THE DISTRICT MUNICIPALITY OF MUSKOKA

Managing Our Legacy Together

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	
													Muskoka Ave *
Richness	18			13			13			20			**14**
% EOT	7			10			8			6			**22**
% Chironimids	7			4			5			4			**12**
% Predators	10			19			37			51			**23**
% Shredders	3			2			2			2			**3**
% Collectors/Gatherers	84			72			59			39			**70**
Hilsenhoff Index	6.36			6.31			6.36			6.15			**6.10**

R = Reference Site

* The Muskoka Average is based on 147 samples collected at 76 reference sites between 2004 and 2011. Reference sites from 9 mesotrophic and 26 oligotrophic lakes throughout Muskoka were used.

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Common Name	Site 2 [R]															Scientific Name
	2006			2007			2008			2010			2012			
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
Hydras																Coelenterata
Flatworms		2				1					2		1	2	2	Turbellaria
Roundworms	2	14														Nematoda
Aquatic Earthworms	1	3		3		24	4	2	2				17	2	1	Oligochaeta
Leeches										1					2	Hirudinaea
Sow Bugs	28	12	35	11	14	13	65	22	61	9	3	21	2	9	24	Isopoda
Clams														1		Pelecypoda
Fairy Shrimp	46	47	20	36	40	45	47	40	42	102	142	79	156	126	95	Amphipoda
Crayfish	1			1												Decapoda
Mites	16	28	15	50	57	19	8	24	5	3	11	3	18	22	28	Hydracarina
Mayflies		7	7	4	7	2		2		1	2		7	7	5	Ephemeroptera
Dragonflies	2		1	1				1		2	8		18	2	3	Anisoptera
Damselflies				6	3					1	2	1	5	4	5	Zygoptera
Stoneflies																Plecoptera
True Bugs												1				Hemiptera
Fishflies & Alderflies																Megaloptera
Caddisflies	3	2	2	4		4					2	3	18	1	1	Trichoptera
Aquatic Moths																Lepidoptera
Beetles	1		9							2	1	3	1	10	2	Coleoptera
Snails & Limpets	14	3	4	3	4				1	1			2		4	Gastropoda
Midges	6	3	11	6	9	5					3	4	43	10	8	Chironomidae
Horse & Deer Flies																Tabanidae
Mosquitos																Culicidae
No-see-ums	2			1	1	1							4	2		Ceratopogonidae
Craneflies																Tipulidae
Blackflies																Simuliidae
Misc. True Flies									1							Misc. Diptera
Total Count	122	121	104	126	135	114	124	91	112	122	176	115	292	198	180	
Number of Taxa	12	10	10	12	8	9	4	6	6	9	10	8	13	13	13	

						Muskoka Ave *
Richness	14	13	8	13	15	**14**
% EOT	7	4	1	5	12	**22**
% Chironimids	6	7	0	2	10	**12**
% Predators	19	15	12	10	20	**23**
% Shredders	2	1	0	1	3	**3**
% Collectors/Gatherers	65	84	88	89	77	**70**
Hilsenhoff Index	6.27	6.58	6.94	6.10	6.12	**6.10**

R = Reference Site

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Common Name	Site 3 R						Scientific Name
	2009			2010			
	1	2	3	1	2	3	
Hydras							Coelenterata
Flatworms			1	1		1	Turbellaria
Roundworms						1	Nematoda
Aquatic Earthworms	1	2	5			2	Oligochaeta
Leeches	1	1			1		Hirudinaea
Sow Bugs	42	55	30	2	12	22	Isopoda
Clams					1		Pelecypoda
Fairy Shrimp	101	151	185	95	65	54	Amphipoda
Crayfish						1	Decapoda
Mites	1	14	13	18	4	5	Hydracarina
Mayflies	2	31	5		3	1	Ephemeroptera
Dragonflies	1	2	2		1	3	Anisoptera
Damselflies		2		1	1		Zygoptera
Stoneflies							Plecoptera
True Bugs							Hemiptera
Fishflies & Alderflies							Megaloptera
Caddisflies		3	6	3		2	Trichoptera
Aquatic Moths				1	1	1	Lepidoptera
Beetles	2	3	4	1	2	1	Coleoptera
Snails & Limpets			1	11	9	13	Gastropoda
Midges		6	3	3	3	1	Chironomidae
Horse & Deer Flies							Tabanidae
Mosquitos							Culicidae
No-see-ums							Ceratopogonidae
Craneflies							Tipulidae
Blackflies							Simuliidae
Misc. True Flies				2			Misc. Diptera
Total Count	151	270	255	138	103	108	
Number of Taxa	8	11	11	11	12	14	
							Muskoka Average *
Richness	13			18			**14**
% EOT	8			4			**22**
% Chironimids	1			2			**12**
% Predators	7			12			**23**
% Shredders	1			2			**3**
% Collectors/Gatherers	92			76			**70**
Hilsenhoff Index	6.30			6.26			**6.10**

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Common Name	Site 4 2012			Scientific Name
	1	2	3	
Hydras				Coelenterata
Flatworms	1	2	2	Turbellaria
Roundworms				Nematoda
Aquatic Earthworms	17	2	1	Oligochaeta
Leeches			2	Hirudinaea
Sow Bugs	2	9	24	Isopoda
Clams		1		Pelecypoda
Fairy Shrimp	156	126	95	Amphipoda
Crayfish				Decapoda
Mites	18	22	28	Hydracarina
Mayflies	7	7	5	Ephemeroptera
Dragonflies	18	2	3	Anisoptera
Damselflies	5	4	5	Zygoptera
Stoneflies				Plecoptera
True Bugs				Hemiptera
Fishflies & Alderflies				Megaloptera
Caddisflies	18	1	1	Trichoptera
Aquatic Moths				Lepidoptera
Beetles	1	10	2	Coleoptera
Snails & Limpets	2		4	Gastropoda
Midges	43	10	8	Chironomidae
Horse & Deer Flies				Tabanidae
Mosquitos				Culicidae
No-see-ums	4	2		Ceratopogonidae
Craneflies				Tipulidae
Blackflies				Simuliidae
Misc. True Flies				Misc. Diptera
Total Count	292	198	180	
Number of Taxa	13	13	13	
				Muskoka Average *
Richness		15		**14**
% EOT		12		**22**
% Chironimids		10		**12**
% Predators		20		**23**
% Shredders		3		**3**
% Collectors/Gatherers		77		**70**
Hilsenhoff Index		6.12		**6.10**

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