THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Rebecca Lake

Township of Lake of Bays

Common Name	Site 1 R				Scientific Name
	2009	2010	2013	2024	
Hydras					Coelenterata
Flatworms		1		1	Turbellaria
Roundworms		1	1		Nematoda
Aquatic Earthworms	40	3		11	Oligochaeta
Leeches	3				Hirudinaea
Sow Bugs				2	Isopoda
Clams & Mussels	1		1	7	Bivalvia
Scuds	80	142	126	6	Amphipoda
Crayfish					Decapoda
Mites	53	30	49	19	Hydracarina
Mayflies	31	12	9	2	Ephemeroptera
Dragonflies	22	35	23	8	Anisoptera
Damselflies	10	18	4	3	Zygoptera
Stoneflies					Plecoptera
True Bugs		16			Hemiptera
Fishflies & Alderflies					Megaloptera
Caddisflies	10	4	6	1	Trichoptera
Aquatic Moths					Lepidoptera
Beetles	24	7	7	5	Coleoptera
Snails & Limpets		7	10	11	Gastropoda
Midges	96	49	139	16	Chironomidae
Horse & Deer Flies					Tabanidae
Mosquitos					Culicidae
No-see-ums	19	2	3	5	Ceratopogonidae
Craneflies					Tipulidae
Blackflies				1	Simuliidae
Misc. True Flies		3	1		Misc. Diptera
Total Count	389	330	379	98	
Number of Taxa	12	15	13	15	
					Muskoka Average *
Richness	12	15	13	15	**13**
% EOT	19	22	17	14	**17**
% Chironomids	25	15	35	16	**8**
% Predators	34	33	23	42	**24**
% Shredders	3	2	2	1	**2**
% Collectors/Gatherers	64	63	73	38	**68**
Hilsenhoff Index	6.19	5.95	6.25	6.47	**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

Rebecca Lake

Township of Lake of Bays

Common Name	Site 2[R]					Scientific Name
	2015	2016	2019	2022	2024	
Hydras						Coelenterata
Flatworms		2				Turbellaria
Roundworms		3	8	1		Nematoda
Aquatic Earthworms	11	20	8	1	1	Oligochaeta
Leeches		2	1			Hirudinaea
Sow Bugs			5		1	Isopoda
Clams & Mussels	2	11	2			Bivalvia
Scuds	84	282	227	41	44	Amphipoda
Crayfish						Decapoda
Mites	234	33	23	39	14	Hydracarina
Mayflies	6	11	2	1	10	Ephemeroptera
Dragonflies	22	38	8	9	9	Anisoptera
Damselflies	1	5			1	Zygoptera
Stoneflies			3			Plecoptera
True Bugs			2		1	Hemiptera
Fishflies & Alderflies	1	1				Megaloptera
Caddisflies		1	3			Trichoptera
Aquatic Moths						Lepidoptera
Beetles	1	1	4			Coleoptera
Snails & Limpets		9	11	5	4	Gastropoda
Midges	60	110	14	27	19	Chironomidae
Horse & Deer Flies	3	6	1			Tabanidae
Mosquitos			1			Culicidae
No-see-ums	2	3	2	3	1	Ceratopogonidae
Craneflies						Tipulidae
Blackflies						Simuliidae
Misc. True Flies		1			1	Misc. Diptera
Total Count	427	539	325	127	106	
Number of Taxa	12	18	18	9	12	
						Muskoka Average *
Richness	12	18	18	9	12	**13**
% EOT	7	10	4	8	19	**17**
% Chironomids	15	20	4	21	18	**8**
% Predators	21	17	14	40	25	**24**
% Shredders	0	0	1	0	0	**2**
% Collectors/Gatherers	78	77	79	55	72	**68**
Hilsenhoff Index	6.15	6.26	6.03	6.18	6.07	**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

Rebecca Lake

Township of Lake of Bays

Common Name	Site 3[R]		Scientific Name
	2021	2022	
Hydras			Coelenterata
Flatworms			Turbellaria
Roundworms	8	6	Nematoda
Aquatic Earthworms	2	1	Oligochaeta
Leeches	1		Hirudinaea
Sow Bugs			Isopoda
Clams & Mussels	1	1	Bivalvia
Scuds	56	77	Amphipoda
Crayfish			Decapoda
Mites	19	10	Hydracarina
Mayflies	1		Ephemeroptera
Dragonflies	1	5	Anisoptera
Damselflies			Zygoptera
Stoneflies			Plecoptera
True Bugs			Hemiptera
Fishflies & Alderflies			Megaloptera
Caddisflies	4		Trichoptera
Aquatic Moths			Lepidoptera
Beetles			Coleoptera
Snails & Limpets	5	1	Gastropoda
Midges	3	8	Chironomidae
Horse & Deer Flies			Tabanidae
Mosquitos			Culicidae
No-see-ums			Ceratopogonidae
Craneflies			Tipulidae
Blackflies			Simuliidae
Misc. True Flies			Misc. Diptera
Total Count	101	109	
Number of Taxa	11	8	
			Muskoka Average *
Richness	11	8	**13**
% EOT	6	5	**17**
% Chironomids	3	7	**8**
% Predators	21	14	**24**
% Shredders	4	0	**2**
% Collectors/Gatherers	61	79	**68**
Hilsenhoff Index	5.98	6.02	**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.