THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet
Menominee Lake
Township of Lake of Bays

Common Name	Site 2 [R] 2004	Scientific Name
Hydras		Coelenterata
Flatworms		Turbellaria
Roundworms		Nematoda
Aquatic Earthworms	18	Oligochaeta
Leeches	1	Hirudinaea
Sow Bugs		Isopoda
Clams & Mussels	11	Bivalvia
Scuds	86	Amphipoda
Crayfish		Decapoda
Mites	24	Hydracarina
Mayflies	1	Ephemeroptera
Dragonflies	15	Anisoptera
Damselflies	2	Zygoptera
Stoneflies		Plecoptera
True Bugs	5	Hemiptera
Fishflies & Alderflies	1	Megaloptera
Caddisflies	14	Trichoptera
Aquatic Moths		Lepidoptera
Beetles		Coleoptera
Snails & Limpets	8	Gastropoda
Midges	110	Chironomidae
Horse & Deer Flies	3	Tabanidae
Mosquitos	2	Culicidae
No-see-ums	13	Ceratopogonidae
Craneflies		Tipulidae
Blackflies	1	Simuliidae
Misc. True Flies		Misc. Diptera
Total Count	315	
Number of Taxa	17	
		Muskoka Average *
Richness	17	**13**
% EOT	10	**17**
% Chironomids	35	**8**
% Predators	20	**24**
% Shredders	4	**2**
% Collectors/Gatherers	69	**68**
Hilsenhoff Index	6.44	**6.27**

R = Reference Site

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Menominee Lake

Township of Lake of Bays

Common Name	Site 3 [R]				Scientific Name
	2005	2006	2011	2023	
Hydras					Coelenterata
Flatworms	2	15	18	1	Turbellaria
Roundworms	4	23	7	1	Nematoda
Aquatic Earthworms	16	2	20	2	Oligochaeta
Leeches			1		Hirudinaea
Sow Bugs					Isopoda
Clams & Mussels	4	1			Bivalvia
Scuds	75	90	41	66	Amphipoda
Crayfish	1				Decapoda
Mites	37	30	29	7	Hydracarina
Mayflies	30	57	16	7	Ephemeroptera
Dragonflies	64	31	35	42	Anisoptera
Damselflies	3	7	13	7	Zygoptera
Stoneflies					Plecoptera
True Bugs			2	1	Hemiptera
Fishflies & Alderflies	2	4	2	2	Megaloptera
Caddisflies	48	25	22	4	Trichoptera
Aquatic Moths					Lepidoptera
Beetles	19	13	14		Coleoptera
Snails & Limpets	6	8	45	20	Gastropoda
Midges	46	18	25	8	Chironomidae
Horse & Deer Flies	1				Tabanidae
Mosquitos					Culicidae
No-see-ums	9		4	1	Ceratopogonidae
Craneflies					Tipulidae
Blackflies					Simuliidae
Misc. True Flies		1			Misc. Diptera
Total Count	367	325	294	169	
Number of Taxa	17	15	16	14	
					Muskoka Average *
Richness	17	13	16	14	**13**
% EOT	39	37	29	36	**17**
% Chironomids	13	6	9	5	**8**
% Predators	37	31	40	36	**24**
% Shredders	13	8	8	2	**2**
% Collectors/Gatherers	46	51	35	49	**68**
Hilsenhoff Index	5.56	5.38	5.84	5.85	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Menominee Lake

