



PARRY SOUND AREA LAKE SUMMARIES



Brought to you compliments of:

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Little Seguin Lake

a.k.a. Duck

Created: October 03

Revised:

Location:

MNR District:..... Parry Sound

Geographic Township: Christie

Municipal Township: Seguin

Watershed:

Angling Division: 15

Basin and Terrain Characteristics:

Lake Survey Year: 1983

Surface Area:..... 87.0 hectares

Maximum Depth: 16.5 meters

Mean Depth: 9.9 meters

Perimeter: 6.9 km

Island shoreline: 0.2 km

Littoral Zone: 44%

Thermal Regime: Cool

Shoreline Development: 70 Cottages or Residences, 1 Resort

Access Points: Road (Private)

Water Level: Not Regulated has a maintained dam

Crown Land: 2% 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: 2.1 meters (2001); 4.1 meters (MoE, 1998)

Colour: Yellow/Brown

Dissolved Oxygen:**Alkalinity:** 6.8mg/l – Level 3 Moderately Sensitive (MoE, 1989)**pH:** 7.0**Total Phosphorus:** 0.006 to 0.016 mg/l (MoE, 1998)**M.E.I.:** 5.6**“Guide to eating fish”:** No Information**Fisheries:****Game Fish Species:** Lake Trout (1999), Smallmouth Bass(1999), Northern Pike(1999), Largemouth Bass, Yellow Perch (1999)**Other species present:** Rainbow Smelt (1999), Lake Whitefish (1989), White Sucker (1999), Brown Bullhead, Trout Perch, Cisco (1999), River Chub (1969), Pumpkinseed (1999), Rock Bass (1999)**Exotic Species:****Stocking Record:** 1999 Lake Trout 1,200 yearling
1995 Lake Trout 1,200 17 month
1993 Lake Trout 1,200 17 month
1989 Lake Trout 1,200 yearling
1986 Lake Trout 1,800 yearling
1985 Lake Trout 2,000 yearling
1984 Lake Trout 1,500 yearling
1983 Lake Trout 2,000 yearling
1981 Lake Trout 1,500 18 month
1979 Lake Trout 1,400 16 month
1977 Lake Trout 600 26 month
1976 Lake Trout 1,000 27 month
1966 Lake Trout 2,000 yearling
1966 Lake Trout 1,000 yearling
1964 Lake Trout 1,000 yearling
1964 Smallmouth Bass 2,000 fingerling
1960 Lake Trout 1,000 11 months
1956 Smallmouth Bass 200 fingerling
1954 Smallmouth Bass 300 fingerling
1953 Smallmouth Bass 400 fingerling
1953 Lake Trout 2,000 (?)
1952 Smallmouth Bass 300 fingerling
1951 Lake Trout 1,000 yearling
1951 Smallmouth Bass 5,000 fry
1950 Lake Trout 2,000 fingerling
1949 Smallmouth Bass 400 fingerling
1949 Lake Trout 2,000 fingerling
1947 Smallmouth Bass 5,000 fry
1946 Smallmouth Bass 500 fingerling**Stress Type:****Use Type:** Recreation, Recreational Fishing

Summary of Fisheries Studies / Reports:

McIntyre, E. 2003 2002 **Winter Creel Survey Report**

- An intensive creel survey was conducted on Little Seguin Lake from January 16 to March 31, 2002.
- Observed fishing effort on Little Seguin Lake was extremely light and we estimate a meager total fishing effort of only 128 angler hours. Only four parties were interviewed during the survey. These interviews comprised 18.5 angler hours of sampled angling effort. No lake trout were observed caught or harvested and consequently there was insufficient data to generate estimates of total catch, harvest and angling quality. Nevertheless, by inference we consider over-all lake trout catch and harvest to be negligible or close to zero.
- We conclude that lake trout plantings for the purpose of providing additional angling opportunities are largely a failure at achieving this objective. Based on recent lake trout assessment studies we speculate that low levels of angling effort are directly related to an exceptionally low abundance of lake trout and resulting poor fishing quality.

McIntyre, E. 2001. **Spring Littoral Index Netting (SLIN)** Survey Report for Little Seguin Lake, Spring 2001.

- The status of the lake trout population in Little Seguin Lake was assessed during the spring of 2001 using the Ministry's *Spring Littoral Index Netting (SLIN)* survey protocol. A total of 3 lake trout, 20 northern pike, 3 smallmouth bass, 22 rock bass, 28 yellow perch, 1 pumpkinseed, 4 cisco, 4 common white sucker and 1 rainbow smelt were captured in 30, short-duration (90 minute), fine mesh gillnet sets.
- The lake trout probability of capture was 10%; second lowest amongst 11 lakes similarly surveyed in the Parry Sound Area. Lake trout *Catch-Per-Unit-Effort (CPUE)* was a meager 0.1 lake trout per net set ± 0.06 (standard error). This exceptionally low index of lake trout abundance ranks last out of 9 SLIN surveys in the provincial data base that were filtered such that only lakes less than 100 hectares were considered. Our meager lake trout sample of 3 fish was too small to draw any meaningful conclusions other than their scarcity. Two fish were from the 1999 planting and one from the 1993 planting.
- In spite of regular, bi-annual plantings of lake trout, the above indices point to an exceptionally low abundance of lake trout in Little Seguin Lake. We suspect that low survival of planted fish is attributable to the very small volume of suitable lake trout habitat present. We consequently recommend that lake trout plantings cease and that Little Seguin Lake be managed as a natural, self-sustaining northern pike and smallmouth bass fishery.
- Northern pike accounted for 75% of the total catch weight of 43.8 kilograms. Although there is limited comparative data, we consider the CPUE of 0.67 northern pike per net set ± 0.61 (standard error) to be indicative of high population abundance.

Various Sources 2001 **Optimal and Useable Habitat Calculations for Lake Trout** in 2001, 2000, 1999, 1996 & 1989

- 2001 - Optimal: 20.3%; Usable: 30.5%
- 2000 - Optimal: 19.5%; Usable: 39.0%
- 1999 - Optimal: 20.4%; Usable: 30.5%
- 1996 - Optimal: 29.3%
- 1989 - Optimal: 0.0%; Usable: 11.8%

Deary Environmental Consultants, 1990. **Summary report for lake trout (Salvelinus namaycush) assessment** of thirteen lakes in the Parry Sound District.

- Four (4) overnight gillnet sets captured 8 lake trout all were planted fish. The CUE of 2.0 was the highest of the 13 lakes surveyed.
- Other fish captured included: 13 lake whitefish, 1 cisco, 5 rainbow smelt, 16 common white suckers, and 6 smallmouth bass.

Thurston, L. 1981. **A Historical review of Native versus Non-native lake trout lakes** in the Parry Sound District.

- Based on anecdotal accounts, Thurston determined that Little Seguin Lake originally had a native lake trout population.

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

- Seven (7) overnight gillnet sets caught 10 lake trout (all planted). Thurston placed this lake in 'Category 1' which he believed had an ample population of lake trout and should continue to be managed for this species.

Management Prescription: