



PARRY SOUND AREA LAKE SUMMARIES

Brought to you compliments of:

Gord Pollock, Broker

Century 21 Granite Properties Ltd Brokerage
33 James Street, Parry Sound, Ontario P2A 1T6

Business: 705-746-2158 , Fax: 705-746-4746

Residence: 705-746-4816 , Cell: 705-774-0955

Website: www.gordpollock.com Email: gord@gordpollock.com

Manitouwabing Lake

Created: October 03

Revised: Jan. 04 (EM)

Location:

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

Basin and Terrain Characteristics:

Lake Survey Year: 1974
Surface Area:..... 1,250.6 hectares
Maximum Depth: 33.6 meters
Mean Depth: 5.6 meters
Perimeter: 94.3 km
Island shoreline: 20.1 km
Littoral Zone: 70%
Thermal Regime: Cool
Shoreline Development: 402 Cottages, 6 Resorts
Access Points: Road (Public)
Water Level: Regulated by Hurdville Dam (owned and operated by Parry Sound Power Generation)
Crown Land: 5% 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: 3.1 meters (1998)
Colour: Yellow/Brown
Alkalinity: 20.5 – Level 3 Moderately Sensitive (MoE, 1989)
pH: 7.5
Total Phosphorus: 0.009 mg/l (MoE, 1998)
M.E.I.: 4.8

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

Fisheries:

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

Other species present: Lake Whitefish, Cisco, White Sucker, Carp, Bluntnose Minnow, Blacknose Dace, Creek Chub, Brown Bullhead, Rock Bass, Pumpkinseed

Exotic Species: Spiny Water Flea (2000)

Stocking Record:

2003	312,000 walleye fry
2001	250,000 walleye fry
2000	245,000 walleye fry
1997	Walleye 15,000 fall fingerling
1966	Smallmouth Bass 5,000 fingerling
1958	Smallmouth Bass 500 fingerling
1956	Walleye 150,000 eggs
1956	Smallmouth Bass 500 fingerling
1954	Walleye 200,000 eggs
1954	Smallmouth Bass 200 fingerling
1953	Walleye 300,000 eggs
1953	Smallmouth Bass 500 fingerling
1952	Walleye 200,000 eggs
1951	Walleye 300,000 eggs
1951	Smallmouth Bass 500 fingerling
1950	Walleye 200,000 eggs
1950	Smallmouth Bass 5,000 fry

Between 1939 and 1949, 3.2 million walleye fry and eggs were planted. Also, 65,000 smallmouth bass fry and 1,400 fingerlings were planted.

In 1938, 150 adult walleye from the Shawanaga River (probably Georgian Bay) were transferred. In 1941, 45 adult smallmouth bass (origin unknown) were transferred.

It is uncertain if the early plantings of walleye and smallmouth bass were introductory plantings or of a supplemental nature.

Summary of Fisheries Studies / Reports:

McIntyre, E. 2001 **2001 Annual CFIP Report Manitou-Seguin Game and Fish Club Manitouwabing and McKellar Lake Walleye Culture Project**

- 91 walleye were captured in 5 nets nights
- 393,900 fry were returned to 5 sites on the two lakes.

McIntyre, E. 2000 **2000 Annual CFIP Report Manitou-Seguin Game and Fish Club Rehabilitation of Lake Manitouwabing Walleye Population Walleye Culture and Stocking Project**

- Approximately 245,000 walleye fry were planted at 6 sites on Manitouwabing Lake.

McIntyre, E. 1997. **Progress report on the walleye (spawning adults) index netting program for Manitouwabing Lake, Spring 1996.**

- MNR conducts spring-time, experimental trap netting to establish spawning index site at Broadbent Rapids and Village of McKellar:
- CUE (Broadbent): 7.8 walleye per net night \pm 7.4 ($P>0.05$)
- CUE (McKellar): 1.6 walleye per net night \pm 1.3
- Sampled spawners were very small: 91% of sample ($n=66$) were less than 1.2 kg. in size
- Mean age of females: 8.2 ($n=5$); Mean age of males: 5.5 ($n=34$)
- Interpretation: high mortality; successful natural reproduction evident

SOBER, L.L. 1989. **A trap net assessment of the Manitouwabing Lake Fishery July 11 - Aug. 3, 1988.**

