

# Broad-scale Monitoring Bulletin

## BUCKSHOT LAKE - FMZ 18 - 2013-2017

### Buckshot Lake Facts

Geographic Location: Miller

Surface Area: 442 ha

Maximum Depth: 33.52 m

Average Depth: 9.08 m

Water Clarity: 4.1 m



### Monitoring Activities

- ☒ Fish netting
- ☒ Fish contaminants
- ☒ Zooplankton
- ☐ Water chemistry
- ☐ Bathymetry
- ☒ Water temperature/dissolved oxygen
- ☒ Aquatic invasive species



### Netting Summary

Netting period: Sep 9 2013 to Sep 13 2013

Number of net sets: 24

Number of fish species caught: 13

### 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 10 species were surveyed in large mesh nets. Additional fish species observed in small mesh nets were Blacknose Shiner, Bluntnose Minnow and UNIDENTIFIABLE.

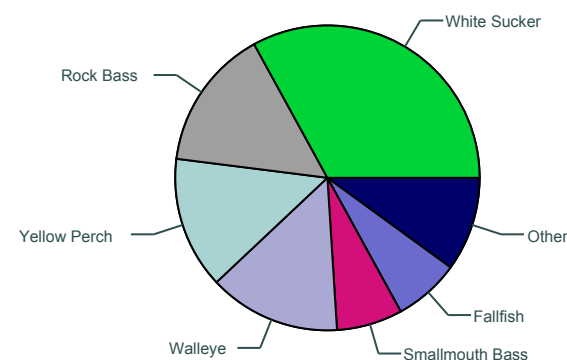
Fish species	Total Catch %	Maximum Length cm	Minimum Length cm	Average Length cm
White Sucker	33	51.7	34.9	43.9
Rock Bass	15	23.4	10.6	16.5
Yellow Perch	14	18.6	15.5	17.0
Walleye	14	60.0	24.4	44.4
Smallmouth Bass	7	44.9	15.2	26.1
Fallfish	7	46.0	23.5	34.1
Largemouth Bass	5	37.4	15.1	22.9
Pumpkinseed	3	19.8	10.9	13.4
Lake Trout	2	69.4	38.0	53.3
Burbot	< 1	51.4	51.4	51.4

### About the Program

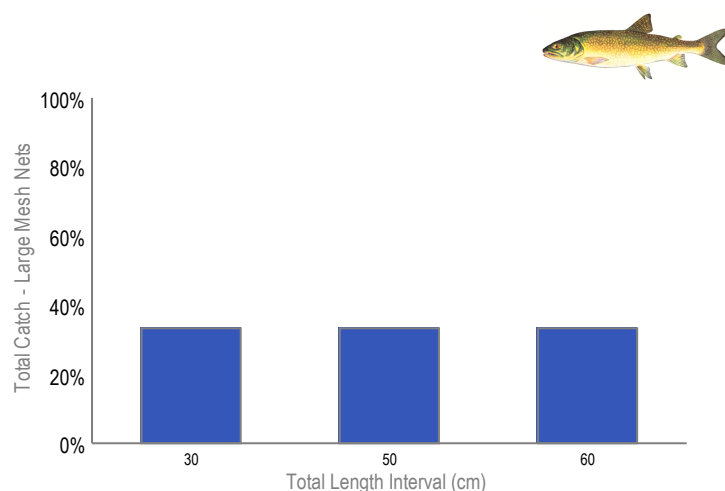
The Broad-scale Monitoring Program provides information for managing our fisheries effectively. This bulletin provides a snapshot of the recent monitoring activities and netting results. Netting is conducted using large and small mesh nets to understand the characteristics of fish communities in a lake. Large mesh nets contribute information about fish species and small mesh nets describe the fish community. To learn more about the sampling program visit

[Fish Ontario: Monitoring and State of the Resource Reporting.](#)

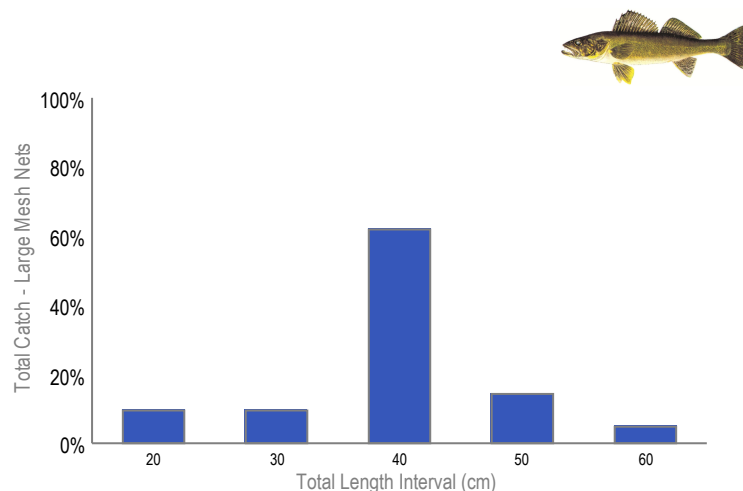
### Proportion of Fish Caught in Large Mesh Nets



## Length Distribution of Lake Trout



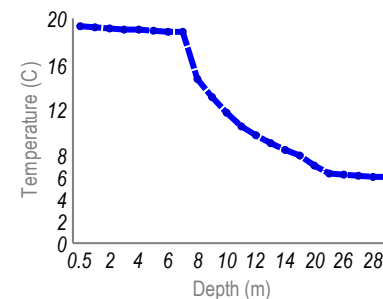
## Length Distribution of Walleye



Catch results are presented in 10 cm length bins, labelled with the lower limit (i.e., the '20 cm' bin represents fish between 20 cm and 29 cm). The size of Lake Trout ranged from 38 to 69.4 cm and the size of Walleye ranged from 24.4 to 60 cm in large mesh nets.

## Water Chemistry and Temperature

Water temperature, oxygen levels and water transparency were measured in September 2013. The graph shows the temperature of Buckshot Lake with increasing depth. The temperature at the surface was 19.3 °C and declined to 5.9 °C at the bottom of the lake.



## Aquatic Invasive Species

Aquatic invasive species were monitored by field crews. Samples are currently being processed to determine if any more new 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](http://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 Ontario Sport Fish](#).

For more information please contact Ministry of Natural Resources and Forestry at 1-800-667-1940, send an email to [mnr.nric.mnr@ontario.ca](mailto:mnr.nric.mnr@ontario.ca) or visit [ontario.ca/fishing](http://ontario.ca/fishing).

[ontario.ca/fishing](http://ontario.ca/fishing)