



PARRY SOUND AREA LAKE SUMMARIES



Brought to you compliments of:

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McKellar Lake

Created: October 03

Revised: Jan. 04, Dec. 03.

Location:

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

Basin and Terrain Characteristics:

Lake Survey Year: 1975
Surface Area:..... 85.6 hectares
Maximum Depth: 9.8 meters
Mean Depth: 4.5 meters
Perimeter: 7.6 km
Island shoreline: 2.9 km
Littoral Zone: 70%
Thermal Regime: Cool
Shoreline Development: 46 Cottages
Access Points: Road (Public)
Water Level: Not Regulated
Crown Land: 10% 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: 3.5 (1975)4.6 (1998)
Colour: Yellow/Brown
Alkalinity: 13.7 – Level 3 Moderately Sensitive (MoE, 1989)
pH: 7
Total Phosphorus: 0.015 mg/l

“Guide to Eating Fish”: Restrictions for Walleye and Northern Pike refer to the current “Guide to Eating Ontario Sport Fish”

Fisheries:

Game Fish Species: Northern Pike, Smallmouth Bass, Yellow Perch, Walleye, Largemouth Bass,

Other species present: White Sucker, Bluntnose Minnow, Rock Bass, Iowa Darter, Cisco (FWIN, 2001 report)

Stocking Record: 2000 Rainbow Trout 2,000 2.5 to 6 inch
 1961 Smallmouth Bass 1,000 fingerling
 1959 Smallmouth Bass 500 fingerling
 1957 Smallmouth Bass 300 fingerling
 1955 Walleye 150,000 eyed eggs
 1953 Walleye 100,000 eyed eggs
 1953 Smallmouth Bass 250 fingerling
 1952 Walleye 100,000 eyed eggs
 1951 Smallmouth Bass 250 fingerling
 1950 Smallmouth Bass 5,000 fry
 1950 Walleye 100,000 fry
 1948 Smallmouth Bass 5,000 fry
 1948 Walleye 200,000 fry
 1946 Smallmouth Bass 75,000 fry
 1944 Smallmouth Bass 10,000 fry
 1943 Smallmouth Bass 2,000 fingerling
 1943 Smallmouth Bass 5,000 fry
 1943 Walleye 250,000 fry
 1942 Smallmouth Bass 10,000 fry
 1941 Walleye 250,000 fry
 1939 Walleye 600,000 eyed eggs

Use Type: Snowmobile Trail, Recreation, Recreational Fishing

Summary of Fisheries Studies / Reports:

McIntyre, E. 2003. 2003 Annual CFIP Report for the Manitou-Seguin Game and Fish Club – Index walleye spawners and egg culture program for McKellar Lake. 5 p.

Twenty walleye caught in 4 nights of fishing effort. Approximately 140,000 walleye eggs collected and subsequently stocked into McKellar Lake as emergent fry. Catch and biosampling data are presented in the report.

McIntyre, E. 2003. McKellar Lake – May 2003, Synoptic Trapnet Survey Report. 23 p.

A *Synoptic Trapnet Survey* (STNS) was conducted on McKellar Lake (Geographic Township of McKellar) in May, 2003. The primary purpose of the survey was to assess the status of the near-shore fish community and particularly that of walleye, smallmouth bass and northern pike. This survey also duplicates the objectives of a *Fall Walleye Index Netting* (FWIN) survey conducted on McKellar Lake in 2001 as part initiative to monitor the status of walleye populations throughout the Ministry of Natural Resources' Southern Region. Our survey affords the opportunity of comparing the two survey techniques and is discussed within the report.

We compared our results with 23 other STNS surveys recently (since 1994) conducted in the Parry Sound Area. Overall fish productivity as measured by *Catch-Per-Unit-Effort by weight* (CPUE-wt) for all species was below average but within the "medium productivity" range. The percentage of game fish in the total catch weight was also below average but within the "medium" range.

Relative abundance indices for walleye were well below average but nonetheless within the range of medium walleye abundance in our STNS comparative dataset. Walleye age and size structure indicate successful recruitment and reproduction in recent years. Northern pike abundance was in the medium range, except CPUE-wt which was high relative to our comparative dataset. Indices for small and largemouth bass indicated low abundance. We present a theoretical report card for McKellar Lake in which we accord an overall rating of C-.

Comparisons between the results of this survey and the 2001 FWIN survey are made in which we acknowledge some distressing inconsistencies. Most notable are the findings of high relative abundance for smallmouth bass in the FWIN survey but low abundance in our survey.

No rainbow trout planted in 2000 were captured in this survey.

McIntyre, E. 2001 Annual Community Fisheries Involvement Program (CFIP), Manitou-Seguín Game and Fish Club (Walleye Culture Project)

- Walleye spawn was collected at the Broadbent Rapids on the Manitouwabing River as part of a CFIP project to rehabilitate the walleye population of Manitouwabing Lake. In addition to this objective, approximately 145,000 emergent walleye fry were also released into McKellar Lake as an additional rehabilitation planting.
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McIntyre, E. 2001 Parry Sound Fall 2001 Walleye Index Netting (FIN) Interim Report

- Average abundance indicated for walleye as compared to surveyed district lakes
 - Average abundance indicated for northern pike as compared to surveyed district lakes
 - High abundance indicated for smallmouth bass as compared to surveyed district lakes
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MNR Raw Creel Survey Data on file:

- 1978 - 2.75 hours effort yielded 0 fish; Walleye sought
- 1973 - 0.5 hours effort yielded 0 fish; Northern Pike sought
- 1972 - one check no fisherman
- 1962 - 43 hours effort yielded 39 walleye

Management Prescription:

Manage as a natural, self-sustaining walleye, bass and pike fishery.