



## PARRY SOUND AREA LAKE SUMMARIES



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### Lorimer Lake

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*Revised:*

#### **Location:**

**MNR District:**..... Parry Sound  
**Geographic Township:** ..... Ferguson & Hagerman  
**Municipal Township:** ..... McDougall & Whitestone  
**Watershed:** ..... Manitouwabing and Sequin Rivers  
**Angling Division:** ..... 15

#### **Basin and Terrain Characteristics:**

**Lake Survey Year:** ..... 1972  
**Surface Area:**..... 490 hectares  
**Maximum Depth:** ..... 24.4 meters  
**Mean Depth:** ..... 8.0 meters  
**Perimeter:** ..... 37.2 km  
**Island shoreline:** ..... 0.0 km  
**Littoral Zone:** ..... 42%  
**Thermal Regime:** ..... Cool  
**Shoreline Development:** ..... 72 Cottages, 2 Resorts  
**Access Points:** ..... Road (Public)  
**Water Level:** ..... Not Regulated  
**Crown Land:** ..... 0% 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:** ..... 4.1 meters  
**Colour:** ..... Yellow/Brown

**Dissolved Oxygen:****Alkalinity:** 27.4 – Level 3 Moderately Sensitive (MoE, 1989)**pH:** 7.5**Total Phosphorus:** .012 mg/l (1996)**M.E.I.:** 3.7

**“Guide to eating fish”:** Restrictions for largemouth bass and northern pike refer to the current  
“Guide To Eating Ontario Sport Fish”

**Fisheries:**

**Game Fish Species:** Lake Trout (2000), Smallmouth Bass (1990), Northern Pike (2000),  
Largemouth Bass (1990), Yellow Perch (2000)

**Other species present:** Cisco, Rainbow Smelt (1982), White Sucker (1990), Rock Bass (1990),  
Brown Bullhead (1986), Pumpkinseed (1990), Creek Chub (1977), Bluntnose Minnow  
(1986), Mottled Sculpin (1986), Golden Shiner

**Exotic Species:** Spiny Water Flea (2000)

**Stocking Record:** 2002 Lake Trout 2,000 17 month  
2000 Lake Trout 2,000 16 month  
1998 Lake Trout 2,000 yearling  
1996 Lake Trout 2,000 yearling  
1994 Lake Trout 1,900 yearling  
1992 Lake Trout 1,600 yearling  
1990 Lake Trout 2,000 yearling  
1988 Lake Trout 2,000 yearling  
1986 Lake Trout 2,500 yearling  
1984 Lake Trout 3,000 yearling  
1982 Lake Trout 2,400 yearling  
1980 Lake Trout 1,700 yearling  
1977 Lake Trout 2,500 yearling  
1975 Lake Trout 2,000 yearling  
1974 Lake Trout 1,000 yearling  
1967 Lake Trout 4,000 yearling  
1965 Lake Trout 3,000 fingerling  
1957 Lake Trout 2,000 fingerling  
1955 Lake Trout 1,000 fingerling  
1953 Lake Trout 2,000 fingerling  
1953 Smallmouth Bass 500 fingerling  
1952 Smallmouth Bass 300 fingerling  
1951 Lake Trout 2,000 fingerling  
1950 Lake Trout 3,000 fingerling  
1949 Lake Trout 2,000 fingerling  
1947 Smallmouth Bass 5,000 fry  
1946 Smallmouth Bass 500 fingerling  
1946 Lake Trout 4,000 fingerling  
1945 Smallmouth Bass 10,000 fingerling  
1945 Lake Trout 20,000 fingerling  
1944 Smallmouth Bass 10,000 fry  
1944 Lake Trout 5,000 fry  
1943 Smallmouth Bass 25,000 fry

1943 Lake Trout 25,000 fingerling  
1942 Lake Trout 25,000 fingerling  
1942 Smallmouth Bass 5,000 fingerling

**Stress Type:**

**Use Type:** Snowmobile Trail, Recreation, Recreational Fishing, Tourism Based Industry

**Summary of Fisheries Studies / Reports:**

McIntyre, E. 2001. Lorimer Lake (Hagerman and Ferguson Geographic Townships) **Winter 2001 Creel Survey**.

