

PERFORMANCE REPORT

STATE: Alaska

GRANT NO.: F-10-33

GRANT TITLE: Sport Fish Investigations in Alaska

PERIOD COVERED: July 1, 2017 - June 30, 2018

STUDY NO. AND TITLE: R-3-16 Region III Resident Species

STUDY OBJECTIVES:

The purpose of this work is to ensure that the resident species research conducted in Region III is scientifically sound, adequately addresses project objectives, and is completed in a timely manner.

Project objectives for George Lake burbot during this period are to:

1. estimate the mean CPUE of fully recruited (≥ 450 mm TL) burbot in George Lake during spring 2018;
2. test the hypothesis that bootstrapped mean CPUE is $\geq \frac{1}{2}$ of the 1995 CPUE; and,
3. describe the length composition of fully recruited burbot in George Lake in spring 2018.

Project objectives for Tanana River burbot during this period are to:

1. Purchase all radio tags required for the project

RESULTS/DISCUSSIONS:

George Lake Burbot:

Objectives 1 and 2:

The preliminary CPUE estimate for fully recruited burbot from George Lake was 0.69 (90% CI: 0.53 to 0.84). Hypothesis testing showed the estimate was greater than half of the CPUE estimate from 1995, which means the sport fishery is sustainable.

Objective 3:

All captured burbot were measured to the nearest mm for total length. A total of 270 burbot were measured and ranged from 335 mm to 910 mm with an average length of 646 mm.

Tanana River Burbot:

Objective 1:

All radio tags were purchased and received for the Tanana River burbot study.

FINAL REPORT STATUS: This performance report is the final report for project R-3-16 for this reporting period.

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DATE: September 1, 2018