

Anvik River sonar chum salmon escapement study, 2005.

The 2005 Anvik River sonar project operated from late June until the end of July to estimate the passage of summer chum salmon *Oncorhynchus keta*. Data from each bank was sampled by a Hydroacoustic Technology Incorporated (HTI) split-beam sonar for 30 minutes of each hour, 24 hours a day, 7 days a week. The estimated summer chum salmon passage of 525,391 (SE 2,675) was 24% above the minimum escapement objective for the Anvik River Biological Escapement Goal of 400,000 to 800,000 chum salmon. Based on 1979–1985 and 1987–2004 mean quartile passage dates, timing of the 2005 chum salmon run was average. A chum salmon diurnal migration pattern was observed with the highest passage (43%) occurring during the darkest part of the day (2100–0500 hours). Females comprised 48% of the catch in beach seines. Age-0.3 fish comprised 96.4% of the chum salmon run in 2005 and, unlike past years, there were no age-0.2 chum salmon reported.

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