



## Lake Information

<b>WATERSHED</b>	<b>LAKE CLASS</b>
Alsek	B
<b>SURFACE AREA</b>	<b>ELEVATION</b>
603 ha	625 m
<b>MAXIMUM DEPTH</b>	<b>AVERAGE DEPTH</b>
28 m	14.7 m
<b>SURFACE TEMP</b>	<b>REGULATIONS</b>
n/a	Special Management
<b>SAMPLING DATES</b>	<b>NET SETS</b>
July 05 – 07	27

### Location

Pine Lake is near the community of Haines Junction along the Alaska Highway. It is in the Traditional Territory of the Champagne and Aishihik First Nations.

### Access and Use

Pine Lake is accessed by the Alaska Highway via a popular government campground with an accessible boat ramp. There are also several permanent residences along the lakeshore.

## Pine Lake 2010

### Overall Status

#### Lake Trout

Results indicate that Pine Lake has a critically small population of lake trout. Evidence suggests that levels of lake trout in Pine Lake are depleted and the population may have collapsed.

#### Lake Whitefish

Pine Lake contains a healthy population of lake whitefish, which are likely the main diet for other predators in this lake, such as northern pike and burbot.

#### Recommendation

The recommendation from the 2010 survey is to minimize all lake trout harvest, in an effort to naturally rebuild this population. This process may take many years to occur. A secondary survey is recommended in 2020 to determine if the population is responding to newly established regulation changes.

## Lake Trout

### Overview

Only two lake trout were captured during this survey, averaging 503 mm in length (as measured to the fork) and 1600 g in weight. Age structures were only taken from one of these fish, which was determined to be 23 years old.

### Population Estimate and Density

Due to the limited number of lake trout captured during this survey, the population estimate is uncertain. The density calculated shows a potential of 1.4 lake trout per hectare; however, there is little confidence in this estimate. Nevertheless, the limited number of lake trout captured suggests the population may have undergone a collapse.

The small numbers captured do not allow for catch frequency or age comparisons.

## Lake Whitefish

During this survey, 66 lake whitefish were captured.

### Length and Weight

Sampled whitefish ranged from 460 mm to 620 mm in length (as measured to the fork), with an average length of 528 mm and weight of 2,287 g. Twenty-four lake whitefish were sampled for age, which showed a range from 11 to 24 years old, with an average age of 16.

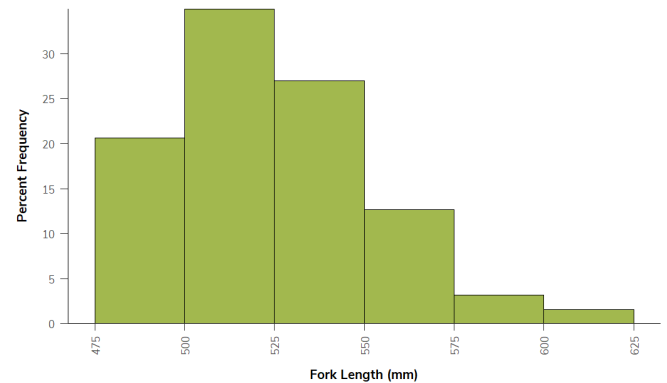


Figure 1. Length frequency distribution of sampled lake whitefish in Pine Lake (2010), n = 66

## Temperature and Dissolved Oxygen

Temperature and oxygen profiles were not assessed during the 2010 survey, as this specialized equipment was not available.

### Suggested citation:

Government of Yukon. 2024. Lake Trout and Lake Whitefish Monitoring Program: Pine Lake 2010. Government of Yukon, Whitehorse, Yukon, Canada.