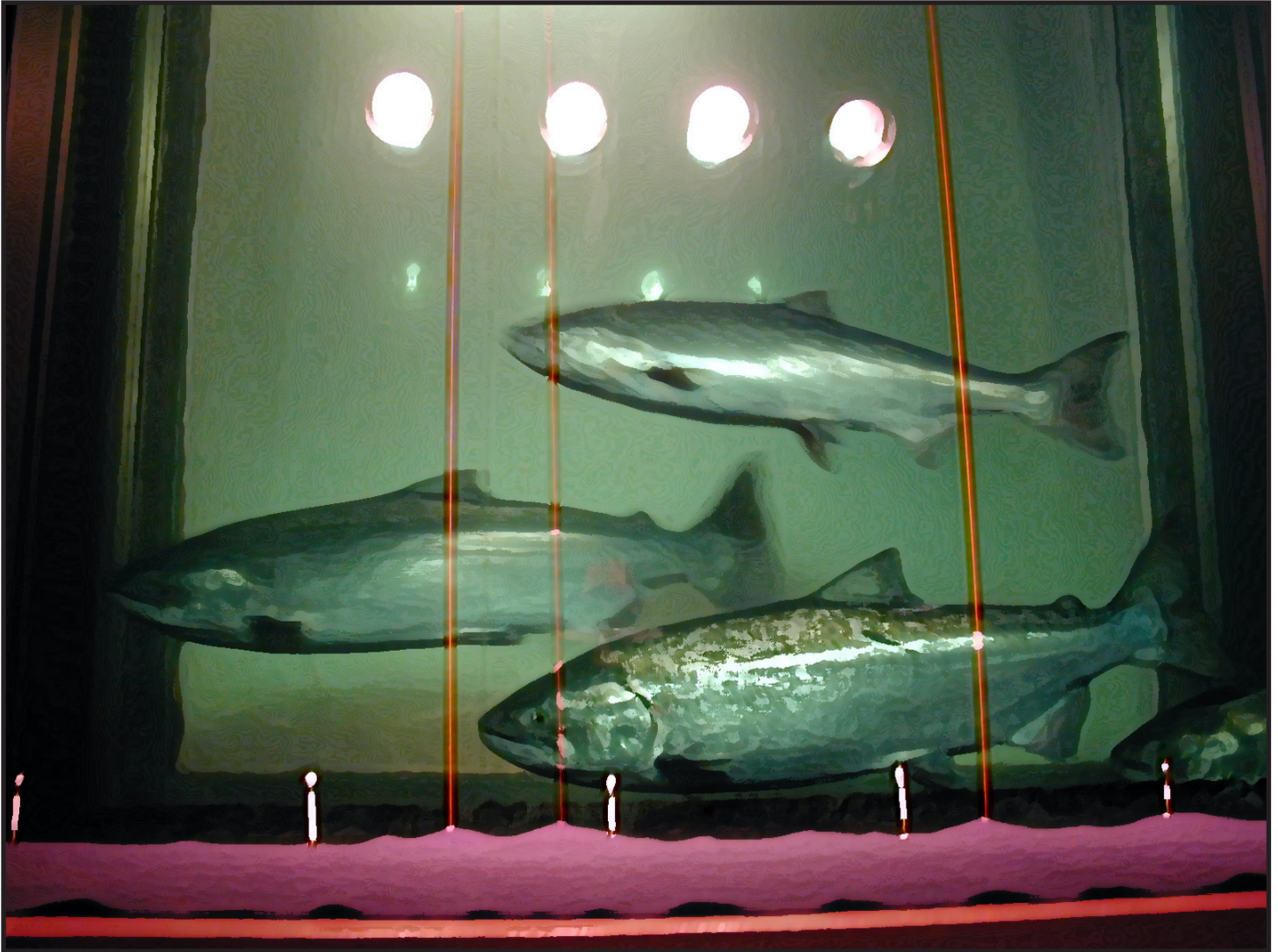




US Army Corps
of Engineers®
Portland District
Walla Walla District

Annual Fish Passage Report 2006



Columbia and Snake River Projects

2006

**ANNUAL FISH PASSAGE REPORT
COLUMBIA AND SNAKE RIVERS**

for

**SALMON, STEELHEAD, SHAD,
AND LAMPREY**

***BONNEVILLE DAM
THE DALLES DAM
JOHN DAY DAM
McNARY DAM
ICE HARBOR DAM
LOWER MONUMENTAL DAM
LITTLE GOOSE DAM
LOWER GRANITE DAM
PRIEST RAPIDS DAM
ROCK ISLAND DAM
ROCKY REACH DAM
WELLS DAM***

NORTHWESTERN DIVISION
U.S. ARMY CORPS OF ENGINEERS

Prepared By:
U.S. Army Engineer Districts
Portland and Walla Walla

TABLE OF CONTENTS

General

Plate 1. Columbia and Snake River Projects	1
Table 1. Fish Escapement at Main Stem Dams Columbia and Snake Rivers: 2002 – 2006	2
Table 2. Fish Escapement at Mid Columbia River Dams: 2002 – 2006	3
Table 3. Steelhead over Columbia and Snake River Dams 1953 – 2006: by Run-Year	4-5
Table 4. Steelhead over Mid Columbia River Dams 1959 – 2006: by Run-Year	6

Columbia River

Corps of Engineers Projects

BONNEVILLE DAM

Plate 2. Bonneville Dam General Site Map, Fish Passage Facilities.....	7
Fish Counting Schedule	8
Fish Facilities Operation Schedule	8
Fishway Activities... ..	9-12
Table 5. Monthly Totals of Salmonids, Shad, and Lamprey: 2006	13
Table 6-17. Monthly Discharge, Water Quality Data, and Fish Count January through December: 2006.....	14-25
Table 18. Yearly Totals of Salmonids: 1938 – 2006	26-27
Table 19. Monthly Count of Chinook Salmon: 1938 – 2006	28-29
Table 20. Monthly Count of Sockeye Salmon: 1938 – 2006	30-31
Table 21. Monthly Count of Coho Salmon: 1938 – 2006	32-33
Table 22. Monthly Count of Steelhead: 1938 – 2006	34-35
Table 23. Monthly Count of Shad: 1938 – 2006	36-37
Table 24. Monthly Count of Lamprey 1939 – 2006	38

THE DALLES DAM

Plate 3. The Dalles Dam General Site Map, Fish Passage Facilities.....	39
Fish Counting Schedule	40
Fishway Operating Schedule	40

TABLE OF CONTENTS
(Continued)

Fish Related Dewaterings	40-42
Fishway Inspection Comparison.....	42-43
Table 25. Monthly Totals of Salmonids, Shad, and Lamprey: 2006	44
Table 26-37. Monthly Discharge, Water Quality, and Fish Counts January through December: 2006.....	45-56
Table 38. Yearly totals of Salmonids: 1957 – 2006	57
Table 39. Monthly Count of Chinook Salmon: 1957 – 2006	58
Table 40. Monthly Count of Sockeye Salmon: 1957 – 2006	59
Table 41. Monthly Count of Coho Salmon: 1957 – 2006	60
Table 42. Monthly Count of Steelhead: 1957 – 2006	61

JOHN DAY DAM

Plate 4. John Day Dam General Site Map, Fish Passage Facilities	62
Fish Counting Schedule	63
Fishway Operating Schedule	63
Fish Related Dewaterings	64
Fishway Inspection Comparison.....	65
Table 43. Monthly Totals of Salmonids, Shad, and Lamprey: 2006	66
Table 44-55. Monthly Discharge, Water Quality, and Fish Counts January through December: 2006.....	67-78
Table 56. Yearly totals of Salmonids: 1968 – 2006	79
Table 57. Monthly Count of Chinook Salmon: 1968 – 2006	80
Table 58. Monthly Count of Sockeye Salmon: 1968 – 2006	81
Table 59. Monthly Count of Coho Salmon: 1968 – 2006	82
Table 60. Monthly Count of Steelhead: 1968 – 2006	83

McNARY DAM

Plate 5. McNary Dam General Site Map, Fish Passage Facilities	84
Fish Counting Schedule	85
Fish Ladder Operating Schedule.....	85
Fishway Activities	85
Table 61. Monthly Totals of Salmonids, Shad, and Lamprey: 2006	86
Table 62-72. Monthly Discharge, Water Quality, and Fish Counts January through December: 2006.....	87-97

TABLE OF CONTENTS
(Continued)

Table 73. Yearly totals of Salmonids: 1954 – 2006	98
Table 74. Monthly Count of Chinook Salmon: 1954 – 2006	99-100
Table 75. Monthly Count of Sockeye Salmon: 1954 – 2006	101-102
Table 76. Monthly Count of Coho Salmon: 1954 – 2006	103-104
Table 77. Monthly Count of Steelhead: 1954 – 2006	105-106

Snake River
Corps of Engineers Projects

ICE HARBOR DAM

Plate 6. Ice Harbor Dam General Site Map, Fish Passage Facilities	107
Fish Counting Schedule	108
Fish Ladder Operating Schedule.....	108
Fishway Activities	108
Table 78. Monthly Totals of Salmonids, Shad, and Lamprey: 2006	109
Table 79-88. Monthly Discharge, Water Quality, and Fish Counts January through December: 2006	110-119
Table 89. Yearly totals of Salmonids: 1962 – 2006	120
Table 90. Monthly Count of Chinook Salmon: 1962 – 2006	121
Table 91. Monthly Count of Steelhead: 1962 – 2006	122

LOWER MONUMENTAL DAM

Plate 7. Lower Monumental Dam General Site Map, Fish Passage Facilities	123
Fish Counting Schedule	124
Fish Ladder Operating Schedule.....	124
Fishway Activities	124
Table 92. Monthly Totals of Salmonids, Shad, and Lamprey: 2006	125
Table 93-101. Monthly Discharge, Water Quality, and Fish Counts January through December: 2006	126-134
Table 102. Yearly totals of Salmonids: 1969 – 2006	135
Table 103. Monthly Count of Chinook Salmon: 1969 – 2006	136
Table 104. Monthly Count of Steelhead: 1969 – 2006	137

TABLE OF CONTENTS
(Continued)

LITTLE GOOSE DAM

Plate 8. Little Goose Dam General Site Map, Fish Passage Facilities138

Fish Counting Schedule139

Fish Ladder Operating Schedule.....139

Fishway Activities139

Table 105. Monthly Totals of Salmonids, Shad, and Lamprey: 2006140

Table 106-114. Monthly Discharge, Water Quality, and Fish Counts January through
December: 2006..... 141-149

Table 115. Yearly totals of Salmonids: 1970 – 1981, 1991 – 2006150

Table 116. Monthly Count of Chinook Salmon: 1970 – 1981, 1991 – 2006151

Table 117. Monthly Count of Steelhead: 1970 – 1981, 1991 – 2006152

LOWER GRANITE

Plate 9. Lower Granite Dam General Site Map, Fish Passage Facilities.....153

Fish Counting Schedule154

Fish Ladder Operating Schedule.....154

Fishway Activities154

Table 118. Monthly Totals of Salmonids, Shad, and Lamprey: 2006155

Table 119-129. Monthly Discharge, Water Quality, and Fish Counts January through
December: 2006..... 156-166

Table 130. Yearly totals of Salmonids: 1975 – 2006167

Table 131. Monthly Count of Chinook Salmon: 1975 – 2006168

Table 132. Monthly Count of Steelhead: 1975 – 2006169

TABLE OF CONTENTS
(Continued)

Mid - Columbia River
Public Utility District Projects

PRIEST RAPIDS AND WANAPUM DAMS

Fishway Counting Schedule170
Fish Ladder Operating and Maintenance Schedule170
Fishway Activities171

Table 133. Monthly Totals of Salmonids, Shad, and Lamprey: 2006172
Table 134-141. Monthly Discharge, Water Quality, and Fish Counts April through
November: 2006..... 173-180
Table 142. Yearly totals of Salmonids: 1982 – 2006181
Table 143. Monthly Count of Steelhead: 1960 – 2006182

ROCK ISLAND DAM

Fish Counting Schedule183
Fish Ladder Operating Schedule.....183
Fishway Activities183

Table 144. Monthly Totals of Salmonids and Lamprey: 2006184
Table 145-152. Monthly Discharge, Water Quality, and Fish Counts April through
November: 2006..... 185-192
Table 153. Monthly Count of Steelhead: 1981 – 2006193

ROCKY REACH DAM

Fish Counting Schedule194
Fish Ladder Operating Schedule.....194
Fishway Activities194

Table 154. Monthly Totals of Salmonids and Lamprey: 2006195
Table 155-162. Monthly Discharge, Water Quality, and Fish Counts April through
November: 2006..... 196-203
Table 163. Monthly Count of Steelhead: 1981 – 2006204

TABLE OF CONTENTS
(Continued)

WELLS DAM

Fish Counting Schedule205
Adult Passage Facilities 205-206
Fish Ladder Operating Schedule.....206
Juvenile Passage Facilities.....206
Miscellaneous206

Table 164. Monthly Totals of Salmonids and Lamprey: 2006208
Table 165-171. Monthly Discharge, Water Quality, and Fish Counts May through
November: 2006..... 209-215
Table 172. Monthly Count of Steelhead: 1976 – 2006216

