

Aquatic Invertebrate Data Sheet

Walker Lake Township of Lake of Bays

Common Name	Site 4 ^R						Site 1 ^R						Scientific Name
	2004			2005			2006			2007			
	1	2	3	1	2	3	1	2	3	1	2	3	
Hydras													Coelenterata
Flatworms						1	2						Turbellaria
Roundworms				5	4		5	1	1				Nematoda
Aquatic Earthworms	2	7	2								1	4	Oligochaeta
Leeches								1					Hirudinaea
Sow Bugs													Isopoda
Clams	1				1								Pelecypoda
Fairy Shrimp	37	28	13	17	9	5	70	38	17	13	12	12	Amphipoda
Crayfish													Decapoda
Mites	13	20	12	14	23	6	2		11	9	1	20	Hydracarina
Mayflies	24	14	39	44	28	8	41	59	26	88	82	10	Ephemeroptera
Dragonflies	14	18	15	16	24	13	11	7	30	13	2	40	Anisoptera
Damselflies	1	1		5	2		5	6	8	2		2	Zygoptera
Stoneflies													Plecoptera
True Bugs													Hemiptera
Fishflies & Alderflies													Megaloptera
Caddisflies	3	1				1	10	3		1	1		Trichoptera
Aquatic Moths								1					Lepidoptera
Beetles		6	11	1	3	13	1	2	3			1	Coleoptera
Snails & Limpets	1	1	1		2	3		1				2	Gastropoda
Midges	12	12	14	13	10	4	4	6	9	8	8	18	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	108	108	107	115	106	54	152	125	106	134	107	110	
Number of Taxa	10	10	8	8	9	9	11	11	9	7	7	10	
Richness		11			12			14			11		Muskoka Average * 13
% EOT		40			51			54			69		26
% Chironimids		12			10			5			10		12
% Predators		34			44			24			26		24
% Shredders		1			0			4			1		2
% Collectors/Gatherers		63			50			71			73		69
Hilsenhoff Index		5.67			5.49			5.52			5.46		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

Walker Lake Township of Lake of Bays

Common Name	Site 5 ^R									Scientific Name
	2004			2005			2008			
	1	2	3	1	2	3	1	2	3	
Hydras										Coelenterata
Flatworms								1		Turbellaria
Roundworms				1	2	2	4		2	Nematoda
Aquatic Earthworms	5	1				5	5	2		Oligochaeta
Leeches										Hirudinaea
Sow Bugs										Isopoda
Clams				1				3	1	Pelecypoda
Fairy Shrimp	24	29	28	17	15	20	13	28	41	Amphipoda
Crayfish										Decapoda
Mites	10	13	16		5	7	22	7	11	Hydracarina
Mayflies	58	55	38	76	69	52	28	53	22	Ephemeroptera
Dragonflies	11	9	9	6	9	14	3	1		Anisoptera
Damselflies	1	2		1	1	1	8	1	6	Zygoptera
Stoneflies										Plecoptera
True Bugs										Hemiptera
Fishflies & Alderflies										Megaloptera
Caddisflies					1			1	1	Trichoptera
Aquatic Moths										Lepidoptera
Beetles			1	1	1	4			1	Coleoptera
Snails & Limpets	1		1					1	3	Gastropoda
Midges		1	15		1	7	11	6	15	Chironomidae
Horse & Deer Flies							2			Tabanidae
Mosquitos										Culicidae
No-see-ums						2		1	1	Ceratopogonidae
Craneflies								1	1	Tipulidae
Blackflies										Simuliidae
Misc. True Flies										Misc. Diptera
Total Count	110	110	108	103	104	114	96	106	105	
Number of Taxa	7	7	7	7	9	10	9	13	12	
Richness		9			13			16		Muskoka Average * 13
% EOT		56			72			40		26
% Chironimids		5			3			10		12
% Predators		22			18			21		24
% Shredders		0			0			1		2
% Collectors/Gatherers		77			82			73		69
Hilsenhoff Index		5.55			5.43			5.84		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.