THE DISTRICT MUNICIPALITY OF MUSKOKA

Managing Our Legacy Together

Aquatic Invertebrate Data Sheet

Lake Waseosa

Town of Huntsville

Common Name	Site 1 [R]												Scientific Name
	2004 (Jun)	2006 (May)	2007 (May)	2012 (Aug)			2013 (Aug)			2016 (Aug)			
				1	2	3	1	2	3	1	2	3	
Hydras													Coelenterata
Flatworms		17			2	3						3	Turbellaria
Roundworms		21	1					6	2				Nematoda
Aquatic Earthworms	7		10	21	26	7	2	2	8	1	5	1	Oligochaeta
Leeches				1					1				Hirudinaea
Sow Bugs										1	40	45	Isopoda
Clams					1	1							Pelecypoda
Fairy Shrimp	127	95	127	99	70	75	28	31	23	70	37	19	Amphipoda
Crayfish		12	1										Decapoda
Mites	19	8	6	8	46	19	13	16	13	39	11	3	Hydracarina
Mayflies	9	60	42	1	19	40	4	9	5	4	3	1	Ephemeroptera
Dragonflies	13	14	16	9	7	9	3	1	2	5	3	3	Anisoptera
Damselflies	5	28	7	5	8	4	1	2		7	5	8	Zygoptera
Stoneflies													Plecoptera
True Bugs	1												Hemiptera
Fishflies & Alderflies					1		10		2				Megaloptera
Caddisflies	1	9	4	5	19	4	13	18	15	7	7	7	Trichoptera
Aquatic Moths													Lepidoptera
Beetles	6	21	16	9	7	6	6	6	4		2		Coleoptera
Snails & Limpets			1						5			1	Gastropoda
Midges	82	58	71	11	47	19	38	17	32	1	2	4	Chironomidae
Horse & Deer Flies													Tabanidae
Mosquitos	1		1										Culicidae
No-see-ums	15	5	3					2	1				Ceratopogonidae
Craneflies													Tipulidae
Blackflies													Simuliidae
Misc. True Flies													Misc. Diptera
Total Count	286	348	306	169	253	187	118	110	113	135	115	95	
Number of Taxa	12	12	14	10	12	11	10	11	13	9	10	11	
													Muskoka Average *
Richness	12	12	14	13			14			12			**14**
% EOT	10	32	41	22			28			17			**22**
% Chironimids	29	17	17	13			12			2			**12**
% Predators	21	27	25	23			32			26			**23**
% Shredders	0	2	1	5			1			6			**3**
% Collectors/Gatherers	79	65	73	72			66			68			**70**
Hilsenhoff Index	6.23	5.42	5.99	6.02			5.41			6.41			**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
	2005			2008			2009			2015			
	1	2	3	1	2	3	1	2	3	1	2	3	
Hydras													Coelenterata
Flatworms													Turbellaria
Roundworms													Nematoda
Aquatic Earthworms										3	3	1	Oligochaeta
Leeches	1											1	Hirudinaea
Sow Bugs										3			Isopoda
Clams													Pelecypoda
Fairy Shrimp	41	38	43	13	24	30	92	92	49	44	75	66	Amphipoda
Crayfish													Decapoda
Mites	1	7		10	10	6	2	2	2	2	4	2	Hydracarina
Mayflies	20	39	16	16	28	69	75	75	44	2	3	5	Ephemeroptera
Dragonflies	6	10	8	8	10	27	34	34	26	20	16	12	Anisoptera
Damselflies	8	22	17	2	12	23	17	17	35		11	2	Zygoptera
Stoneflies													Plecoptera
True Bugs													Hemiptera
Fishflies & Alderflies						1						1	Megaloptera
Caddisflies	1	1	1		1	3	5	5	7	3	2	1	Trichoptera
Aquatic Moths													Lepidoptera
Beetles	5	5	1		1	2	3	3	2	2	4	3	Coleoptera
Snails & Limpets	1		1		1	1				1			Gastropoda
Midges	23	22	17	58	33	37	31	31	24	25	14	14	Chironomidae
Horse & Deer Flies													Tabanidae
Mosquitos	1	2	2	2	2								Culicidae
No-see-ums				1	1				1		2	1	Ceratopogonidae
Craneflies													Tipulidae
Blackflies													Simuliidae
Misc. True Flies					1								Misc. Diptera
Total Count	108	146	106	110	124	199	259	259	190	105	134	109	
Number of Taxa	11	9	9	8	12	10	8	8	9	10	10	12	
													Muskoka Average *
Richness	11			13			9			14			**14**
% EOT	41			48			53			22			**22**
% Chironimids	17			31			12			15			**12**
% Predators	25			28			25			24			**23**
% Shredders	1			1			2			2			**3**
% Collectors/Gatherers	73			70			73			74			**70**
Hilsenhoff Index	5.99			6.00			5.74			6.00			**6.10**

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Common Name	Site 3 [R]									Scientific Name
	2010			2011			2014			
	1	2	3	1	2	3	1	2	3	
Hydras										Coelenterata
Flatworms				2						Turbellaria
Roundworms	1									Nematoda
Aquatic Earthworms	5	11	1	15	1		7		1	Oligochaeta
Leeches		1	1					1		Hirudinaea
Sow Bugs							1	1		Isopoda
Clams										Pelecypoda
Fairy Shrimp	83	114	130	86	98	85	76	76	73	Amphipoda
Crayfish										Decapoda
Mites	35	20	15	11	4	4	4	8	8	Hydracarina
Mayflies	1	6	5	25		10	4	5	2	Ephemeroptera
Dragonflies	5	1	9	15	9	9	6	6	7	Anisoptera
Damselflies		2	5	11	11	5			4	Zygoptera
Stoneflies										Plecoptera
True Bugs										Hemiptera
Fishflies & Alderflies			1					1	1	Megaloptera
Caddisflies	7	10	15	13	16	22	5	9	10	Trichoptera
Aquatic Moths										Lepidoptera
Beetles	2		11	8	3	1	5	6	10	Coleoptera
Snails & Limpets		1	2					1	3	Gastropoda
Midges	2	4	3	3	2	3		7	1	Chironomidae
Horse & Deer Flies									1	Tabanidae
Mosquitos										Culicidae
No-see-ums										Ceratopogonidae
Craneflies										Tipulidae
Blackflies										Simuliidae
Misc. True Flies										Misc. Diptera
Total Count	141	170	198	189	144	139	108	121	121	
Number of Taxa	9	10	12	10	8	8	8	11	12	
										Muskoka Average *
Richness	13			10			13			**14**
% EOT	13			31			17			**22**
% Chironimids	2			2			2			**12**
% Predators	21			20			20			**23**
% Shredders	6			11			7			**3**
% Collectors/Gatherers	72			70			73			**70**
Hilsenhoff Index	5.88			5.72			5.75			**6.10**

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