6	10	3	3	8	5	13	13	8	Ephemeroptera
Dragonflies	5		8	1	9	6	4	2	6	Anisoptera
Damselflies		3	5		1	3	5	5	19	Zygoptera
Stoneflies										Plecoptera
True Bugs										Hemiptera
Fishflies & Alderflies					1	2	5		1	Megaloptera
Caddisflies					1		16	6	3	Trichoptera
Aquatic Moths					1					Lepidoptera
Beetles									1	Coleoptera
Snails & Limpets			1	3	3	3	21	18	28	Gastropoda
Midges	18	22	5	25	8	5	51	37	29	Chironomidae
Horse & Deer Flies										Tabanidae
Mosquitos										Culicidae
No-see-ums		1	3	2	1	1	15	18	21	Ceratopogonidae
Craneflies										Tipulidae
Blackflies										Simuliidae
Misc. True Flies										Misc. Diptera
Total Count	102	101	125	132	134	112	325	298	268	
Number of Taxa	7	8	10	9	14	11	14	13	14	
										Muskoka Average *
Richness	8			11			14			**13**
% EOT	12			10			11			**17**
% Chironomids	14			10			13			**8**
% Predators	41			22			30			**24**
% Shredders	0			0			3			**2**
% Collectors/Gatherers	58			75			60			**68**
Hilsenhoff Index	6.1			6.28			6.42			**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Lake Muskoka - Sandy Bay

Town of Bracebridge

Common Name	Site 1		Scientific Name
	2024	2025	
Hydras			Coelenterata
Flatworms			Turbellaria
Roundworms	5		Nematoda
Aquatic Earthworms	4		Oligochaeta
Leeches			Hirudinaea
Sow Bugs	7		Isopoda
Clams & Mussels			Bivalvia
Scuds	51	45	Amphipoda
Crayfish	1		Decapoda
Mites	10	23	Hydracarina
Mayflies	2	2	Ephemeroptera
Dragonflies			Anisoptera
Damselflies			Zygoptera
Stoneflies			Plecoptera
True Bugs			Hemiptera
Fishflies & Alderflies			Megaloptera
Caddisflies	9	2	Trichoptera
Aquatic Moths			Lepidoptera
Beetles	1	3	Coleoptera
Snails & Limpets	2		Gastropoda
Midges	8	7	Chironomidae
Horse & Deer Flies			Tabanidae
Mosquitos			Culicidae
No-see-ums	3	5	Ceratopogonidae
Craneflies			Tipulidae
Blackflies			Simuliidae
Misc. True Flies			Misc. Diptera
Total Count	103	87	
Number of Taxa	12	7	
			Muskoka Average *
Richness	12	7	**13**
% EOT	11	5	**17**
% Chironomids	8	8	**8**
% Predators	14	36	**24**
% Shredders	9	2	**2**
% Collectors/Gatherers	71	62	**68**
Hilsenhoff Index	6.05	6.08	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Lake Muskoka - Sandy Bay

Town of Bracebridge

Common Name	Site 2 2024	Scientific Name
Hydras		Coelenterata
Flatworms		Turbellaria
Roundworms	7	Nematoda
Aquatic Earthworms		Oligochaeta
Leeches		Hirudinaea
Sow Bugs	8	Isopoda
Clams & Mussels		Bivalvia
Scuds	59	Amphipoda
Crayfish	3	Decapoda
Mites	7	Hydracarina
Mayflies	6	Ephemeroptera
Dragonflies		Anisoptera
Damselflies		Zygoptera
Stoneflies		Plecoptera
True Bugs		Hemiptera
Fishflies & Alderflies	6	Megaloptera
Caddisflies	9	Trichoptera
Aquatic Moths		Lepidoptera
Beetles	2	Coleoptera
Snails & Limpets	7	Gastropoda
Midges	8	Chironomidae
Horse & Deer Flies		Tabanidae
Mosquitos		Culicidae
No-see-ums	1	Ceratopogonidae
Craneflies		Tipulidae
Blackflies		Simuliidae
Misc. True Flies		Misc. Diptera
Total Count	123	
Number of Taxa	12	
		Muskoka Average *
Richness	12	**13**
% EOT	12.2	**17**
% Chironomids	6.504	**8**
% Predators	13.01	**24**
% Shredders	7.317	**2**
% Collectors/Gatherers	68.29	**68**
Hilsenhoff Index	5.87	**6.27**

