THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Bigwind Lake

Town of Bracebridge

Common Name	Site 3[R]		Scientific Name
	2023	2024	
Hydras			Coelenterata
Flatworms		1	Turbellaria
Roundworms	3	2	Nematoda
Aquatic Earthworms	8	1	Oligochaeta
Leeches		1	Hirudinaea
Sow Bugs			Isopoda
Clams & Mussels	1		Bivalvia
Scuds	19	27	Amphipoda
Crayfish			Decapoda
Mites	19	6	Hydracarina
Mayflies	22	23	Ephemeroptera
Dragonflies	11	12	Anisoptera
Damselflies	7	5	Zygoptera
Stoneflies			Plecoptera
True Bugs			Hemiptera
Fishflies & Alderflies			Megaloptera
Caddisflies	4	2	Trichoptera
Aquatic Moths			Lepidoptera
Beetles	1	1	Coleoptera
Snails & Limpets	2	8	Gastropoda
Midges	5	13	Chironomidae
Horse & Deer Flies			Tabanidae
Mosquitos			Culicidae
No-see-ums			Ceratopogonidae
Craneflies			Tipulidae
Blackflies			Simuliidae
Misc. True Flies	1		Misc. Diptera
Total Count	103	102	
Number of Taxa	13	13	
			Muskoka Average *
Richness	13	13	**13**
% EOT	43	41	**17**
% Chironomids	5	13	**8**
% Predators	37	25	**24**
% Shredders	4	2	**2**
% Collectors/Gatherers	53	63	**68**
Hilsenhoff Index	5.85	5.85	**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

Bigwind Lake

Town of Bracebridge

Common Name	Site 4[R]						Scientific Name
	2006	2007	2012	2013	2017	2024	
Hydras							Coelenterata
Flatworms						1	Turbellaria
Roundworms	15					1	Nematoda
Aquatic Earthworms	1	2	20	10	125	5	Oligochaeta
Leeches		1	3	1		1	Hirudinaea
Sow Bugs							Isopoda
Clams & Mussels					1	2	Bivalvia
Scuds	135	281	399	207	102	9	Amphipoda
Crayfish							Decapoda
Mites	25	1	13	14	50	3	Hydracarina
Mayflies	72	37	41	17	9	29	Ephemeroptera
Dragonflies	14	8	53	46	1	26	Anisoptera
Damselflies	9	3	9	12	2	5	Zygoptera
Stoneflies							Plecoptera
True Bugs			4	1			Hemiptera
Fishflies & Alderflies				2			Megaloptera
Caddisflies	3		20	3	2	3	Trichoptera
Aquatic Moths							Lepidoptera
Beetles	13	2	22	9	7	1	Coleoptera
Snails & Limpets					1		Gastropoda
Midges	89	18	80	21	25	15	Chironomidae
Horse & Deer Flies							Tabanidae
Mosquitos					11		Culicidae
No-see-ums	2	1	1	11		1	Ceratopogonidae
Craneflies							Tipulidae
Blackflies							Simuliidae
Misc. True Flies				1			Misc. Diptera
Total Count	378	354	665	355	336	102	
Number of Taxa	11	10	12	14	12	14	
							Muskoka Average *
Richness	11	10	12	14	12	14	**13**
% EOT	26	13	19	22	4	1	**17**
% Chironomids	23	5	12	6	7	15	**8**
% Predators	16	5	16	27	17	37	**24**
% Shredders	1	0	3	1	1	3	**2**
% Collectors/Gatherers	77	94	81	72	81	57	**68**
Hilsenhoff Index	5.82	5.86	5.93	5.89	6.80	5.71	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Bigwind Lake

