THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Buck Lake

Town of Huntsville

Common Name	Site 1[R]							Scientific Name
	2009	2010	2014	2019	2023	2024	2025	
Hydras								Coelenterata
Flatworms			1		3			Turbellaria
Roundworms				1	1	1	3	Nematoda
Aquatic Earthworms	3	1		6	7	2		Oligochaeta
Leeches		8	1	5				Hirudinaea
Sow Bugs		136		1				Isopoda
Clams & Mussels	2					3		Bivalvia
Scuds	459	171	207	182	17	11	82	Amphipoda
Crayfish						2		Decapoda
Mites	15	7	33	15	31	17	61	Hydracarina
Mayflies	72	21	27	5	2	21	17	Ephemeroptera
Dragonflies	23	18	18	19	12	19	8	Anisoptera
Damselflies	17	71	7	14	7	11	13	Zygoptera
Stoneflies		1		1				Plecoptera
True Bugs	3		3				1	Hemiptera
Fishflies & Alderflies	23	25	15	34	6		2	Megaloptera
Caddisflies	6		6	2			1	Trichoptera
Aquatic Moths								Lepidoptera
Beetles	2	1	1	6		4		Coleoptera
Snails & Limpets	3	1	33	7	2	5	3	Gastropoda
Midges	92	12	84	31	8	24	5	Chironomidae
Horse & Deer Flies			16					Tabanidae
Mosquitos				1			1	Culicidae
No-see-ums	3		1	3		5	3	Ceratopogonidae
Craneflies								Tipulidae
Blackflies								Simuliidae
Misc. True Flies		1	4		1			Misc. Diptera
Total Count	723	474	457	333	97	125	200	
Number of Taxa	14	14	16	17	12	13	13	
								Muskoka Average *
Richness	14	14	16	17	12	13	13	**13**
% EOT	16	23	14	12	22	41	20	**17**
% Chironomids	13	3	19	9	8	19	3	**8**
% Predators	12	28	18	29	61	45	44	**24**
% Shredders	1	0	1	0	0	0	1	**2**
% Collectors/Gatherers	87	72	73	68	36	48	53	**68**
Hilsenhoff Index	5.95	6.58	6.06	5.86	5.97	6.00	6.14	**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

Buck Lake

Town of Huntsville

Common Name	Site 2[R]					Scientific Name
	2004	2005	2011	2012	2015	
Hydras						Coelenterata
Flatworms	5	31	38	20		Turbellaria
Roundworms	3	1		1		Nematoda
Aquatic Earthworms	9		3	165	14	Oligochaeta
Leeches	2	1			1	Hirudinaea
Sow Bugs						Isopoda
Clams & Mussels				1		Bivalvia
Scuds	103	139	276	450	241	Amphipoda
Crayfish						Decapoda
Mites	25	44	37	29	28	Hydracarina
Mayflies	24	36	4	14	21	Ephemeroptera
Dragonflies	51	32	18	14	21	Anisoptera
Damselflies	29	75	7	22	6	Zygoptera
Stoneflies						Plecoptera
True Bugs		1	1			Hemiptera
Fishflies & Alderflies	51	6	1	1	3	Megaloptera
Caddisflies		1	3	14	1	Trichoptera
Aquatic Moths						Lepidoptera
Beetles	1	4		6	2	Coleoptera
Snails & Limpets	9	18	5	8	5	Gastropoda
Midges	65	21	25	234	30	Chironomidae
Horse & Deer Flies	2					Tabanidae
Mosquitos		1				Culicidae
No-see-ums	11		4	37	3	Ceratopogonidae
Craneflies				1		Tipulidae
Blackflies						Simuliidae
Misc. True Flies		14		2		Misc. Diptera
Total Count	390	425	422	1019	376	
Number of Taxa	15	16	13	17	13	
						Muskoka Average *
Richness	15	15	13	17	13	**13**
% EOT	27	34	8	7	13	**17**
% Chironomids	17	5	6	23	8	**8**
% Predators	45	46	25	13	17	**24**
% Shredders	0	0	1	2	0	**2**
% Collectors/Gatherers	52	50	73	85	81	**68**
Hilsenhoff Index	5.84	5.87	5.85	6.47	6.05	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Buck Lake

