

Aquatic Invertebrate Data Sheet

Bigwind Lake Town of Bracebridge

Common Name	Site 4 ^R						Scientific Name
	2006			2007			
	1	2	3	1	2	3	
Hydras							Coelenterata
Flatworms							Turbellaria
Roundworms	9	2	4				Nematoda
Aquatic Earthworms	1					2	Oligochaeta
Leeches				1			Hirudinaea
Sow Bugs							Isopoda
Clams							Pelecypoda
Fairy Shrimp	38	42	55	102	97	82	Amphipoda
Crayfish							Decapoda
Mites	2	12	11	1			Hydracarina
Mayflies	24	32	16	8	13	16	Ephemeroptera
Dragonflies	5	5	4		6	2	Anisoptera
Damselflies	5	3	1		3		Zygoptera
Stoneflies							Plecoptera
True Bugs							Hemiptera
Fishflies & Alderflies							Megaloptera
Caddisflies		1	2				Trichoptera
Aquatic Moths							Lepidoptera
Beetles	4	1	8	1	1		Coleoptera
Snails & Limpets							Gastropoda
Midges	34	10	45	3	3	12	Chironomidae
Horse & Deer Flies							Tabanidae
Mosquitos							Culicidae
No-see-ums	1		1	1			Ceratopogonidae
Craneflies							Tipulidae
Blackflies							Simuliidae
Misc. True Flies							Misc. Diptera
Total Count	124	110	150	118	125	117	
Number of Taxa	10	9	10	7	6	5	
							Muskoka Average *
Richness		11			10		13
% EOT		26			13		26
% Chironimids		23			5		12
% Predators		16			5		24
% Shredders		1			0		2
% Collectors/Gatherers		77			94		69
Hilsenhoff Index		5.82			5.86		5.99

R = Reference Site

* The Muskoka Average is based on 73 samples collected at 44 reference sites between 2004 to 2008. Reference sites from five mesotrophic and nineteen oligotrophic lakes throughout Muskoka were used.

Aquatic Invertebrate Data Sheet

Bigwind Lake Town of Bracebridge

Common Name	Site 5 ^R									Scientific Name
	2004			2005			2008			
	1	2	3	1	2	3	1	2	3	
Hydras										Coelenterata
Flatworms				1		3	3	2		Turbellaria
Roundworms							2			Nematoda
Aquatic Earthworms		1	7	3		4		1		Oligochaeta
Leeches			1	3	2	2				Hirudinaea
Sow Bugs										Isopoda
Clams		1		1				1	1	Pelecypoda
Fairy Shrimp	79	63	60	85	46	66	100	112	43	Amphipoda
Crayfish				1	2		1	1		Decapoda
Mites	1	1	1		7	8	12	5	4	Hydracarina
Mayflies	5	5	6	8	11	5	10	31	3	Ephemeroptera
Dragonflies	8	6	2	12	25	6	7	12	6	Anisoptera
Damselflies		10	3	10	8		8	26	38	Zygoptera
Stoneflies										Plecoptera
True Bugs			1			1				Hemiptera
Fishflies & Alderflies		3	1					7	2	Megaloptera
Caddisflies	1	1	1	5	8	12	5	2	1	Trichoptera
Aquatic Moths										Lepidoptera
Beetles	1	2	1			1	7		6	Coleoptera
Snails & Limpets						1				Gastropoda
Midges	16	13	16	5	7	5	29	34	62	Chironomidae
Horse & Deer Flies										Tabanidae
Mosquitos						1	3	3		Culicidae
No-see-ums	1	4		4	1		1	3	2	Ceratopogonidae
Craneflies				2						Tipulidae
Blackflies										Simuliidae
Misc. True Flies	2		1							Misc. Diptera
Total Count	114	110	101	141	119	118	188	240	168	
Number of Taxa	9	12	13	13	10	13	13	14	11	
Richness		15			18			15		Muskoka Average * 13
% EOT		15			30			25		26
% Chironimids		14			5			21		12
% Predators		15			25			25		24
% Shredders		1			7			1		2
% Collectors/Gatherers		84			67			73		69
Hilsenhoff Index		6.06			5.82			6.10		5.99

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Aquatic Invertebrate Data Sheet

Bigwind Lake Town of Bracebridge

Common Name	Site 7 ^R			Scientific Name
	2009 ¹			
	1	2	3	
Hydras				Coelenterata
Flatworms				Turbellaria
Roundworms				Nematoda
Aquatic Earthworms				Oligochaeta
Leeches				Hirudinaea
Sow Bugs	1			Isopoda
Clams	13		2	Pelecypoda
Fairy Shrimp	4	39	75	Amphipoda
Crayfish				Decapoda
Mites	1		1	Hydracarina
Mayflies	22	6	4	Ephemeroptera
Dragonflies	2	7	2	Anisoptera
Damselflies	2	2		Zygoptera
Stoneflies				Plecoptera
True Bugs				Hemiptera
Fishflies & Alderflies				Megaloptera
Caddisflies		1	1	Trichoptera
Aquatic Moths				Lepidoptera
Beetles				Coleoptera
Snails & Limpets				Gastropoda
Midges	9	4	14	Chironomidae
Horse & Deer Flies				Tabanidae
Mosquitos				Culicidae
No-see-ums				Ceratopogonidae
Craneflies				Tipulidae
Blackflies				Simuliidae
Misc. True Flies				Misc. Diptera
Total Count	54	59	99	
Number of Taxa	8	6	7	
				Muskoka Average *
Richness		9		13
% EOT		23		26
% Chironimids		13		12
% Predators		8		24
% Shredders		1		2
% Collectors/Gatherers		84		69
Hilsenhoff Index		6.08		5.99

R = Reference Site

* The Muskoka Average is based on 73 samples collected at 44 reference sites between 2004 to 2008. Reference sites from five mesotrophic and nineteen oligotrophic lakes throughout Muskoka were used.

¹ Did not achieve the minimum 100-organism count per replicate.