

ABSTRACT

Hetta Lake on Prince of Wales Island is a major sockeye salmon (*Oncorhynchus nerka*) producer in Southeast Alaska. The sockeye Salmon run was, and continues to be, an important subsistence resource for Tlingit and Haida Peoples. It also supported a large commercial fishery at the beginning of the 20th century. The run has declined to as little as one percent of former levels. Based on interviews of subsistence users in 2007, 3,178 sockeye salmon were harvested that year in Hetta Cove, the marine terminal area for Hetta Lake; the bulk of the harvest occurred between mid-July and mid-August. In 2007, the seventh year of monitoring of the sockeye salmon run in Hetta Lake, 12,860 sockeye salmon were counted at the Hetta Creek weir. The mark-recapture estimate, which was calculated to validate the weir count, was rejected due to violation of assumptions; the confidence interval for the rejected estimate included the weir count.