

Aquatic Invertebrate Data Sheet

Leonard Lake Township of Muskoka Lakes

Common Name	Site 1 ^R						Site 2 ^R						Scientific Name
	2005			2006			2007			2008			
	1	2	3	1	2	3	1	2	3	1	2	3	
Hydras													Coelenterata
Flatworms		3	5	1		14		1	4	1			Turbellaria
Roundworms		3	4	4	2	1							Nematoda
Aquatic Earthworms			1	12		4		7	3		2		Oligochaeta
Leeches	2			1		1							Hirudinaea
Sow Bugs													Isopoda
Clams	3	2	12	3			1						Pelecypoda
Fairy Shrimp	10	95	56	14	97	47	64	81	74	23	20	28	Amphipoda
Crayfish													Decapoda
Mites	6	3	2			4	4	3	3	69	30	53	Hydracarina
Mayflies	1	3	1	1	4	14	2			1			Ephemeroptera
Dragonflies	7	16	13	10	2	5	30	23	18	5	1	3	Anisoptera
Damselflies	4		4	7	7	5	7	9	10	14	15	13	Zygoptera
Stoneflies													Plecoptera
True Bugs													Hemiptera
Fishflies & Alderflies													Megaloptera
Caddisflies	1	2	7		3	6			1	12	1	2	Trichoptera
Aquatic Moths													Lepidoptera
Beetles	12	10		7	3					2	5		Coleoptera
Snails & Limpets	1	2	11	11	1	3	6	1					Gastropoda
Midges	8	5	24	7	3	19	22	10	9	7	14	2	Chironomidae
Horse & Deer Flies								1					Tabanidae
Mosquitos	1										1		Culicidae
No-see-ums	2	2	2				2	1		2	2		Ceratopogonidae
Craneflies										3	2	1	Tipulidae
Blackflies												1	Simuliidae
Misc. True Flies													Misc. Diptera
Total Count	58	146	142	78	122	123	138	137	122	139	93	103	
Number of Taxa	13	12	13	12	9	12	10	10	8	11	11	8	
Richness		16		14			12			14			Muskoka Average * 13
% EOT		17		20			25			20			26
% Chironimids		11		9			10			7			12
% Predators		27		21			29			64			24
% Shredders		3		3			0			6			2
% Collectors/Gatherers		60		69			69			29			69
Hilsenhoff Index		5.68		5.98			6.01			5.99			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.