

Aquatic Invertebrate Data Sheet

South Muldrew Lake - Patterson's Bay Town of Gravenhurst

| Common Name | Site 2 ^R | | | | | | | | | | | | Scientific Name |
|-------------------------------|---------------------|------|------|------|------|-----|------|------|-----|------|------|-----|--------------------------|
| | 2005 | 2006 | 2012 | 2014 | | | 2015 | | | 2016 | | | |
| | | | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | |
| Hydras | | | | | | | | | | | | | Coelenterata |
| Flatworms | | | 1 | | | | | | | | 1 | | Turbellaria |
| Roundworms | 13 | 12 | | 2 | | | | | | | | | Nematoda |
| Aquatic Earthworms | 3 | 2 | 36 | | 1 | | 3 | | 5 | 7 | 7 | 2 | Oligochaeta |
| Leeches | 1 | 1 | 3 | | | | | | | | | 1 | Hirudinaea |
| Sow Bugs | | | | | | | | | | | | | Isopoda |
| Clams | | | | 1 | | 6 | | | | | 27 | 11 | Pelecypoda |
| Fairy Shrimp | 122 | 120 | 274 | 78 | 55 | 80 | 67 | 104 | 122 | 60 | 54 | 73 | Amphipoda |
| Crayfish | | | 1 | | | 1 | | | | 1 | | | Decapoda |
| Mites | 32 | 31 | 41 | 23 | 18 | 33 | 3 | 6 | 11 | 7 | 6 | 5 | Hydracarina |
| Mayflies | 30 | 44 | 111 | 8 | 7 | 9 | 11 | 20 | 22 | 2 | 5 | 9 | Ephemeroptera |
| Dragonflies | 58 | 29 | 30 | 15 | 8 | 12 | 4 | 3 | 9 | 1 | 13 | 5 | Anisoptera |
| Damselflies | 48 | 51 | 124 | 17 | 6 | 6 | | 2 | 10 | 7 | 12 | 6 | Zygoptera |
| Stoneflies | | | | 9 | 5 | 12 | | | | | | | Plecoptera |
| True Bugs | 3 | 11 | 1 | | 2 | | | | | | | | Hemiptera |
| Fishflies & Alderflies | 1 | | 1 | | 2 | 1 | 2 | | | | | | Megaloptera |
| Caddisflies | 8 | 9 | 18 | 11 | 12 | 9 | 2 | 2 | 7 | 2 | 9 | 11 | Trichoptera |
| Aquatic Moths | | | 1 | | | | | | | | | | Lepidoptera |
| Beetles | 12 | 8 | 29 | 5 | 1 | 1 | 3 | 8 | 7 | | 3 | 5 | Coleoptera |
| Snails & Limpets | 7 | 6 | 35 | 3 | 6 | 14 | | | | | 7 | 7 | Gastropoda |
| Midges | 25 | 31 | 57 | 11 | 17 | 21 | 5 | 4 | 3 | 20 | 14 | 7 | Chironomidae |
| Horse & Deer Flies | 2 | | | | | | | | | | | | Tabanidae |
| Mosquitos | | | 1 | | | | | | | | | | Culicidae |
| No-see-ums | 3 | 2 | 5 | 1 | 7 | | | | | 1 | 1 | | Ceratopogonidae |
| Craneflies | | | | | | | | | | | | | Tipulidae |
| Blackflies | | | | | | | | | | | | | Simuliidae |
| Misc. True Flies | | | 3 | 1 | 1 | 1 | | | | | | | Misc. Diptera |
| Total Count | 368 | 357 | 772 | 185 | 148 | 206 | 100 | 149 | 196 | 109 | 158 | 142 | |
| Number of Taxa | 16 | 14 | 19 | 14 | 15 | 14 | 9 | 8 | 9 | 11 | 12 | 12 | |
| | | | | | | | | | | | | | Muskoka Average * |
| Richness | 16 | 14 | 19 | | 18 | | | 11 | | | 15 | | 14 |
| % EOT | 39 | 37 | 35 | | 25 | | | 21 | | | 20 | | 22 |
| % Chironimids | 7 | 9 | 7 | | 10 | | | 3 | | | 10 | | 12 |
| % Predators | 44 | 37 | 29 | | 31 | | | 15 | | | 18 | | 23 |
| % Shredders | 2 | 3 | 3 | | 6 | | | 3 | | | 5 | | 3 |
| % Collectors/Gatherers | 49 | 55 | 59 | | 56 | | | 82 | | | 64 | | 70 |
| Hilsenhoff Index | 5.85 | 5.90 | 6.13 | | 5.90 | | | 5.78 | | | 6.22 | | 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.