

## Aquatic Invertebrate Data Sheet

### South Muldrew Lake Town of Gravenhurst

Common Name	Site 1 <sup>R</sup>															Scientific Name
	2004	2005	2012	2013	2014	2015			2016			2017				
						1	2	3	1	2	3	1	2	3		
Hydras	1															Coelenterata
Flatworms					1		1									Turbellaria
Roundworms	1								1							Nematoda
Aquatic Earthworms	27	1	19	3	2	10	9	19	7	10	11	22	27	29	Oligochaeta	
Leeches	1		5		1	1	3		1	1	2		1	1	Hirudinaea	
Sow Bugs								3							Isopoda	
Clams		1	1	3	1				2						Pelecypoda	
Fairy Shrimp	178	248	597	144	309	55	54	64	54	73	143	33	42	30	Amphipoda	
Crayfish	1		1												Decapoda	
Mites	58		55	64	47	13	6	7	14	6	14	20	19	33	Hydracarina	
Mayflies	16	11	6	22	11	2	8		8	3	5	4	6	2	Ephemeroptera	
Dragonflies	43	15	21	22	6	3	4		5	5	4	1	1	1	Anisoptera	
Damselflies	25	11	8	12	5	1	7	1	1	4	2	2		2	Zygoptera	
Stoneflies	1														Plecoptera	
True Bugs			3	3											Hemiptera	
Fishflies & Alderflies	1		1	2	2										Megaloptera	
Caddisflies	1	4	1	1	4		1						2		Trichoptera	
Aquatic Moths													1		Lepidoptera	
Beetles	15		12	3	2	4	4	2	5	3	2	3	7	5	Coleoptera	
Snails & Limpets	2	3	5	16	6				2		1	1			Gastropoda	
Midges	6	16	79	36	71	21	9	9	31	32	26	6		12	Chironomidae	
Horse & Deer Flies															Tabanidae	
Mosquitos												4	2		Culicidae	
No-see-ums	1	1	17	5	2	1	3	3	4	2	4	7	2	6	Ceratopogonidae	
Craneflies															Tipulidae	
Blackflies															Simuliidae	
Misc. True Flies	1			8	5										Misc. Diptera	
<b>Total Count</b>	379	311	831	344	475	111	109	108	135	139	214	103	110	121		
<b>Number of Taxa</b>	18	10	16	16	16	10	12	8	13	10	11	11	11	10		
															<b>Muskoka Average *</b>	
<b>Richness</b>	17	11	16	15	16		13		13			14			<b>14</b>	
<b>% EOT</b>	22	13	4	17	13		8		8			6			<b>17</b>	
<b>% Chironimids</b>	2	5	10	11	14		12		18			5			<b>12</b>	
<b>% Predators</b>	38	10	15	32	16		20		16			33			<b>19</b>	
<b>% Shredders</b>	0	1	0	1	3		0		0			0.9			<b>3</b>	
<b>% Collectors/Gatherers</b>	60	87	85	62	80		80		83			66			<b>73</b>	
<b>Hilsenhoff Index</b>	5.96	6.00	6.10	6.03	6.8		6.3		6.24			6.43			<b>6.25</b>	

R = Reference Site

\* The Muskoka Average is based on 200 samples collected at 82 reference sites between 2007 and 2016. Reference sites from 11 mesotrophic, 1 eutrophic and 29 oligotrophic lakes throughout Muskoka were used.

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Common Name	Site 4 <sup>R</sup>			Scientific Name
	2007			
	1	2	3	
Hydras				Coelenterata
Flatworms	2			Turbellaria
Roundworms				Nematoda
Aquatic Earthworms	3	1		Oligochaeta
Leeches				Hirudinaea
Sow Bugs				Isopoda
Clams				Pelecypoda
Fairy Shrimp	65	78	39	Amphipoda
Crayfish			1	Decapoda
Mites	13	7	13	Hydracarina
Mayflies	4	1	4	Ephemeroptera
Dragonflies	9	23	18	Anisoptera
Damselflies	4	6	7	Zygoptera
Stoneflies				Plecoptera
True Bugs				Hemiptera
Fishflies & Alderflies				Megaloptera
Caddisflies			2	Trichoptera
Aquatic Moths				Lepidoptera
Beetles	3	2		Coleoptera
Snails & Limpets		1		Gastropoda
Midges	9	11	30	Chironomidae
Horse & Deer Flies				Tabanidae
Mosquitos				Culicidae
No-see-ums	7	2	8	Ceratopogonidae
Craneflies				Tipulidae
Blackflies				Simuliidae
Misc. True Flies				Misc. Diptera
<b>Total Count</b>	119	132	122	
<b>Number of Taxa</b>	9	10	9	
				<b>Muskoka Average *</b>
<b>Richness</b>		13		<b>14</b>
<b>% EOT</b>		21		<b>17</b>
<b>% Chironimids</b>		13		<b>12</b>
<b>% Predators</b>		33		<b>19</b>
<b>% Shredders</b>		1		<b>3</b>
<b>% Collectors/Gatherers</b>		66		<b>73</b>
<b>Hilsenhoff Index</b>		6.00		<b>6.25</b>

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