

# Passage of Adult Salmon and Trout through an Inclined Pipe

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## Abstract

This research was designed to determine if migrating adult salmon and trout at Bonneville Dam on the Columbia River would use as a passageway an inclined pipe that required them to make a descent and an ascent before they reached the upstream end of the pipe. Chinook salmon (*Oncorhynchus tshawytscha*), sockeye salmon (*O. nerka*), coho salmon (*O. kisutch*), and steelhead trout (*Salmo gairdneri*) were tested with water velocities of about 0.30, 0.76, and 1.22 m/sec in a pipe that was 0.61 m in diameter and 31.4 m long. From 64 to 100% of the fish passed through the inclined pipe during a 45-min period. Median passage times ranged from 3 to 23 min. Chinook salmon passed through the pipe most rapidly at the 0.76 m/sec flow; coho salmon and steelhead trout passed through in the least time at 1.22 m/sec. Sockeye salmon passed through equally well at flows of 0.76 and 1.22 m/sec.