

ABSTRACT

Fall chum salmon *Oncorhynchus keta* fish wheel mark–recapture studies have been conducted since 1995 on the Tanana River and since 1999 on the Kantishna River. In the Tanana River, chum salmon were captured and tagged using a fish wheel and recaptured in a second fish wheel 73 km upstream. In the Kantishna River, chum salmon were captured and tagged using a fish wheel, and recaptured at 2 sites: the Toklat River, 89 km upstream and the upper Kantishna River, 148 km upstream. The Darroch model was used for the Tanana River abundance estimate and Chapman model for the Kantishna River. Estimates were 320,811 (SE \pm 23,069) for the Tanana River and 81,843 (SE \pm 4,667) for the Kantishna River.

Citation: Cleary, P. M., and T. Hamazaki. 2008. Fall chum salmon mark–recapture abundance estimation on the Tanana and Kantishna rivers, 2007. U. S. Fish and Wildlife Service, Office of Subsistence Management, Fisheries Resource Monitoring Program, 2007 Annual Report (Study No.05-210). Alaska Department of Fish and Game, Fishery Data Series No. 08-35, Anchorage.