



PARRY SOUND AREA LAKE SUMMARIES



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Trout Lake (McDougall)

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Revised:

Location:

MNR District:..... Parry Sound
Geographic Township: McDougall
Municipal Township: McDougall
Watershed: Seguin River
Angling Division: 15

Basin and Terrain Characteristics:

Lake Survey Year: 1971
Surface Area:..... 226 hectares
Maximum Depth: 27.1 meters
Mean Depth: 6.8 meters
Perimeter: 15.3 km
Island shoreline: 3.4 km
Littoral Zone: 64%
Thermal Regime: Cold
Shoreline Development: 33 Cottages
Access Points: Road (Public)
Water Level: Not Regulated
Crown Land: 20% 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: 6 meters
Colour: Colourless

Dissolved Oxygen:**Alkalinity:** 3.81 ug/l (1989)**pH:** 6.47 (1989) – Level 2 Extremely Sensitive (MoE, 1989)**Total Phosphorus:** 6.8 ug/l (1984)**M.E.I.:** 2.9**“Guide to eating fish”:** No Information**Fisheries:****Game Fish Species:** Lake Trout (2001), Smallmouth Bass (1996), Largemouth Bass (1971), Rainbow Trout (2001), Walleye (1932, Anecdotal), Brook Trout (1923), Northern Pike (1985, Anecdotal), Yellow Perch (1996)**Other species present:** Cisco (2001), White Sucker (1996), Rock Bass (1971), Pumpkinseed (1971)**Exotic Species:****Stocking Record:** 2002 Lake Trout 1,000 17 month RV clip
2000 Rainbow Trout 2,000 8 – 10 inch
2000 Lake Trout 1,100 16 month 1,100 LP clip
1999 Rainbow 2,000 Trout 8 – 10 inch 2,000
1998 Lake Trout 1,100 15 month AD clip
1996 Lake Trout 1,100 17 month RP clip
1994 Lake Trout 1,100 17 month LV clip
1992 Lake Trout 1,000 yearling RV clip
1990 Lake Trout 2,000 17 month LP clip
1988 Lake Trout 1,200 16 month AD clip
1986 Lake Trout 1,600 yearling RP clip
1984 Lake Trout 3,000 4 month LP clip
1982 Lake Trout 1,408 17 month RV clip
1980 Lake Trout 1,400 20 month LP clip
1978 Lake Trout 1,300 2 year RV clip
1976 Lake Trout 1,000 2 year
1974 Lake Trout 4,000 yearling
1973 Lake Trout 4,700 yearling
1972 Lake Trout 5,600 yearling
1971 Lake Trout 4,000 yearling
1970 Lake Trout 4,000 yearling
1968 Lake Trout 4,000 yearling
1966 Lake Trout 2,500 yearling
1964 Lake Trout 1,000 yearling
1962 Lake Trout 1,000 yearling
1960 Lake Trout 1,000 11 month
1957 Lake Trout 1,000 fingerling
1955 Lake Trout 3 month 1,000
1953 Lake Trout 2,000 (?)
1951 Lake Trout 2,000 (?)
1950 Lake Trout 10,000 fingerling
1949 Lake Trout 2,000 fingerling
1946 Lake Trout 4,000 fingerling

1946 Smallmouth Bass 500 fingerling
1945 Smallmouth Bass 500 fingerling
1940 Lake Trout 15,000 fingerling
1940 Smallmouth Bass 1,000 fingerling
1939 Lake Trout 10,000 fingerling
1939 Smallmouth Bass 100 yearling
1939 Smallmouth Bass 100 yearling
1935 Smallmouth Bass 5,000 fry
1934 Smallmouth Bass 5,000 fry
1932 Walleye 100,000 fry
1928 Walleye 200,000 fry
1924 Lake Trout 15,000 fry
1923 Speckled Trout 2,000 fingerling
1922 Rainbow Trout 1,000 fry
1922 Bass 2,500 fry
1922 Lake Trout 10,000 fry

Stress Type:

Use Type: Recreation, Recreational Fishing

Summary of Fisheries Studies / Reports:

