



Lake Information

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|-----------------------|----------------------|
| WATERSHED | LAKE CLASS |
| Yukon Headwaters | C |
| SURFACE AREA | ELEVATION |
| 1602 ha | 957 m |
| MAXIMUM DEPTH | AVERAGE DEPTH |
| 47 m | 28.6 m |
| SURFACE TEMP | REGULATIONS |
| 14.54°C | Special Management |
| SAMPLING DATES | NET SETS |
| July 3-5, 10 | 81 |

Location

Fox Lake is located approximately 60 km north of Whitehorse and is found within the Ta'an Kwäch'än Council and Kwanlin Dün First Nation Traditional Territories.

Access and Use

Access to Fox Lake is along the North Klondike Highway. There is a popular campground on the eastern shore, with an accessible boat launch. There is a second boat launch near the southern end, along with several residences along the eastern shoreline.

Fox Lake 2013

Overall Status

Lake Trout

Fox Lake has a population of lake trout that are large-bodied. When compared to lakes of similar size, this population appears smaller. This may be due to the lake's popularity as a recreational angling destination.

Lake Whitefish

The lake whitefish population in Fox Lake was found to be healthy with a large relative density, as well as a large average size, when compared to other Yukon lakes. This healthy population may be an indication of a decreased lake trout (predator) population size.

Recommendation

The recommendation from the 2013 survey is to place this lake into Special Management regulations, wherein we will limit harvest pressure. This may assist with this population's natural recovery. An increase in net sets and collection of biological data for age analysis is recommended to increase confidence in our population estimates and provide more information on population structure.

Lake Trout

Overview

During the 2013 survey, a total of 73 lake trout were captured.

Population Estimate and Density

The lake trout population in Fox Lake was estimated at **5,397** (estimate range: 2,763 – 8,120). This equates to a density of 3.4 lake trout per hectare.

Length and Weight

Lake trout ranged in length from 232 mm to 730 mm. The average length and weight of sampled fish were 448 mm.

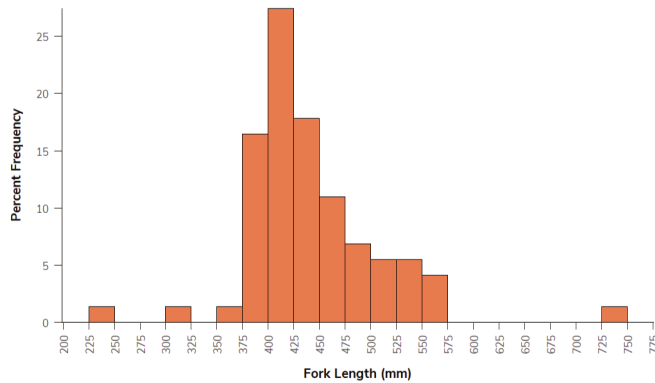


Figure 1. Length frequency distribution of sampled lake trout in Fox Lake (2013), n = 73.

Age and Growth

Age structures were obtained from 15 lake trout. Ages ranged from 7 to 24 years.

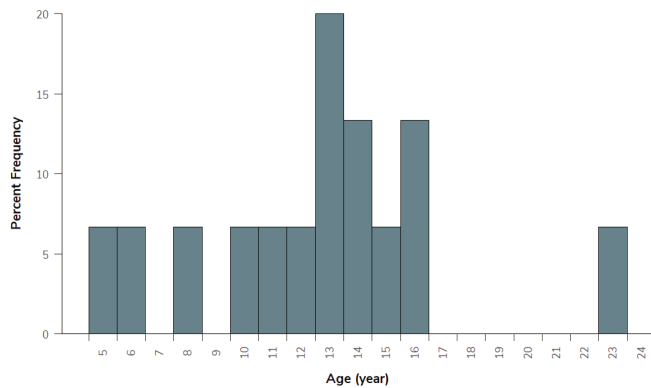


Figure 2. Age frequency distribution of age-analyzed lake trout in Fox Lake (2013), n = 15.

Lake Whitefish

Overview

A total of 261 lake whitefish were sampled during the survey, ranging in size from 173 mm to 565 mm in fork length. The mean length was 469 mm, and the mean weight was 1,328 g. Age structures were analyzed from 93 lake whitefish. Ages ranged from 4 to 34 years.

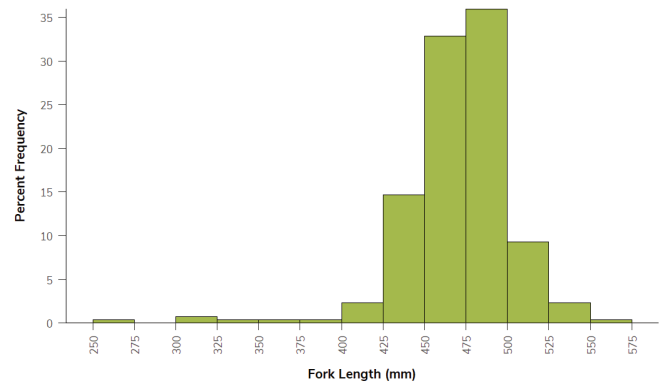


Figure 3. Length frequency distribution of sampled lake whitefish in Fox Lake (2013), n = 261.

Temperature and Dissolved Oxygen

Temperatures were suitable throughout the water column. Dissolved oxygen levels were best between 7 m and 42 m.

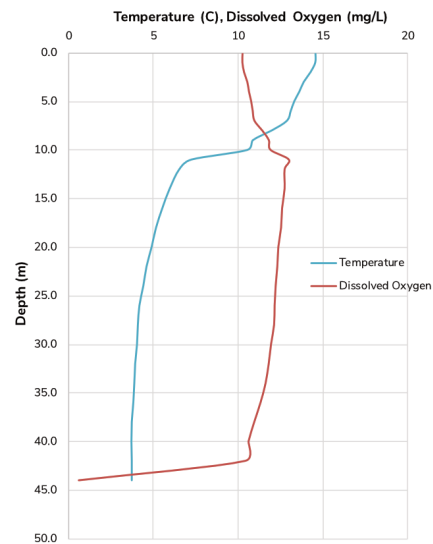


Figure 4. Temperature (C) and dissolved oxygen (mg/L) as measured in Fox Lake, July 3, 2013.

Suggested citation:

Government of Yukon. 2024. Lake Trout and Lake Whitefish Monitoring Program: Fox Lake 2013. Government of Yukon, Whitehorse, Yukon, Canada.