THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Mary Lake

Town of Huntsville

Common Name	Site 1					Scientific Name
	2007	2008	2011	2023	2025	
Hydras						Coelenterata
Flatworms		1	26	1	7	Turbellaria
Roundworms		4			9	Nematoda
Aquatic Earthworms	82	23	71	4		Oligochaeta
Leeches	1	1		1		Hirudinaea
Sow Bugs	65	45	386	21	49	Isopoda
Clams & Mussels	2		9	3	5	Bivalvia
Scuds	122	169	237	56	104	Amphipoda
Crayfish						Decapoda
Mites		38	3	2	27	Hydracarina
Mayflies	20	38	7	1	1	Ephemeroptera
Dragonflies	3		2	1	2	Anisoptera
Damselflies	1			1	4	Zygoptera
Stoneflies						Plecoptera
True Bugs					1	Hemiptera
Fishflies & Alderflies	14	3	14	2	3	Megaloptera
Caddisflies	26	34	65	7	1	Trichoptera
Aquatic Moths		1				Lepidoptera
Beetles	1		5			Coleoptera
Snails & Limpets	6		25	1	10	Gastropoda
Midges	52	61	26	3	6	Chironomidae
Horse & Deer Flies		1				Tabanidae
Mosquitos	1				1	Culicidae
No-see-ums	3	1				Ceratopogonidae
Craneflies		4				Tipulidae
Blackflies						Simuliidae
Misc. True Flies						Misc. Diptera
Total Count	399	424	876	104	230	
Number of Taxa	15	15	13	14	15	
						Muskoka Average *
Richness	15	15	13	14	15	**13**
% EOT	13	17	8	10	3	**17**
% Chironomids	13	14	3	3	3	**8**
% Predators	6	11	6	8	19	**24**
% Shredders	7	9	7	7	0	**2**
% Collectors/Gatherers	86	79	83	82	70	**68**
Hilsenhoff Index	6.66	6.17	6.86	6.39	6.33	**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

Mary Lake

Town of Huntsville

Common Name	Site 2			Scientific Name
	2009	2010	2013	
Hydras				Coelenterata
Flatworms	4	3	1	Turbellaria
Roundworms				Nematoda
Aquatic Earthworms	7	1		Oligochaeta
Leeches	1			Hirudinaea
Sow Bugs	159	3		Isopoda
Clams & Mussels		6	2	Bivalvia
Scuds	283	335	393	Amphipoda
Crayfish				Decapoda
Mites		4	13	Hydracarina
Mayflies	13	2	14	Ephemeroptera
Dragonflies			2	Anisoptera
Damselflies				Zygoptera
Stoneflies				Plecoptera
True Bugs				Hemiptera
Fishflies & Alderflies	48		2	Megaloptera
Caddisflies	18	36	25	Trichoptera
Aquatic Moths				Lepidoptera
Beetles	1		1	Coleoptera
Snails & Limpets	4	31	5	Gastropoda
Midges	24	6	15	Chironomidae
Horse & Deer Flies				Tabanidae
Mosquitos				Culicidae
No-see-ums			2	Ceratopogonidae
Craneflies				Tipulidae
Blackflies				Simuliidae
Misc. True Flies				Misc. Diptera
Total Count	562	427	475	
Number of Taxa	11	10	12	
				Muskoka Average *
Richness	10	11	12	**13**
% EOT	11	9	9	**17**
% Chironomids	4	1	3	**8**
% Predators	1	2	4	**24**
% Shredders	9	8	5	**2**
% Collectors/Gatherers	89	79	89	**68**
Hilsenhoff Index	6.45	5.80	5.89	**6.27**

R = Reference Site

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Mary Lake

Town of Huntsville

Common Name	Site 3 [R]							Scientific Name
	2014	2015	2016	2017	2023	2024	2025	
Hydras								Coelenterata
Flatworms								Turbellaria
Roundworms	1						6	Nematoda
Aquatic Earthworms		21	19	5	4	2	1	Oligochaeta
Leeches	2	1	2	2				Hirudinaea
Sow Bugs	80	99	49	64	4		5	Isopoda
Clams & Mussels	20	61	30	8	5			Bivalvia
Scuds	230	230	135	173	131	101	84	Amphipoda
Crayfish								Decapoda
Mites		15	46	2		1	44	Hydracarina
Mayflies	18	2	7	5	3			Ephemeroptera
Dragonflies	12	1	2	9	1		4	Anisoptera
Damselflies		1					6	Zygoptera
Stoneflies								Plecoptera
True Bugs							2	Hemiptera
Fishflies & Alderflies	7	4	9	12			5	Megaloptera
Caddisflies	5	2		16	9		8	Trichoptera
Aquatic Moths								Lepidoptera
Beetles		1		1	2	1		Coleoptera
Snails & Limpets	5	26	6	7	2	2	2	Gastropoda
Midges	96	87	27	33	11	20	13	Chironomidae
Horse & Deer Flies		1		3				Tabanidae
Mosquitos			26	1				Culicidae
No-see-ums		3	16				2	Ceratopogonidae
Craneflies				3				Tipulidae
Blackflies								Simuliidae
Misc. True Flies	2			1				Misc. Diptera
Total Count	478	555	374	345	172	127	182	
Number of Taxa	12	16	13	17	10	6	13	
								Muskoka Average *
Richness	12	16	14	17	10	6	13	**13**
% EOT	8	1	3	9	8	0	10	**17**
% Chironomids	20	16	7	10	6	16	7	**8**
% Predators	4	5	20	8	2	2	35	**24**
% Shredders	1	0	1	6	5	0	4	**2**
% Collectors/Gatherers	90	79	70	82	89	97	57	**68**
Hilsenhoff Index	6.52	6.83	6.68	6.35	6.08	6.19	5.74	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Mary Lake

Town of Huntsville

Common Name	Site 4[R]				Scientific Name
	2021	2022	2024	2025	
Hydras					Coelenterata
Flatworms	1		2	1	Turbellaria
Roundworms	14	5	11	7	Nematoda
Aquatic Earthworms	4	4	4		Oligochaeta
Leeches	1	1			Hirudinaea
Sow Bugs	6	12	6	11	Isopoda
Clams & Mussels	1	1	5	10	Bivalvia
Scuds	75	76	62	66	Amphipoda
Crayfish					Decapoda
Mites	30	2	14	21	Hydracarina
Mayflies	38	48	3	3	Ephemeroptera
Dragonflies		2	1		Anisoptera
Damselflies			5	1	Zygoptera
Stoneflies					Plecoptera
True Bugs					Hemiptera
Fishflies & Alderflies	4	10	3	2	Megaloptera
Caddisflies	22	17	20	7	Trichoptera
Aquatic Moths			2		Lepidoptera
Beetles	1				Coleoptera
Snails & Limpets	2	5	4	13	Gastropoda
Midges	7	5	4	4	Chironomidae
Horse & Deer Flies					Tabanidae
Mosquitos					Culicidae
No-see-ums			1	9	Ceratopogonidae
Craneflies					Tipulidae
Blackflies					Simuliidae
Misc. True Flies					Misc. Diptera
Total Count	206	188	147	155	
Number of Taxa	14	13	16	13	
					Muskoka Average *
Richness	14	13	16	13	**13**
% EOT	27	36	20	7.1	**17**
% Chironomids	3	3	2.7	2.6	**8**
% Predators	18	8	18	22	**24**
% Shredders	11	9	15	4.5	**2**
% Collectors/Gatherers	62	77	54	54	**68**
Hilsenhoff Index	5.65	5.66	5.85	5.76	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Mary Lake

Town of Huntsville

Common Name	Site 5[R]		Scientific Name
	2023	2024	
Hydras			Coelenterata
Flatworms			Turbellaria
Roundworms	1		Nematoda
Aquatic Earthworms			Oligochaeta
Leeches	1	2	Hirudinaea
Sow Bugs	55	44	Isopoda
Clams & Mussels			Bivalvia
Scuds	47	46	Amphipoda
Crayfish			Decapoda
Mites	3	1	Hydracarina
Mayflies	3	3	Ephemeroptera
Dragonflies		1	Anisoptera
Damselflies		1	Zygoptera
Stoneflies			Plecoptera
True Bugs			Hemiptera
Fishflies & Alderflies		2	Megaloptera
Caddisflies	2	1	Trichoptera
Aquatic Moths			Lepidoptera
Beetles	1	2	Coleoptera
Snails & Limpets	6		Gastropoda
Midges	4	8	Chironomidae
Horse & Deer Flies		1	Tabanidae
Mosquitos			Culicidae
No-see-ums		1	Ceratopogonidae
Craneflies			Tipulidae
Blackflies			Simuliidae
Misc. True Flies			Misc. Diptera
Total Count	123	113	
Number of Taxa	10	13	
			Muskoka Average *
Richness	10	13	**13**
% EOT	4	5	**17**
% Chironomids	3	7	**8**
% Predators	4	10	**24**
% Shredders	2	1	**2**
% Collectors/Gatherers	89	89	**68**
Hilsenhoff Index	6.91	6.79	**6.27**

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