ADDENDUM

Corrections to previous reports.....217

Plate 1 Columbia and Snake River Projects

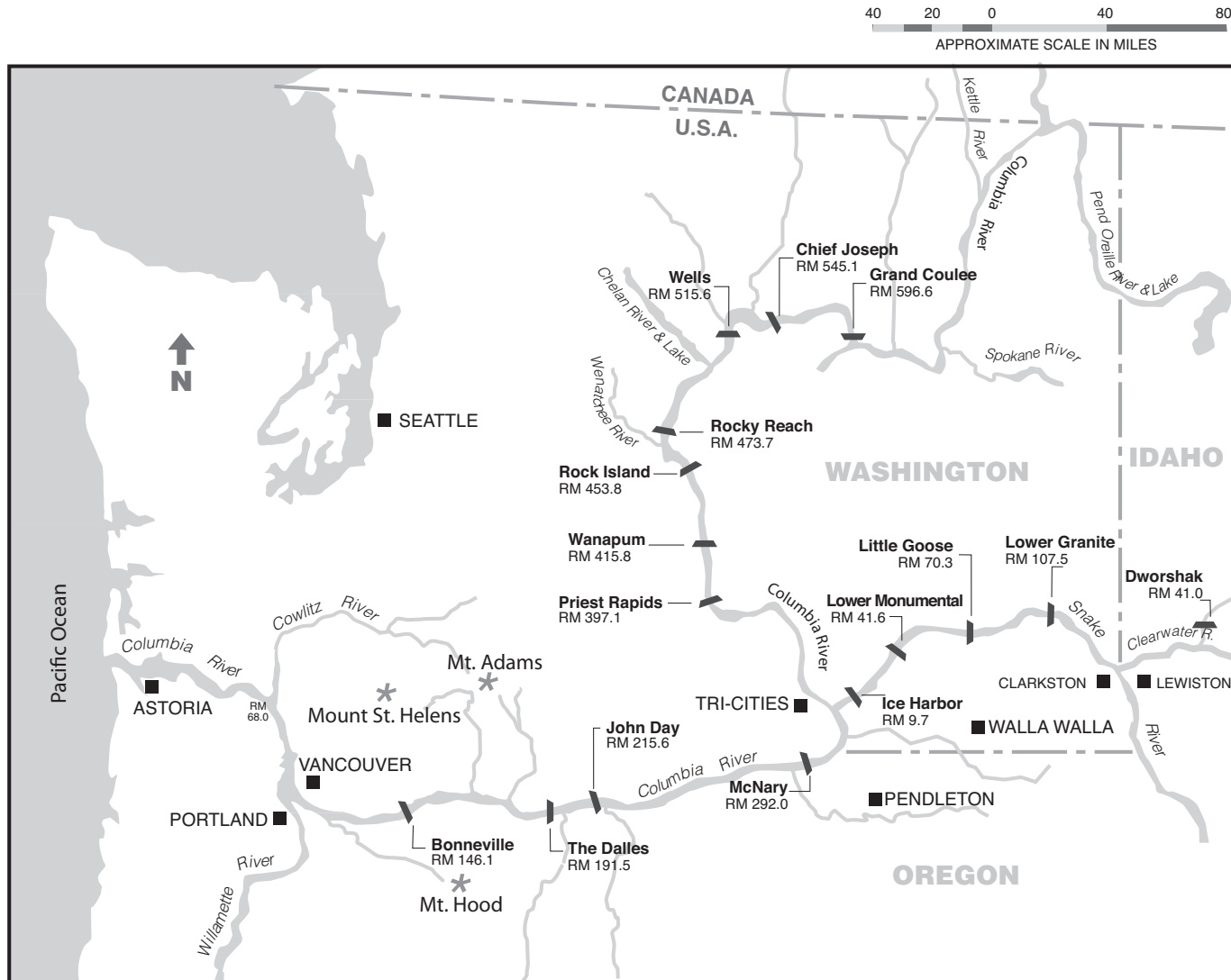


TABLE 1

FISH ESCAPEMENT AT MAIN STEM DAMS ON THE COLUMBIA AND SNAKE RIVERS: 2002-2006

SPECIES	BONNEVILLE	THE DALLES	JOHN DAY	M McNARY	ICE HARBOR	LOWER MONUMENTAL	LITTLE GOOSE	LOWER GRANITE
2002								
CHINOOK*	924,585	583,155	447,729	417,090	137,404	124,673	119,324	119,304
Spring*	275,290	185,046	142,290	133,229	87,033	77,841	79,047	77,114
Summer*	135,388	118,812	110,969	116,747	29,044	25,454	23,108	24,112
Fall*	513,907	279,297	194,470	167,114	21,327	21,378	17,169	18,078
Jacks	54,644	42,982	37,568	36,114	10,342	9,432	8,333	9,769
STEELHEAD	480,309	387,920	390,300	286,805	202,173	212,639	203,494	218,718
SOCKEYE	49,610	40,554	41,915	39,424	61	46	38	55
COHO*	94,901	12,786	9,272	3,192	231	149	133	395
Adults	88,084	9,765	7,669	2,144	199	138	109	246
Jacks	6,817	3,021	1,603	1,048	32	11	24	149
SHAD	3,164,556	3,218,050	1,850,942	599,294	81,373	58,677	15,171	3,119
LAMPREY	100,476	23,417	26,821	11,282	1,127	284	365	138
2003								
CHINOOK*	992,231	608,153	467,085	420,603	143,197	122,817	114,458	119,676
Spring*	206,268	142,817	111,642	106,673	86,190	77,947	76,096	78,904
Summer*	128,166	111,931	105,615	104,948	25,343	22,307	17,877	20,559
Fall*	657,797	353,405	249,828	208,982	31,664	22,563	20,485	20,213
Jacks	75,338	61,671	54,606	52,258	23,288	19,855	17,151	20,913
STEELHEAD	361,412	273,172	286,176	230,418	186,474	172,596	161,026	180,072
SOCKEYE	39,291	34,176	35,417	32,037	37	14	23	11
COHO*	133,870	45,374	38,577	19,830	1,431	999	807	1,265
Adults	125,743	42,563	34,453	18,095	1,362	924	734	1,135
Jacks	8,127	2,811	4,124	1,735	69	75	73	130
SHAD	4,558,550	4,258,889	2,735,108	1,077,670	245,805	160,292	56,834	17,545
LAMPREY	117,027	28,995	20,922	13,324	1,702	468	660	282
2004								
CHINOOK*	905,809	560,420	446,303	382,946	130,213	113,885	100,733	109,061
Spring*	179,037	137,957	118,520	115,179	81,752	75,363	65,862	75,224
Summer*	105,032	87,925	83,060	74,217	16,185	12,789	11,567	11,277
Fall*	621,740	334,538	244,723	193,550	32,276	25,733	23,304	22,560
Jacks	60,245	48,653	47,696	40,644	18,825	11,902	10,999	14,592
STEELHEAD	310,893	238,242	227,199	201,071	168,897	149,429	142,092	154,389
SOCKEYE	123,291	107,466	113,497	89,707	91	80	81	113
COHO*	119,826	40,564	34,755	20,132	3,519	3,606	3,029	3,904
Adults	115,018	38,661	32,627	19,004	3,473	3,441	2,898	3,802
Jacks	4,808	1,903	2,128	1,128	46	165	131	102
SHAD	5,355,677	5,472,400	0	1,751,728	365,493	**	**	33,987
LAMPREY	61,780	14,873	11,663	5,888	805	194	243	117
2005								
CHINOOK*	600,301	388,893	322,563	269,103	58,361	52,281	46,553	49,530
Spring*	78,326	64,174	58,742	55,056	29,306	26,935	24,918	27,286
Summer*	83,703	73,136	69,439	66,858	9,817	9,158	7,961	7,814
Fall*	438,272	251,583	194,382	147,189	19,238	16,188	13,674	14,430
Jacks	29,998	24,900	22,868	19,470	6,818	4,857	4,160	5,572
STEELHEAD	315,104	240,349	223,174	214,105	155,541	153,792	143,537	155,783
SOCKEYE	72,971	65,273	69,770	63,540	18	18	13	18
COHO*	88,791	34,629	34,197	19,776	1,621	2,095	1,992	2,183
Adults	83,305	32,447	30,869	18,577	1,601	2,065	1,913	2,077
Jacks	5,486	2,182	3,328	1,199	20	30	79	106
SHAD	4,242,129	6,067,028	**	1,951,001	281,114	**	**	13,584
LAMPREY	26,664	8,361	8,312	4,158	461	222	211	40
2006								
CHINOOK*	525,948	339,206	288,434	217,185	52,501	54,482	44,695	45,992
Spring*	99,364	64,003	52,406	48,362	26,309	24,137	21,569	23,503
Summer*	101,874	84,839	77,964	65,960	9,085	10,449	8,752	7,720
Fall*	324,710	190,364	158,064	102,863	17,107	19,896	14,374	14,769
Jacks	32,812	27,104	28,476	19,646	8,255	9,840	6,429	8,356
STEELHEAD	333,250	235,623	217,122	184,024	123,631	135,566	124,440	145,991
SOCKEYE	37,066	30,026	35,387	29,295	48	17	26	17
COHO*	109,006	32,196	33,778	13,333	971	1,180	972	1,434
Adults	101,086	29,728	28,868	12,183	897	1,101	938	1,141
Jacks	7,920	2,468	4,910	1,150	74	79	34	293
SHAD	3,965,254	4,611,592	**	1,176,899	213,229	**	**	7,923
LAMPREY	38,938	6,894	9,600	2,456	277	175	125	35

ASSUMED DATES FOR CHINOOK RUN

(MAY VARY FROM PREVIOUS YEARS)

SPRING	15 MARCH - 31 MAY	1 APRIL - 3 JUNE	1 APR - 5 JUN	1 APR - 8 JUN	1 APR - 11 JUN	1 APR - 13 JUN	1 APR - 15-Jun	1 MAR - 17 JUN
SUMMER	1 JUN - 31 JUL	4 JUN - 3 AUG	6 JUN - 5 AUG	9 JUN - 8 AUG	12 JUN - 11 AUG	14 JUN - 13 AUG	16 JUN - 15-Aug	18 JUN - 17 AUG
FALL	1 AUG - 15 NOV	4 AUG - 31 OCT	6 AUG - 31 OCT	9 AUG - 31 OCT	12 AUG - 31 OCT	14 AUG - 31 OCT	16 AUG - 31 OCT	18 AUG - 15 DEC

*Includes Jack Counts.

TABLE 2

FISH ESCAPEMENT AT MID COLUMBIA RIVER DAMS: 2002 - 2006

SPECIES	PRIEST RAPIDS	ROCK ISLAND	ROCKY REACH	WELLS
2002				
CHINOOK*	161,510	130,491	98,756	76,716
Spring*	34,279	24,844	10,160	7,626
Summer*	97,784	90,041	75,911	62,626
Fall*	29,447	15,606	12,685	6,464
Jacks	4,279	5,135	4,281	659
STEELHEAD	15,895	15,295	11,853	9,482
SOCKEYE	47,883	44,320	12,372	10,762
COHO*	1,555	1,751	481	132
Adults	1,143	1,750	481	132
Jacks	412	1	0	0
SHAD	4,836	**	**	**
LAMPREY	4,008	4,878	1,842	342
2003				
CHINOOK*	160,433	132,167	88,011	59,346
Spring*	18,792	17,634	4,669	4,702
Summer*	86,837	88,401	69,362	46,391
Fall*	54,804	26,132	13,980	8,253
Jacks	10,847	11,939	9,363	2,984
STEELHEAD	17,652	17,509	13,650	9,963
SOCKEYE	36,551	34,779	30,355	28,977
COHO*	5,216	5,869	993	168
Adults	4,803	5,869	993	168
Jacks	413	**	**	**
SHAD	7,067	**	**	**
LAMPREY	4,338	5,000	2,521	1,408
2004				
CHINOOK*	134,620	97,765	65,538	43,417
Spring*	14,541	11,876	5,099	4,793
Summer*	72,673	67,145	49,625	32,847
Fall*	47,406	18,744	10,814	5,777
Jacks	10,526	7,854	10,324	2,083
STEELHEAD	18,727	19,547	14,580	9,317
SOCKEYE	124,943	106,666	81,338	78,053
COHO*	5,624	5,814	786	291
Adults	4,830	5,982	786	291
Jacks	794	**	**	**
SHAD	10,589	**	**	**
LAMPREY	2,647	2,362	1,043	403
2005				
CHINOOK*	109,429	80,942	56,064	40,220
Spring*	14,663	16,969	6,897	4,996
Summer*	63,125	54,121	44,665	31,763
Fall*	31,641	9,852	4,502	3,461
Jacks	2,765	3,746	3,287	1,248
STEELHEAD	12,472	12,409	9,710	7,203
SOCKEYE	74,563	71,226	55,570	55,559
COHO*	1,260	6,580	1,225	348
Adults	1,173	6,580	1,225	348
Jacks	87	**	**	**
SHAD	10,254	**	**	**
LAMPREY	2,598	2,267	404	212
2006				
CHINOOK*	87,086	81,777	54,600	36,615
Spring*	8,616	12,254	6,232	4,376
Summer*	57,792	63,962	44,077	27,196
Fall*	20,678	5,561	4,291	5,043
Jacks	2,464	4,176	3,169	3,445
STEELHEAD	10,408	9,382	8,124	6,674
SOCKEYE	26,710	35,132	25,377	22,075
COHO*	3,813	5,597	1,523	409
Adults	3,205	5,597	1,523	409
Jacks	608	**	**	**
SHAD	281	**	**	**
LAMPREY	4,381	1,326	370	21

ASSUMED DATES FOR CHINOOK RUNS (MAY VARY FROM PREVIOUS YEARS)

SPRING	15 APR -	14 APR -	14 APR -	1 MAY -
	13 JUN	23 JUN	23 JUN	28 JUN
SUMMER	14 JUN -	24 JUN -	24 JUN -	29 JUN -
	13 AUG	1 SEP	1 SEP	28 AUG
FALL	14 AUG -	2 SEP -	2 SEP -	29 AUG -
	15 NOV	14 NOV	14 NOV	15 NOV

*Includes jack counts.

TABLE 3 and TABLE 4

STEELHEAD OVER COLUMBIA AND SNAKE RIVER DAMS 1953-2006

BY RUN-YEAR (JUNE 1 - MAY 31)

Information Below Concerns the Following Two Tables

Estimating the size of the upriver steelhead run has previously been hampered because of the calendar year approach used in the summary tables. Problems in accountability arise due to over wintering behavior of summer steelhead, especially Snake River stocks, which often have sizeable proportions of the run remaining below mainstem projects during the winter months. Migration of these steelhead commences again the following spring when warming reservoir temperatures trigger upstream movement. For this reason, an additional table has been prepared that summarizes steelhead trout counts at each project on a "fish year" basis: June 1 - May 31. Because all stocks of steelhead cross Bonneville Dam during the calendar year, those summary counts have not been modified.

Footnotes for the Following Two Tables

*Because counting started at each dam early in the year after construction was complete, these figures are for the latter part of the run year only. That part of the run year starting after June 1st of the previous 'year passed the dams without being counted.

**1981 was the last year visual counts were made at Little Goose Project until 1991.

TABLE 3
 STEELHEAD OVER COLUMBIA AND SNAKE RIVER DAMS 1953 - 2006
 BY RUN-YEAR (JUNE 1 - MAY 31)

RUN-YEAR	THE DALLES	JOHN DAY	MCNARY	ICE HARBOR	LOWER MONUMENTAL	LITTLE GOOSE**	LOWER GRANITE
1953-54			8,252 *				
1954-55			72,913				
1955-56			84,434				
1956-57	3,531 *		40,660				
1957-58	128,124		105,136				
1958-59	120,170		87,413				
1959-60	155,892		111,288				
1960-61	110,955		95,556				
1961-62	134,740		104,679	9,474 *			
1962-63	163,125		163,333	108,186			
1963-64	118,899		113,676	76,788			
1964-65	110,509		99,872	58,025			
1965-66	142,376		120,469	62,566			
1966-67	144,267		144,461	64,987			
1967-68	122,231	6,598 *	83,948	47,536			
1968-69	147,844	122,649	107,806	85,273	16,240 *		
1969-70	111,617	81,623	74,933	58,172	63,269	9,256 *	
1970-71	99,319	81,238	68,598	54,445	58,430	54,257	
1971-72	151,329	117,402	110,450	66,196	68,704	70,867	
1972-73	135,730	149,704	95,837	63,584	66,650	63,033	
1973-74	100,924	93,951	62,158	37,245	38,288	37,099	
1974-75	71,336	40,868	26,191	12,170	14,851	13,818	2,789 *
1975-76	57,695	33,640	25,150	15,895	17,236	15,177	16,592
1976-77	83,194	59,368	54,409	24,140	21,801	21,109	22,562
1977-78	133,096	102,193	86,962	54,911	48,160	47,617	57,029
1978-79	58,995	43,554	34,580	27,252	19,849	24,050	26,473
1979-80	86,317	59,825	54,213	26,790	20,073	23,816	28,758
1980-81	93,309	77,113	63,957	47,778	32,599	36,680	37,996
1981-82	112,265	96,663	62,955	43,274	37,755	36,896	42,420
1982-83	116,178	105,438	72,246	70,236	60,775	**	72,384
1983-84	172,033	157,602	126,706	90,030	82,555		88,760
1984-85	221,299	204,595	142,246	101,008	92,947		104,417
1985-86	274,826	245,087	181,635	123,187	104,400		116,147
1986-87	280,671	234,651	193,096	142,273	121,107		129,983
1987-88	219,822	172,290	151,587	77,565	64,717		71,280
1988-89	197,669	163,283	150,361	98,950	81,324		87,137
1989-90	236,584	193,951	170,014	149,361	131,050	**	131,420
1990-91	128,123	107,117	94,522	54,370	44,518	1,070	56,865
1991-92	199,244	158,790	168,156	122,874	97,454	96,421	99,052
1992-93	233,430	197,715	197,739	166,654	136,820	118,949	128,265
1993-94	123,449	94,080	90,359	68,568	65,883	58,747	59,768
1994-95	111,378	92,362	92,568	49,450	48,231	46,258	47,302
1995-96	146,152	123,319	114,813	91,938	89,953	77,417	79,126
1996-97	162,447	156,924	124,820	101,384	96,785	82,573	86,898
1997-98	164,657	159,442	129,772	104,220	85,959	74,845	86,617
1998-99	116,262	156,628	98,606	84,135	65,173	62,641	70,721
1999-00	157,062	165,239	84,413	84,253	73,135	65,505	73,811
2000-01	205,801	219,433	131,330	126,989	113,454	102,074	116,490
2001-02	504,704	489,215	401,881	286,874	298,042	270,031	269,281
2002-03	389,119	393,339	292,034	213,944	230,466	215,586	222,050
2003-04	281,586	298,452	242,677	189,143	181,005	170,582	172,487
2004-05	240,134	232,656	210,249	169,797	154,386	146,810	151,634
2005-06	244,295	231,858	224,369	158,099	155,682	145,202	158,511
Total	8,024,714	5,919,855	6,250,488	3,969,989	3,199,726	2,188,386	2,915,025
10-Year Average	246,607	250,319	194,015	151,884	145,409	133,585	140,850

Extended video counts from participating projects included for 1996 - 2006.