Town of Bracebridge

Common Name	Site 5[R]					Scientific Name
	2005	2008	2011	2014	2015	
Hydras						Coelenterata
Flatworms	4	5	1		1	Turbellaria
Roundworms		2	1			Nematoda
Aquatic Earthworms	7	1	11	5	16	Oligochaeta
Leeches	7		3			Hirudinaea
Sow Bugs						Isopoda
Clams & Mussels	1	2			1	Bivalvia
Scuds	197	255	280	116	133	Amphipoda
Crayfish	3	2			1	Decapoda
Mites	15	21	5	42	4	Hydracarina
Mayflies	24	44	80	38	41	Ephemeroptera
Dragonflies	43	25	25	37	37	Anisoptera
Damselflies	18	72	51	26	24	Zygoptera
Stoneflies				4		Plecoptera
True Bugs	1			1		Hemiptera
Fishflies & Alderflies		9	1	1		Megaloptera
Caddisflies	25	8	17	24	3	Trichoptera
Aquatic Moths						Lepidoptera
Beetles	1	13	9	14	8	Coleoptera
Snails & Limpets	1			2	2	Gastropoda
Midges	17	125	14	21	27	Chironomidae
Horse & Deer Flies						Tabanidae
Mosquitos	1	6				Culicidae
No-see-ums	5	6		5		Ceratopogonidae
Craneflies	2					Tipulidae
Blackflies						Simuliidae
Misc. True Flies				2		Misc. Diptera
Total Count	372	596	498	338	298	
Number of Taxa	18	16	13	15	13	
						Muskoka Average *
Richness	18	16	13	15	13	**13**
% EOT	30	25	35	37	35	**17**
% Chironomids	5	21	3	6	9	**8**
% Predators	25	25	19	39	25	**24**
% Shredders	7	1	3	7	1	**2**
% Collectors/Gatherers	67	73	77	54	73	**68**
Hilsenhoff Index	5.82	6.10	5.86	5.65	5.95	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Bigwind Lake

Town of Bracebridge

Common Name	Site 6[R]				Scientific Name
	2016	2021	2023	2024	
Hydras					Coelenterata
Flatworms			2	4	Turbellaria
Roundworms	1	3			Nematoda
Aquatic Earthworms	33		1	3	Oligochaeta
Leeches	1		1		Hirudinaea
Sow Bugs					Isopoda
Clams & Mussels	8		2	2	Bivalvia
Scuds	175	96	49		Amphipoda
Crayfish					Decapoda
Mites	14	24	7	3	Hydracarina
Mayflies	15		8	45	Ephemeroptera
Dragonflies	4	8	6	21	Anisoptera
Damselflies		5	8	17	Zygoptera
Stoneflies					Plecoptera
True Bugs					Hemiptera
Fishflies & Alderflies	1				Megaloptera
Caddisflies	9	1	6	2	Trichoptera
Aquatic Moths					Lepidoptera
Beetles	6				Coleoptera
Snails & Limpets	1		6	2	Gastropoda
Midges	69	5	4	34	Chironomidae
Horse & Deer Flies	1				Tabanidae
Mosquitos					Culicidae
No-see-ums	3			2	Ceratopogonidae
Craneflies					Tipulidae
Blackflies					Simuliidae
Misc. True Flies			1		Misc. Diptera
Total Count	341	142	101	135	
Number of Taxa	15	7	13	11	
					Muskoka Average *
Richness	15	7	13	11	**13**
% EOT	8	10	28	63	**17**
% Chironomids	20	4	4	25	**8**
% Predators	9	26	24	35	**24**
% Shredders	3	1	6	1	**2**
% Collectors/Gatherers	85	71	62	61	**68**
Hilsenhoff Index	6.31	5.98	5.95	5.89	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Bigwind Lake

Town of Bracebridge

Common Name	Site 7[R] 2009	Scientific Name
Hydras		Coelenterata
Flatworms		Turbellaria
Roundworms		Nematoda
Aquatic Earthworms		Oligochaeta
Leeches		Hirudinaea
Sow Bugs	1	Isopoda
Clams & Mussels	15	Bivalvia
Scuds	118	Amphipoda
Crayfish		Decapoda
Mites	2	Hydracarina
Mayflies	32	Ephemeroptera
Dragonflies	11	Anisoptera
Damselflies	4	Zygoptera
Stoneflies		Plecoptera
True Bugs		Hemiptera
Fishflies & Alderflies		Megaloptera
Caddisflies	2	Trichoptera
Aquatic Moths		Lepidoptera
Beetles		Coleoptera
Snails & Limpets		Gastropoda
Midges	27	Chironomidae
Horse & Deer Flies		Tabanidae
Mosquitos		Culicidae
No-see-ums		Ceratopogonidae
Craneflies		Tipulidae
Blackflies		Simuliidae
Misc. True Flies		Misc. Diptera
Total Count	212	
Number of Taxa	9	
		Muskoka Average *
Richness	9	**13**
% EOT	23	**17**
% Chironomids	13	**8**
% Predators	8	**24**
% Shredders	1	**2**
% Collectors/Gatherers	84	**68**
Hilsenhoff Index	6.08	**6.27**

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