McIntyre, E. 2002 Trout Lake (McDougall Twp.) **winter 2001 creel survey** report

- An intensive creel survey was conducted on Trout Lake (McDougall Twp.) during the winter of 2001. Survey data was supplemented by information received from local anglers.
- Total fishing effort was estimated to be 1,096 angler hours. Fishing pressure was 4.85 angler hours per hectare. We estimate a total lake trout catch of 147 and harvest of 81. For all months combined, the observed effort to catch a lake trout was 7.0 hours (EUC) and 12.7 hours to harvest one (EUH).
- Of 74 lake trout for which biosampling data was available, 26 (35%) were reported to be natural fish due to the absence of fin clips. We consider this both a surprising and positive development for the Trout Lake fishery.
- We estimate that approximately 20% of lake trout planted are caught and 10% harvested, solely by the winter fishery. These estimates would undoubtedly rise if the summer fishery were also taken into consideration. We consider these utilization rates for planted lake trout to be very good.

McIntyre, E. 1997 **Spring Littoral Index Netting Report** for Trout Lake 1996

- Trout Lake is currently managed as an artificial, put-grow-take, lake trout fishery. Historically, the lake originally had a natural, self-sustaining lake trout population. The Ministry of Natural Resources is interested in returning this population to a natural, self-sustaining condition; but prior to doing so wished to evaluate the likelihood of this being successful. Consequently, a "Spring Littoral Index Netting" (SLIN) survey to monitor the current status of the lake trout population was conducted during the spring of 1996.
- Indices of population status evaluated included: relative abundance as measured by catch-per-unit-effort (CUE = 0.43 - 0.21 lake trout per net set; 95% confidence interval);

mortality index of 50%; growth index (A400 = 7.4 years) and fish condition (length-weight relationship).

- All ten lake trout sampled were of hatchery origin; suggesting nil or negligible natural reproduction.
- These indices indicate a low abundance, high mortality, wholly artificially maintained lake trout population.
- Without some future evidence of reproduction by this population, management for an artificial lake trout fishery should continue on this lake.

McIntyre, E. 1997 **Results of a non-intensive roving creel survey** conducted on Trout Lake (McDougall) during the summer of 1996

- 8 sample days were selected
- very light fishing activity was recorded leading to the speculation few stocked trout are harvested in the summer
- the lake is a well known destination for ice fishing and generally 2 to 4 huts occupy the lake throughout the winter

McIntyre, E. 1997 **Creation/Enhancement of Lake Trout Spawning Habitat** Trout Lake (McDougall Twp.) by the Manitou-Seguin Fish & Game Club

- 22 tons of granite stones (3 – 12 inches) were deposited on the winter ice at the west side of Birch Island
- subsequent inspection (Oct. 97) of the created bed revealed successful conditions for spawning although no spawn were recorded

Kujala, H. 1978 **Lake Trout Spawning shoal improvement** – Trout Lake

- approximately 19 tons of rock boulders were utilized to create 6 spawning shoals at known spawning locations

Thurston, L. 1977 **Summary of two years (1976-77) of lake trout assessment work** Parry Sound District

- recommends not managing for lake trout in three to five years pending assessment results over the next few years
- the reason for poor results are not known

Thurston, L. 1976 **Assessment of Lake Trout Plantings** Parry Sound District

- considering the stocking effort, results of the netting were considered less than satisfactory
- recommends continue lake trout planting a reassess in a couple years

Thurston, L. 1975 **Summer and Winter creel census** on selected lake trout lakes in the Parry Sound District 1974-75

- 120 man hours in June for 2 lake trout: poor angling was reported
- the lake is considered to have a high rock bass population which may be impacting the lake

trout

- 2 year old lake trout should be considered for stocking due to the presence of rock bass

Walden, F.A. 1949 **The Limnology** of Trout Lake

- the lake originally had a natural lake trout population
- the lake had been subjected to heavy exploitation with a reported commercial gillnetting operation for lake trout having taken place in addition to angling
- Manage the lake for a natural reproducing lake trout population

Management Prescription: