

## **Goodnews River Salmon Monitoring and Assessment, 2005.**

A resistance board weir was used to enumerate 5 species of Pacific salmon and Dolly Varden *Salvelinus malma* migrating into the Middle Fork Goodnews River in 2005. A total of 4,633 Chinook *Oncorhynchus tshawytscha*, 113,809 sockeye *O. nerka*, 26,691 chum salmon *O. keta*, 5,926 pink salmon *O. gorbuscha*, 15,682 coho salmon *O. kisutch*, and 2,128 Dolly Varden *Salvelinus malma* were enumerated as they passed through the weir from 26 June through 12 September. Chinook, sockeye, chum, and coho salmon sustainable escapement goals were achieved or exceeded in 2005. Escapements for Chinook and sockeye were above average, chum salmon escapement was average, and coho salmon escapement was below average. A live trap was used to collect samples from Chinook, sockeye, chum, and coho salmon throughout their respective runs to estimate the age, sex, and length composition of each population. The sockeye salmon run was 45.7% male and 79.0% age-1.3 fish. The chum salmon run was 47.1% male and 83.4% age-0.3 fish. Sex and length estimates were not made for Chinook and coho salmon because insufficient samples were collected. Aerial surveys were not conducted in the Goodnews River drainage in 2005 because no aircraft or pilots were available during the peak spawning period. Chinook and sockeye salmon run abundance was estimated based on the recent 5-year average aerial survey proportions between Middle Fork and North Fork aerial survey estimates.

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