

Abundance and Run Timing of Adult Pacific Salmon in the East Fork Andreafsky River, Yukon Delta National Wildlife Refuge, Alaska, 2004.

Abstract :A resistance board weir was used to collect abundance, run timing, and biological data from salmon returning to the East Fork Andreafsky River, a tributary to the lower Yukon River, between June 23 and September 19, 2004. In 2004, an estimated total of 8,045 Chinook salmon *Oncorhynchus tshawytscha* migrated through the weir. The run timing was early compared to the 1994-2003 average. Four age groups were identified from 517 Chinook salmon sampled with age 1.2 and 1.3 (both 39%) dominating. The sex ratio was 35% female, 65% male. The mean length for 178 females was 759 mm, range 495 mm to 980 mm, and the mean length for 339 males was 648 mm, range 480 mm to 900 mm. An estimated total of 64,883 chum salmon *O. keta* migrated through the weir. The run timing was early compared to the 1994-2003 average. Four age groups were identified from 703 chum salmon sampled, with age 0.3 (69%) dominating. The sex ratio was 51% female, 49% male. The mean length for 372 females was 522 mm, range 395 mm to 610 mm, and the mean length for 331 males was 562 mm, range 460 mm to 685 mm. An estimated total of 11,146 coho salmon *O. kisutch* migrated through the weir. The run timing was late compared to the 1995-2003 average. Three age groups were identified from 544 coho salmon sampled, with age 2.1 (92%) dominating. The sex ratio was 49% female, 51% male. The mean length for 275 females was 531 mm, range 400 mm to 620 mm, and the mean length for 269 males was 524 mm, range 420 mm to 645 mm. An estimated total of 508 sockeye salmon *O. nerka* and 399,678 pink salmon *O. gorbuscha* migrated through the weir. Other species counted through the weir during 2004 included 5,747 whitefish (Coregoninae), 9 Arctic grayling *Thymallus arcticus*, and 89 northern pike *Esox lucius*.

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