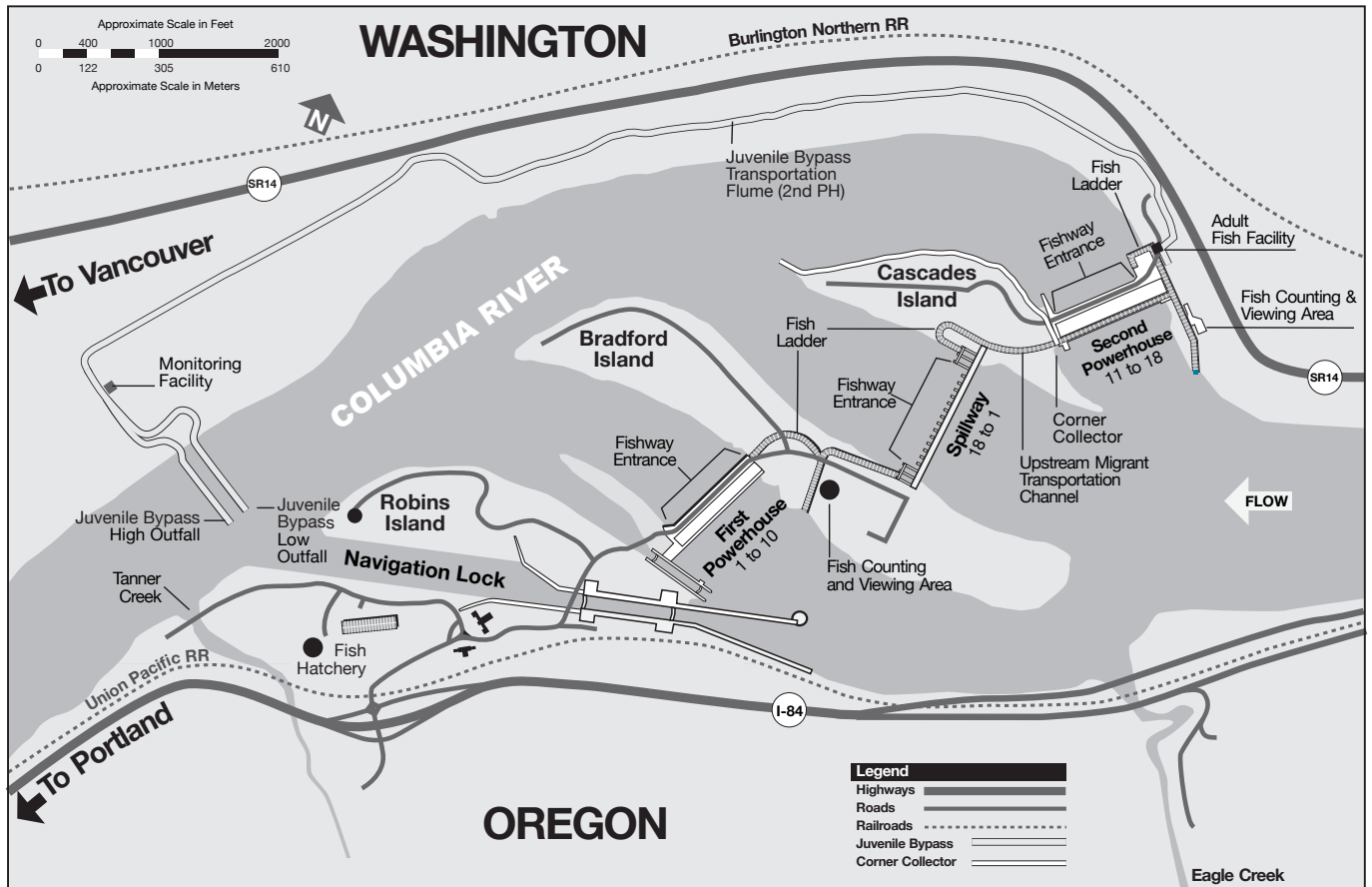
TABLE 4

STEELHEAD OVER MID COLUMBIA RIVER DAMS 1959 - 2006
BY RUN-YEAR (JUNE 1 - MAY 31)

RUN-YEAR	PRIEST RAPIDS	ROCK ISLAND	ROCKY REACH	WELLS
1959-60	810 *			
1960-61	7,277			
1961-62	8,970			
1962-63	9,408			
1963-64	8,808			
1964-65	6,137			
1965-66	9,055			
1966-67	13,159			
1967-68	8,402			
1968-69	9,672			
1969-70	6,140			
1970-71	5,764			
1971-72	11,331			
1972-73	6,006			
1973--74	6,881			
1974-75	2,955			
1975-76	2,558			44 *
1976-77	9,490			4,636
1977-78	9,632			5,464
1978-79	4,479			1,475
1979-80	8,704			3,771
1980-81	8,308			3,363
1981-82	9,122	7,607	5,567	4,107
1982-83	10,948	9,737	6,037	7,805
1983-84	32,103	29,885	19,864	19,540
1984-85	26,566	25,287	17,349	16,663
1985-86	34,007	31,813	22,621	19,712
1986-87	22,332	22,766	15,060	13,251
1987-88	14,054	12,887	7,243	5,565
1988-89	10,138	9,100	5,573	4,358
1989-90	10,720	9,244	5,991	4,577
1990-91	7,858	6,926	5,023	3,842
1991-92	14,047	11,125	7,788	7,823
1992-93	13,596	12,382	7,429	7,029
1993-94	5,405	4,689	2,738	2,359
1994-95	6,710	5,633	2,825	2,181
1995-96	4,357	4,168	1,777	951
1996-97	8,323	7,295	5,780	4,154
1997-98	8,942	7,718	6,756	4,074
1998-99	5,846	4,968	4,404	2,676
1999-00	8,267	6,346	4,848	3,514
2000-01	11,341	10,565	8,307	6,287
2001-02	30,102	28,614	22,114	18,519
2002-03	15,867	15,243	11,718	9,430
2003-04	17,729	17,633	13,919	10,016
2004-05	18,655	19,448	14,624	9,306
2005-06	12,502	12,413	9,498	7,168
Total	523,483	333,492	234,853	213,660
10-Year Average	13,757	13,024	10,197	7,514

*Partial year

Plate 2 Bonneville Lock and Dam



BONNEVILLE DAM

FISH COUNTING SCHEDULE

Jan 1 – Mar 31	Video counting daily 0400-2000 hours Pacific Standard Time.
Apr 1 – Oct 31	Visual counting daily 0400-2000 hours Pacific Standard Time.
Nov 1 – Dec 31	Video counting daily 0400-2000 hours Pacific Standard Time.

FISH FACILITIES OPERATION SCHEDULE

<i>Fish Facility</i>	<i>Date Out</i>	<i>Date In</i>	<i>Reason for Outage</i>
Bradford Island	05 Dec 2005	25 Feb 2006	Winter Maintenance
A and B branches	05 Dec 2005	25 Feb 2006	Winter Maintenance
B-branch (No AWS)	22 Sep 2006	22 Sep 2006	Sunken tribal truck salvage
BI Lamprey Ramp	21 Nov 2006	Present	Winter Maintenance
DSM1	21 Dec 2005	NA	No longer used
Cascades Island exit	07 Mar 2006	05 Oct 2006	UMT closed for VBS modifications
UMT	05 Oct 2006	Present	VBS modifications to PH2 gatewells
AFF	09 Jan 2006	01 Apr 2006	Winter Maintenance
Washington Shore	28 Feb 2006	28 Feb 2006	Oil spill response
Washington Shore	04 May 2006	04 May 2006	Oil from sunken tribal truck
DSM2	20 Dec 2005	27 Feb 2006	Winter Maintenance
DSM2	12 Apr 2006	12 Apr 2006	ERG tripped due to high debris loads clogging dewatering screens
DSM2	25 May 2006	25 May 2006	ERG tripped due to high debris loads clogging dewatering screens
DSM2	29 May 2006	29 May 2006	ERG tripped due to high debris loads clogging dewatering screens
DSM2	31 May 2006	31 May 2006	Screen cleaner repair
SMF	31 Oct 2006	Present	System in bypass for winter
B2 Corner Collector	31 Aug 2005	13 April 2006	Winter maintenance
B2 Corner Collector	03 Mar 2006	07 Mar 2006	Spring Creek release
B2 Corner Collector	31 Aug 2006	15 Nov 2006	Opened to pass debris. Closed until 2007 fish passage season.
B2 Corner Collector	21 Nov 2006	Present	Closed until 2007 fish passage season

Fishway Auxiliary Water Supply Turbines

Fish Unit 1

12 Jan	Out of Service (OOS) to float trash.
23 Jan – 01 Feb	OOS for annual overhaul.
02 Feb	OOS for floating orifice gate stab plate removal.
05 Feb	On standby to float trash.
14 Feb	OOS for remote operated vehicle fishway inspection.
10 Apr – 13 Apr	Reduced load for floating orifice gate removal and modification. Load was reduced only to allow for removal and fishways were returned to operating criteria once each gate was removed from the water.
17 Apr	Reduced load for floating orifice gate removal and modification. Load was reduced only to allow for removal and fishways were returned to operating criteria once each gate was removed from the water.
24 Apr	Reduced load for Sea Lion Exclusion Device removal.
28 Apr – 29 Apr	OOS due to governor oil leak.
01 May – 04 May	Reduced load during floating orifice gate repair for approximately one hour each day.
08 Aug	OOS for remote operated vehicle fishway inspection.
18 Aug	OOS for governor calibration and tuning.
14 Nov	On standby for gland water leak repairs.

Fish Unit 2

09 Jan – 18 Jan	OOS for annual overhaul.
02 Feb	OOS for floating orifice gate stab plate removal.
05 Feb	On standby to float trash.
14 Feb	OOS for remote operated vehicle fishway inspection.
10 Apr – 13 Apr	Reduced load for floating orifice gate removal and modification. Load was reduced only to allow for removal and fishways were returned to operating criteria once each gate was removed from the water.
17 Apr	Reduced load for floating orifice gate removal and modification. Load was reduced only to allow for removal and fishways were returned to operating criteria once each gate was removed from the water.
24 Apr	Reduced load for Sea Lion Exclusion Device removal.
29 Apr	On standby for repairs to Fish Unit 1.
01 May – 04 May	Reduced load during floating orifice gate repair for approximately one hour each day.
06 May	OOS due to governor problems.
08 Aug	OOS for remote operated vehicle fishway inspection.
21 Aug	OOS for governor calibration and tuning.
21 Oct – 23 Oct	OOS due to an exciter problem.

FISHWAY ACTIVITIES

United States Geological Survey (USGS) conducted a study evaluating the comparative delayed mortality of transported and in-river migrating juvenile salmon in the Columbia

River basin. Assessed the physiological and health status as well as the relevance of size selective predation on juvenile spring Chinook salmon that have been barged and those that have experienced different bypass histories during their in-river migration.

USGS also conducted work for the Bradford Island Remediation Investigation. USGS collected fish, fish tissues, and invertebrates from the forebay around Bradford Island to be analyzed for potential accumulation of contaminants.

USGS surgically tagged and held Pacific lamprey in the Fingerling Experimental Research Laboratory (FERL) at Bonneville Dam to assess tagging effects. Lamprey were collected at Willamette Falls, tagged in the FERL, and held in 3 raceways within the FERL for observation of tagging effects.

National Oceanic and Atmospheric Administration (NOAA) assessed the health of hatchery juvenile salmon relative to in-river and transportation life histories. Fish from both groups were collected at Bonneville Dam and transported to the Hatfield Marine Science Center in Newport OR where the fish were evaluated for disease resistance.

NOAA also conducted an evaluation of delayed mortality of juvenile subyearling Chinook salmon during extended rearing in seawater at the Juvenile Monitoring Facility (JMF). They operated the seawater system to determine differential delayed mortality of subyearlings captured from the intakes of McNary Dam turbines operating at two different loads.

NOAA conducted a test of the PIT tag detection system in Bonneville Dam's corner collector located at the second powerhouse. Both tagged drones and small numbers of tagged fish were released into the corner collector to evaluate the detection efficiency of the new system.

NOAA conducted a bypass system transport flume evaluation. They did test releases of PIT tagged, river-run, hatchery origin yearling Chinook to determine passage timing and effects (mortality, injury, and descaling) for fish passing through the flume.

NOAA conducted an estuary survival study using acoustic tags. Fish were collected at the JMF, tagged, and released back to the river.

NOAA conducted a study to investigate the role of disease as a factor affecting survival of juvenile salmonids in the estuarine and marine environment. Juvenile coho, yearling Chinook and subyearling Chinook were collected at the JMF to determine the extent to which pathogens contribute to delayed mortality of salmonid populations as they travel through the estuary.

Battelle conducted a project looking at the molecular effects of transported versus in-river migration of juvenile Chinook salmon. The project included the harvest of relevant tissues for mRNA micro-array analysis and tissue biochemical studies to determine molecular stress signatures between groups. Fish were collected at Bonneville Dam and transported to Battelle's research lab in Richland, WA.

Pacific Northwest National Laboratory (PNNL) evaluated acoustic telemetry detectability, survival, and sample sizes required to provide desired levels of precision and power for future survival studies at The Dalles and Bonneville Dams. The long term goal is to develop an unbiased method of estimating survival using acoustic telemetry by continually identifying and minimizing tag effects.

USDA-APHIS-WS conducted hazing activities on sea lions in the Bonneville Dam tailrace. Non-lethal hazing techniques included 15 mm screamer shells, cracker shells, and rockets.

The Columbia River Inter-Tribal Fish Commission (CRITFC) again used the second powerhouse Adult Fish Facility (AFF) to collect salmonids. Fish scales were sampled (to determine age) and biological data collected. The work helps satisfy a requirement of the U.S. - Canada Pacific Salmon Treaty to identify "indicator stocks". These stocks are monitored to annually evaluate the success of a program designed to rebuild depressed Columbia River salmon populations. All fish were immediately returned to the fish ladder.

CRITFC also took on the task of collecting adult steelhead in the AFF. They trapped steelhead to determine the number and timing of ESA listed steelhead stocks passing Bonneville Dam. The study also assessed stock composition at Bonneville and in the treaty fishery. The study is required by the U.S. v. Oregon Technical Advisory Committee (TAC) which included NMFS and USFWS. All fish trapped were immediately returned to the fish ladder.

Confederated Tribes of the Umatilla Indian Reservation (CTUIR) collected adult Pacific lamprey from the AFF for reintroduction into the Umatilla River.

University of Idaho continued to radio tag and track chinook and steelhead at Bonneville. Data collected is used to assess fallback rates, passage times and routes, and survival of salmonids through hydro-facilities as they continue to the Snake River.

University of Idaho also collected and tagged Pacific lamprey in the AFF to evaluate a lamprey passage structure in the Bradford Island fish ladder as well as to conduct a lamprey swimming performance study in the AFF test flume.

The Fish Passage Center continued to coordinate a fishway inspection program that involved monthly fishway inspections by a NOAA Fish inspector at Bonneville.

Pacific States Marine Fisheries Commission (PSMFC) used the juvenile bypass system fish sampling facilities at Bonneville Second Powerhouse to monitor passage of downstream migrants. PH2 JBS work included pit tag sampling and smolt indexing. PH2 sampling ended on 31 October.

PSMFC continued to maintain adult PIT tag detection in all fishways.

The following agencies participated at Bonneville Dam in the BPA funded Northern Pikeminnow management and research program. Pikeminnows are predators on juvenile salmonids and are believed to cause significant impact, particularly at locations such as the first powerhouse forebay, because prey and predators collect in large numbers.

- The Oregon Department of Fish & Wildlife (ODFW) sampled pikeminnow populations in many areas in the Columbia River including areas within Bonneville's boat restricted zones. Pikeminnow were collected by electrofishing from boats. ODFW is evaluating effectiveness of population control measures.
- The Washington Department of Fish & Wildlife implemented the sport reward fishery.
- Pacific States Marine Fisheries Commission implemented a hook and line angling study from the dam and the tailrace to estimate pikeminnow presence and abundance. A five person crew sampled for pikeminnow from various locations both on Bonneville Dam and in the tailrace

The WDFW and ODFW cooperated in conducting special fish counting again this year to estimate passage for tule and bright stock fall chinook. The numbers are used for in-season predictions and to assess final run size. This program was implemented in 1979.

The WDFW counted adult fish under contract with the U.S. Army Corps of Engineers. Fish were counted according to the schedule above for 50 minutes of each hour. The 50 minute totals were multiplied by a factor of 1.2 to estimate passage for each full hour.

TABLE 5

MONTHLY TOTALS OF SALMONID, SHAD AND LAMPREY COUNTED OVER BONNEVILLE DAM
YEAR 2006 COUNTS FROM JANUARY 1 THROUGH DECEMBER 31

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV**	DEC	TOTAL
CHINOOK*		1	35	7,030	92,300	71,473	30,401	55,410	236,605	28,653	4,536	90	526,534
STEELHEAD	1,587	446	944	1,174	1,537	7,172	46,912	154,325	104,659	13,400	5,750	1,235	339,141
SOCKEYE					9	27,398	9,518	129	12				37,066
COHO*								12,771	58,048	35,014	4,192	28	110,053
CHUM									1	28	126		155
PINK							3	2	1				6
TOTAL	1,587	447	979	8,204	93,846	106,043	86,834	222,637	399,326	77,095	14,604	1,353	1,012,955
SHAD					205,664	3,555,887	197,303	6,400					3,965,254
LAMPREY				1	446	8,874	18,603	6,868	4,013	122	13		38,940
STURGEON				1	0	1	4	8	5	3			22

*Jacks included

**Counts were taken from 0400-2000 PST Jan 1 - Dec 31. Visual counting occurred Apr 1 - Oct 31.

Video counting occurred Jan 1 - Mar 31 and Nov 1 - Dec 31.

Lamprey are not counted during video counts. Shad are not counted after September 1.

