



Lake Information

WATERSHED	LAKE CLASS
Yukon Headwaters	B
SURFACE AREA	ELEVATION
153 ha	630 m
MAXIMUM DEPTH	AVERAGE DEPTH
43 m	16.1 m
SURFACE TEMP	REGULATIONS
20.7°C	Special Management
SAMPLING DATES	NET SETS
June 25, 26	26

Location

Twin Lake (west) lies along the North Klondike Highway, in the central Yukon. This lake is within the Traditional Territories of the Kwanlin Dün First Nation, Champagne and Aishihik First Nations, and Little Salmon/Carmacks First Nation.

Access and Use

Twin Lake (west) is accessed from the Klondike Highway, with a popular government campground at the lake. There is an accessible boat ramp at this campground.

Twin Lake (west) 2013

Overall Status

Lake Trout

The lake trout population in Twin Lake (west) appears to be in a depleted state, when compared to lake trout populations in other similarly sized Yukon lakes. Low catch numbers create a situation where it is difficult to estimate population numbers with precision. However, the low catch rate may also indicate that the population is at risk of collapse.

Lake Whitefish

The lake whitefish population in Twin Lake (west) appears small and lower than predicted, when compared to other Yukon lakes of similar size.

Recommendation

Twin Lake (west) receives a high level of angling pressure and due to habitat limitations, appears to have a small lake trout population. In combination, this makes the population vulnerable to collapse. It is recommended that a regulation is established that eliminates the catch and possession of lake trout. This will aid in allowing this population to naturally recover.

Lake Trout

During the 2013 Twin Lake (west) survey, only seven lake trout were sampled.

Population Estimate and Density

The population estimate of lake trout in Twin Lake (west) was **234** (estimate range: 0 – 474). This equates to a density of 1.5 lake trout per hectare. Given the lack of precision associated with this estimate and the potential for collapse, a cautionary approach to management regulations is warranted.

Length and Weight

Lake trout ranged in fork length size from 230 mm to 618 mm. They had an average length of 432 mm and an average weight of 1,125 g.

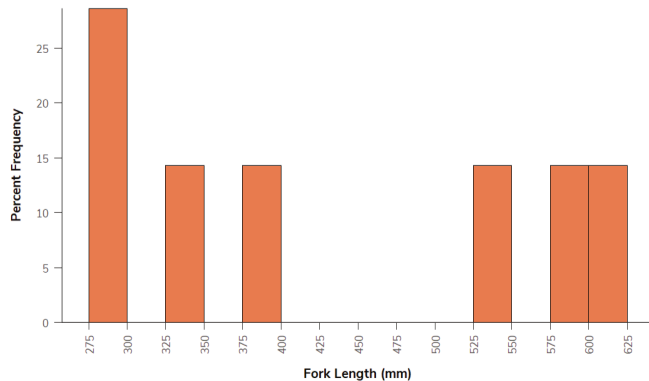


Figure 1. Length frequency distribution of sampled lake trout in Twin Lake (west) during the 2013 survey, n=7.

Age and Growth

Age structures were obtained from three individuals. The ages of these sampled fish were 7, 11 and 29.

Lake Whitefish

Overview

During this survey, 26 lake whitefish were sampled. The sampled lake whitefish ranged from 252 mm to 530 mm in fork length, with an average length of 432 mm and average weight 1,021 g. Age structures were obtained from 13 lake whitefish. Ages ranged from 5 to 25 years. The low catch numbers create difficulty in making definitive conclusions about this population.

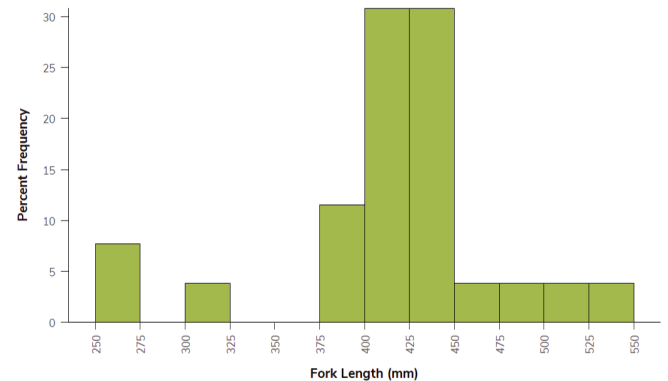


Figure 2. Length frequency distribution of lake whitefish in Twin Lake (west) as sampled in the 2013 survey, n = 26.

Temperature and Dissolved Oxygen

The lake was stratified with an observed thermocline between 4 and 7 m. The dissolved oxygen was within suitable limits between the surface to 32 m.

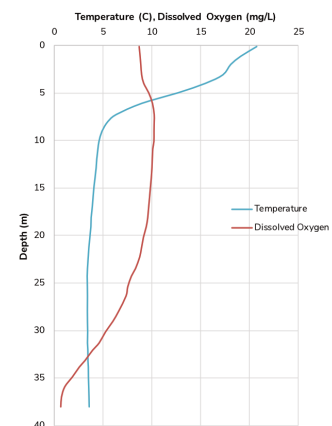


Figure 3. Temperature (C) and dissolved oxygen (mg/L) as measured in Twin Lake (west) on June 25, 2013.

Suggested citation:

Government of Yukon. 2024. Lake Trout and Lake Whitefish Monitoring Program: Twin Lake (West) 2013. Government of Yukon, Whitehorse, Yukon, Canada.