



Lake Information

WATERSHED	LAKE CLASS
Yukon Headwaters	E
SURFACE AREA	ELEVATION
5,441 ha	787 m
MAXIMUM DEPTH	AVERAGE DEPTH
170 m	56.8 m
SURFACE TEMP	REGULATIONS
11.4°C	Conservation Waters
SAMPLING DATES	NET SETS
July 16-20	102

Location

Quiet Lake is located approximately 60 km north of Johnsons Crossing in the south-central Yukon, along the South Canol Highway. Quiet Lake is within the Traditional Territory of the Teslin Tlingit First Nation and the Kaska Dena Nation (northern section of the lake).

Access and Use

Access to Quiet Lake is via the South Canol Road, which is only open to vehicles in the summer season and not maintained in the winter. There are two government campgrounds along the lake with two available boat launches.

Quiet Lake 2012

Overall Status

Lake Trout

The lake trout population in Quiet Lake appears healthy. The 2012 survey results indicate that this large-bodied lake trout population is stable. This lake receives minimal angler effort.

Lake Whitefish

The lake whitefish population in Quiet Lake was lower in number when compared to similarly sized Yukon lakes. This may be related to commercial fishing operations which occurred from 1961 - 1989, which included a yearly quota of 2,722 kg of lake whitefish.

Recommendation

The recommendation from the 2012 survey is to slightly increase the number of net sets and collection of aging structures, if this lake is sampled in the future. This will improve the accuracy of the population estimate.

Lake Trout

During the survey, a total of 162 lake trout were captured.

Population Estimate and Density

The lake trout population within Quiet Lake was estimated to be **17,865** (estimate range: 8,951 – 27,071). This equates to a density of 3.3 lake trout per hectare.

Length and Weight

Sampled lake trout ranged from 231 mm to 949 mm in fork length. They had an average length of 519 mm and an average weight of 1,852 g.

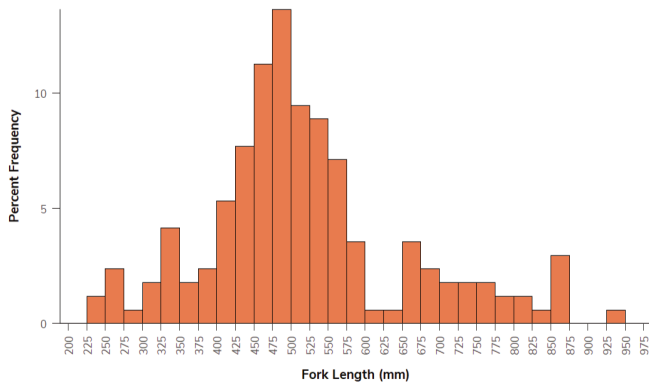


Figure 1. Length frequency distribution of sampled lake trout in Quiet Lake (2012), n = 162.

Age and Growth

Age structures were obtained from 37 lake trout during the 2012 survey. Ages ranged from 8 to 32 years.

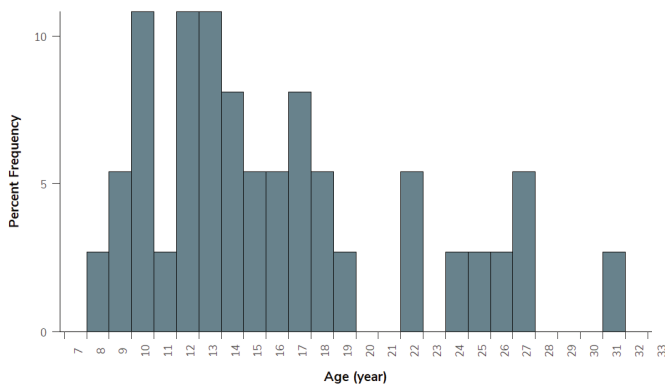


Figure 2. Age frequency distribution of age-analyzed lake trout as sampled in Quiet Lake (2012), n = 37.

Lake Whitefish

Overview

A total of 42 lake whitefish were captured during this survey, ranging from 352 mm to 544 mm in fork length, with an average length of 454 mm and an average weight of 1,270 g. Age structures were analyzed from 4 lake whitefish. Ages ranged from 7 to 31 years.

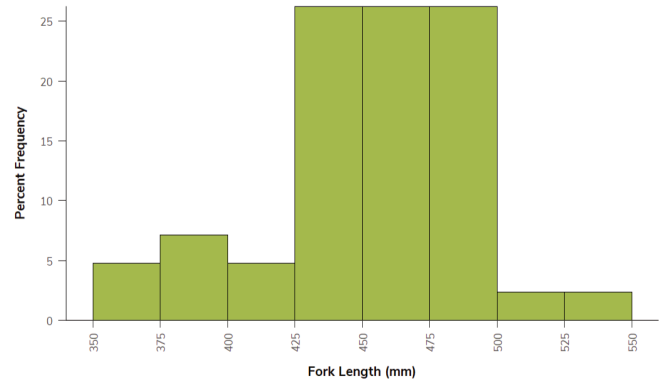


Figure 3. Length frequency distribution of lake whitefish in Quiet Lake (2012), n = 42.

Temperature and Dissolved Oxygen

Temperature and dissolved oxygen profiles were taken near the middle of Fish Lake on July 17, 2012. The lake was not stratified in temperature. Dissolved oxygen levels declined between 9 and 17 m.

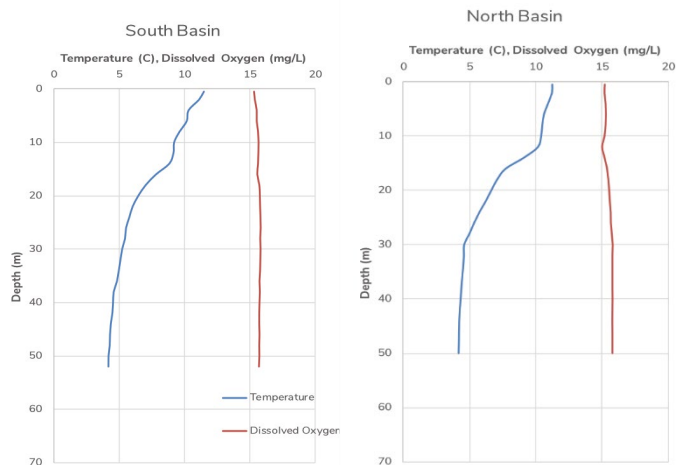


Figure 4. Temperature (C) and dissolved oxygen (mg/L) as measured in the South and North basins of Quiet Lake on July 17, 2018.

Suggested citation:

Government of Yukon. 2024. Lake Trout and Lake Whitefish Monitoring Program: Quiet Lake 2012. Government of Yukon, Whitehorse, Yukon, Canada.