TABLE 6

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT
JANUARY 2006

DATE	FISH COUNTS						RIVER CONDITIONS											
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jan 1								10		1					201.1	0.5	2.0	41.0
Jan 2								-2		0					206.7	0.5	1.0	41.0
Jan 3								-7		0					207.3	0.6	1.0	41.0
Jan 4								16		2					175.0	0.5	1.5	41.0
Jan 5								15		1					177.5	0.5	1.0	41.0
Jan 6								36		2					152.0	0.5	1.5	41.0
Jan 7								130		1					164.2	0.5	2.0	42.0
Jan 8								147		8					153.5	0.5	2.0	42.0
Jan 9								98		8					163.4	0.6	2.0	40.0
Jan 10								55		-2					186.0	0.6	2.0	42.0
Jan 11								38		0					193.9	0.5	2.0	42.0
Jan 12								1		-1					222.0	14.8	1.5	43.0
Jan 13								71		-1					229.8	36.8	2.0	43.0
Jan 14								63		3					216.2	22.8	3.0	42.0
Jan 15								78		5					196.2	0.5	3.5	42.0
Jan 16								81		8					197.0	0.5	3.5	42.0
Jan 17								65		4					210.8	12.5	4.0	42.0
Jan 18								46		0					225.2	11.5	3.0	42.0
Jan 19								36		3					211.5	6.4	4.0	42.0
Jan 20								21		5					254.6	44.3	4.0	42.0
Jan 21								59		7					204.9	7.7	4.0	42.0
Jan 22								49		4					204.3	0.5	5.0	42.0
Jan 23								65		8					180.7	0.5	2.0	42.0
Jan 24								43		1					179.7	0.6	3.0	42.0
Jan 25								70		9					184.4	0.6	4.0	42.0
Jan 26								62		9					175.5	0.5	4.0	42.0
Jan 27								58		6					173.4	0.5	5.0	42.0
Jan 28								33		1					162.0	0.6	5.5	42.0
Jan 29								40		7					150.6	0.6	4.5	42.0
Jan 30								70		6					188.9	0.6	4.2	42.0
Jan 31								40		0					199.8	0.6	4.0	42.0
TOTAL								1,587		105								
AVG								51		3					191.9	5.5	3.0	41.8

Note: January 1 to March 31 counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. No video from the 5th-11th and the 23rd at Cascades Island ladder. Missing 11 hours on the 12th at Cascades Island ladder.

TABLE 7

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT
FEBRUARY 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON	DISCH KCFs	SPILL KCFs	TURBIDITY	
	SPRING	SUMMER	FALL														SECCHI	DEG F
Feb 1	0							41	-1						206.6	0.6	5.0	42.0
Feb 2	0							30	-1						197.9	0.5	4.0	42.0
Feb 3	0							43	8						203.2	0.6	4.2	42.0
Feb 4	0							42	5						154.1	0.6	4.0	42.0
Feb 5	0							19	1						187.0	0.6	3.5	42.0
Feb 6	0							18	3						205.2	0.5	4.5	42.0
Feb 7	0							8	2						205.4	0.6	5.0	42.0
Feb 8	0							22	1						201.4	0.6	5.0	41.0
Feb 9	0							10	2						182.6	0.6	4.0	41.0
Feb 10	0							9	2						187.7	0.6	4.0	41.0
Feb 11	0							28	9						165.5	0.6	5.0	41.0
Feb 12	0							19	1						161.5	0.6	5.9	41.0
Feb 13	0							23	7						181.2	0.6	6.0	41.0
Feb 14	0							14	1						189.4	0.6	6.0	41.0
Feb 15	0							17	3						168.5	0.6	6.0	41.0
Feb 16	0							13	2						186.7	0.7	6.0	41.0
Feb 17	0							5	2						196.3	0.6	4.0	41.0
Feb 18	0							4	1						182.7	0.6	4.0	39.0
Feb 19	0							5	0						175.4	0.6	4.3	39.0
Feb 20	0							4	1						164.2	0.6	6.0	39.0
Feb 21	0							2	0						178.3	0.6	6.0	39.0
Feb 22	1							10	3						154.5	0.7	4.5	39.0
Feb 23	0							14	2						171.0	0.6	4.5	40.0
Feb 24	0							7	2						192.7	0.6	5.0	40.0
Feb 25	0							4	2						188.2	0.9	4.5	40.0
Feb 26	0							25	7						142.6	1.2	4.5	39.0
Feb 27	0							24	4						162.5	1.2	5.0	39.0
Feb 28	0							-14	-2						172.7	1.2	6.0	39.0
TOTAL	1							446	67									
AVG	0							16	2						180.9	0.7	4.9	40.6

Note: January 1 to March 31 counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Video was disrupted on the 19th and 20th, at Cascades Island.

TABLE 8

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT
MARCH 2006

DATE	FISH COUNTS										RIVER CONDITIONS						
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI
	SPRING	SUMMER	FALL														
Mar 1	0							54	9					200.3	1.3	5.2	39.0
Mar 2	0							10	1					170.2	1.4	5.5	40.0
Mar 3	0							35	7					148.4	1.5	6.5	40.0
Mar 4	0							36	4					128.6	1.4	6.5	40.0
Mar 5	0							113	23					145.4	1.4	5.0	41.0
Mar 6	0							52	4					168.6	1.3	5.0	41.0
Mar 7	0							45	7					185.8	1.3	4.5	41.0
Mar 8	0							37	5					178.7	1.3	5.0	42.0
Mar 9	1							49	9					183.8	1.4	4.0	42.0
Mar 10	0							38	8					184.0	1.4	5.0	41.0
Mar 11	0							16	0					183.3	1.3	5.0	41.0
Mar 12	0							21	-3					169.8	1.3	6.0	41.0
Mar 13	0							-51	-15					168.2	1.3	5.5	42.0
Mar 14	0							35	8					151.2	1.4	5.0	42.0
Mar 15	0							-12	-6					188.5	1.4	5.5	42.0
Mar 16	0							27	3					176.3	1.3	6.0	42.0
Mar 17	1							11	-1					155.5	1.3	5.2	43.0
Mar 18	0							22	2					124.8	1.3	5.0	43.0
Mar 19	1							7	0					145.3	1.3	5.9	43.0
Mar 20	0							27	2					159.9	1.3	5.5	43.0
Mar 21	1							14	2					150.8	1.3	6.0	44.0
Mar 22	0							11	0					178.3	1.2	6.0	44.0
Mar 23	1							31	5					169.1	1.4	5.0	44.0
Mar 24	1							30	8					115.3	1.3	5.0	44.0
Mar 25	1							21	1					144.9	1.3	6.0	44.0
Mar 26	1							29	6					136.3	1.3	6.1	44.0
Mar 27	5							32	5					166.0	1.4	6.0	45.0
Mar 28	7							42	10					194.2	1.4	6.5	45.0
Mar 29	5							62	10					169.7	1.3	5.5	45.0
Mar 30	9							50	5					179.0	1.4	5.5	45.0
Mar 31	1							50	4					203.6	1.3	5.5	46.0
TOTAL	35							944	123								
AVG	1							30	4					165.3	1.3	5.5	42.5

Note: January 1 to March 31 counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Visual counting started April 1. Official Spring Chinook run started March 15. January, February, and March 1-14 Chinook counts were not added to spring totals.

TABLE 9

MONTHLY FISH PASSAGE SUMMARY REPORT
 U.S. ARMY ENGINEER DISTRICT, PORTLAND
 FISH COUNTS

BONNEVILLE PROJECT
 APRIL 2006
 RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD		PINK CHUM	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL						STEELHEAD	STEELHEAD							SECCHI	DEG F
Apr 1	1			0				70	15				0	0	188.5	1.5	6.0	47.0
Apr 2	8			0				42	8				0	0	199.8	1.2	5.0	47.0
Apr 3	4			0				31	5				0	0	191.3	1.5	3.5	47.0
Apr 4	12			0				32	14				0	0	218.5	12.6	5.0	47.0
Apr 5	20			0				55	20				0	0	221.3	16.8	5.0	47.0
Apr 6	16			0				74	35				0	0	283.8	73.9	3.5	48.0
Apr 7	5			0				82	38				0	0	328.5	125.7	3.0	48.0
Apr 8	10			0				77	24			1	0	297.2	90.7	3.5	48.0	
Apr 9	9			0				53	31			0	0	268.6	63.5	6.0	48.0	
Apr 10	8			0				33	12			0	0	322.4	113.6	3.5	48.0	
Apr 11	6			0				26	8			0	0	348.6	143.2	4.0	48.0	
Apr 12	7			0				61	26			0	0	329.1	127.9	2.5	48.0	
Apr 13	14			-1				36	12			0	0	319.7	115.3	2.5	49.0	
Apr 14	15			0				48	26			0	0	323.1	114.8	2.5	48.0	
Apr 15	11			0				26	7			0	0	332.7	123.6	2.5	49.0	
Apr 16	23			0				28	9			1	0	358.5	149.4	2.0	48.0	
Apr 17	10			0				24	9			0	1	359.6	156.1	2.0	49.0	
Apr 18	33			0				31	10			0	0	369.6	150.8	3.0	49.0	
Apr 19	32			0				40	16			0	0	362.2	122.6	3.0	49.0	
Apr 20	36			0				28	8			0	0	366.8	129.4	2.5	49.0	
Apr 21	48			0				16	2			0	0	334.4	97.8	2.5	49.0	
Apr 22	63			0				19	2			0	0	320.1	83.6	2.5	50.0	
Apr 23	61			0				17	3			0	0	323.0	83.4	2.5	50.0	
Apr 24	246			2				26	8			0	0	325.2	93.4	2.5	50.0	
Apr 25	440			4				17	5			0	0	329.8	104.5	3.0	50.0	
Apr 26	387			0				37	12			0	0	320.9	103.9	2.5	51.0	
Apr 27	680			8				31	18			-1	0	343.7	120.1	3.0	50.0	
Apr 28	750			7				25	16			0	0	335.8	112.0	3.0	51.0	
Apr 29	1,464			10				52	15			0	0	312.6	100.9	3.0	52.0	
Apr 30	2,573			8				37	10			0	0	318.6	100.5	2.8	52.0	
TOTAL	6,992			38				1,174	424			1	1					
AVG	233			1				39	14			0	0	308.5	94.5	3.3	48.9	
RUN YEAR																		
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK					STEELHEAD	WILD STEELHEAD			LAMPREY	STURGEON					
SPRING		7,026	38					1,628	480			1	1					

TABLE 10

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT
MAY 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	WILD			PINK CHUM	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL				SOCKEYE	STEELHEAD	STEELHEAD							SECCHI	DEG F
May 1	2,602			15			0	24	3		0	0		340.1	119.5	2.5	52.0
May 2	2,425			6			0	28	11		0	1		382.8	159.9	2.5	52.0
May 3	1,261			7			0	22	4		0	4		378.4	152.2	2.5	53.0
May 4	2,140			18			0	35	10		0	1		364.5	140.8	3.0	54.0
May 5	3,991			31			0	41	9		1	0		316.0	99.4	2.5	54.0
May 6	8,647			71			0	25	6		6	12		296.6	95.0	3.0	54.0
May 7	7,704			83			0	36	8		7	2		317.3	95.6	3.0	54.0
May 8	5,828			56			0	35	10		18	10		318.8	96.3	2.5	54.0
May 9	4,028			56			0	31	7		4	0		320.8	92.6	3.0	54.0
May 10	5,051			108			0	59	12		67	1		315.2	94.6	3.0	54.0
May 11	7,828			192			0	52	19		112	8		296.7	90.5	4.0	55.0
May 12	5,649			191			0	47	10		70	8		284.2	85.1	3.4	55.0
May 13	4,334			187			0	44	11		72	4		302.7	84.4	4.0	55.0
May 14	3,428			202			0	45	14		222	2		274.0	84.2	4.3	55.0
May 15	3,741			248			0	67	14		7,541	2		291.5	82.3	3.8	56.0
May 16	2,303			160			0	63	14		4,047	17		276.1	79.6	4.5	56.0
May 17	2,774			216			0	63	20		6,448	7		301.6	77.4	4.0	57.0
May 18	1,935			127			0	80	18		7,318	11		345.8	120.9	3.5	57.0
May 19	1,845			93			0	44	10		6,381	7		371.8	146.9	3.0	58.0
May 20	1,812			133			0	43	11		23,121	-2		377.6	152.8	4.0	58.0
May 21	1,638			89			0	60	17		38,267	-4		380.7	155.2	3.0	59.0
May 22	1,192			88			0	58	16		23,620	21		379.1	156.2	2.8	59.0
May 23	1,187			82			0	44	10		25,082	14		386.4	159.9	3.5	59.0
May 24	1,387			78			1	63	6		15,507	82		389.6	167.0	3.5	59.0
May 25	1,070			71			0	64	17		11,801	47		395.8	167.8	3.5	60.0
May 26	1,045			57			0	57	11		9,729	58		373.0	149.4	3.0	60.0
May 27	774			42			0	62	11		3,886	26		391.5	163.3	4.0	59.0
May 28	583			41			0	62	12		3,088	20		386.6	160.8	3.2	59.0
May 29	350			30			2	73	15		1,934	50		393.0	170.0	3.0	58.0
May 30	420			41			0	54	7		5,737	21		402.9	179.0	2.0	58.0
May 31	458			51			6	56	16		11,578	16		366.1	142.8	2.0	58.0
TOTAL	89,430			2,870			9	1,537	359		205,664	446					
AVG	2,885			93			0	50	12		6,634	14		345.7	126.5	3.2	56.3
RUN YEAR																	
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK				SOCKEYE	STEELHEAD	STEELHEAD		SHAD	LAMPREY	STURGEON				
SPRING		96,456	2,908				9	3,165	839		205,664	447	1				

TABLE 11

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT
JUNE 2006

DATE	FISH COUNTS			FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON	DISCH KCFs	SPILL KCFs	TURBIDITY SECCHI	DEG F
Jun 1		672		61			2	73	14			32,224	21	0	335.6	127.0	2.2	58.0
Jun 2		952		54			14	72	20			33,574	45	0	324.1	102.8	2.0	57.0
Jun 3		1,235		66			24	96	21			71,752	54	0	323.3	102.6	2.0	58.0
Jun 4		1,267		42			29	98	10			100,802	78	0	335.0	109.5	1.4	58.0
Jun 5		1,363		54			45	99	19			128,536	116	0	336.6	121.5	3.0	58.0
Jun 6		1,435		66			73	130	37			124,187	323	0	352.7	134.8	3.0	59.0
Jun 7		1,278		54			107	119	35			176,050	281	0	363.7	149.5	3.0	60.0
Jun 8		2,574		59			93	147	33			255,728	324	0	355.7	144.7	3.0	61.0
Jun 9		2,768		80			222	183	74			157,260	181	0	372.6	149.0	3.0	61.0
Jun 10		2,792		88			373	201	56			118,692	153	0	372.5	148.6	3.0	61.0
Jun 11		3,166		80			506	182	65			251,962	272	0	360.0	143.9	3.0	62.0
Jun 12		3,589		64			463	144	36			194,605	313	0	345.7	136.7	3.0	62.0
Jun 13		2,214		44			515	163	36			170,173	372	0	351.9	136.1	4.0	62.0
Jun 14		1,972		48			792	206	59			157,939	425	0	350.5	139.2	3.0	62.0
Jun 15		2,423		88			1,046	195	27			127,966	298	0	369.5	149.0	3.0	62.0
Jun 16		2,406		68			1,078	184	43			190,368	445	0	359.6	136.1	2.5	62.0
Jun 17		2,515		71			1,152	259	86			113,800	285	0	349.0	125.0	3.0	62.0
Jun 18		2,579		75			1,010	227	48			137,192	251	0	326.8	109.5	2.8	62.0
Jun 19		2,297		88			990	226	66			103,829	316	0	313.6	96.9	2.8	62.0
Jun 20		2,007		70			1,134	182	49			73,487	158	0	316.8	101.2	4.0	62.0
Jun 21		2,064		76			892	209	65			41,956	205	0	288.8	101.8	3.7	62.0
Jun 22		1,957		77			1,205	179	39			51,340	161	0	269.2	101.5	3.0	62.0
Jun 23		3,391		107			2,035	288	64			106,100	213	0	295.8	101.5	4.0	63.0
Jun 24		3,079		91			2,167	275	64			115,339	365	0	290.7	101.6	3.6	63.0
Jun 25		2,598		84			1,855	341	69			127,000	757	1	230.8	89.2	4.5	64.0
Jun 26		4,038		128			2,410	496	142			107,519	652	0	258.2	74.8	4.0	65.0
Jun 27		3,175		110			2,227	540	188			158,027	582	0	260.0	66.8	5.0	66.0
Jun 28		2,862		117			1,862	533	214			47,677	716	0	233.1	63.8	5.0	66.0
Jun 29		2,856		89			1,907	632	206			55,710	364	0	267.8	68.1	4.0	66.0
Jun 30		1,652		98			1,170	493	157			25,093	148	0	232.1	74.3	4.5	66.0
TOTAL		69,176		2,297			27,398	7,172	2,042			3,555,887	8,874	1				
AVG		2,306		77			913	239	68			118,530	296	0	318.1	113.6	3.3	61.8
RUN YEAR																		
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK				SOCKEYE	STEELHEAD	WILD STEELHEAD			SHAD	LAMPREY	STURGEON				
SPRING		96,456	2,908				27,407	10,337	2,881			3,761,551	9,321	2				
SUMMER		69,176	2,297															
TOTAL		165,632	5,205															

