

IDAHO COOPERATIVE FISH AND WILDLIFE RESEARCH UNIT
COLLEGE OF NATURAL RESOURCES
UNIVERSITY OF IDAHO
P.O. BOX 441141
MOSCOW, ID 83844-1141
(208) 885-2750
Fax (208 885-9080)

To: David Clugston, USACE Portland District
From: Christopher Peery, Charles Boggs, ICFWRU University of Idaho
Re: 2001 & 2002 Fallback information at The Dalles, John Day dams
Date: 15 December 2003

Enclosed with this memo is a spreadsheet containing the fallback information you requested for adult chinook salmon and steelhead that passed The Dalles and John Day dams during 2001 and 2002. The first sheet contains the pertinent summary tables with numbers of unique number of radio-tagged fish that passed the dam, unique and total number of fallback events, corresponding fallback percent and rate, and the number and percent of unique fallback events that appear to be overshoot behavior based on final fates of fish. The overshoot estimate will be conservative because any fish that did not reascend the dam was clumped into this category and may include fish that died. The breakdown of 'overshoot' fish that ended up in tributaries versus were last heard in tributaries is shown in the last sheet of the spreadsheet. As you will see, fallback percent was > 1% for steelhead and about 2-3% for chinook salmon at The Dalles and 3-7% and 0-1.5% at John Day, respectively, during 2001. During 2002, fallback during July and August was 1.5-35 for steelhead and about 5.5% for chinook salmon at The Dalles and 2-8% and 2-3%, respectively, at John Day dams. Overshoot fallback could make range from 0 to 2/3rds of the unique number of fallback fish during this period.

The point of comparing 2001 and 2002 was to determine the difference in fallback behavior without spill. Although spill was minimal during 2001, there were periods with spill at times. In the second sheet, time period were further broken down into periods with and without spill.

Routes were monitored at John Day Dam during 2002 only. As shown in the third sheet, the majority of fallback events occurred through the spillway during July.

Please look over the data summaries provided and let me know if we can provide any additional information.