- 74 trap net sets using 4, 6 and 8' trap nets/near shore synoptic fish survey

- captured 3,758 kg. of fish comprised of 79% brown bullhead; 7% walleye; 5% smallmouth bass; 4% n pike; 2% white sucker; 3% other by weight.
- Compared with fish community in 1982 synoptic survey, there has been a drastic alteration to a coarse fish dominated community. This is almost solely attributable to a phenomenal increase in the brown bullhead population. Weight (and number) of fish caught in 1988 were dramatically higher than 1982: 50.8 kg per net set in 1988 vs. 7.6 in 1982. Again, this increase primarily attributable to the burgeoning brown bullhead population.
- catch by number: 185 walleye; 200 smallmouth bass; 28 largemouth bass; 132 n. pike; 6,215 brown bullhead (total catch 7399)
- relative abundance as measured by catch per unit effort for 8' trap net sets: 3.7 walleye per night; 3.5 smallmouth bass per night and 2.0 for northern pike
- (slightly better than that observed in 1982 survey; implication - these populations are essentially unchanged).
- walleye mean age: 4.3 yrs (good age class spread; perhaps a little weak in older age classes; unchanged from 1982)
- recommendations: a) reduce brown bullhead population; b) 30 - 40 cm prohibited slot size for walleye
- synopsis: near-shore fish community highly skewed towards coarse fish; productivity high but predominantly coarse fish; low to moderate abundance of game fish - unchanged from 1982; continuing walleye recruitment

MacMillan, M.A. 1985. **The 1984 winter creel census on Lake Manitouwabing.**

- Survey dates: Jan. 7 - Mar 31/84
- Methodology: random, roving, stratified creel
- Estimated Effort: 3,938 angler hrs.
- Effort per Unit Harvest (EUH): cisco 2.8 hr; n pike 8.2 hr; walleye 27.6 hr.
- harvest: walleye 60 (47 kg); n pike 189 (189 kg. - no, its not a mistake); 184 (170 kg) cisco; 109 (22 kg) yellow perch (total harvest weight - 285.7 kg)
- mean age: walleye 5.4 yrs; n pike 1.8 yrs;

MNR 1988 Note to File:

- Spawning bed rehabilitation work completed below the Hurdville Dam (Limestone rock placement & sand removal)
- Spawning bed rubble cleaned at Sqaw Rapids on Middle River.(Hand & Fire Pumps)

MNR 1985 Note to File:

- Walleye spawning bed enhancement project at Broadbent Rapids.

MacMillan, M.A. 1985. **Results of an intensive creel census conducted on Lake Manitouwabing, during the summer of 1983.**

- Survey dates: May 22 - Oct 13, 1983
- Methodology: random, roving, stratified creel

- Estimated effort: 35,322 angler hrs. (28.2 hrs/ha.) (intensive angling effort)
- Estimated harvest: 1644 (1286 kg) northern pike; 1223 (779 kg) walleye; 263 (138 kg) smallmouth bass; 362 (54 kg) yellow perch total harvest weight: 2257 kg
- Fishing quality (species anglers; effort per unit catch): walleye 19.9 hrs; northern pike 5.3 hrs; smallmouth bass 6.1; yellow perch 2.1 hrs.
- mean age of catch: walleye 4.3 yrs; n pike 2.5 yrs; smallmouth bass 5.1 yrs. (for walleye and pike - indicative of over-exploitation.)

McIntyre, E.J. 1983. 1982 Status report on the Lake Manitouwabing fishery.

- synoptic trap and gill net survey; June 11 - Aug. 6/82
- relative abundance (catch per unit effort in 8' trap nets): walleye 3.0 fish per 8' trap net night (relatively low); smallmouth bass 2.3 (low); northern pike 1.2.
- catch (41 trap net sets) - 310 kg; comprised of 19% walleye; 16% rock bass; 14% northern pike; 14% white sucker; 8% smallmouth bass; 6% brown bullhead; 4% pumpkinseed; 3% y perch; remainder other. (well-balanced fish community; but catches very light)
- catch (12 gill net sets) - 210 kg; comprised of 50% cisco; 20% whitefish; 13% walleye; 8% white sucker; remainder other
- mean ages: walleye 4.2 years; northern pike 2.6; smallmouth bass 4.8; (low mean ages suggesting heavy exploitation; good recruitment for all populations though)
- synopsis: fish community looks well balanced; although productivity appears low and there are indications of over-exploitation of game fish

MNR Notes to File:

- Volunteer creel data on file for 1973 - '79 (pooled) resulted in a walleye "Effort per Unit Catch" (EUC) of 24 angler hours per walleye catch (10 walleye caught in 240 hrs)
- Note: this quite similar to walleye EUC of 20 hrs observed in the 1985 creel survey.
Inference: fishing quality hasn't changed much.

Management Prescription:

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

Exception Regulations: Walleye limit is reduced to 2 none of which non can be over 35.5 cm or 14 inches in length.