TABLE 12

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT
JULY 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	WILD				SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL				SOCKEYE	STEELHEAD	STEELHEAD	PINK						CHUM	SECCHI	DEG F
Jul 1		2,108		104	0		1,036	575	211	0		28,548	159	0	196.3	74.7	5.0	66.0
Jul 2		1,784		89	0		1,115	600	234	0		22,591	320	0	195.7	74.0	4.0	66.0
Jul 3		1,957		106	0		1,308	665	267	0		22,703	647	0	189.2	74.4	6.8	7.0
Jul 4		1,406		61	0		883	685	283	0		16,833	1059	0	187.6	75.4	5.0	66.0
Jul 5		1,761		96	0		843	766	299	0		13,877	505	1	162.6	77.5	6.0	67.0
Jul 6		1,220		59	0		588	773	321	0		9,819	234	0	186.2	82.6	6.0	67.0
Jul 7		1,041		81	0		624	873	404	0		6,288	192	0	214.8	90.0	5.0	67.0
Jul 8		1,102		52	0		426	815	366	0		6,978	212	0	220.9	88.6	5.0	67.0
Jul 9		1,118		56	0		491	996	456	0		9,026	241	0	219.5	89.2	5.4	67.0
Jul 10		1,377		93	0		327	1,239	622	0		9,233	1652	0	203.7	90.3	6.0	68.0
Jul 11		800		97	0		249	1,301	643	0		5,888	780	0	233.5	92.2	5.0	69.0
Jul 12		1,148		58	0		181	1,379	678	0		4,530	598	0	191.4	92.3	4.5	69.0
Jul 13		900		50	0		168	1,776	837	0		5,047	580	0	191.9	91.8	6.0	69.0
Jul 14		753		62	0		126	1,379	611	0		4,324	949	0	194.1	92.1	6.5	69.0
Jul 15		632		43	0		123	1,283	582	0		3,992	717	0	176.6	91.1	6.0	69.0
Jul 16		730		60	0		126	1,385	602	0		3,071	719	0	171.6	88.8	6.0	69.7
Jul 17		789		75	0		131	1,615	728	0		2,355	1151	0	195.2	89.1	5.0	70.0
Jul 18		710		75	0		94	1,525	715	0		2,122	755	0	178.2	92.1	5.0	70.0
Jul 19		813		68	0		101	1,907	866	0		2,427	499	1	166.1	90.1	5.0	70.0
Jul 20		763		73	0		85	1,920	901	0		1,962	578	0	183.6	92.3	7.0	70.0
Jul 21		587		63	0		85	2,197	948	0		2,443	449	0	194.5	89.7	4.7	69.0
Jul 22		800		79	0		89	2,290	990	0		4,422	525	0	158.8	86.6	6.5	70.0
Jul 23		762		71	0		77	2,673	1,121	0		2,250	720	0	160.4	86.3	4.5	71.0
Jul 24		555		48	0		51	2,293	930	0		1,092	1261	0	180.4	82.8	5.0	71.0
Jul 25		527		53	0		31	2,684	1,077	0		1,223	864	0	161.3	74.4	6.0	71.0
Jul 26		291		43	0		42	2,452	896	0		739	429	0	193.9	75.1	5.5	73.0
Jul 27		321		41	0		24	1,979	775	1		853	481	0	162.7	80.0	5.0	73.0
Jul 28		306		48	0		19	1,615	615	2		917	328	0	153.2	87.8	5.0	73.0
Jul 29		314		54	0		29	1,520	610	0		466	493	1	167.4	87.8	4.5	72.0
Jul 30		459		44	0		20	1,474	588	0		778	326	1	154.8	87.9	6.0	72.0
Jul 31		509		56	1		26	2,278	938	0		506	180	0	150.0	88.0	6.0	71.0
TOTAL		28,343		2,058	1		9,518	46,912	20,114	3		197,303	18,603	4				
AVG		914		66			307	1,513	649			6,365	600	0	183.7	85.6	5.4	67.4

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	96,456	2,908
SUMMER	97,519	4,355
TOTAL	193,975	7,263

WILD			
SOCKEYE	STEELHEAD	STEELHEAD	PINK
36,925	57,249	22,995	3

SHAD	LAMPREY	STURGEON
3,958,854	27,924	6

TABLE 13

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT
AUGUST 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL														SECCHI	DEG F
Aug 1			588	53	0	0	24	2,797	965	0		328	239	0	138.8	86.0	6.0	71.0
Aug 2			540	70	4	2	25	3,734	1,336	0		437	221	1	142.5	84.8	7.0	71.0
Aug 3			404	75	0	0	15	4,036	1,384	0		455	141	0	160.9	90.4	6.0	71.0
Aug 4			456	59	1	1	10	4,667	1,481	0		602	322	0	143.9	92.0	6.5	71.0
Aug 5			344	45	6	0	4	4,913	1,443	0		339	244	0	143.3	91.7	6.0	71.0
Aug 6			445	59	7	2	10	5,853	1,800	0		315	436	2	137.6	90.3	6.6	70.0
Aug 7			433	69	8	0	4	6,142	1,738	0		408	554	0	137.2	87.4	7.0	70.0
Aug 8			337	27	14	1	1	4,917	1,473	0		274	463	2	134.9	86.7	7.0	71.0
Aug 9			452	59	17	2	5	7,694	2,032	1		495	300	0	152.5	87.1	5.5	72.0
Aug 10			324	43	21	2	7	5,943	1,477	0		314	243	0	149.0	88.8	5.5	71.0
Aug 11			268	31	15	1	3	4,522	1,246	0		318	241	0	134.9	88.9	5.0	71.0
Aug 12			420	39	19	3	5	3,911	1,069	0		203	73	1	126.4	83.5	6.5	71.0
Aug 13			578	43	52	6	4	4,783	1,263	0		157	72	0	125.7	82.6	*	70.0
Aug 14			564	43	70	8	2	4,557	1,116	0		174	163	0	122.5	79.7	6.5	*
Aug 15			676	59	80	2	3	5,189	1,162	0		150	400	0	119.1	76.5	6.0	70.0
Aug 16			591	78	77	4	2	5,779	1,321	0		116	255	2	122.4	79.5	5.3	71.0
Aug 17			729	94	72	7	2	5,949	1,283	0		85	169	0	132.4	85.7	5.5	71.0
Aug 18			472	90	53	10	1	5,123	1,006	0		26	202	0	159.7	89.9	7.0	70.0
Aug 19			623	77	60	5	0	4,458	942	0		152	289	0	141.7	93.1	7.0	70.0
Aug 20			977	79	84	1	-1	4,188	897	0		96	138	0	134.6	89.6	7.0	70.0
Aug 21			1,093	108	121	9	0	4,190	938	0		94	192	0	129.0	85.9	7.0	70.0
Aug 22			1,782	155	235	12	0	3,939	868	0		106	206	0	143.3	87.2	7.0	71.0
Aug 23			1,543	134	335	27	1	4,548	968	1		291	109	0	139.8	84.0	6.0	71.0
Aug 24			2,103	175	589	30	1	4,965	1,164	0		54	84	0	147.6	86.7	7.0	71.0
Aug 25			2,867	250	1,072	18	0	3,849	799	0		72	134	0	156.7	88.9	7.0	70.0
Aug 26			4,213	314	1,779	32	1	4,403	834	0		67	158	0	185.0	89.1	7.0	70.0
Aug 27			4,677	300	1,806	28	0	4,960	941	0		63	200	0	149.8	86.8	7.0	70.0
Aug 28			6,658	390	2,031	26	0	6,689	1,159	0		51	160	0	126.2	80.0	7.0	70.0
Aug 29			5,802	364	1,661	52	0	6,891	1,279	0		138	238	0	144.7	84.5	6.3	71.0
Aug 30			5,005	358	1,127	41	0	5,677	1,015	0		3	180	0	146.2	85.4	7.0	71.0
Aug 31			5,248	458	987	36	0	5,059	880	0		17	42	0	130.7	87.6	7.0	71.0
TOTAL			51,212	4,198	12,403	368	129	154,325	37,279	2		6,400	6,868	8				
AVG			1,652	135	400	12	4	4,978	1,203			206	222	0	140.6	86.5	6.5	70.6

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	96,456	2,908
SUMMER	97,519	4,355
FALL	51,212	4,198
TOTAL	245,187	11,461

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK
12,403	368	37,054	211,574	60,274	5

SHAD	LAMPREY	STURGEON
3,965,254	34,792	14

*Data unavailable

TABLE 14

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT
SEPTEMBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	WILD					SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL				SOCKEYE	STEELHEAD	STEELHEAD	PINK	CHUM						SECCHI	DEG F
Sep 1			7,703	418	1,665	89	5	4,899	904	0	0		75	0	102.1	1.8	6.0	70.0
Sep 2			10,850	474	2,051	89	1	4,326	866	0	0		163	1	100.2	1.5	7.0	70.0
Sep 3			14,793	584	2,800	115	1	5,294	1,034	0	1		176	0	100.0	1.4	7.0	69.0
Sep 4			13,271	566	2,273	102	0	6,124	1,214	1	0		231	0	95.7	1.5	7.0	69.0
Sep 5			9,666	832	1,293	133	1	4,490	724	0	0		455	0	94.6	1.5	7.0	69.0
Sep 6			7,560	865	1,757	146	2	3,190	550	0	0		377	0	105.3	1.5	7.0	69.0
Sep 7			10,797	887	4,191	157	0	4,602	801	0	0		142	0	106.4	1.5	6.5	70.0
Sep 8			12,535	705	5,257	159	1	6,145	1,272	0	0		317	1	87.1	1.5	6.5	70.0
Sep 9			14,009	685	5,294	216	0	6,831	1,243	0	0		519	0	95.3	1.5	6.5	70.0
Sep 10			6,683	485	2,973	165	0	4,923	956	0	0		526	0	94.9	1.5	6.5	70.0
Sep 11			5,203	390	1,559	95	1	4,088	770	0	0		122	1	110.3	1.5	*	70.0
Sep 12			5,659	457	1,568	191	0	4,042	874	0	0		80	0	102.8	1.5	7.0	*
Sep 13			6,795	444	1,824	178	0	3,739	762	0	0		83	0	96.1	1.5	7.0	69.0
Sep 14			5,953	427	1,182	127	0	3,051	633	0	0		44	1	110.3	1.5	7.0	69.0
Sep 15			4,846	372	819	91	0	2,727	491	0	0		42	0	110.9	1.4	7.0	69.0
Sep 16			4,716	560	829	117	0	2,590	546	0	0		15	0	84.5	1.4	7.0	69.0
Sep 17			5,217	565	780	120	0	2,720	517	0	0		32	0	82.1	1.4	7.0	67.0
Sep 18			5,621	693	717	148	0	2,833	510	0	0		74	0	82.0	1.5	6.0	67.0
Sep 19			8,682	838	1,384	459	0	5,064	935	0	0		108	0	90.0	1.0	7.0	67.0
Sep 20			9,442	996	1,360	258	0	3,641	686	0	0		123	0	100.6	1.3	7.0	67.0
Sep 21			7,908	757	1,173	191	0	3,755	686	0	0		48	0	99.7	1.3	6.0	66.0
Sep 22			9,312	1,001	1,512	335	0	2,954	510	0	0		65	0	126.6	1.4	7.0	66.0
Sep 23			4,633	655	880	109	0	2,010	406	0	0		63	0	109.6	1.4	7.0	65.0
Sep 24			3,185	651	889	109	0	1,326	252	0	0		19	0	80.8	1.4	7.0	65.0
Sep 25			3,573	617	931	171	0	1,558	259	0	0		27	0	80.9	1.4	7.0	65.0
Sep 26			4,214	492	1,055	148	0	1,748	297	0	0		27	0	83.4	1.4	6.5	65.0
Sep 27			4,764	449	1,118	174	0	1,718	318	0	0		26	0	108.8	1.4	7.0	65.0
Sep 28			4,065	477	959	162	0	1,537	265	0	0		-4	0	114.7	1.3	7.0	65.0
Sep 29			3,239	417	1,385	216	0	1,280	257	0	0		14	0	83.6	1.4	7.0	65.0
Sep 30			3,355	597	1,533	267	0	1,454	305	0	0		24	1	78.5	1.4	7.0	66.0
TOTAL			218,249	18,356	53,011	5,037	12	104,659	19,843	1	1		4,013	5				
AVG			7,275	612	1,767	168	0	3,489	661	0	0		134	0	97.3	1.4	6.8	67.7

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	96,456	2,908
SUMMER	97,519	4,355
FALL	269,461	22,554
TOTAL	463,436	29,817

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON
65,414	5,405	37,066	316,233	80,117	6	1	3,965,254	38,805	19

*Data unavailable

TABLE 15

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT
OCTOBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL														SECCHI	DEG F
Oct 1			2,064	456	1,134	161		1,109	233		1		23	1	79.6	1.4	7.0	66.0
Oct 2			2,308	343	1,239	210		1,011	186		0		16	0	91.7	1.3	6.5	66.0
Oct 3			2,928	259	1,328	156		931	165		0		20	0	95.9	1.4	7.0	65.0
Oct 4			1,843	265	1,139	112		928	190		0		7	0	116.6	1.3	7.0	65.0
Oct 5			866	105	1,384	104		614	131		0		9	1	100.7	1.3	7.0	64.0
Oct 6			1,111	151	1,600	104		683	110		0		9	0	87.2	1.3	7.0	64.0
Oct 7			927	110	1,851	88		496	87		0		4	0	99.3	1.2	7.0	64.0
Oct 8			1,811	128	1,794	93		542	89		0		2	0	108.7	1.2	5.5	64.0
Oct 9			1,324	148	1,415	84		557	102		0		0	0	111.5	1.2	7.0	63.0
Oct 10			989	101	1,362	54		500	102		0		7	0	113.3	1.2	7.0	63.0
Oct 11			733	73	1,593	67		468	88		2		0	0	103.6	1.3	7.0	62.0
Oct 12			568	49	1,090	47		358	72		0		4	1	117.9	1.3	7.0	62.0
Oct 13			421	30	1,694	56		309	81		1		1	0	115.5	1.2	7.0	62.0
Oct 14			484	46	1,220	86		219	30		0		0	0	101.8	1.3	6.0	62.0
Oct 15			763	53	2,104	59		315	74		1		0	0	88.7	1.2	7.0	63.0
Oct 16			1,112	60	1,749	98		375	79		2		5	0	102.6	1.2	7.0	63.0
Oct 17			667	47	1,269	67		347	84		1		-1	0	83.0	1.2	7.0	62.0
Oct 18			656	46	875	79		518	121		2		6	0	83.0	1.2	7.0	62.0
Oct 19			465	59	809	82		470	119		5		5	0	85.1	1.2	7.0	61.0
Oct 20			662	54	968	52		362	107		0		-4	0	92.5	1.2	7.0	61.0
Oct 21			484	25	626	74		328	86		1		0	0	109.5	1.2	7.0	61.0
Oct 22			320	24	566	50		281	64		1		8	0	88.9	1.3	7.0	61.0
Oct 23			549	40	992	62		278	59		1		2	0	100.8	1.2	7.0	60.0
Oct 24			314	34	556	81		198	57		0		-1	0	96.5	1.2	7.0	60.0
Oct 25			279	25	514	74		236	74		0		2	0	106.8	1.2	7.0	60.0
Oct 26			218	29	328	23		159	46		1		1	0	106.9	1.2	7.0	60.0
Oct 27			130	16	243	18		156	41		1		-2	0	108.5	1.2	7.0	59.0
Oct 28			105	18	372	40		224	50		0		-1	0	93.4	1.2	7.0	59.0
Oct 29			194	17	324	40		163	55		3		0	0	80.2	1.2	7.0	59.0
Oct 30			337	19	269	42		146	38		4		0	0	120.2	1.1	7.0	58.0
Oct 31			179	12	224	20		119	32		1		0	0	138.4	1.2	5.0	58.0
TOTAL			25,811	2,842	32,631	2,383		13,400	2,852		28		122	3				
AVG			833	92	1053	77		432	92		1		4	0	100.9	1.2	6.8	61.9

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	96,456	2,908
SUMMER	97,519	4,355
FALL	295,272	25,396
TOTAL	489,247	32,659

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON
98,045	7,788	37,066	329,633	82,969	6	29	3,965,254	38,927	22

