

**PRELIMINARY DATA SUMMARY**

For  
 Passage Behavior and Survival of Radio-tagged Subyearling Chinook  
 Salmon at Ice Harbor Dam, 2004.

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November 2, 2004

Table 1. Average project and spillway operations at Ice Harbor Dam, 26 June – 31 July, 2004.

Operations	<u>Total Discharge (kcfs)</u>		<u>Total Spill (kcfs)</u>		<u>Percent Spill</u>	
	Mean	Range	Mean	Range	Mean	Range
Bulk Spill	36	5 – 81	29	3 – 70	78.3	20 – 100
Flat Spill	46	18 - 103	36	18 - 45	81.0	42 – 100

Table 2. Preliminary results of 2004 passage behavior and survival study for radio-tagged subyearling Chinook salmon at Ice Harbor Dam (the 10<sup>th</sup> and 90<sup>th</sup> percentiles are provided for travel time data; 95% confidence intervals are provided for passage efficiency and survival estimates).

Metric	Bulk Spill	Flat Spill
Median FB Residence	3.2 hrs (0.9 – 19.2)	4.4 hrs (1.0 – 19.9)
Median TR Egress	51 mins (38 – 159)	49 mins (38 – 138)
Spill Efficiency	93.2% (88.8 – 97.6%)	93.3% (87.6 – 98.9%)
Spill Effectiveness	1.2 : 1 (1.1 – 1.3 : 1)	1.2 : 1 ( 1.0 – 1.3 : 1)
Fish Passage Efficiency	94.6% (90.2 – 99.1%)	97.0% (92.0 – 102.0%)
Spillway Survival	97.5% (90.9 – 104.6%)	93.5% (87.4 – 100.0%)
Dam Survival	88.3% (70.1 – 111.2%)	86.4% (71.3 – 104.7%)