R = Reference Site

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet
Lake Muskoka - Weismiller Bay
Township of Muskoka Lakes

Common Name	Site 1					Scientific Name
	2021	2022	2023	2024	2025	
Hydras					1	Coelenterata
Flatworms	1	1		1		Turbellaria
Roundworms		15	6	8	16	Nematoda
Aquatic Earthworms	7		6	12		Oligochaeta
Leeches						Hirudinaea
Sow Bugs	11	9	54	19	22	Isopoda
Clams & Mussels						Bivalvia
Scuds	47	28	31	53	91	Amphipoda
Crayfish						Decapoda
Mites	6	12		8	55	Hydracarina
Mayflies	8	2	3			Ephemeroptera
Dragonflies						Anisoptera
Damselflies						Zygoptera
Stoneflies		1				Plecoptera
True Bugs						Hemiptera
Fishflies & Alderflies						Megaloptera
Caddisflies	4	9			11	Trichoptera
Aquatic Moths				1		Lepidoptera
Beetles				1		Coleoptera
Snails & Limpets		1	1	1	1	Gastropoda
Midges	19	31	6	1	10	Chironomidae
Horse & Deer Flies						Tabanidae
Mosquitos						Culicidae
No-see-ums	6	3			11	Ceratopogonidae
Craneflies						Tipulidae
Blackflies						Simuliidae
Misc. True Flies						Misc. Diptera
Total Count	109	112	107	105	218	
Number of Taxa	9	11	7	10	9	
						Muskoka Average *
Richness	9	9	7	10	9	**13**
% EOT	11	11	3	0	5	**17**
% Chironomids	17	28	6	1	5	**8**
% Predators	12	15	0	10	31	**24**
% Shredders	4	8	0	1	5	**2**
% Collectors/Gatherers	84	63	93	81	56	**68**
Hilsenhoff Index	6.34	6.07	7.10	6.50	7.35	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Lake Muskoka - Weismiller Bay

Township of Muskoka Lakes

Common Name	Site 2 [R]				Scientific Name
	2021	2022	2023	2024	
Hydras					Coelenterata
Flatworms	1	1	11	1	Turbellaria
Roundworms	45	7		2	Nematoda
Aquatic Earthworms	3	2	16		Oligochaeta
Leeches					Hirudinaea
Sow Bugs	14	38	20	65	Isopoda
Clams & Mussels				2	Bivalvia
Scuds	6	15	29	13	Amphipoda
Crayfish					Decapoda
Mites	9	36	1	17	Hydracarina
Mayflies	1	3	1		Ephemeroptera
Dragonflies					Anisoptera
Damselflies			1		Zygoptera
Stoneflies					Plecoptera
True Bugs					Hemiptera
Fishflies & Alderflies	1				Megaloptera
Caddisflies	1	7		10	Trichoptera
Aquatic Moths					Lepidoptera
Beetles				1	Coleoptera
Snails & Limpets	2	2	23	4	Gastropoda
Midges	20	11		1	Chironomidae
Horse & Deer Flies					Tabanidae
Mosquitos		2			Culicidae
No-see-ums	1				Ceratopogonidae
Craneflies					Tipulidae
Blackflies					Simuliidae
Misc. True Flies					Misc. Diptera
Total Count	104	124	102	116	
Number of Taxa	12	11	8	10	
					Muskoka Average *
Richness	12	11	8	10	**13**
% EOT	2	8	2	9	**17**
% Chironomids	19	9	0	1	**8**
% Predators	12	31	13	16	**24**
% Shredders	1	6	0	9	**2**
% Collectors/Gatherers	42	56	65	68	**68**
Hilsenhoff Index	6.04	6.54	6.72	6.97	**6.27**

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