

# 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-1-6 Situk River Steelhead Stock Assessment

## STUDY OBJECTIVES:

1. Count steelhead kelts emigrating past a weir on the Situk River in 2018.
2. Estimate the sex and length composition of steelhead kelts emigrating past a weir on the Situk River in 2018.

## RESULTS/DISCUSSIONS:

**Objective 1:** This report covers weir counts of the steelhead kelt outmigration for 2018 (May-June) of the F-10-33 grant period. The majority of the Situk River steelhead kelts typically outmigrate prior to July 1 (99% in 2017). A season total of 5,221 steelhead kelts were counted downstream through the Situk weir and the peak daily count of 1,359 occurred on May 31. Counting started three weeks late this season due to high water conditions in early May that delayed weir installation. The previous 10-year (2008-2017) average weir count of steelhead kelts out-migrating through the Situk weir was 6,422, and the long-term average (1988-2017) was 6,882.

**Objective 2:** Delayed weir installation due to high water led to more concentrated fish passage past the weir which prevented achievement of the sampling goal for age and length composition. A total of 163 steelhead kelts were sampled to estimate length per sex composition; data will be stratified by weeks and analysis will be adjusted to produce statistically valid estimates.

## FINAL REPORT STATUS:

This performance report constitutes the final report of activities for study R-1-6 during the F-10-33 grant period.

The 2018 results will be presented in a Fishery Data Series report covering 2018–2021, which will be submitted in 2021.

**PREPARED BY:** Matt Catterson

**DATE:** August 14, 2018