TABLE 16

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT
NOVEMBER 2006

FISH COUNTS														RIVER CONDITIONS					
DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	WILD			PINK	CHUM	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL					STEELHEAD	STEELHEAD	SECCHI								DEG F	
Nov 1			187	1	120	0		137	30		6		2		136.0	1.3	7.0	57.0	
Nov 2			286	21	188	13		198	47		5		1		124.9	1.2	7.0	55.0	
Nov 3			542	36	394	22		236	67		12		1		96.3	1.2	7.0	55.0	
Nov 4			797	19	414	29		280	50		13		0		91.3	1.1	7.0	54.0	
Nov 5			796	22	529	33		257	53		14		-2		112.5	1.1	5.0	54.0	
Nov 6			708	32	561	22		401	106		25		11		124.9	1.1	3.5	55.0	
Nov 7			125	9	74	6		192	54		3		-1		157.4	1.1	2.0	55.0	
Nov 8			5	-4	7	0		60	18		0		1		212.7	37.0	0.5	55.0	
Nov 9			6	1	3	0		16	2		0		0		180.8	3.6	0.2	55.0	
Nov 10			6	0	-2	0		85	25		0		-2		180.6	1.1	0.5	54.0	
Nov 11			90	0	42	1		240	66		2		0		161.8	1.1	1.1	55.0	
Nov 12			113	0	72	0		336	68		6		0		150.9	1.1	2.0	54.0	
Nov 13			93	8	106	1		453	108		2		0		175.2	1.1	1.2	53.0	
Nov 14			74	6	292	4		458	147		0		0		144.4	1.1	0.0	52.0	
Nov 15			61	2	241	1		268	80		4		0		146.1	1.1	0.0	52.0	
Nov 16			68	6	351	2		346	111		2		1		139.2	1.2	3.0	52.0	
Nov 17			61	1	187	2		290	68		4		0		146.3	1.1	2.0	52.0	
Nov 18			86	4	159	6		326	84		0		0		135.1	1.1	3.0	52.0	
Nov 19			62	1	97	2		247	59		2		0		126.5	1.1	3.0	52.0	
Nov 20			41	1	72	1		251	46		5		0		121.4	1.1	3.5	51.0	
Nov 21			26	0	28	4		127	25		2		0		128.8	1.1	4.0	51.0	
Nov 22			28	0	30	0		141	33		3		1		113.6	1.1	4.0	51.0	
Nov 23			11	0	29	0		71	17		1		0		109.2	1.1	5.0	51.0	
Nov 24			16	0	9	2		40	6		5		0		127.8	1.2	4.0	51.0	
Nov 25			24	4	22	1		56	15		6		0		135.5	1.2	3.8	50.0	
Nov 26			8	1	3	0		28	6		0		0		136.2	1.1	3.1	50.0	
Nov 27			7	0	5	0		30	2		0		0		131.2	1.1	3.5	50.0	
Nov 28			20	0	5	0		70	23		2		0		147.5	1.1	2.5	49.0	
Nov 29			10	0	-1	1		58	13		2		0		153.0	3.0	4.0	48.0	
Nov 30			8	0	2	0		52	12		0		0		161.1	5.4	3.1	48.0	
TOTAL			4,365	171	4,039	153		5,750	1,441		126		13						
AVG			146	6	135	5		192	48		4		0		140.3	2.6	3.2	52.4	

RUN YEAR	CHINOOK		COHO		WILD			PINK	CHUM	SHAD	LAMPREY	STURGEON
	ADULT	JACK	ADULT	JACK	SOCKEYE	STEELHEAD	STEELHEAD					
TOTALS TO DATE												
SPRING	96,456	2,908			101,086	7,920	37,066	6	155	3,965,254	38,938	22
SUMMER	97,519	4,355										
FALL	299,161	25,549										
TOTAL	493,136	32,812										

Note: November 1 to December 31 counts were from video tape. The counts are 16-hour counts and occurred between 0400-2000 PST. Visual counting ended October 31. Video was disrupted resulting in lost data on November 1,3-6,-9-15, 17, 19, 20, 23, 24, and 26. Official Fall Chinook run ended November 15. Counts on November 16-30 are not included in fall totals. Pink and Chum counts are totals for the entire calendar year.

TABLE 17

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT
DECEMBER 2006

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON	RIVER CONDITIONS			
	SPRING	SUMMER	FALL												DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Dec 1			14		6	0		43	11		1		0		130.2	1.0	3.0	47.0
Dec 2			12		1	0		75	19		0		0		140.6	1.1	4.0	47.0
Dec 3			12		1	0		58	9		0		1		150.5	1.0	*	*
Dec 4			13		4	0		62	31		0		0		148.5	1.2	5.0	45.0
Dec 5			9		2	0		64	14		0		0		142.3	1.0	6.0	45.0
Dec 6			7		1	1		59	14		1		0		153.4	1.1	4.5	45.0
Dec 7			2		1	0		54	17		-1		0		153.0	1.1	4.0	44.0
Dec 8			2		1	0		77	22		2		0		151.6	1.1	3.6	44.0
Dec 9			8		0	0		30	11		6		0		136.7	0.5	4.0	44.0
Dec 10			2		0	0		21	6		0		0		137.2	0.5	4.5	44.0
Dec 11			2		-1	1		37	15		0		0		146.8	0.6	4.5	43.0
Dec 12			1		1	0		41	18		0		0		140.0	0.5	4.5	43.0
Dec 13			0		1	0		46	14		0		0		145.3	1.1	4.0	44.0
Dec 14			1		0	0		42	13		0		0		183.2	20.4	3.5	44.0
Dec 15			0		0	0		32	5		0		0		232.6	42.9	1.5	44.0
Dec 16			1		1	0		20	4		0		0		175.1	27.0	2.5	43.0
Dec 17			1		2	0		41	15		0		0		112.0	0.5	3.0	42.0
Dec 18			1		1	0		31	13		0		0		163.9	14.1	3.8	42.0
Dec 19			0		2	0		23	5		0		0		171.9	18.4	4.0	42.0
Dec 20			0		0	0		24	12		0		0		169.8	19.2	3.5	41.0
Dec 21			0		0	0		26	7		0		0		153.5	7.3	6.0	41.0
Dec 22			1		1	0		27	10		0		0		153.8	0.5	5.8	41.0
Dec 23			0		0	0		20	4		0		0		139.1	0.6	5.8	42.0
Dec 24			1		0	0		38	12		0		0		133.7	0.5	4.5	42.0
Dec 25			0		1	0		51	17		0		0		126.3	0.5	*	*
Dec 26			0		0	0		43	12		0		0		144.6	0.6	6.0	42.0
Dec 27			0		0	0		28	10		0		0		134.8	0.5	6.0	42.0
Dec 28			0		0	0		22	6		0		0		166.8	0.6	5.0	42.0
Dec 29			0		0	0		41	17		0		0		154.1	0.5	3.4	42.0
Dec 30			0		0	0		42	19		0		0		148.2	0.6	4.0	42.0
Dec 31			0		0	0		17	1		0		0		133.2	0.5	4.0	41.0
TOTAL			90		26	2		1,235	383		9		1					
AVG			3		1	0		40	12		0		0		150.7	5.4	4.3	43.1
RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK		COHO ADULT	COHO JACK		SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON				
SPRING	96,456	2,908		101,086	7,920		37,066	333,250	83,890	6	164	3,965,254	38,938	22				
SUMMER	97,519	4,355																
FALL	299,161	25,549																
TOTAL	493,136	32,812																

Note: November 1 to December 31 counts were from video tape. The counts are 16-hour counts and occurred between 0400-2000 PST. Visual counting ended October 31. Official Fall Chinook run ended November 15. December counts were not added to fall totals. Pink and Chum counts are totals for the entire calendar year.

TABLE 18

YEARLY TOTALS OF SALMONIDS COUNTED OVER BONNEVILLE DAM -- DAYTIME COUNTS
1938 - 2006

YEAR	CHINOOK*	STEELHEAD	SOCKEYE	COHO*	CHUM	PINK	TOTAL SALMONID
1938	271,799	107,003	75,040	15,185	2,117	0	471,144
1939	286,189	122,032	73,382	14,383	1,168	0	497,154
1940	391,587	185,174	148,807	11,917	1,729	0	739,214
1941	461,443	118,089	65,741	17,911	5,269	4	668,457
1942	401,942	151,800	55,464	12,402	1,865	11	623,484
1943	313,123	92,133	39,845	2,547	788	0	448,436
1944	240,764	100,518	15,072	4,207	954	1	361,516
1945	297,478	120,133	9,501	790	728	1	428,631
1946	446,052	142,807	74,376	3,898	1,178	2	668,313
1947	480,377	135,444	171,139	11,174	199	3	798,336
1948	419,555	139,062	131,541	4,081	3,636	2	697,877
1949	277,697	119,285	51,444	1,004	2,028	6	451,464
1950	357,375	114,087	77,993	10,151	1,069	8	560,683
1951	331,788	140,689	169,428	5,201	1,044	7	648,157
1952	420,879	260,990	184,645	7,768	1,505	9	875,796
1953	332,479	223,914	235,215	13,018	1,728	10	806,364
1954	320,947	176,260	130,107	4,062	1,569	4	632,949
1955	359,853	198,411	237,748	3,725	318	9	800,064
1956	300,917	131,116	156,418	6,127	693	4	595,275
1957	403,286	139,183	82,915	4,675	569	12	630,640
1958	426,419	131,437	122,389	3,673	455	6	684,379
1959	345,028	129,026	86,560	2,695	906	22	564,237
1960	256,049	113,676	59,713	3,268	1,026	0	433,732
1961	281,980	139,719	17,111	3,456	896	12	443,174
1962	286,625	164,025	28,179	14,788	1,013	27	494,657
1963	278,560	129,418	60,319	12,658	739	34	481,728
1964	344,422	117,252	99,856	53,602	632	45	615,809
1965	317,957	166,453	55,125	76,032	496	64	616,127
1966	340,111	143,661	156,661	71,891	872	58	713,254
1967	366,237	121,872	144,158	96,488	352	50	729,157
1968	341,154	106,974	108,207	63,488	79	21	619,923
1969	507,543	140,782	59,636	49,378	143	86	757,568
1970	384,780	113,510	70,762	80,116	209	150	649,527
1971	405,702	193,966	87,447	75,989	29	176	763,309
1972	394,456	185,886	56,323	65,932	1	51	702,649
1973	398,635	157,823	58,979	54,609	43	12	670,101
1974	366,759	137,054	43,837	60,955	23	2	608,630
1975	425,566	85,540	58,212	58,307	11	309	627,945

TABLE 18
(continued)

YEARLY TOTALS OF SALMONIDS COUNTED OVER BONNEVILLE DAM -- DAYTIME COUNTS
1938 - 2006

YEAR	CHINOOK*	STEELHEAD	SOCKEYE	COHO*	CHUM	PINK	TOTAL SALMONID
1976	507,773	124,177	43,611	53,150	11	2	728,724
1977	366,657	193,437	99,829	19,408	17	0	679,348
1978	394,600	104,431	18,436	52,590	28	0	570,085
1979	276,306	113,979	52,628	45,328	1	23	488,265
1980	245,518	129,254	58,882	22,052	44	0	455,750
1981	285,650	159,270	56,037	30,510	4	20	531,491
1982	322,809	157,640	50,219	73,832	12	0	604,512
1983	244,346	218,439	100,545	15,173	50	52	578,605
1984	324,425	315,560	152,541	29,487	64	8	822,085
1985	463,873	343,987	166,340	56,857	97	147	1,031,301
1986	570,881	379,891	58,123	130,853	77	23	1,139,848
1987	547,494	303,081	116,993	27,635	147	20	995,370
1988	494,025	279,072	79,714	39,620	60	6	892,497
1989	416,117	287,798	41,884	39,281	16	12	785,108
1990	340,990	183,027	49,581	24,845	26	0	598,469
1991	274,622	274,545	76,481	64,057	5	550	690,260
1992	256,299	314,975	84,992	18,126	39	24	674,455
1993	277,657	188,386	80,178	11,732	17	15	557,985
1994	243,450	161,978	12,678	22,794	26	5	440,931
1995	240,050	202,448	8,774	12,034	30	36	463,372
1996	296,635	205,213	30,252	18,747	22	1	550,870
1997	387,088	258,385	47,008	27,267	47	64	719,859
1998	280,944	185,094	13,218	49,920	21	13	529,210
1999	343,176	206,488	17,877	45,152	43	28	612,764
2000	491,905	275,178	93,398	97,032	17	0	957,530
2001	971,119	633,073	114,934	266,314	29	-4	1,985,465
2002	924,585	480,309	49,610	94,901	72	0	1,549,477
2003	992,231	361,412	39,291	133,870	411	637	1,527,852
2004	906,197	313,378	123,291	119,851	80	1	1,462,798
2005	600,415	315,650	72,971	88,791	139	22	1,077,988
2006	526,534	339,141	37,066	110,053	155	6	1,012,955
Total	27,397,884	13,404,900	5,606,677	2,842,813	39,886	2,929	49,295,089
10-Year Average	642,419	336,811	60,866	103,315	101	77	1,143,590

*Jacks included

TABLE 19

MONTHLY COUNT OF CHINOOK SALMON													BONNEVILLE DAM - 1938 - 2006			SPRING	SUMMER	FALL
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	Jan 1- May 31	Jun 1- Jul 31	Aug 1- Dec 31		
													1938					22,371
1939	6	12	121	51,410	25,159	5,602	17,828	32,909	150,851	2,197	78	16	286,189	76,708	23,430	186,051		
1940			504	37,253	28,621	7,027	14,938	58,643	240,515	3,765	287	34	391,587	66,378	21,965	303,244		
1941	4		1,360	51,486	19,445	7,013	9,395	12,590	351,967	7,179	866	138	461,443	72,295	16,408	372,740		
1942	1	15	34	9,506	30,915	11,816	12,821	27,581	303,939	4,485	639	190	401,752	40,471	24,637	336,644		
1943	11	6	43	12,172	53,268	5,440	8,044	28,985	201,414	3,354	365	21	313,123	65,500	13,484	234,139		
1944	1	2	65	15,671	15,127	4,363	8,241	55,468	139,254	2,388	164	20	240,764	30,866	12,604	197,294		
1945	6	4	81	17,148	26,276	11,293	16,317	32,254	189,675	4,281	137	6	297,478	43,515	27,610	226,353		
1946	1	2	25	14,196	53,313	30,253	20,967	45,422	277,152	4,523	173	25	446,052	67,537	51,220	327,295		
1947		2	141	83,520	49,899	25,502	13,358	43,062	260,385	3,945	526	37	480,377	133,562	38,860	307,955		
1948	10		251	21,205	20,262	44,137	23,100	35,934	270,238	3,928	467	23	419,555	41,728	67,237	310,590		
1949			5	5,765	44,304	24,232	22,500	41,500	137,599	1,571	215	6	277,697	50,074	46,732	180,891		
1950			21	6,630	50,638	16,667	32,937	40,462	205,521	4,356	143		357,375	57,289	49,604	250,482		
1951		32	28,801	86,055	54,889	24,394	33,785	97,131	6,489	212			331,788	114,888	79,283	137,617		
1952		255	8,130	107,807	62,491	21,800	82,290	135,053	2,576	477			420,879	116,192	84,291	220,396		
1953			1,254	126,450	42,583	27,228	30,593	27,398	75,145	1,495	333		332,479	170,287	57,821	104,371		
1954		2	657	82,877	51,230	46,801	32,596	24,969	80,426	1,189	200		320,947	134,766	79,397	106,784		
1955			1,391	84,436	85,769	45,502	37,437	32,833	70,558	1,803	124		359,853	171,596	82,939	105,318		
1956		161	8,850	54,438	64,262	36,938	42,203	92,030	1,854	179	2		300,917	63,449	101,200	136,268		
1957		328	90,984	45,128	104,243	30,790	34,829	95,457	1,352	175			403,286	136,440	135,033	131,813		
1958		468	15,361	59,377	74,375	27,524	19,735	227,504	1,948	127			426,419	75,206	101,899	249,314		
1959		182	26,944	34,007	39,581	49,371	24,945	168,187	1,643	168			345,028	61,133	88,952	194,943		
1960		184	37,064	32,349	65,247	19,923	22,719	76,327	2,012	224			256,049	69,597	85,170	101,282		
1961		476	72,526	25,693	41,302	25,159	22,675	90,688	3,108	353			281,980	98,695	66,461	116,824		
1962		1,278	56,201	33,637	52,392	25,093	23,526	91,320	2,759	419			286,625	91,116	77,485	118,024		
1963		2,802	43,859	28,810	36,836	27,178	28,586	104,415	5,571	503			278,560	75,471	64,014	139,075		
1964		2,418	69,031	19,979	35,814	44,717	26,546	141,525	4,157	235			344,422	91,428	80,531	172,463		
1965		1,238	47,083	35,945	38,482	37,515	38,727	112,664	6,074	229			317,957	84,266	75,997	157,694		
1966		2,168	92,637	17,864	40,233	31,764	20,608	128,421	6,052	364			340,111	112,669	71,997	155,445		
1967		1,620	71,957	11,358	41,847	53,812	25,760	154,323	5,405	155			366,237	84,935	95,659	185,643		
1968		1,342	69,420	28,425	46,793	36,126	27,779	126,994	4,010	265			341,154	99,187	82,919	159,048		
1969		1,910	65,371	106,281	59,177	42,976	38,456	187,502	5,511	359			507,543	173,562	102,153	231,828		
1970		2,020	78,605	30,351	35,091	29,811	44,559	159,710	4,364	269			384,780	110,976	64,902	208,902		
1971		683	60,849	63,985	37,757	40,154	26,749	166,346	8,820	359			405,702	125,517	77,911	202,274		
1972		426	154,443	31,271	36,758	34,072	23,577	109,820	3,939	150			394,456	186,140	70,830	137,486		
1973		1,585	128,495	12,068	24,164	21,196	31,513	170,895	8,457	262			398,635	142,148	45,360	211,127		
1974		434	57,516	76,585	13,424	32,472	15,554	156,543	13,923	308			366,759	134,535	45,896	186,328		
1975		162	48,295	55,647	16,989	27,362	37,907	234,145	4,847	212			425,566	104,104	44,351	277,111		

