THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Lake Joseph - North

Township of Seguin

Common Name	Site 1				Scientific Name
	2021	2022	2024	2025	
Hydras					Coelenterata
Flatworms					Turbellaria
Roundworms	2		1	3	Nematoda
Aquatic Earthworms		2	2		Oligochaeta
Leeches	4	2			Hirudinaea
Sow Bugs	48	62	54	22	Isopoda
Clams & Mussels			1		Bivalvia
Scuds	25	29	19	28	Amphipoda
Crayfish					Decapoda
Mites	5	7	9	38	Hydracarina
Mayflies	7	7	8	4	Ephemeroptera
Dragonflies	2		6	6	Anisoptera
Damselflies		1	6	6	Zygoptera
Stoneflies					Plecoptera
True Bugs					Hemiptera
Fishflies & Alderflies	1		1	7	Megaloptera
Caddisflies	5	5	2	2	Trichoptera
Aquatic Moths				1	Lepidoptera
Beetles				1	Coleoptera
Snails & Limpets	3	1	1	1	Gastropoda
Midges	9		10	14	Chironomidae
Horse & Deer Flies					Tabanidae
Mosquitos					Culicidae
No-see-ums	1	1	3	3	Ceratopogonidae
Craneflies					Tipulidae
Blackflies					Simuliidae
Misc. True Flies					Misc. Diptera
Total Count	112	117	123	136	
Number of Taxa	12	10	14	14	
					Muskoka Average *
Richness	12	10	14	14	**13**
% EOT	13	11	18	13	**17**
% Chironomids	8	0	8	10	**8**
% Predators	12	9	20	45	**24**
% Shredders	4	4	2	2.2	**2**
% Collectors/Gatherers	79	85	76	50	**68**
Hilsenhoff Index	6.83	7.00	6.89	5.89	**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

Lake Joseph - North

Township of Seguin

Common Name	Site 2[R]		Scientific Name
	2022	2024	
Hydras			Coelenterata
Flatworms			Turbellaria
Roundworms	6		Nematoda
Aquatic Earthworms		9	Oligochaeta
Leeches	1	2	Hirudinaea
Sow Bugs	12	70	Isopoda
Clams & Mussels	1	1	Bivalvia
Scuds	37	40	Amphipoda
Crayfish			Decapoda
Mites	21	36	Hydracarina
Mayflies		1	Ephemeroptera
Dragonflies	5	8	Anisoptera
Damselflies	11	12	Zygoptera
Stoneflies			Plecoptera
True Bugs			Hemiptera
Fishflies & Alderflies			Megaloptera
Caddisflies	3	3	Trichoptera
Aquatic Moths			Lepidoptera
Beetles			Coleoptera
Snails & Limpets	5	3	Gastropoda
Midges	4	6	Chironomidae
Horse & Deer Flies			Tabanidae
Mosquitos			Culicidae
No-see-ums		4	Ceratopogonidae
Craneflies			Tipulidae
Blackflies			Simuliidae
Misc. True Flies			Misc. Diptera
Total Count	106	195	
Number of Taxa	11	13	
			Muskoka Average *
Richness	11	13	**13**
% EOT	19	12	**17**
% Chironomids	4	3	**8**
% Predators	36	32	**24**
% Shredders	3	2	**2**
% Collectors/Gatherers	50	65	**68**
Hilsenhoff Index	6.28	6.87	**6.27**

R = Reference Site

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Lake Joseph - North

Township of Seguin

Common Name	Site 3[R]		Scientific Name
	2023	2025	
Hydras			Coelenterata
Flatworms			Turbellaria
Roundworms		1	Nematoda
Aquatic Earthworms	1	1	Oligochaeta
Leeches		1	Hirudinaea
Sow Bugs	33	43	Isopoda
Clams & Mussels			Bivalvia
Scuds	37	24	Amphipoda
Crayfish			Decapoda
Mites	8	12	Hydracarina
Mayflies	1	1	Ephemeroptera
Dragonflies	11	7	Anisoptera
Damselflies	7	7	Zygoptera
Stoneflies			Plecoptera
True Bugs			Hemiptera
Fishflies & Alderflies	4	1	Megaloptera
Caddisflies	1	6	Trichoptera
Aquatic Moths			Lepidoptera
Beetles		1	Coleoptera
Snails & Limpets		4	Gastropoda
Midges	4	1	Chironomidae
Horse & Deer Flies			Tabanidae
Mosquitos			Culicidae
No-see-ums		1	Ceratopogonidae
Craneflies			Tipulidae
Blackflies			Simuliidae
Misc. True Flies			Misc. Diptera
Total Count	107	111	
Number of Taxa	10	15	
			Muskoka Average *
Richness	10	15	**13**
% EOT	19	19	**17**
% Chironomids	4	1	**8**
% Predators	28	27	**24**
% Shredders	1	5	**2**
% Collectors/Gatherers	71	63	**68**
Hilsenhoff Index	6.53	6.04	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Lake Joseph - North

Township of Seguin

Common Name	Site 4[R]	Scientific Name
	2023	
Hydras		Coelenterata
Flatworms		Turbellaria
Roundworms		Nematoda
Aquatic Earthworms	5	Oligochaeta
Leeches		Hirudinaea
Sow Bugs	71	Isopoda
Clams & Mussels	1	Bivalvia
Scuds	6	Amphipoda
Crayfish		Decapoda
Mites	5	Hydracarina
Mayflies		Ephemeroptera
Dragonflies	3	Anisoptera
Damselflies	7	Zygoptera
Stoneflies		Plecoptera
True Bugs		Hemiptera
Fishflies & Alderflies		Megaloptera
Caddisflies	2	Trichoptera
Aquatic Moths		Lepidoptera
Beetles	3	Coleoptera
Snails & Limpets	3	Gastropoda
Midges	6	Chironomidae
Horse & Deer Flies		Tabanidae
Mosquitos		Culicidae
No-see-ums	2	Ceratopogonidae
Craneflies		Tipulidae
Blackflies		Simuliidae
Misc. True Flies		Misc. Diptera
Total Count	114	
Number of Taxa	12	
		Muskoka Average *
Richness	12	**13**
% EOT	11	**17**
% Chironomids	5	**8**
% Predators	18	**24**
% Shredders	2	**2**
% Collectors/Gatherers	77	**68**
Hilsenhoff Index	7.38	**6.27**

R = Reference Site

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