

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: S-2-21 Lower Kenai Peninsula Chinook Salmon

STUDY OBJECTIVES:

1. Estimate the adult Chinook salmon escapement that passes upstream of approximately RKM 4.0 on the South Fork and RKM 5.3 on the North Fork of the Anchor River using information collected during FY17 and FY 18 (approximately May 13 through August 4, 2017) within 5% of the true value 95% of the time.
2. Estimate the age and sex composition of the 2017 escapement of Chinook salmon into the Anchor River upstream of RKM 2.8 within 10 percentage points of the true values 95% of the time

RESULTS/DISCUSSIONS:

The run timing of Anchor River Chinook salmon does not match this reporting period; therefore to provide a better understanding of the results, the objectives and tasks extend beyond the reporting period to more accurately reflect the Chinook salmon runs.

Objective 1: In 2017, the DIDSON was operated on the South Fork from 12-31 May until the flow subsided sufficiently to allow weir installation; however on the North Fork, flow was sufficiently low early in the season and the weir became operational 4 May. The weirs maintained complete operation through 4 August.

The 2017 Chinook salmon escapement was 5,796. The total escapement, was composed of escapement up the South Fork based on DIDSON (577; SE=81) and weir counts (3,570) and escapement up the North Fork (1,374) based on weir counts.

Objective 2: Ocean age-3 was the dominant age class (57.5%) for the overall Chinook salmon escapement. Of the 1,108 Chinook salmon examined for external characteristics, 569 were male and 539 were females.

FINAL REPORT STATUS:

This performance report is the final report for S-2-21 for this grant period.

The objectives will also be reported in the below Fisheries Data Series. The draft report will be submitted for biometric review by March 2019.

Kerkvliet, C. M., and M. Booz. In prep. Anchor River Chinook escapement project, 2017. Alaska Department of Fish and Game, Fisheries Data Series xx-xx, Anchorage.

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