THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Dickie Lake

Township of Lake of Bays

Common Name	Site 1[R]								Scientific Name
	2005	2006	2013	2016	2022	2023	2024	2025	
Hydras									Coelenterata
Flatworms	3			1					Turbellaria
Roundworms		4	13	1		2	6		Nematoda
Aquatic Earthworms	2	2	1	23	9	5	5		Oligochaeta
Leeches	1						1		Hirudinaea
Sow Bugs									Isopoda
Clams & Mussels			6			4	1	1	Bivalvia
Scuds	226	113	94	218	70	34	14	18	Amphipoda
Crayfish									Decapoda
Mites	52	73	17	6	2	17	18	28	Hydracarina
Mayflies	62	19	66	3		6	14	25	Ephemeroptera
Dragonflies	79	33	22	10	2	6	12	4	Anisoptera
Damselflies	61	14	1	32	7	27	17	32	Zygoptera
Stoneflies			1						Plecoptera
True Bugs			1				3	5	Hemiptera
Fishflies & Alderflies			24			5			Megaloptera
Caddisflies	11	8	1	12	8		1	1	Trichoptera
Aquatic Moths			1						Lepidoptera
Beetles		8	8	2		11	11		Coleoptera
Snails & Limpets	18	3	12	12	6	5	3	1	Gastropoda
Midges	170	122	44	61	23	26	14	7	Chironomidae
Horse & Deer Flies									Tabanidae
Mosquitos	6	2							Culicidae
No-see-ums	4	15	8	5	3		1		Ceratopogonidae
Craneflies									Tipulidae
Blackflies									Simuliidae
Misc. True Flies			1						Misc. Diptera
Total Count	695	416	321	386	130	148	121	122	
Number of Taxa	13	13	18	13	9	12	15	10	
									Muskoka Average *
Richness	12	12	18	13	8	12	15	10	**13**
% EOT	31	18	28	15	28	26	36	51	**17**
% Chironomids	25	29	14	16	1	18	12	6	**8**
% Predators	29	34	26	15	32	45	52	57	**24**
% Shredders	2	2	1	3	0	0	1	1	**2**
% Collectors/Gatherers	67	62	64	79	67	48	39	41	**68**
Hilsenhoff Index	5.95	6.12	5.68	6.28	6.10	6.20	5.91	5.87	**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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Dickie Lake

Township of Lake of Bays

Common Name	Site 2[R]							Scientific Name
	2008	2009	2021	2022	2023	2024	2025	
Hydras								Coelenterata
Flatworms								Turbellaria
Roundworms	1		1	5	1			Nematoda
Aquatic Earthworms	8				3			Oligochaeta
Leeches								Hirudinaea
Sow Bugs								Isopoda
Clams & Mussels	13	4		1	1		1	Bivalvia
Scuds	41	194	4	1	12	2	1	Amphipoda
Crayfish								Decapoda
Mites	23	30	38	13	32	11	13	Hydracarina
Mayflies	51	25	49	9	2	16	33	Ephemeroptera
Dragonflies	12	10	7	26	17	41	15	Anisoptera
Damselflies	13	9	21	35	60	40	24	Zygoptera
Stoneflies								Plecoptera
True Bugs			3				1	Hemiptera
Fishflies & Alderflies	4	1		10	5		1	Megaloptera
Caddisflies	32	22	6		4	1		Trichoptera
Aquatic Moths								Lepidoptera
Beetles	1			5	6			Coleoptera
Snails & Limpets	22		5	11	8	4	5	Gastropoda
Midges	87	96	5	9	30	30	10	Chironomidae
Horse & Deer Flies								Tabanidae
Mosquitos	1							Culicidae
No-see-ums	1		3		2	1		Ceratopogonidae
Craneflies								Tipulidae
Blackflies								Simuliidae
Misc. True Flies				1				Misc. Diptera
Total Count	310	391	142	126	183	146	104	
Number of Taxa	15	9	11	12	14	9	10	
								Muskoka Average *
Richness	14	9	11	12	14	9	10	**13**
% EOT	35	17	58	56	45	67	69	**17**
% Chironomids	28	25	4	7	16	21	10	**8**
% Predators	17	13	50	71	67	64	52	**24**
% Shredders	10	6	4	0	2	1	0	**2**
% Collectors/Gatherers	47	81	41	16	26	33	42	**68**
Hilsenhoff Index	5.30	6.08	5.71	5.89	6.31	6.10	6.33	**6.27**

R = Reference Site

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Dickie Lake

Township of Lake of Bays

Common Name	Site 3		Scientific Name
	2017	2018	
Hydras			Coelenterata
Flatworms			Turbellaria
Roundworms	1	2	Nematoda
Aquatic Earthworms	26	17	Oligochaeta
Leeches			Hirudinaea
Sow Bugs			Isopoda
Clams & Mussels		3	Bivalvia
Scuds	26	11	Amphipoda
Crayfish			Decapoda
Mites	77	86	Hydracarina
Mayflies	27	94	Ephemeroptera
Dragonflies	12	34	Anisoptera
Damselflies	45	10	Zygoptera
Stoneflies		39	Plecoptera
True Bugs			Hemiptera
Fishflies & Alderflies		1	Megaloptera
Caddisflies	1	9	Trichoptera
Aquatic Moths			Lepidoptera
Beetles	5	2	Coleoptera
Snails & Limpets	5	34	Gastropoda
Midges	13	26	Chironomidae
Horse & Deer Flies			Tabanidae
Mosquitos	1	5	Culicidae
No-see-ums	2	8	Ceratopogonidae
Craneflies			Tipulidae
Blackflies			Simuliidae
Misc. True Flies			Misc. Diptera
Total Count	241	381	
Number of Taxa	13	16	
			Muskoka Average *
Richness	13	15	**13**
% EOT	35	36	**17**
% Chironomids	5	7	**8**
% Predators	58	45	**24**
% Shredders	0	0	**2**
% Collectors/Gatherers	38	40	**68**
Hilsenhoff Index	6.26	5.28	**6.27**

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