Township of Lake of Bays

Common Name	Site 4 R		Scientific Name
	2007	2008	
Hydras			Coelenterata
Flatworms	2		Turbellaria
Roundworms		18	Nematoda
Aquatic Earthworms	18	5	Oligochaeta
Leeches			Hirudinaea
Sow Bugs			Isopoda
Clams & Mussels			Bivalvia
Scuds	103	117	Amphipoda
Crayfish			Decapoda
Mites	39	96	Hydracarina
Mayflies	11	13	Ephemeroptera
Dragonflies	28	21	Anisoptera
Damselflies	14		Zygoptera
Stoneflies			Plecoptera
True Bugs			Hemiptera
Fishflies & Alderflies	9	5	Megaloptera
Caddisflies	11	18	Trichoptera
Aquatic Moths			Lepidoptera
Beetles	2	1	Coleoptera
Snails & Limpets	4	2	Gastropoda
Midges	57	41	Chironomidae
Horse & Deer Flies		1	Tabanidae
Mosquitos		5	Culicidae
No-see-ums	18	4	Ceratopogonidae
Craneflies			Tipulidae
Blackflies			Simuliidae
Misc. True Flies			Misc. Diptera
Total Count	316	347	
Number of Taxa	13	14	
			Muskoka Average *
Richness	13	14	**13**
% EOT	20	15	**17**
% Chironomids	18	12	**8**
% Predators	35	37	**24**
% Shredders	4	5	**2**
% Collectors/Gatherers	60	52	**68**
Hilsenhoff Index	6.08	5.90	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet
Menominee Lake
Township of Lake of Bays

Common Name	Site 5 [R]							Scientific Name
	2009	2010	2016	2017	2023	2024	2025	
Hydras								Coelenterata
Flatworms							1	Turbellaria
Roundworms		1					4	Nematoda
Aquatic Earthworms	14		5	50	3	2		Oligochaeta
Leeches	2	4	5	2				Hirudinaea
Sow Bugs	1	1				1		Isopoda
Clams & Mussels	1		36	3	2		2	Bivalvia
Scuds	179	305	351	114	117	47	149	Amphipoda
Crayfish								Decapoda
Mites	34	21	33	42	41	15	32	Hydracarina
Mayflies	47	17	24	13	23	4	121	Ephemeroptera
Dragonflies	37	11	6	8	14	7	9	Anisoptera
Damselflies	62	20	42	16	19	2	31	Zygoptera
Stoneflies	1							Plecoptera
True Bugs	3			1				Hemiptera
Fishflies & Alderflies			1		1		17	Megaloptera
Caddisflies	16	4	12	13	2	2		Trichoptera
Aquatic Moths								Lepidoptera
Beetles	24	1			3			Coleoptera
Snails & Limpets		13	37	4	9	5		Gastropoda
Midges	67	48	150	69	17	16	17	Chironomidae
Horse & Deer Flies								Tabanidae
Mosquitos				2			2	Culicidae
No-see-ums	4		10	4	1	3	20	Ceratopogonidae
Craneflies								Tipulidae
Blackflies								Simuliidae
Misc. True Flies								Misc. Diptera
Total Count	492	446	712	341	252	104	405	
Number of Taxa	15	12	13	14	13	11	12	
								Muskoka Average *
Richness	15	12	13	14	13	11	12	**13**
% EOT	33	12	12	16	23	14	40	**17**
% Chironomids	14	11	21	22	7	15	4	**8**
% Predators	34	13	14	23	31	26	27	**24**
% Shredders	3	1	2	4	1	2	0	**2**
% Collectors/Gatherers	63	83	74	79	63	67	71	**68**
Hilsenhoff Index	5.99	6.12	6.38	7.00	6.02	6.13	6.31	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Menominee Lake

Township of Lake of Bays

Common Name	Site 6[R]						Scientific Name
	2012	2013	2019	2022	2024	2025	
Hydras							Coelenterata
Flatworms	38	6					Turbellaria
Roundworms	1	6	2	2	3		Nematoda
Aquatic Earthworms	25		2				Oligochaeta
Leeches			3	1		2	Hirudinaea
Sow Bugs							Isopoda
Clams & Mussels	2						Bivalvia
Scuds	428	351	248	88	67	125	Amphipoda
Crayfish							Decapoda
Mites	40	16	21	5	14	21	Hydracarina
Mayflies	32	30	2	5	2	4	Ephemeroptera
Dragonflies	55	18	20	4	9	2	Anisoptera
Damselflies	34	8		7	8		Zygoptera
Stoneflies							Plecoptera
True Bugs	8						Hemiptera
Fishflies & Alderflies	6						Megaloptera
Caddisflies	32	8	4			3	Trichoptera
Aquatic Moths	2				1		Lepidoptera
Beetles	14		2				Coleoptera
Snails & Limpets	46	4	4		4		Gastropoda
Midges	86	26	22	5	14	3	Chironomidae
Horse & Deer Flies							Tabanidae
Mosquitos							Culicidae
No-see-ums	7	3	1	1	4	11	Ceratopogonidae
Craneflies							Tipulidae
Blackflies							Simuliidae
Misc. True Flies							Misc. Diptera
Total Count	856	476	331	118	126	171	
Number of Taxa	17	11	12	9	10	8	
							Muskoka Average *
Richness	17	11	12	9	10	8	**13**
% EOT	18	13	8	14	15	5.3	**17**
% Chironomids	15	6	7	4	11	1.8	**8**
% Predators	23	11	14	15	28	21	**24**
% Shredders	4	2	1	0	0.8	1.8	**2**
% Collectors/Gatherers	69	86	83	83	66	77	**68**
Hilsenhoff Index	5.98	5.91	6.00	6.03	6.10	6.57	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Menominee Lake

