Broad-scale Monitoring Bulletin
M^{C}KELLAR LAKE – ZONE 15

M^{c}Kellar Lake Facts

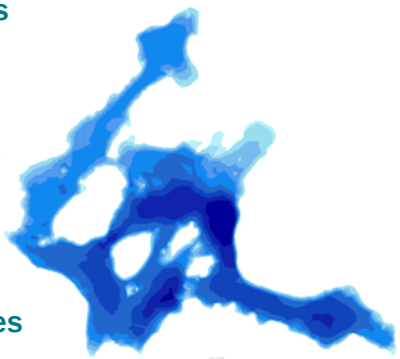
District of Parry Sound

Surface Area: 88 ha

Maximum Depth: 10 m

Average Depth: 5 m

Water Clarity: 3.3 m





Monitoring Activities

- ✓ Fish netting
- ✓ Fish contaminants
- ✓ Zooplankton
- ✓ Water chemistry
- ✓ Bathymetry
- ✓ Water temperature/dissolved oxygen
- ✓ Invasive Species

Netting Summary

Netting dates: June 27 – 29, 2011

Netting days: 3

Number of net sets: 14

Number of fish species caught: 8

Fish Netting Results

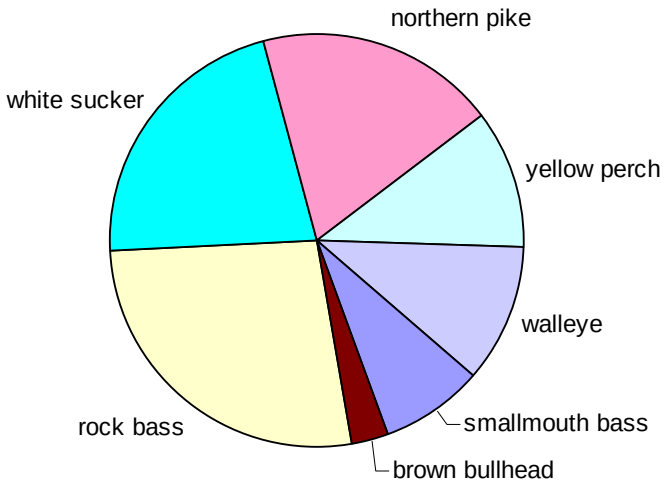
Fish populations were surveyed using large and small mesh nets to provide information on fish species present and their characteristics, such as growth, age and abundance. The catch data below show that 7 species were surveyed in large mesh nets. Additional fish species observed in small mesh nets was bluntnose minnow.

Fish species	Total Catch %	Maximum Length cm	Minimum Length cm	Average Length cm
rock bass	27	20.7	13.1	16.5
white sucker	21	52.6	39.8	48.9
northern pike	19	75.1	42.7	57.2
yellow perch	11	18.5	15.7	17.1
walleye	11	58.2	29.4	47.5
smallmouth bass	8	36.0	18.2	24.2
brown bullhead	3	37.5	37.5	37.5

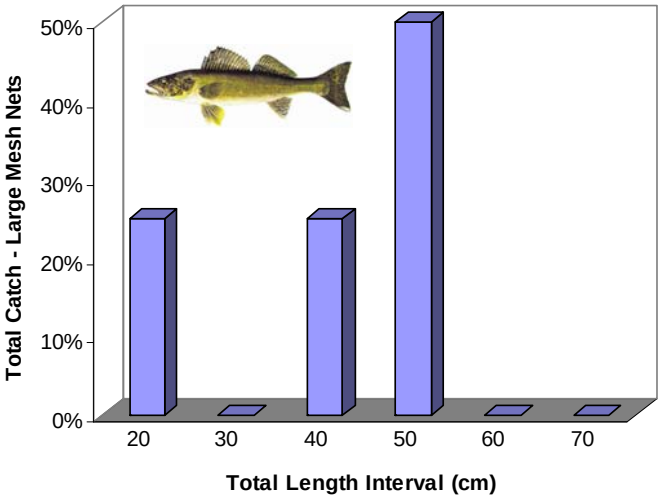
About the Program

The Broad-scale Monitoring Program provides information for managing our fisheries effectively. This bulletin provides **a snapshot of the recent monitoring activities and netting results.** Netting is conducted using large and small mesh nets. Large mesh nets contribute information about fish species and small mesh nets describe the fish community. To learn more about the sampling program read *Broad-scale Monitoring Program: Monitoring the Health of Ontario Inland Lakes* or visit ontario.ca/fishing.

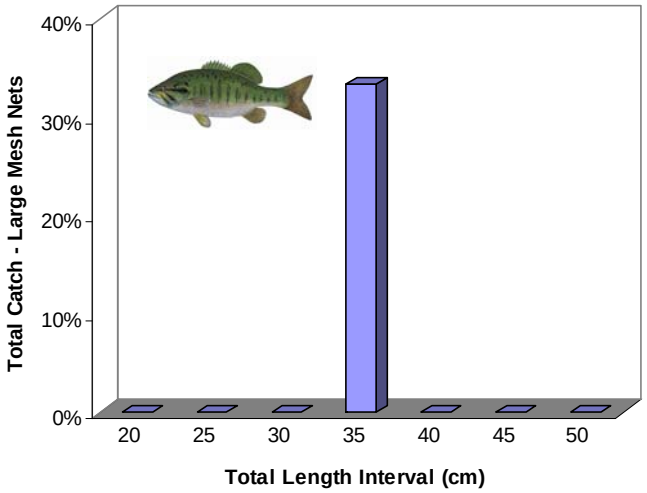
Proportion of Fish Caught in Large Mesh Nets



Length Distribution of Walleye



Length Distribution of Smallmouth Bass



20 cm = 20 to 25 cm, 25 cm = 25 to 30 cm, etc.

The size of walleye ranged from 29 to 58 cm (from a total of 4 fish) and the size of smallmouth bass ranged from 18 to 36 cm (from a total of 3 fish) in large mesh nets.

Water Chemistry and Temperature

Water samples were collected in May 2011 and sent to the Ministry of Environment for analysis. Water temperature, oxygen levels and water transparency were measured in June 2011. Lake is considered a cool-water lake that can support cool and warm-water fish species such as walleye, northern pike and smallmouth bass.

Invasive Species

Invasive species were monitored using plankton nets and observations made by field crews. Spiny waterflea was detected during monitoring. Samples are currently being processed to determine if any more invasive species were detected through this sampling program. Any species new to Ontario or an invasive species that is a new record for a waterbody is reported to the Invading Species Hotline www.invadingspecies.com.

Fish Contaminants

Levels of contaminants in fish flesh (e.g. mercury, PCB's, mirex, organochlorine pesticides and other organic chemicals) will be reported in the *Guide to Eating Sport Fishing in Ontario* or visit ontario.ca/fishguide.

For more information please contact Ministry of Natural Resources at 1-800-667-1940, send an email to mnr.nric.mnr@ontario.ca or visit ontario.ca/fishing.