- Estimated Effort: 1,620 angler hours or 3.53 anglers hours / hectare
- Poor fishing quality for northern pike and lake trout: Overall, 47.0 hrs to catch a pike; 36.2 hrs. to catch a lake trout (all anglers combined)
- Estimated: 50 lake trout caught and 46 harvested; 31 pike caught and all harvested
- All observed lake trout were planted fish
- Return to angler of stocked fish in the order of less than 10%

McIntyre, E. 2000. **Spring littoral index netting (SLIN) survey** report for Lorimer Lake (Ferguson and Hagerman Townships) Spring, 2000.

- Total catch of 24 lake trout, 9 northern pike, 12 yellow perch
- Lake trout CUE was  $0.8 \pm 0.18$  (S.E.) fish per net set. This is well below the Provincial average of 1.43 lake trout per net set (1999 data; N=84). This is indicative of low lake trout abundance relative to Prov. average, but 'above average' compared other Parry Sound Area lake trout lakes.
- Probability of lake trout capture was 47%.
- All lake trout captured were from plantings made between 1988 and 1998. Mean calculated age was 8.2 years. All plantings were represented in the catch indicating that whole-lake anoxic conditions and periodic die-off has not occurred as previously suspected.
- Recommend that lake trout fishery continued to be managed on put-grow-take basis.

Thurston, L.D.W. 1991. Summary of the **1990 Trap Netting Survey** on Lorimer Lake (Ferguson/Hagerman Townships).

- Netting period: July 18 – Sept 12, 1990
- Gear: 3 – 8' trap nets, 1 – 6' trap net and 1 – 4' trap net
- Smallmouth bass abundant – 7.6 captured per 8' trap net night
- Largemouth bass – low abundance (1.4 per 4' trap net night)
- Rock bass abundant – 6.7 per 8' trap net night
- Northern pike – moderately abundant (1.6 per 8' trap net night)
- Fish community appears healthy and well balanced

Deary Environmental Consultants, 1989. Summary Report for **Lake Trout (Salvelinus namaycush) Assessment** of Thirteen Lakes in the Parry Sound District.

- Five standard Lake Survey Gill Net sets
- 10 lake trout caught: all clipped fish; age range: 2 – 16 years

OMNR, 1986. ‘Orphan’, summarized data from unknown study (possibly DFO).

- 83 trap nets sets (size unknown) presumed during the summer of 1986
- catch: northern pike – 105, largemouth bass – 79, Smallmouth bass – 47, pumpkinseed – 652, rainbow smelt – 602, yellow perch – 294, brown bullhead – 142, common white sucker – 34,
- size at age determined for northern pike and largemouth bass
- stomach analysis data available

OMNR, 1979. Raw Data re **trap netting and transfer of northern pike** from Lorimer Lake to Shawanaga Lake.

- June 7 – 15, 1979
- 18 – 4’ trap net sets: 54 pike transferred
- 12 – 6’ trap net sets: 53 pike transferred

OMNR, 1978. Summary of the **1978 Winter Creel Census** on Lake Trout Lakes by Ministry of Natural Resources Personnel.

- Non-intensive, extensive creel conducted by Conservation Officers
- Lorimer Lake checked 7 times, 20 anglers representing 39 man hours were surveyed
- 2 lake trout observed – both planted

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

- Lake Trout Gill Net Assessment project conducted June 8 & 9<sup>th</sup> and September 1 & 2<sup>nd</sup>, 1976.
- Five standard lake survey gill net sets made.
- 24 lake trout caught; 7 naturals, 13 clipped and 4 undetermined
- Thurston rated this as a “Category 1” lake trout lake – continue lake trout plantings

Thurston, L.D.W. 1975. **Summer and Winter Creel Census** on Selected Lake Trout Lakes in the Parry Sound District 1974-75.

- 13 creel checks made on Lorimer Lake during the summer of 1974
- 6 northern pike caught from 41.5 angler hours of effort
- 3 largemouth bass caught from 53.75 angler hours of effort
- 7 smallmouth bass caught from 31.25 angler hours of effort
- no lake trout caught

OMNR. Raw Data – Extensive **raw creel data** on file, 1962 – 1979.

- Data too extensive to summarize, however: bio-sampling data present for 29 lake trout – all planted fish

OMNR, 1973. **Raw winter creel data** on lake file.

- 6 creel checks made on Lorimer Lake during the winter of 1973.
- 15 anglers representing 65 angler hours of effort surveyed and the target species were pike and lake trout; 2 pike sampled

### **Management Prescription:**

- Manage as a self-sustaining smallmouth bass, northern pike, largemouth bass and yellow perch fishery.
- And manage as an artificial, put-grow-take, lake trout fishery to provide additional angling opportunities.