Township of Lake of Bays

Common Name	Site 7		Scientific Name
	2014	2015	
Hydras			Coelenterata
Flatworms		2	Turbellaria
Roundworms	20	1	Nematoda
Aquatic Earthworms		20	Oligochaeta
Leeches			Hirudinaea
Sow Bugs	15		Isopoda
Clams & Mussels			Bivalvia
Scuds	125	172	Amphipoda
Crayfish			Decapoda
Mites	52	9	Hydracarina
Mayflies	17	18	Ephemeroptera
Dragonflies	24	15	Anisoptera
Damselflies	4	7	Zygoptera
Stoneflies			Plecoptera
True Bugs			Hemiptera
Fishflies & Alderflies	5	7	Megaloptera
Caddisflies	24	20	Trichoptera
Aquatic Moths	1		Lepidoptera
Beetles	8	4	Coleoptera
Snails & Limpets	3		Gastropoda
Midges	21	38	Chironomidae
Horse & Deer Flies			Tabanidae
Mosquitos			Culicidae
No-see-ums	5	5	Ceratopogonidae
Craneflies			Tipulidae
Blackflies			Simuliidae
Misc. True Flies	3		Misc. Diptera
Total Count	327	318	
Number of Taxa	15	13	
			Muskoka Average *
Richness	15	13	**13**
% EOT	21	19	**17**
% Chironomids	7	12	**8**
% Predators	30	15	**24**
% Shredders	7	6	**2**
% Collectors/Gatherers	56	78	**68**
Hilsenhoff Index	5.77	5.95	**6.27**

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THE DISTRICT MUNICIPALITY OF MUSKOKA

Aquatic Invertebrate Data Sheet

Menominee Lake

Township of Lake of Bays

Common Name	Site 8[R]		Scientific Name
	2022	2024	
Hydras			Coelenterata
Flatworms			Turbellaria
Roundworms	4	3	Nematoda
Aquatic Earthworms		6	Oligochaeta
Leeches		1	Hirudinaea
Sow Bugs			Isopoda
Clams & Mussels	1	16	Bivalvia
Scuds	50	1	Amphipoda
Crayfish			Decapoda
Mites	13	11	Hydracarina
Mayflies	6		Ephemeroptera
Dragonflies		5	Anisoptera
Damselflies	5	1	Zygoptera
Stoneflies			Plecoptera
True Bugs			Hemiptera
Fishflies & Alderflies	1		Megaloptera
Caddisflies	3		Trichoptera
Aquatic Moths			Lepidoptera
Beetles	1		Coleoptera
Snails & Limpets	25	46	Gastropoda
Midges	2	10	Chironomidae
Horse & Deer Flies			Tabanidae
Mosquitos			Culicidae
No-see-ums	1	1	Ceratopogonidae
Craneflies			Tipulidae
Blackflies			Simuliidae
Misc. True Flies			Misc. Diptera
Total Count	112	101	
Number of Taxa	12	11	
			Muskoka Average *
Richness	12	11	**13**
% EOT	13	6	**17**
% Chironomids	2	10	**8**
% Predators	19	19	**24**
% Shredders	3	0	**2**
% Collectors/Gatherers	52	17	**68**
Hilsenhoff Index	6.1	6.9	**6.27**

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