THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Kahshe Lake

Town of Gravenhurst

Common Name	Site 2 [R]							Scientific Name
	2004	2005	2011	2014	2022	2024	2025	
Hydras								Coelenterata
Flatworms			2	1	4			Turbellaria
Roundworms		2			3	4	9	Nematoda
Aquatic Earthworms	2	1			2	3		Oligochaeta
Leeches	1		3	1			1	Hirudinaea
Sow Bugs	206	123	210	212	22	48	16	Isopoda
Clams & Mussels			1					Bivalvia
Scuds	89	114	170	138	118	16	25	Amphipoda
Crayfish			2					Decapoda
Mites	16	22	17	13	11	2	18	Hydracarina
Mayflies	4	35	38	20	43	12	10	Ephemeroptera
Dragonflies	4	18	23	9	5	5	5	Anisoptera
Damselflies		23	19	24	10	5	12	Zygoptera
Stoneflies								Plecoptera
True Bugs		1					3	Hemiptera
Fishflies & Alderflies		1		3		2		Megaloptera
Caddisflies		5	3	40	8	2		Trichoptera
Aquatic Moths								Lepidoptera
Beetles	4	2	2	8		1	1	Coleoptera
Snails & Limpets	3	4	5	10	2	4	1	Gastropoda
Midges	15	18	18	22	1	9	2	Chironomidae
Horse & Deer Flies								Tabanidae
Mosquitos							1	Culicidae
No-see-ums	1			2		2		Ceratopogonidae
Craneflies								Tipulidae
Blackflies								Simuliidae
Misc. True Flies				1	1			Misc. Diptera
Total Count	345	369	513	504	230	115	104	
Number of Taxa	11	14	14	15	13	14	13	
								Muskoka Average *
Richness	12	14	15	15	13	14	13	**13**
% EOT	2	22	16	19	29	21	26	**17**
% Chironomids	4	5	4	4	0	8	2	**8**
% Predators	8	18	13	12	13	15	38	**24**
% Shredders	0	1	1	8	3	2	0	**2**
% Collectors/Gatherer	92	79	85	78	81	77	52	**68**
Hilsenhoff Index	7.23	6.62	6.77	6.69	5.93	6.77	5.78	**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
Kahshe Lake
Town of Gravenhurst

Common Name	Site 3 [R]								Scientific Name
	2006	2007	2012	2013	2021	2023	2024	2025	
Hydras									Coelenterata
Flatworms	1	1	1	1		2			Turbellaria
Roundworms	13			4	5			7	Nematoda
Aquatic Earthworms	10	3	45	5	1	2	1		Oligochaeta
Leeches		1	2	1					Hirudinaea
Sow Bugs			42	75	13	14	33	6	Isopoda
Clams & Mussels	1		1				1		Bivalvia
Scuds	133	219	268	177	38	52	19	31	Amphipoda
Crayfish						1			Decapoda
Mites	20	33	7	26	13	13	3	20	Hydracarina
Mayflies	31	55	52	105	11	4	18	14	Ephemeroptera
Dragonflies	29	15	21	24	3	4	7	2	Anisoptera
Damselflies	17	20	27	15	7	13	6	15	Zygoptera
Stoneflies									Plecoptera
True Bugs	2		1	1				5	Hemiptera
Fishflies & Alderflies	2		1	2		1	1	1	Megaloptera
Caddisflies	15	4	14	31	23	5	2		Trichoptera
Aquatic Moths			1						Lepidoptera
Beetles	17	7	29	12		2		1	Coleoptera
Snails & Limpets	10	4	3			1	7		Gastropoda
Midges	7	25	55	15	1	1	5	2	Chironomidae
Horse & Deer Flies									Tabanidae
Mosquitos									Culicidae
No-see-ums	2	2	11	1			2	3	Ceratopogonidae
Craneflies									Tipulidae
Blackflies									Simuliidae
Misc. True Flies			3						Misc. Diptera
Total Count	310	389	584	495	115	115	105	107	
Number of Taxa	16	13	19	16	10	14	13	12	
									Muskoka Average *
Richness	16	13	19	16	10	14	13	12	**13**
% EOT	30	24	20	35	38	23	31	29	**17**
% Chironomids	2	6	9	3	1	1	5	2	**8**
% Predators	29	20	17	17	20	30	18	44	**24**
% Shredders	5	1	3	6	20	4	2	0	**2**
% Collectors/Gatherers	58	78	80	76	56	64	72	50	**68**
Hilsenhoff Index	5.71	5.89	6.17	5.93	5.75	6.17	6.54	5.97	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet
Kahshe Lake
Town of Gravenhurst

Common Name	Site 5[R] 2023	Scientific Name
Hydras		Coelenterata
Flatworms	1	Turbellaria
Roundworms		Nematoda
Aquatic Earthworms	7	Oligochaeta
Leeches		Hirudinaea
Sow Bugs	36	Isopoda
Clams & Mussels	1	Bivalvia
Scuds	31	Amphipoda
Crayfish		Decapoda
Mites	19	Hydracarina
Mayflies	10	Ephemeroptera
Dragonflies	6	Anisoptera
Damselflies	8	Zygoptera
Stoneflies		Plecoptera
True Bugs		Hemiptera
Fishflies & Alderflies		Megaloptera
Caddisflies	8	Trichoptera
Aquatic Moths		Lepidoptera
Beetles		Coleoptera
Snails & Limpets	8	Gastropoda
Midges	4	Chironomidae
Horse & Deer Flies		Tabanidae
Mosquitos		Culicidae
No-see-ums	1	Ceratopogonidae
Craneflies		Tipulidae
Blackflies		Simuliidae
Misc. True Flies		Misc. Diptera
Total Count	140	
Number of Taxa	13	
		Muskoka Average *
Richness	13	**13**
% EOT	23	**17**
% Chironomids	3	**8**
% Predators	25	**24**
% Shredders	6	**2**
% Collectors/Gatherers	63	**68**
Hilsenhoff Index	6.53	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet
Kahshe Lake
Town of Gravenhurst

Common Name	Site 6[R] 2015	Scientific Name
Hydras		Coelenterata
Flatworms		Turbellaria
Roundworms		Nematoda
Aquatic Earthworms	3	Oligochaeta
Leeches	2	Hirudinaea
Sow Bugs	94	Isopoda
Clams & Mussels		Bivalvia
Scuds	152	Amphipoda
Crayfish		Decapoda
Mites	7	Hydracarina
Mayflies	11	Ephemeroptera
Dragonflies	25	Anisoptera
Damselflies	9	Zygoptera
Stoneflies		Plecoptera
True Bugs		Hemiptera
Fishflies & Alderflies		Megaloptera
Caddisflies	4	Trichoptera
Aquatic Moths		Lepidoptera
Beetles	5	Coleoptera
Snails & Limpets	1	Gastropoda
Midges	11	Chironomidae
Horse & Deer Flies		Tabanidae
Mosquitos		Culicidae
No-see-ums	1	Ceratopogonidae
Craneflies		Tipulidae
Blackflies		Simuliidae
Misc. True Flies		Misc. Diptera
Total Count	325	
Number of Taxa	13	
		Muskoka Average *
Richness	13	**13**
% EOT	15	**17**
% Chironomids	3	**8**
% Predators	15	**24**
% Shredders	1	**2**
% Collectors/Gatherers	83	**68**
Hilsenhoff Index	6.51	**6.27**

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