

Aquatic Invertebrate Data Sheet

Six Mile Lake Township of Georgian Bay

Common Name	Site 1 ^R												Scientific Name
	2005			2006			2007			2008			
	1	2	3	1	2	3	1	2	3	1	2	3	
Hydras													Coelenterata
Flatworms	2	1							1			2	Turbellaria
Roundworms	1	3	1	4	11	4						1	Nematoda
Aquatic Earthworms		4	9	2	10	1	2	3			1	9	Oligochaeta
Leeches			1										Hirudinaea
Sow Bugs	5	3	52	11	2	45	12	14	69	5	7	4	Isopoda
Clams		3	1							1			Pelecypoda
Fairy Shrimp	87	60	56	60	55	55	77	75	49	22	27	47	Amphipoda
Crayfish									2		1		Decapoda
Mites	8	10	3	14	17	13	22	13	10	68	70	30	Hydracarina
Mayflies	1	8	1	2	2	8		1	1	4	2	3	Ephemeroptera
Dragonflies	1	2		1	9	2		1	4		1		Anisoptera
Damselflies	1		1	1	3	2					3	1	Zygoptera
Stoneflies													Plecoptera
True Bugs													Hemiptera
Fishflies & Alderflies		1									1		Megaloptera
Caddisflies		11		2	3	1	2	3		5	1	1	Trichoptera
Aquatic Moths													Lepidoptera
Beetles		2	1		3							5	Coleoptera
Snails & Limpets		3		4	3	2	2			18	8		Gastropoda
Midges	2	21	3	11	4		16	10	2	5	7	1	Chironomidae
Horse & Deer Flies												2	Tabanidae
Mosquitos		1											Culicidae
No-see-ums		2		1	2	2	2	3		2	1		Ceratopogonidae
Craneflies											1		Tipulidae
Blackflies												1	Simuliidae
Misc. True Flies													Misc. Diptera
Total Count	108	135	129	113	124	135	135	123	138	130	131	107	
Number of Taxa	9	16	11	12	13	11	8	9	8	9	14	13	
Richness		18			13			13			20		Muskoka Ave * 13
% EOT		7			10			8			6		26
% Chironimids		7			4			5			4		12
% Predators		10			19			37			51		24
% Shredders		3			2			2			2		2
% Collectors/Gatherers		84			72			59			39		69
Hilsenhoff Index		6.36			6.31			6.36			6.15		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

Six Mile Lake Township of Georgian Bay

Common Name	Site 2 ^R									Scientific Name
	2006			2007			2008			
	1	2	3	1	2	3	1	2	3	
Hydras										Coelenterata
Flatworms		2				1				Turbellaria
Roundworms	2	14								Nematoda
Aquatic Earthworms	1	3		3		24	4	2	2	Oligochaeta
Leeches										Hirudinaea
Sow Bugs	28	12	35	11	14	13	65	22	61	Isopoda
Clams										Pelecypoda
Fairy Shrimp	46	47	20	36	40	45	47	40	42	Amphipoda
Crayfish	1			1						Decapoda
Mites	16	28	15	50	57	19	8	24	5	Hydracarina
Mayflies		7	7	4	7	2		2		Ephemeroptera
Dragonflies	2		1	1				1		Anisoptera
Damselflies				6	3					Zygoptera
Stoneflies										Plecoptera
True Bugs										Hemiptera
Fishflies & Alderflies										Megaloptera
Caddisflies	3	2	2	4		4				Trichoptera
Aquatic Moths										Lepidoptera
Beetles	1		9							Coleoptera
Snails & Limpets	14	3	4	3	4				1	Gastropoda
Midges	6	3	11	6	9	5				Chironomidae
Horse & Deer Flies										Tabanidae
Mosquitos										Culicidae
No-see-ums	2			1	1	1				Ceratopogonidae
Craneflies										Tipulidae
Blackflies										Simuliidae
Misc. True Flies									1	Misc. Diptera
Total Count	122	121	104	126	135	114	124	91	112	
Number of Taxa	12	10	10	12	8	9	4	6	6	
										Muskoka Ave *
Richness		14			13			8		13
% EOT		7			4			1		26
% Chironimids		6			7			0		12
% Predators		19			15			12		24
% Shredders		2			1			0		2
% Collectors/Gatherers		65			84			88		69
Hilsenhoff Index		6.27			6.58			6.94		5.99

R = Reference Site

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Aquatic Invertebrate Data Sheet

Six Mile Lake Township of Georgian Bay

Common Name	Site 3 ^R			Scientific Name
	2009			
	1	2	3	
Hydras				Coelenterata
Flatworms			1	Turbellaria
Roundworms				Nematoda
Aquatic Earthworms	1	2	5	Oligochaeta
Leeches	1	1		Hirudinaea
Sow Bugs	42	55	30	Isopoda
Clams				Pelecypoda
Fairy Shrimp	101	151	185	Amphipoda
Crayfish				Decapoda
Mites	1	14	13	Hydracarina
Mayflies	2	31	5	Ephemeroptera
Dragonflies	1	2	2	Anisoptera
Damselflies		2		Zygoptera
Stoneflies				Plecoptera
True Bugs				Hemiptera
Fishflies & Alderflies				Megaloptera
Caddisflies		3	6	Trichoptera
Aquatic Moths				Lepidoptera
Beetles	2	3	4	Coleoptera
Snails & Limpets			1	Gastropoda
Midges		6	3	Chironomidae
Horse & Deer Flies				Tabanidae
Mosquitos				Culicidae
No-see-ums				Ceratopogonidae
Craneflies				Tipulidae
Blackflies				Simuliidae
Misc. True Flies				Misc. Diptera
Total Count	151	270	255	
Number of Taxa	8	11	11	
				Muskoka Average *
Richness		13		13
% EOT		8		26
% Chironimids		1		12
% Predators		7		24
% Shredders		1		2
% Collectors/Gatherers		92		69
Hilsenhoff Index		6.30		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.