TABLE 19

(Continued)

MONTHLY COUNT OF CHINOOK SALMON													SPRING	SUMMER	FALL	
BONNEVILLE DAM - 1938-2006													Jan 1-	Jun 1-	Aug 1-	
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	May 31	Jul 31	Dec 31
1976			587	58,978	53,883	39,130	29,883	48,776	262,615	13,395	526		507,773	113,448	69,013	325,312
1977			3,569	98,710	17,229	21,790	19,233	21,992	171,303	11,805	1,026		366,657	119,508	41,023	206,126
1978			4,291	100,712	44,860	27,125	17,198	23,513	165,411	11,104	386		394,600	149,863	44,323	200,414
1979			790	29,751	20,921	15,924	18,293	41,273	142,241	6,865	248		276,306	51,462	34,217	190,627
1980			535	30,732	29,720	15,384	15,681	26,106	118,669	8,404	287		245,518	60,987	31,065	153,466
1981			1,853	41,917	21,239	13,262	13,667	32,519	154,696	6,288	209		285,650	65,009	26,929	193,712
1982			312	30,282	45,450	15,439	11,175	34,058	174,348	11,487	258		322,809	76,044	26,614	220,151
1983			144	25,423	31,154	12,793	10,665	26,147	116,879	20,458	683		244,346	56,721	23,458	164,167
1984			351	27,185	23,509	13,060	15,447	41,909	180,867	21,673	424		324,425	51,045	28,507	244,873
1985			2,036	52,145	36,780	16,763	13,107	64,899	255,020	22,099	1,024		463,873	90,961	29,870	343,042
1986			2,292	82,356	38,395	18,365	12,676	38,737	337,721	39,511	828		570,881	123,043	31,041	416,797
1987			2,727	68,866	30,214	22,728	14,979	82,500	298,865	25,614	1,001		547,494	101,807	37,707	407,980
1988			2,663	69,689	22,394	18,191	18,333	111,905	236,662	13,656	532		494,025	94,746	36,524	362,755
1989			36	56,583	30,640	15,659	17,316	102,573	181,691	11,218	401		416,117	87,259	32,975	295,883
1990			677	67,536	28,039	16,990	11,031	59,066	149,404	8,015	232		340,990	96,252	28,021	216,717
1991			601	41,431	19,196	12,755	9,198	21,959	159,068	10,116	298		274,622	61,228	21,953	191,441
1992			2,188	68,073	20,321	11,871	7,374	28,537	107,620	10,043	272		256,299	90,582	19,245	146,472
1993			226	77,174	34,772	15,968	7,648	37,893	97,693	6,036	247		277,657	112,172	23,616	141,869
1994			505	13,499	6,562	9,743	10,458	47,787	145,801	9,669	296		244,320	20,566	20,201	203,553
1995			206	7,144	5,511	8,565	9,226	47,145	150,990	15,614	835	14	245,250	12,861	17,791	214,598
1996	4		110	20,923	35,571	11,136	7,768	58,909	154,420	10,451	647	23	299,962	56,608	18,904	224,450
1997			466	67,577	49,921	20,162	10,943	82,123	158,589	9,488	516	-1	399,784	117,964	31,105	250,715
1998	0	1	695	24,549	14,587	14,500	10,396	58,135	155,716	11,308	398	7	290,292	39,117	24,111	217,716
1999		2	251	19,016	28,831	14,830	16,121	66,546	186,880	14,624	378	7	347,486	48,098	30,951	268,428
2000		4	3,166	130,193	71,222	25,864	19,209	100,658	139,073	11,380	227	16	501,012	204,581	45,073	251,338
2001	0	25	16,653	324,800	98,080	53,860	45,825	116,981	351,892	25,875	3,379	70	1,037,440	439,533	99,685	498,127
2002	74	207	1,875	149,293	124,122	89,419	45,969	149,283	344,754	18,449	1,421	255	925,121	275,290	135,388	513,907
2003	6	93	19,283	120,626	70,020	81,333	46,833	90,884	533,913	30,440	2,827	402	996,660	210,028	128,166	658,466
2004		17	593	104,978	73,605	69,622	35,410	111,550	473,727	34,858	1,760	77	906,197	179,193	105,032	621,972
2005	-1	2	43	31,504	46,793	52,917	30,786	47,880	363,426	25,199	1,855	11	600,415	78,341	83,703	438,371
2006	0	1	35	7,030	92,300	71,473	30,401	55,410	236,605	28,653	4,536	90	526,534	99,366	101,874	325,294
TOTAL	123	397	97,884	4,000,822	2,882,081	2,189,865	1,610,024	3,145,456	12,885,492	661,427	38,941	1,326	27,513,838	6,980,280	3,799,104	16,724,446
10-Year Average	4,306	97,957	66,948	49,398	29,189	87,945	294,458	21,027	1,730	653,094	169,151	78,509	404,433			

*Jacks included

1994 counts include nighttime video counts during the hours of 2100-0500 PST June 1 through August 16.

1995 counts include nighttime video counts during the hours of 2000 and 0400 PST April 1 through November 15. 24 hour counts November 16 through December 31.

1996 - 2002 counts include 24 hour video counts January 1 through March 15 and November 16 through Dec 31.

From March 16 through November 15, video counts took place between 2000 and 0400 hours PST.

2003 - 2006 counts include 16 hour video counts took place between 0400-2000 PST January 1 through March 31 and November 1 through December 31.

TABLE 20

MONTHLY COUNT OF SOCKEYE SALMON

BONNEVILLE DAM 1938 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1938					1,025	17,811	53,864	2,097	235	6	2		75,040
1939				48	189	29,386	43,124	616	19				73,382
1940					206	59,639	85,885	3,063	13	1			148,807
1941				299	1,052	23,536	39,193	1,615	46				65,741
1942					13	12,624	41,301	1,477	49				55,464
1943					9	4,525	33,613	1,697	1				39,845
1944			1		16	3,099	11,171	659	126				15,072
1945			10	51	521	1,507	6,903	498	10	1			9,501
1946				9	67	7,815	64,715	1,747	21	2			74,376
1947					5	59,378	108,175	3,564	15	1		1	171,139
1948						12,023	117,652	1,849	13	4			131,541
1949					151	9,013	41,619	655	6				51,444
1950						341	75,784	1,826	42				77,993
1951					25	81,045	87,104	1,214	40				169,428
1952			7	1	3	136,939	47,188	467	30	2	8		184,645
1953			57	27	663	45,711	186,933	1,774	50				235,215
1954			1		13	52,359	76,505	1,212	17				130,107
1955					79	21,923	214,860	866	11	9			237,748
1956					10	29,649	125,185	1,564	7	3			156,418
1957					21	38,616	43,938	323	14	3			82,915
1958					25	38,736	82,719	878	23	8			122,389
1959				2	153	10,155	75,325	906	14	5			86,560
1960					4	41,758	17,615	321	15				59,713
1961				3	22	7,960	9,059	56	9	2			17,111
1962				1	21	9,713	18,310	82	47	5			28,179
1963					492	25,010	34,275	216	304	17	5		60,319
1964				3	570	32,079	66,857	213	110	10	14		99,856
1965					457	21,860	31,776	744	285	3			55,125
1966				10	338	57,509	97,845	800	155	4			156,661
1967				18	38	36,091	107,558	344	106	3			144,158
1968				54	372	74,226	33,245	199	101	9	1		108,207
1969				5	165	24,238	34,970	120	124	13	1		59,636
1970				5	269	22,977	46,062	1,147	290	12			70,762
1971					70	14,789	72,203	313	69	2	1		87,447
1972					614	16,505	37,939	1,254	9	2			56,323
1973					17	29,314	29,308	337	3				58,979
1974					14	8,073	35,407	340	3				43,837
1975					2	17,961	40,050	192	7				58,212

TABLE 20

(Continued)

MONTHLY COUNT OF SOCKEYE SALMON

BONNEVILLE DAM 1938 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	
1976					94	22,532	20,661	297	26	1			43,611	
1977				1	38	74,551	25,178	61					99,829	
1978				1	2	12,442	5,884	101	6				18,436	
1979					1	25,474	26,297	826	30				52,628	
1980						22,949	35,764	164	4	1			58,882	
1981					1	36,931	19,001	100	4				56,037	
1982					12	20,731	29,207	264	4	1			50,219	
1983						52,134	48,004	400	5	2			100,545	
1984					6	106,892	45,141	494	7	1			152,541	
1985				3	13	112,054	53,842	422	4	2			166,340	
1986					2	27,303	30,279	475	63	1			58,123	
1987					1	75,674	40,930	383	5				116,993	
1988					11	44,409	35,168	121	5				79,714	
1989					3	24,638	17,000	231	11	1			41,884	
1990						26,141	23,244	195	1				49,581	
1991						22,318	53,699	457	7				76,481	
1992					20	54,292	30,409	271					84,992	
1993					7	49,667	30,377	127					80,178	
1994					2	9,835	3,306	11					13,154	
1995					1	5,924	3,151	59					9,135	
1996					3	23,005	8,044	41					31,093	
1997					9	23,559	24,392	381	1				48,342	
1998					1	7,796	5,723	93					13,613	
1999						8,613	9,629	61	1				18,304	
2000					146	83,479	13,847	69					97,541	
2001					32	102,570	20,496	317	1				123,416	
2002					3	32,760	18,349	85	3				51,200	
2003					2	26,432	12,714	139	4				39,291	
2004					134	100,702	22,253	194	3		5		123,291	
2005					16	47,093	25,724	118	20				72,971	
2006					9	27,398	9,518	129	12				37,066	
TOTAL				76	541	8,280	2,446,191	3,122,466	44,331	2,666	137	37	1	5,624,726
10-Year Average					39	46,040	16,265	159						62,504

1994 counts include nighttime video counts during the hours of 2100-0500 PST June 1 through August 16.

1995 counts include nighttime video counts during the hours of 2000 and 0400 PST April 1 through November 15.

24 hour counts November 16 through December 31.

1996 - 2002 counts include 24 hour video counts January 1 through March 15 and November 16 through Dec 31.

From March 16 through November 15, video counts took place between 2000 and 0400 hours PST.

2003-2006 counts include video counts which took place between 0400-2000 PST January 1 through March 31 and November 1 through December 31.

TABLE 21

MONTHLY COUNT OF COHO SALMON
BONNEVILLE DAM 1938 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	JACKS
1938	3							3,070	10,995	972	141	7	15,188	
1939	3							1,811	12,226	310	15	18	14,383	
1940	2							1,451	10,212	213	33	5	11,916	
1941								1,317	16,061	369	160	2	17,909	
1942								1,193	11,062	147			12,402	
1943								762	1,676	89	20		2,547	
1944								1,052	3,021	103	29	2	4,207	
1945							2	239	533	15		1	790	
1946		10	4				22	228	3,609	1		24	3,898	
1947	12	2	1					217	10,928	10	3	1	11,174	
1948	1						11	158	3,893	10	3	5	4,081	
1949							17	270	703	5	8	1	1,004	
1950								1,570	8,545	36			10,151	
1951								197	4,773	225		6	5,201	
1952							10	2,581	5,131	22	24		7,768	
1953							1	7,094	5,890	22	11		13,018	
1954								668	3,319	74	1		4,062	
1955								443	3,188	94			3,725	
1956							7	1,158	4,879	83			6,127	
1957								1,564	3,046	63	2		4,675	
1958								341	3,220	99	13		3,673	
1959								122	2,551	22			2,695	
1960								538	2,502	224	4		3,268	
1961								277	2,867	306		6	3,456	
1962							1	1,116	13,091	543	37		14,788	
1963							4	1,071	8,664	2,724	195		12,658	
1964							23	3,776	46,535	3,069	199		53,602	
1965						2	21	5,911	61,335	8,566	197		76,032	
1966						46	874	4,921	59,457	6,361	232		71,891	34,919
1967						33	715	3,814	87,254	4,560	112		96,488	47,893
1968						48	124	10,450	50,900	1,868	98		63,488	20,435
1969						38	443	4,671	41,176	2,998	52		49,378	25,216
1970						2	128	6,604	70,631	2,631	120		80,116	25,248
1971							57	7,292	58,235	9,753	652		75,989	22,172
1972							66	9,481	52,456	3,792	137		65,932	31,716
1973							636	12,656	33,736	6,715	866		54,609	28,760
1974							539	8,805	40,761	8,631	2,219		60,955	29,350
1975							56	5,373	39,167	11,892	1,819		58,307	25,535

TABLE 21

(Continued)

**MONTHLY COUNT OF COHO SALMON
BONNEVILLE DAM 1938 - 2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	JACKS
1976							143	5,970	40,505	5,417	1,115		53,150	16,484
1977							55	1,134	15,163	2,582	474		19,408	10,083
1978				1			2	2,643	38,308	10,531	1,105		52,590	22,312
1979							68	7,324	28,732	7,583	1,621		45,328	15,716
1980							10	781	13,601	3,327	4,333		22,052	9,078
1981							4	3,162	23,962	3,108	274		30,510	8,575
1982							79	3,687	55,743	13,182	1,141		73,832	18,016
1983							44	319	7,237	5,020	2,553		15,173	6,775
1984							41	1,394	20,174	6,229	1,649		29,487	12,728
1985			1			7	92	3,977	46,749	5,670	361		56,857	18,307
1986							181	2,502	110,714	14,436	3,020		130,853	22,204
1987							464	2,364	21,002	3,556	249		27,635	9,713
1988							78	3,377	26,303	8,614	1,248		39,620	12,566
1989							60	2,353	24,089	9,543	3,236		39,281	11,863
1990							9	587	18,202	5,230	817		24,845	13,218
1991							5	941	46,331	13,713	3,067		64,057	5,189
1992							19	222	10,304	5,953	1,628		18,126	3,757
1993							15	448	8,191	2,786	292		11,732	1,090
1994							5	1,608	12,521	8,239	421		22,794	2,503
1995							118	978	7,049	3,969	458		12,572	1,639
1996							66	431	10,413	7,775	392		19,077	3,010
1997							22	1,441	19,412	6,755	289		27,919	3,206
1998							13	896	35,245	13,047	282	5	49,488	3,630
1999			19			1	3	951	34,901	9,673	252	5	45,805	4,468
2000							3	13,348	55,550	29,698	949	112	99,660	11,383
2001	15					2	145	34,112	205,352	34,401	3,907		277,934	6,781
2002							6	4,742	54,917	38,184	2,803	183	100,835	6,817
2003							10	11,389	86,621	35,516	334	4	133,874	8,127
2004		1						11,171	78,512	29,544	622	1	119,851	4,809
2005								3,487	64,253	20,414	637		88,791	5,486
2006								12,771	58,048	35,014	4,192	28	110,053	7,943
TOTAL	37	31	6	1	0	179	5,517	254,772	2,076,332	476,326	51,135	404	2,864,740	578,720
10 Year Average							29	9,431	69,281	25,225	1,427		105,421	6,265

*Jacks included

1995 counts include nighttime video counts during the hours of 2000 and 0400 PST April 1 through November 15.
24 hour counts November 16 through December 31.

1996 - 2002 counts include 24 hour video counts January 1 through March 15 and November 16 through Dec 31.
From March 16 through November 15, video counts took place between 2000 and 0400 hours PST.

2003-06 counts include 16 hour video counts took place between 0400-2000 PST January 1 through March 31
and November 1 through December 31.