Town of Huntsville

Common Name	Site 3			Scientific Name
	2023	2024	2025	
Hydras				Coelenterata
Flatworms	6	2	7	Turbellaria
Roundworms		5	22	Nematoda
Aquatic Earthworms	29	14		Oligochaeta
Leeches				Hirudinaea
Sow Bugs				Isopoda
Clams & Mussels		4	6	Bivalvia
Scuds	31	16	27	Amphipoda
Crayfish				Decapoda
Mites	13	20	20	Hydracarina
Mayflies	2		4	Ephemeroptera
Dragonflies	9	4	1	Anisoptera
Damselflies	3	3		Zygoptera
Stoneflies				Plecoptera
True Bugs				Hemiptera
Fishflies & Alderflies	2			Megaloptera
Caddisflies	4	4	4	Trichoptera
Aquatic Moths				Lepidoptera
Beetles				Coleoptera
Snails & Limpets	1	6		Gastropoda
Midges	16	28	13	Chironomidae
Horse & Deer Flies				Tabanidae
Mosquitos			4	Culicidae
No-see-ums		1	1	Ceratopogonidae
Craneflies				Tipulidae
Blackflies				Simuliidae
Misc. True Flies				Misc. Diptera
Total Count	116	107	109	
Number of Taxa	11	12	11	
				Muskoka Average *
Richness	11	12	11	**13**
% EOT	16	10	8	**17**
% Chironomids	14	26	12	**8**
% Predators	28	28	27	**24**
% Shredders	3	4	4	**2**
% Collectors/Gatherers	67	54	44	**68**
Hilsenhoff Index	6.37	6.49	5.88	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet
Buck Lake
Town of Huntsville

Common Name	Site 4[R]				Scientific Name
	2007	2013	2016	2018	
Hydras					Coelenterata
Flatworms	7	1			Turbellaria
Roundworms		13			Nematoda
Aquatic Earthworms			70	25	Oligochaeta
Leeches		3	1	1	Hirudinaea
Sow Bugs				2	Isopoda
Clams & Mussels			1		Bivalvia
Scuds	211	212	210	114	Amphipoda
Crayfish					Decapoda
Mites	24	98	23	156	Hydracarina
Mayflies	64	34	7	16	Ephemeroptera
Dragonflies	23	7	6	2	Anisoptera
Damselflies	8	2	2	1	Zygoptera
Stoneflies				6	Plecoptera
True Bugs					Hemiptera
Fishflies & Alderflies	20	4	1	3	Megaloptera
Caddisflies	2	4	2		Trichoptera
Aquatic Moths					Lepidoptera
Beetles	1		7	1	Coleoptera
Snails & Limpets	1	1	23	2	Gastropoda
Midges	38	16	44	77	Chironomidae
Horse & Deer Flies				8	Tabanidae
Mosquitos	18	24	20	39	Culicidae
No-see-ums	1	3	8	8	Ceratopogonidae
Craneflies					Tipulidae
Blackflies					Simuliidae
Misc. True Flies					Misc. Diptera
Total Count	418	422	425	461	
Number of Taxa	13	14	15	16	
					Muskoka Average *
Richness	12	14	14	16	**13**
% EOT	24	12	4	4	**17**
% Chironomids	10	4	11	16	**8**
% Predators	21	30	12	40	**24**
% Shredders	1	1	0	0	**2**
% Collectors/Gatherers	78	66	82	59	**68**
Hilsenhoff Index	5.75	5.89	6.44	6.37	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Buck Lake

Town of Huntsville

Common Name	Site 5[R]			Scientific Name
	2023	2024	2025	
Hydras				Coelenterata
Flatworms	1			Turbellaria
Roundworms	2		4	Nematoda
Aquatic Earthworms	1	1		Oligochaeta
Leeches		1		Hirudinaea
Sow Bugs				Isopoda
Clams & Mussels		15		Bivalvia
Scuds	32	16	14	Amphipoda
Crayfish				Decapoda
Mites	7	4	42	Hydracarina
Mayflies	4	3	13	Ephemeroptera
Dragonflies	14	7	2	Anisoptera
Damselflies	41	4	9	Zygoptera
Stoneflies				Plecoptera
True Bugs	3	4		Hemiptera
Fishflies & Alderflies			2	Megaloptera
Caddisflies	1			Trichoptera
Aquatic Moths			1	Lepidoptera
Beetles	1	8		Coleoptera
Snails & Limpets	2	22	4	Gastropoda
Midges	3	11	9	Chironomidae
Horse & Deer Flies				Tabanidae
Mosquitos			1	Culicidae
No-see-ums		4		Ceratopogonidae
Craneflies				Tipulidae
Blackflies				Simuliidae
Misc. True Flies				Misc. Diptera
Total Count	112	100	101	
Number of Taxa	13	13	11	
				Muskoka Average *
Richness	13	13	11	**13**
% EOT	54	14	24	**17**
% Chironomids	3	11	9	**8**
% Predators	60	32	54	**24**
% Shredders	1	0	1	**2**
% Collectors/Gatherers	36	31	37	**68**
Hilsenhoff Index	6.17	6.41	6.02	**6.27**

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