

Spawning distribution and run timing of Copper River sockeye salmon, 2006 annual report.

ABSTRACT

The purpose of this three-year (2005-07) project was to use radiotelemetry techniques to assess the spawning distribution and run timing for adult sockeye salmon *Oncorhynchus nerka* stocks in the Copper River, Alaska. This report summarizes the results from the 2006 field season. Specific objectives were to: (1) estimate the proportions of sockeye salmon returning to major spawning areas of the Copper River (Lower Copper, Chitina, Tonsina, Klutina, Tazlina, Gulkana and Upper Copper rivers) such that the proportions were within 10% of the true proportions 95% of the time; and (2) describe the stock-specific, migratory timing profile of sockeye salmon in the Copper River at the point of capture in Baird Canyon. The largest proportion of spawners returned to the Klutina River drainage (0.45), followed by the Gulkana (0.16), Tazlina (0.11), Upper Copper (0.09), Chitina (0.08), Tonsina (0.06), and Lower Copper (0.06) rivers. Runtiming patterns at the capture site varied among stocks. The mean date of passage at Baird Canyon varied from 7 June for the Upper Copper stock to 17 July for the Tonsina stock.

Citation: Wade, G. D, K. M. van den Broek, J. W. Savereide, and J. J., Smith. 2007. Spawning distribution and run timing of Copper River sockeye salmon, 2006 annual report. U.S. Fish and Wildlife Service, Office of Subsistence Management, Fisheries Resource Monitoring Program (Study No. 05-501), Anchorage, Alaska.