THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Gilleach Lake

Town of Bracebridge

Common Name	Site 1 [R]							Scientific Name
	2008	2009	2010	2013	2014	2023	2024	
Hydras								Coelenterata
Flatworms								Turbellaria
Roundworms		1	1	2				Nematoda
Aquatic Earthworms	2	21	1	1	17	5		Oligochaeta
Leeches	1	3				1		Hirudinaea
Sow Bugs								Isopoda
Clams & Mussels			2		1	3		Bivalvia
Scuds	118	330	198	208	108	74	47	Amphipoda
Crayfish								Decapoda
Mites	20	2	4	16	18	7	10	Hydracarina
Mayflies	8	7	5	16	14	4	14	Ephemeroptera
Dragonflies	32	34	24	79	53	15	14	Anisoptera
Damselflies	9	2		1	3	1	2	Zygoptera
Stoneflies					4			Plecoptera
True Bugs			1					Hemiptera
Fishflies & Alderflies		20	11		10			Megaloptera
Caddisflies	20	52	31	50	29	7	4	Trichoptera
Aquatic Moths								Lepidoptera
Beetles	3	11	4	14	11	4	1	Coleoptera
Snails & Limpets				1				Gastropoda
Midges	98	96	48	42	54	6	10	Chironomidae
Horse & Deer Flies								Tabanidae
Mosquitos								Culicidae
No-see-ums	6	5	2	1	9			Ceratopogonidae
Craneflies								Tipulidae
Blackflies								Simuliidae
Misc. True Flies			1		5			Misc. Diptera
Total Count	317	584	333	431	336	127	102	
Number of Taxa	11	13	14	12	14	11	8	
								Muskoka Average *
Richness	11	13	14	12	14	11	8	**13**
% EOT	22	16	18	34	30	21	33	**17**
% Chironomids	31	16	14	10	16	5	10	**8**
% Predators	22	13	14	26	32	22	26	**24**
% Shredders	6	9	9	12	9	6	4	**2**
% Collectors/Gatherers	71	78	76	62	59	70	70	**68**
Hilsenhoff Index	6.09	5.89	5.79	5.58	5.71	5.87	5.75	**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.

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Aquatic Invertebrate Data Sheet

Gilleach Lake

Town of Bracebridge

Common Name	Site 2[R]				Scientific Name
	2011	2012	2023	2024	
Hydras					Coelenterata
Flatworms					Turbellaria
Roundworms			2	1	Nematoda
Aquatic Earthworms	6	27	4	1	Oligochaeta
Leeches	3	1			Hirudinaea
Sow Bugs					Isopoda
Clams & Mussels			4		Bivalvia
Fairy Shrimp	306	174	54	35	Amphipoda
Crayfish					Decapoda
Mites	1	13	2	2	Hydracarina
Mayflies	22	162	17	33	Ephemeroptera
Dragonflies	14	4	5	7	Anisoptera
Damselflies		12		3	Zygoptera
Stoneflies					Plecoptera
True Bugs		1			Hemiptera
Fishflies & Alderflies	3	3			Megaloptera
Caddisflies	39	27	14	6	Trichoptera
Aquatic Moths					Lepidoptera
Beetles	5	9		3	Coleoptera
Snails & Limpets					Gastropoda
Midges	20	118	8	8	Chironomidae
Horse & Deer Flies		3			Tabanidae
Mosquitos					Culicidae
No-see-ums	1	1		1	Ceratopogonidae
Craneflies					Tipulidae
Blackflies				1	Simuliidae
Misc. True Flies					Misc. Diptera
Total Count	420	555	110	101	
Number of Taxa	11	14	9	12	
					Muskoka Average *
Richness	11	14	9	12	**13**
% EOT	18	37	33	49	**17**
% Chironomids	5	21	7	8	**8**
% Predators	6	8	6	16	**24**
% Shredders	9	5	13	6	**2**
% Collectors/Gatherers	84	87	75	76	**68**
Hilsenhoff Index	5.78	5.90	5.75	5.54	**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.