



PARRY SOUND AREA LAKE SUMMARIES



Brought to you compliments of:

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Trout Lake (Burpee)

Created: November 03

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Location:

MNR District:..... Parry Sound
Geographic Township: East Burpee
Municipal Township: Unincorporated
Watershed: Shawanaga River
Angling Division: 15

Basin and Terrain Characteristics:

Lake Survey Year: 1972
Surface Area:..... 290.1 hectares
Maximum Depth: 40.0 meters (1987)
Mean Depth: 12.0 meters (1987)
Perimeter: 24.1 km
Island shoreline: 3.5 km
Littoral Zone: 41%
Thermal Regime: Cold
Shoreline Development: 8 Cottages
Access Points: Remote
Water Level: Not regulated
Crown Land: 100% Shoreline

Water Quality:

(Parameters pertain to fisheries habitat only. For information on potability of water or contaminants, contact Min. of Health and Min. of Environment.)

Secchi reading: 5.25 - 5.5 meters (1998)
Colour: blue-green

Dissolved Oxygen:**Alkalinity:** 13.1ug/l - Level 2 Extremely Sensitive (MoE, 1989)**pH:** 6.0 (1987)**Total Phosphorus:****M.E.I.:** 1.8

“Guide to eating fish”: Restrictions for Smallmouth Bass, Cisco and Lake Trout refer to the current “Guide to Eating Ontario Sport Fish”

Fisheries:**Game Fish Species:** Lake Trout, Smallmouth Bass, Yellow Perch

Other species present: White Sucker, Cisco, Mudminnow, Redbelly Dace, Golden Shiner, Common Shiner, Blacknose Shiner, Creek Chub, Brown Bullhead, Brook Stickleback, Pumpkinseed, Iowa Darter

Exotic Species: None

Stocking Record: 1974 Lake Trout yearling 9,000 LV clip
1972 Lake Trout yearling 13,500 RV clip
1971 Lake Trout yearling 5,000 RP clip
1970 Lake Trout yearling 2,500 LP clip

Stress Type: Acidification, Exploitation**Use Type:** Recreational Fishing**Summary of Fisheries Studies / Reports:**

McIntyre, E. 1999 **Fall Littoral Index Netting Report** for Trout Lake (Burpee Township)
1998

- Lake trout population status on Trout Lake was assessed during the fall of 1998.
- Thirty, short duration, fine mesh, gill net sets were made according to the Ministry’s “Spring Littoral Index Netting” (SLIN) protocol.
- A total of 146 lake trout were caught for a Catch-Per-Unit-Effort (CUE) of 4.87 ± 1.55 lake trout per net set ($P > 0.05$). Relative to other lake trout lakes in the Parry Sound Area and the Province of Ontario, this CUE is among the highest yet recorded and is certainly indicative of a remarkably high abundance of lake trout.
- Lake trout were widely distributed throughout the lake with a probability of capture (nets containing at least one lake trout) of 93%.
- Mean size of lake trout sampled was: 48.3 ± 1.58 cm ($P > .05$) total length; 43.7 ± 1.49 cm. fork length; and round weight 1002 ± 110 grams.
- CUE and size class structure of the lake trout catch indicate excellent levels of reproduction and recruitment to the population.
- The condition (length-weight relationship) of lake trout sampled was slightly below the provincial average. This is probably attributable to heavy planktivorous feeding by this population and/or considerable intraspecific (between lake trout) competition. Although inconclusive, sexual maturation appears to be considerably delayed in this population.

B.A.R. Environmental, 1987. **Experimental lake neutralization** studies in Ontario 1981 - 1986.

- Provincially sponsored lake neutralization study (Acid Precipitation in Ontario Study); comprehensive and intensive assessment of the Trout Lake aquatic ecosystem
- 4.6 tonnes of slurried calcite dropped by water bomber aircraft in 1984
- estimate of mature lake trout density: 2.5 - 3.2 trout / ha.
- population estimate: 725 - 928 mature lake trout
- age frequency distribution of lake trout indicated consistently strong year classes
- growth and condition of lake trout slightly lower than comparable Algonquin Park lakes
- creel data indicated the lake trout population was lightly exploited (0.08 - 0.21 kg/ha/yr)
- 6 spawning sites discovered (apparently abundant spawning habitat present)

Wren, C. 1989 Summary of the **Trout Lake creel survey** data for the opening May long weekend, 1983 - '88).

- Observed effort range 1983 - '88: 52 - 222 angler hours; total estimate: 86 - 246 angler hrs.
- Observed trout catch range 1983 - '88: 28 - 130 lake trout; total harvest estimate: 24 - 79
- Angler CUE range 1983 - '88: 0.19 - 0.87 lake trout / angler hr.
- Angler HUE range 1983 - '88: 0.19 - 0.53 lake trout / angler hr.

MNR, 1978 Summary of **1978 winter creel census** on lake trout lakes by Ministry of Natural Resources Personnel.

- 8 sampling occasions
- 48 anglers checked; 156 angler hrs. observed
- 8 lake trout caught
- 2 lake trout observed, both greater than 16" and both natural

Thurston, L. 1977 Summary of Two Years (1976-77) of **Lake Trout assessment** work Parry Sound District

- recommends continued management as a Lake Trout Lake

Thurston, L. 1975 **Summer and winter Creel Census** on selected Lake Trout Lakes in the Parry Sound District 1974-75

- Angling quality was considered fair

MNR Note to file: Raw Data Creel

- Various raw creel data pertaining to 1973, 1974, 1978 and '79 winter fishery - available on lake file. Not summarized.

Management Prescription:

Manage as natural, self-sustaining lake trout and smallmouth bass fishery.

Fish sanctuary - no fishing from Jan. 1 - May 18 (Fri. before 3rd Sat.).