



PARRY SOUND AREA LAKE SUMMARIES



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Cecebe Lake

Created: Oct. 2001

Revised: June 2003

Location:

MNR District:..... Parry Sound
Geographic Township: Chapman & Ryerson
Municipal Township: Magnetawan & Ryerson
Watershed: Magnetawan River
Angling Division: 15

Basin and Terrain Characteristics:

Lake Survey Year: 1971
Surface Area:..... 770.3 hectares
Maximum Depth: 19.5 meters
Mean Depth: 4.9 meters
Perimeter: 32.1 km
Island shoreline: 3.6 km
Littoral Zone: 77%
Thermal Regime: Cold
Shoreline Development: 211 Cottages, 5 Resorts(1983)
Access Points: Road – 4 locations
Water Level: Regulated
Crown Land: 1% 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: 2.6 meters
Colour: Yellow Brown

Dissolved Oxygen:**Alkalinity:** 20.5 mg/l – Level 3 Moderately Sensitive (MOE, 1989)**pH:** 6.7**Total Phosphorus:** Average 0.011 mg/l (1998)**M.E.I.:** 6.0 (1985)

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

Fisheries:

Game Fish Species: Sauger (1983), Walleye (1983), Northern Pike (1983), Smallmouth Bass (1983), Kamloops Trout (1962), Yellow Perch (1983), Rainbow Trout (1964), Rock Bass, Burbot(1983), Lake Whitefish (1949)

Other species present: White Sucker (1983), Brown Bullhead (1983), Cisco (1983), Pumpkinseed (1983), Bluntnose Minnow, Logperch, (Leucichthys?1949)

Exotic Species:

Stocking Record: 1964 Rainbow Trout 2,000 yearling
1962 Rainbow (Kamloops) Trout 1,000 yearling
1962 Rainbow (Kamloops) Trout 1,000 yearling
1961 Rainbow (Kamloops) Trout 1,000 yearling
1961 Rainbow (Kamloops) Trout 1,000 yearling
1959 Rainbow (Kamloops) Trout 1,000 yearling
1922 to 1958 Smallmouth Bass: 100,500 fry/5,700 fingerling/25 adults
1922 to 1956 Walleye: 550,000 eyed eggs/5,655,000 fry/3,000 yearling
1950 to 1964 Rainbow Trout: 28,100 yearling

Stress Type:

Use Type: Recreation, Recreational Fishing, Tourism Based Industry

Summary of Fisheries Studies / Reports:

Note to file: Cecebe Lake. Re: **Winter 2001 walleye harvest observations** – Mr. Tony Dimaria.

- Mr. Dimaria monitored the winter sport fishery of Cecebe Lake on a regular basis during the winter of 2001.
- He monitored the fishery 68 days out of a possible 102 day period.
- Observed 460 walleye harvested during the sample period (Dec. 20 – Mar. 30th).
- Many walleye observed were between 10-12 in. in total length. This may indicate that there was a very strong 1999-year class entering the Cecebe Lake walleye fishery.

McIntyre, E. 2001 Cecebe Lake (Chapman Township) **Synoptic Trap Net Survey**, Summer 2000.

- Catch-Per-Unit Effort (CUE) for all species by weight was 30.7 kg per net set, which represents high fish productivity.
- Walleye CUE by number was 11.9 fish per net night (+/- 1.9; standard error) (very high)
- Smallmouth bass CUE was 5.2 (+/- 1.7; standard error) (average)
- Northern Pike CUE by number was 2.5 (+/- 2.7; standard error)
- Size and age distribution of walleye sampled indicates a healthy population with high levels of reproduction and recruitment.
- Notwithstanding the fact that the fish community and in particular the walleye population looks very health, the potential is present for over-harvest of walleye

McIntyre, E. 2000 Cecebe Lake (Ryerson and Chapman Geographic Townships) Year 2000 **Winter Angler Survey**.

- Voluntary reel survey conducted by Mr. Tony Dimaria
- Over 1600 angler hours of effort were surveyed with over 50% of the effort occurring during the month of January.
- Observed harvest: 79 lake whitefish, 23 northern pike, 60 walleye, 20 sauger, 48 yellow perch and 8 cisco
- Fishing quality was poor, with almost 27 hours of fishing effort required to harvest one walleye.

Leeder, J. 1990 **Analysis of the 1989 Trap Net Survey** on Cecebe Lake.

- Trap net survey to determine status of the fish community, CUE values for all fish species caught and age class composition for walleye and small mouth bass. Results were compared to a similar study conducted in 1983 (Thurston, 1986).
- Walleye C.U.E. 5.1 per net night (about 'average' abundance)
- Smallmouth bass C.U.E – 11.2 per net night (high abundance)
- Age class composition showed a normal distribution for both walleye and small mouth bass
- Large increase in brown bullhead over 1983 survey; also rock bass more abundant

Thurston, L. Jan. 1986 **Results of the 1983 open water creel census** on Cecebe Lake

- A stratified random roving creel census was conducted.
- A total of 56 weekdays, 43 weekend days and holidays were monitored.
- Estimated fishing effort: 24,327 rod hours – 31.6 rod hours per hectare (very intense fishing pressure). Most anglers fishing for walleye
- Estimated harvest: walleye - 1,861 (726 kg.), northern pike – 572 (429 kg.), smallmouth bass – 423 (182 kg), yellow perch – 1,327 (212 kg.), pumpkinseed – 132 and 11 sauger.
- An average of 6.6 rod hours were needed to catch one walleye, 8.9 rod hours to harvest one.
- Based on age class composition of both the anglers harvest and the trap and gillnet catches of 1983, it was concluded that the walleye population may be over-exploited.
- Cecebe Lake is the only known lake in the Parry Sound District that contains sauger.

Paus, R.M. 1984 **1983 Inland lake fishery assessment program: Trap and gill netting results** from Cecebe Lake, July 5-27, 1983.

- Trap netting and gill netting was performed to collect data, which would provide some indication of the state of the sport fishery. Fish community composition, age class structure of game fish and relative abundance indices were examined.
- Walleye C.U.E. – 2.3 fish per 8' trap net night (below average abundance)
- Smallmouth bass C.U.E. – 2.4 fish per 8' trap net night (below average abundance)
- No significant difference was found between the size of walleye captured during the 1971 lake survey and the 1983 program. However, there was a significant difference in the size of SMB. The mean length of SMB captured in 1983 was larger than in 1971.

Ahmic – Cecebe – Magnetawan **Creel Census 1971-72.**

- The creel census data was collected by two SWEEP students.
- Walleye anglers - 741.5 angler hours sampled; 46 walleye observed; CUE 0.06
- Bass anglers – 112.5 angler hours sampled; 26 bass observed; CUE 0.23

Management Prescription:

