



Lake Information

WATERSHED	LAKE CLASS
Stewart	B
SURFACE AREA	ELEVATION
253 ha	717 m
MAXIMUM DEPTH	AVERAGE DEPTH
48 m	n/a
SURFACE TEMP	REGULATIONS
16.89°C	Special Management
SAMPLING DATES	NET SETS
June 26-28	32

Location

Ladue Lake is located approximately 15 km north of Keno City. Ladue Lake is found within the Traditional Territory of the First Nation of Na-Cho Nyäk Dun.

Access and Use

Ladue Lake is accessed by a 4x4 trail, off the Mayo Elsa Road. There are no government campgrounds and no accessible boat launches at the lake.

Ladue Lake 2017

Overall Status

Lake Trout

Survey results from 2017 indicated the lake trout population in Ladue Lake appears to be low to moderate in abundance when compared to lakes of similar surface area. However, this lake is small and relatively shallow, therefore the lake may only be capable of supporting a small population of lake trout, based on habitat availability.

Lake Whitefish

The population of lake whitefish in Ladue Lakes seems healthy. A wide age demographic was sampled, suggesting the population is stable.

Recommendation

To increase our confidence in population estimates the recommendation for future surveys of Ladue Lake is to increase net sets. Also, lake trout habitat availability should be determined and increased age analysis. Subsequent to improved access, an Angler Harvest Survey should also be performed.

Lake Trout

Overview

During the 2017 survey of Ladue Lake, a total of 33 lake trout were sampled.

Population Estimate and Density

The population estimate for lake trout was **789** (estimate range: 377 to 1,215). This resulted in a density of 3.1 lake trout per hectare.

Length and Weight

These large-bodied lake trout ranged in fork length from 317 mm to 698 mm. The average length of sampled fish was 561 mm with an average weight of 1,866 g.

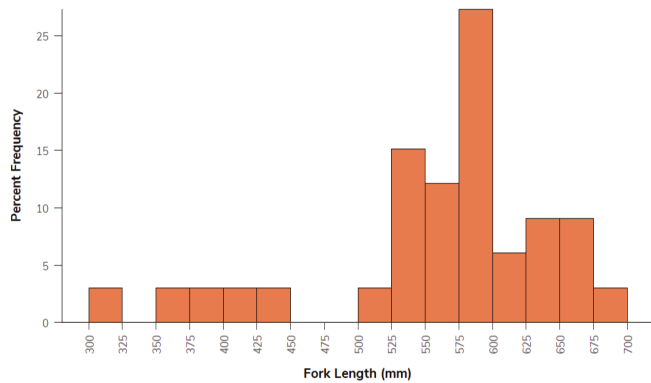


Figure 1. Length frequency distribution of sampled lake trout in Ladue Lake (2017), n = 33.

Age and Growth

Age structures were only obtained from 10 lake trout. Ages ranged from 11 to 31 years.

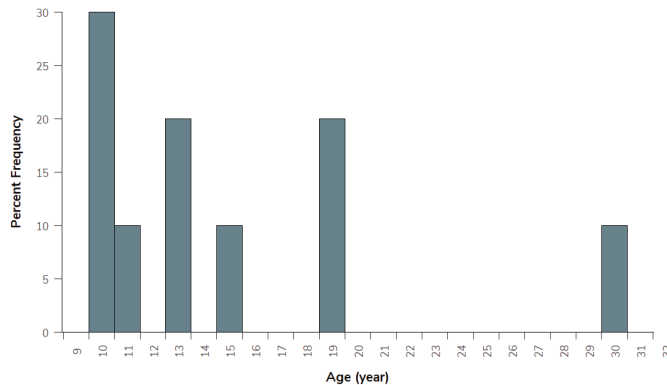


Figure 2. Age frequency distribution of age-analyzed lake trout in Ladue Lake (2017), n = 10.

Suggested citation:

Government of Yukon. 2024. Lake Trout and Lake Whitefish Monitoring Program: Ladue Lake 2017. Government of Yukon, Whitehorse, Yukon, Canada.

Lake Whitefish

Overview

During the 2017 survey, a total of 28 lake whitefish were sampled. The size of these fish ranged from 265 mm to 528 mm. Sampled fish had an average fork length of 446 mm and an average weight of 1,224 g. Age structures were taken from 18 lake whitefish. Ages ranged from 6 to 30 years.

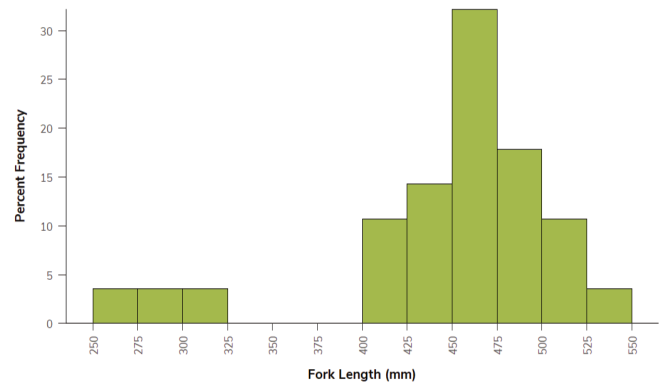


Figure 3. Length frequency distribution of sampled lake whitefish in Ladue Lake (2017), n = 28.

Temperature and Dissolved Oxygen

The temperature profile displayed a sharp thermocline from 3 m to 7 m, followed by a gradual decline through the water column. Dissolved oxygen slightly increased from 4 m to 7 m, followed by a gradual decline. Overall, optimum habitat existed between 6 m to the lake's bottom.

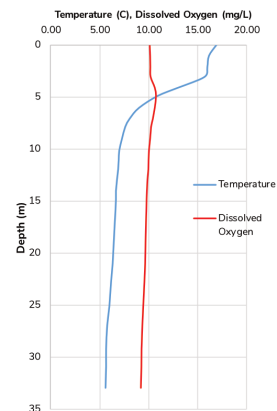


Figure 4. Temperature (C) and dissolved oxygen (mg/L) as measured in Ladue Lake on June 27, 2017