THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Bella Lake

Township of Lake of Bays

Common Name	Site 1[R]							Scientific Name
	2004	2005	2014	2017	2018	2024	2025	
Hydras								Coelenterata
Flatworms	3		6			1		Turbellaria
Roundworms	18	13	29	1		1	19	Nematoda
Aquatic Earthworms	33	4	35	49	27		6	Oligochaeta
Leeches				1	2			Hirudinaea
Sow Bugs								Isopoda
Clams & Mussels	4		2	1		3		Bivalvia
Scuds	105	177	112	134	135	32	24	Amphipoda
Crayfish								Decapoda
Mites	13	12	15	32	92	8	33	Hydracarina
Mayflies	16	27	30	9	19			Ephemeroptera
Dragonflies	36	15	35	12	13	36	12	Anisoptera
Damselflies	6	8	4	3	16	3		Zygoptera
Stoneflies								Plecoptera
True Bugs								Hemiptera
Fishflies & Alderflies	4		14		3		1	Megaloptera
Caddisflies	17	15	18	9	1	2		Trichoptera
Aquatic Moths								Lepidoptera
Beetles	14	39	19	6	2	1		Coleoptera
Snails & Limpets	14	18		6	2	6	1	Gastropoda
Midges	117	42	41	60	27	17	23	Chironomidae
Horse & Deer Flies				1				Tabanidae
Mosquitos				4	7			Culicidae
No-see-ums	15	2	13	10	20	3	7	Ceratopogonidae
Craneflies								Tipulidae
Blackflies								Simuliidae
Misc. True Flies			7					Misc. Diptera
Total Count	415	372	380	338	366	113	126	
Number of Taxa	15	12	15	16	14	12	9	
								Muskoka Average *
Richness	15	13	15	16	14	12	9	**13**
% EOT	17	18	23	10	13	36	9.5	**17**
% Chironomids	28	11	11	18	7	15	18	**8**
% Predators	21	20	22	19	40	46	42	**24**
% Shredders	4	4	5	3	1	2	0	**2**
% Collectors/Gatherers	65	67	59	76	59	43	42	**68**
Hilsenhoff Index	6.05	5.77	5.75	6.38	6.20	5.88	5.81	**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

Bella Lake

Township of Lake of Bays

Common Name	Site 2[R]					Scientific Name
	2007	2008	2019	2023	2025	
Hydras						Coelenterata
Flatworms	21				2	Turbellaria
Roundworms			8	3	10	Nematoda
Aquatic Earthworms	25	10	8		1	Oligochaeta
Leeches		5	1	2		Hirudinaea
Sow Bugs			5	1		Isopoda
Clams & Mussels			2			Bivalvia
Scuds	204	72	227	71	93	Amphipoda
Crayfish					1	Decapoda
Mites	6	37	23	16	30	Hydracarina
Mayflies	7	12	2	5	5	Ephemeroptera
Dragonflies	26	12	8	2	2	Anisoptera
Damselflies	6			1		Zygoptera
Stoneflies			3			Plecoptera
True Bugs		3	2			Hemiptera
Fishflies & Alderflies				1	3	Megaloptera
Caddisflies	1	1	3			Trichoptera
Aquatic Moths						Lepidoptera
Beetles	1	1	4	1		Coleoptera
Snails & Limpets	8	8	11	1		Gastropoda
Midges	55	71	14	28	5	Chironomidae
Horse & Deer Flies			1		1	Tabanidae
Mosquitos			1			Culicidae
No-see-ums	14	2	2			Ceratopogonidae
Craneflies						Tipulidae
Blackflies	1					Simuliidae
Misc. True Flies	3	44				Misc. Diptera
Total Count	378	278	325	132	153	
Number of Taxa	14	13	18	12	11	
						Muskoka Average *
Richness	14	13	18	12	11	**13**
% EOT	10	9	4	6	5	**17**
% Chironomids	15	26	4	21	3	**8**
% Predators	20	22	14	17	25	**24**
% Shredders	0	0	1	0	0	**2**
% Collectors/Gatherers	78	75	79	80	69	**68**
Hilsenhoff Index	6.08	6.12	6.04	6.17	7.01	**6.27**

R = Reference Site

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet
Bella Lake
Township of Lake of Bays

Common Name	Site 3				Scientific Name
	2011	2012	2023	2025	
Hydras					Coelenterata
Flatworms					Turbellaria
Roundworms	1	1	2	13	Nematoda
Aquatic Earthworms	6	14	2		Oligochaeta
Leeches	15	7	3		Hirudinaea
Sow Bugs	250	35	115	93	Isopoda
Clams & Mussels	12				Bivalvia
Scuds	96	282	24	13	Amphipoda
Crayfish					Decapoda
Mites	8	29	4	9	Hydracarina
Mayflies	2	1		7	Ephemeroptera
Dragonflies	3	17	1	2	Anisoptera
Damselflies	9	17		2	Zygoptera
Stoneflies					Plecoptera
True Bugs		1			Hemiptera
Fishflies & Alderflies				1	Megaloptera
Caddisflies	31	13			Trichoptera
Aquatic Moths					Lepidoptera
Beetles	2	20			Coleoptera
Snails & Limpets	2	1			Gastropoda
Midges	52	45	4	7	Chironomidae
Horse & Deer Flies					Tabanidae
Mosquitos	3			1	Culicidae
No-see-ums	3	1		4	Ceratopogonidae
Craneflies					Tipulidae
Blackflies					Simuliidae
Misc. True Flies					Misc. Diptera
Total Count	495	484	155	152	
Number of Taxa	16	15	8	11	
					Muskoka Average *
Richness	16	15	8	11	**13**
% EOT	9	10	1	7	**17**
% Chironomids	11	9	3	5	**8**
% Predators	8	19	5	12	**24**
% Shredders	6	3	0	0	**2**
% Collectors/Gatherers	83	78	94	80	**68**
Hilsenhoff Index	7.14	6.18	7.55	6.85	**6.27**

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