TABLE 22

MONTHLY COUNT OF STEELHEAD
BONNEVILLE DAM 1938 -2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	A-Run	B-Run
														Jan 1- Aug 25	Aug 26- Dec 31
1938					6,622	2,382	19,455	29,231	46,618	2,264	339	92	107,003	49,306	57,697
1939	23	19	570	8,110	1,587	1,490	36,681	38,062	33,891	1,264	216	119	122,032	80,096	41,936
1940	5	96	1,688	4,125	998	4,489	61,188	46,071	64,377	1,786	292	59	185,174	106,724	78,450
1941	37	76	1,641	6,392	1,518	996	21,940	29,600	50,542	3,980	1,063	304	118,089	58,109	59,980
1942	4	37	256	3,642	4,159	1,588	19,905	41,973	77,076	2,412	566	182	151,800	65,219	86,581
1943	14	18	654	3,374	4,698	1,564	7,755	29,894	41,051	2,444	573	94	92,133	41,219	50,914
1944	50	157	1,019	6,142	2,224	1,169	21,868	24,508	35,907	6,129	1,119	226	100,518	51,585	48,933
1945	1,003	1,078	3,008	4,685	1,557	1,109	24,537	40,593	40,194	1,925	302	142	120,133	72,685	47,448
1946	64	551	3,040	9,839	5,482	3,265	20,600	58,466	38,399	2,070	262	769	142,807	93,422	49,385
1947	197	321	1,968	6,889	2,025	1,595	28,134	40,819	50,025	2,905	443	123	135,444	75,035	60,409
1948	154	119	1,631	4,473	1,170	1,895	33,191	53,621	40,609	1,742	381	76	139,062	87,453	51,609
1949	1		1,689	3,293	1,712	1,264	34,314	54,281	20,786	1,161	686	98	119,285	90,762	28,523
1950	13	8	1,156	4,537	1,667	691	25,142	53,904	24,226	1,932	811		114,087	80,191	33,896
1951			375	2,338	1,568	5,187	74,980	39,712	15,357	947	225		140,689	121,100	19,589
1952			278	1,248	1,751	8,202	118,110	79,735	48,293	2,735	638		260,990	190,012	70,978
1953			1,310	5,308	1,456	5,313	106,712	64,006	36,107	2,797	905		223,914	173,135	50,779
1954		6	679	5,511	1,571	6,115	59,443	65,234	34,941	2,209	551		176,260	126,085	50,175
1955			1,006	2,100	1,149	2,418	79,124	84,746	24,239	3,361	268		198,411	161,614	36,797
1956			1,409	2,718	1,582	3,122	48,306	47,148	23,343	2,846	635	7	131,116	99,692	31,424
1957			926	2,081	760	8,434	66,738	34,915	24,029	1,069	231		139,183	105,179	34,004
1958			495	651	1,457	5,645	53,734	22,827	44,478	1,859	291		131,437	79,533	51,904
1959			219	746	1,236	2,562	60,549	38,417	23,579	1,540	178		129,026	98,198	30,828
1960			412	904	1,090	4,314	44,026	33,571	28,058	1,090	211		113,676	77,141	36,535
1961			374	1,161	692	2,246	44,379	41,237	47,409	1,561	660		139,719	79,269	60,450
1962			381	1,957	1,491	3,737	49,789	40,177	64,084	1,798	611		164,025	86,990	77,035
1963			503	1,035	1,385	4,192	51,951	31,441	35,446	2,920	545		129,418	83,858	45,560
1964			490	1,609	769	1,940	50,640	26,892	32,406	1,954	552		117,252	76,135	41,117
1965			211	1,516	1,419	4,265	89,405	29,506	37,529	1,971	631		166,453	120,560	45,893
1966			658	2,682	2,389	13,051	57,975	25,779	37,733	2,657	737		143,661	97,545	46,116
1967			416	1,182	899	3,062	40,881	36,787	35,472	2,701	472		121,872	78,794	43,078
1968			340	861	1,315	3,664	29,773	41,006	27,865	1,645	505		106,974	68,423	38,551
1969			911	2,164	2,897	6,889	63,222	36,077	26,565	1,484	573		140,782	104,051	36,731
1970			244	1,267	1,331	4,208	30,866	46,307	27,073	1,909	305		113,510	78,106	35,404
1971			463	1,377	1,810	4,469	84,877	58,249	38,619	3,739	363		193,966	141,054	52,912
1972			492	2,562	2,137	3,444	59,933	48,223	65,523	3,432	140		185,886	107,227	78,659
1973			830	2,534	1,367	5,360	53,820	46,399	43,275	3,918	320		157,823	100,011	57,812
1974			1,292	4,127	5,547	6,349	57,212	44,266	14,654	3,080	527		137,054	84,402	52,652
1975			1,080	4,284	4,324	6,058	30,823	28,623	9,106	904	338		85,540	71,586	13,954

TABLE 22
(Continued)
MONTHLY COUNT OF STEELHEAD
BONNEVILLE DAM 1938 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	Jan 1- Aug 25	Aug 26- Dec 31
1976			1,285	3,459	3,677	9,130	38,907	44,204	21,084	1,953	478		124,177	92,370	31,807
1977			1,159	4,121	4,115	11,395	67,554	35,161	66,084	3,298	550		193,437	113,682	79,755
1978			1,750	3,327	4,587	10,883	25,284	25,637	30,461	2,168	334		104,431	64,188	40,243
1979			1,333	1,905	1,785	7,585	33,379	39,399	23,592	4,710	291		113,979	79,472	34,507
1980			1,139	3,378	1,409	7,790	28,448	51,073	32,277	3,233	507		129,254	85,010	44,244
1981			1,031	3,812	3,887	12,628	56,787	52,435	25,737	2,650	303		159,270	121,785	37,485
1982			1,239	4,188	5,335	8,636	39,159	51,329	44,456	3,146	152		157,640	103,159	54,481
1983			458	1,253	1,638	6,017	69,036	86,066	48,920	4,636	415		218,439	148,853	69,586
1984			579	2,106	4,216	14,454	92,546	93,866	102,877	4,463	453		315,560	189,365	126,195
1985			977	2,956	3,997	13,036	102,256	152,455	63,575	4,088	647		343,987	251,723	92,264
1986			2,712	3,674	4,500	16,655	136,622	129,089	76,532	9,280	827		379,891	279,154	100,737
1987			1,189	2,112	3,233	12,443	104,615	115,481	58,815	4,331	862		303,081	227,013	79,120
1988			1,158	3,728	5,016	13,615	72,718	113,791	63,864	4,421	761		279,072	190,030	89,042
1989			630	2,213	3,343	10,176	62,913	117,686	84,665	5,419	753		287,798	176,965	110,833
1990			966	2,563	4,501	11,643	37,140	52,327	65,813	7,522	552		183,027	89,144	93,883
1991			640	2,082	2,196	6,601	52,187	110,027	93,152	6,947	713		274,545	150,542	124,003
1992			646	1,964	3,239	9,708	55,090	135,162	103,792	4,918	456		314,975	175,218	139,757
1993			771	1,744	2,691	9,923	34,148	64,062	69,129	5,531	387		188,386	99,941	88,445
1994			422	1,976	3,132	7,511	27,202	59,157	54,856	8,079	789		163,124	83,968	79,156
1995			333	863	1,257	6,419	29,305	112,812	48,781	6,691	1,104	1,506	209,071	126,537	82,534
1996	793	57	1,862	1,776	2,424	6,912	40,813	102,200	48,397	6,143	761	337	212,475	141,999	70,476
1997	342	426	1,966	1,950	2,485	530+166	57,472	127,882	53,571	18,428	2,234	84	266,840	177,685	89,155
1998	161	239	984	883	1,655	7,236	36,437	60,403	76,293	12,136	489	585	197,501	87,422	97,672
1999	15	287	699	833	1,308	5,157	48,278	101,610	46,200	6,509	637	585	212,118	138,258	68,230
2000	340	420	1,495	1,235	2,006	13,594	80,259	106,918	68,407	7,306	510	175	282,665	185,066	90,112
2001	333	239	2,196	2,043	3,331	24,076	199,969	263,518	152,434	21,542	4,343	2,769	676,793	435,035	198,038
2002	1,311	833	1,770	2,918	2,752	19,918	119,923	180,381	151,807	24,004	4,140	923	510,680	285,229	195,080
2003	724	1,728	2,264	1,474	1,714	10,966	95,185	139,612	95,759	12,467	3,115	813	365,821	231,717	134,104
2004	236	646	1,799	1,815	2,947	16,183	66,621	111,886	94,482	15,024	972	767	313,378	178,653	134,725
2005	149	62	103	1,064	1,517	9,286	84,968	110,487	83,450	21,694	2,598	272	315,650	191,275	124,375
2006	1,587	446	944	1,174	1,537	7,172	46,912	154,325	104,659	13,400	5,750	1,235	339,141	180,418	158,723
TOTAL	7,556	7,869	70,613	190,013	170,241	474,491	3,904,111	4,732,744	3,562,805	344,277	55,348	12,342	13,532,410	8,642,382	4,793,465
10-Year Average			1,422	1,539	2,125	12,621	83,602	135,702	92,706	15,251	2,479		348,059	209,076	129,021

1994 counts include nighttime video counts during the hours of 2100-0500 PST June 1 through August 16
1995 counts include nighttime video counts during the hours of 2000 and 0400 PST April 1 through November 15
24 hour counts November 16 through December 31
1996 - 2002 counts include 24 hour video counts January 1 through March 15 and November 16 through Dec 31.
From March 16 through November 15, video counts took place between 2000 and 0400 hours PST
2003 - 2006 counts include 16 hour video counts took place between 0400-2000 PST January 1 through March 31
and November 1 through December 31

TABLE 23

**MONTHLY COUNT OF SHAD at
BONNEVILLE DAM 1938 - 2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1938						39	3,184	1,502	527	21			5,273
1939					14	1,539	3,065	157	28				4,803
1940					48	12,931	9,178	72	1				22,230
1941					5	2,417	16,010	197	12	16			18,657
1942					2	38	11,341	1,473	5				12,859
1943						18	2,545	265	20				2,848
1944						287	16,568	248					17,103
1945						2,801	90,773	948	4				94,526
1946						3,895	16,073	415					20,383
1947					8	5,645	20,280	105	3				26,041
1948						8	6,458	1,953	2	1			8,422
1949						2,647	19,609	322	1				22,579
1950							7,265	548	3				7,816
1951						1,269	6,792	277	15				8,353
1952						487	2,595	45	4				3,131
1953						53	14,856	1,502	19				16,430
1954						34	3,848	1,136	11				5,029
1955						21	4,411	1,358	18				5,808
1956					1	67	6,838	1,168	11				8,085
1957						1,695	11,039	422	1	2			13,159
1958						3,885	6,257	59					10,201
1959					3	32	6,315	369	1				6,720
1960						35,259	57,443	594	72				93,368
1961						18,952	245,471	1,236	33	5			265,697
1962						43,689	387,554	4,657	82	4	2		435,988
1963					70	77,961	307,466	4,044	217	14			389,772
1964					19	3,203	236,321	13,008	121	2			252,674
1965					1	33,815	570,432	12,844	194	35	2		617,323
1966					94	181,187	367,643	7,988	545	51	5		557,513
1967			1	1		6,673	212,681	2,944	152	8			222,460
1968					800	107,881	183,878	1,387	121	10	1		294,078
1969			2	5	158	233,018	81,159	2,846	163	7			317,358
1970				2	250	228,519	99,659	566	262	18			329,276
1971					30	34,345	154,215	951	55	1			189,597
1972					38	16,689	192,608	5,301	88	1			214,725
1973					116,057	377,830	24,701	577	38	4			519,207
1974					7	6,122	91,302	1,496	17	1			98,945
1975					11	43,712	219,133	1,349	38	3			264,246

TABLE 23
(Continued)

MONTHLY COUNT OF SHAD at
BONNEVILLE DAM 1938 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1976					4	123,053	179,994	2,112	49	7			305,219
1977					51,709	431,540	11,818	568	76	12			495,723
1978					30	802,110	57,997	991	33	5			861,166
1979					800	994,253	43,734	658	258	141	13		1,039,857
1980					1,460	766,473	170,705	685	51	15	1		939,390
1981				2	20,976	708,295	150,730	1,080	79	17			881,179
1982				1	6,888	655,037	117,325	914	37	9	1		780,212
1983					78,105	1,224,342	118,975	1,103	112	37			1,422,674
1984					553	950,406	320,526	4,097	153	55	1		1,275,791
1985					101,770	816,288	55,233	1,410	206	39	5		974,951
1986					104,724	722,443	29,622	1,164	166	47	4		858,170
1987				28	254,326	678,850	10,254	379	32	5	1		943,875
1988				20	408,822	734,635	20,146	697					1,164,320
1989				1	199,327	1,651,338	24,697	2,041					1,877,404
1990				4	532,617	2,296,098	116,799	2,347					2,947,865
1991				1	37,677	1,566,933	307,835	1,971					1,914,417
1992				256	685,939	1,767,696	93,446	4,102					2,551,439
1993			11	10	111,459	1,883,831	167,900	3,463					2,166,674
1994				53	136,547	1,223,421	195,894	1,640					1,557,555
1995				1	231,973	1,289,390	193,091	1,724					1,716,179
1996					24,653	1,676,695	221,795	1,514					1,924,657
1997					97,507	1,760,507	312,779	768					2,171,561
1998				1	185,810	1,660,405	44,656	120					1,890,992
1999					132,782	1,374,822	129,625	1,043					1,638,272
2000				6	229,344	961,587	52,558	822					1,244,317
2001				9	704,104	1,550,639	41,596	1,611					2,297,959
2002				0	382,611	2,670,772	110,780	393					3,164,556
2003					420,265	4,025,864	108,226	4,195					4,558,550
2004					662,249	4,544,400	142,236	6,792					5,355,677
2005					288,233	3,768,400	182,603	2,893					4,242,129
2006					205,664	3,555,887	197,303	6,400					3,965,254
TOTAL				14	401	6,416,544	50,325,073	7,647,844	136,026	4,136	593	36	64,530,667
10 Year Average						330,857	2,587,328	132,236	2,504				3,052,927

Shad are no longer counted past August.

TABLE 24

**MONTHLY COUNT OF LAMPREY at
BONNEVILLE DAM 1939¹ - 1969, 1997 - 2006**

Information concerning the lamprey count table.

The counts in the following table can be considered an approximation of trends, only. Lamprey are difficult animals to count in that they move back and forth in front of the fish count window. They also spend long periods of time resting. Lamprey also are more likely to pass at night than are salmon and for most of the years, fish counting took place only in the daytime. Further, during the 1970s, the count station was changed from a flash board counting system in which the fish passed over a white board to a vertical slot system in which the fish pass through a lighted window. This change could have made a difference in the counts. In addition, it is known that lamprey do not always use the fish ladder and may pass over a dam through several routes including the navigation lock and the auxiliary water supply.

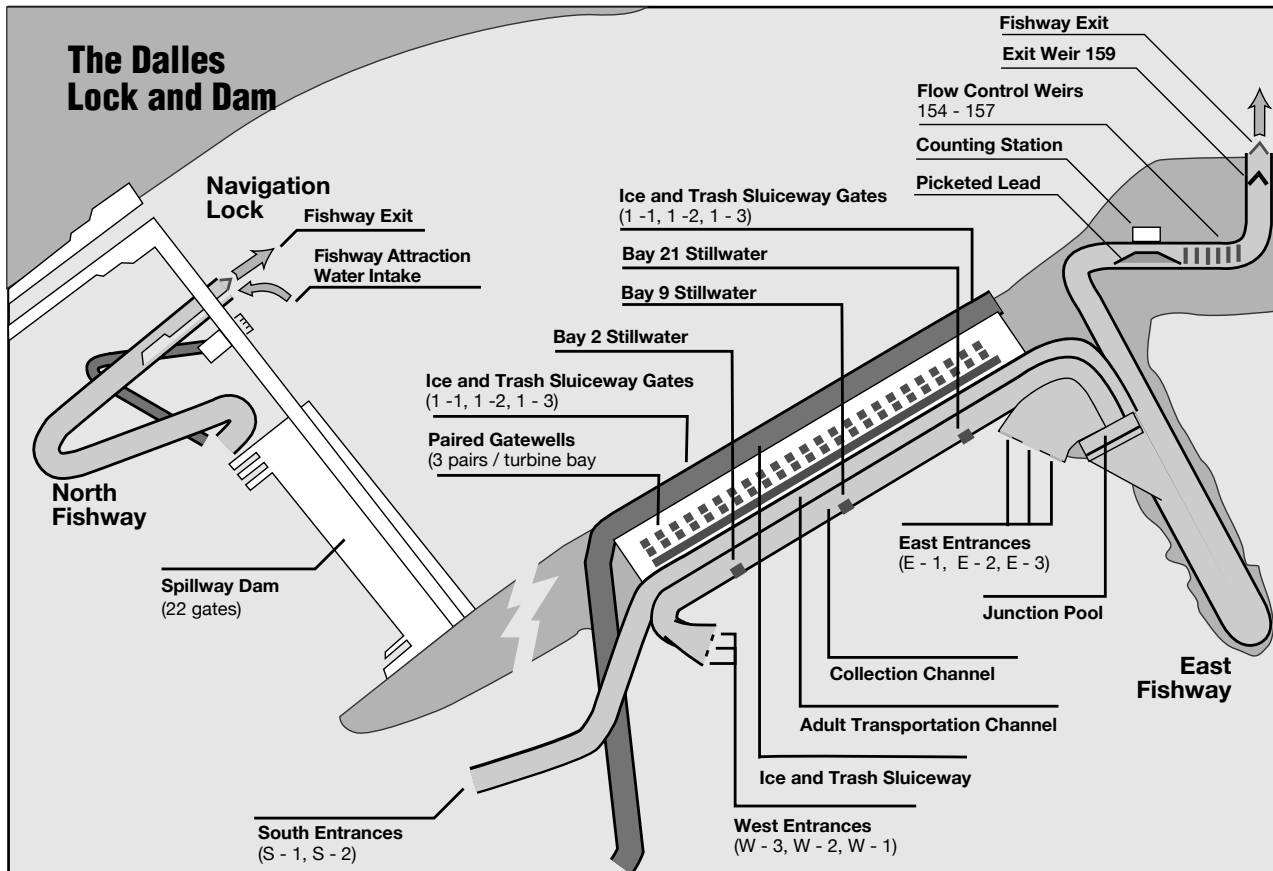
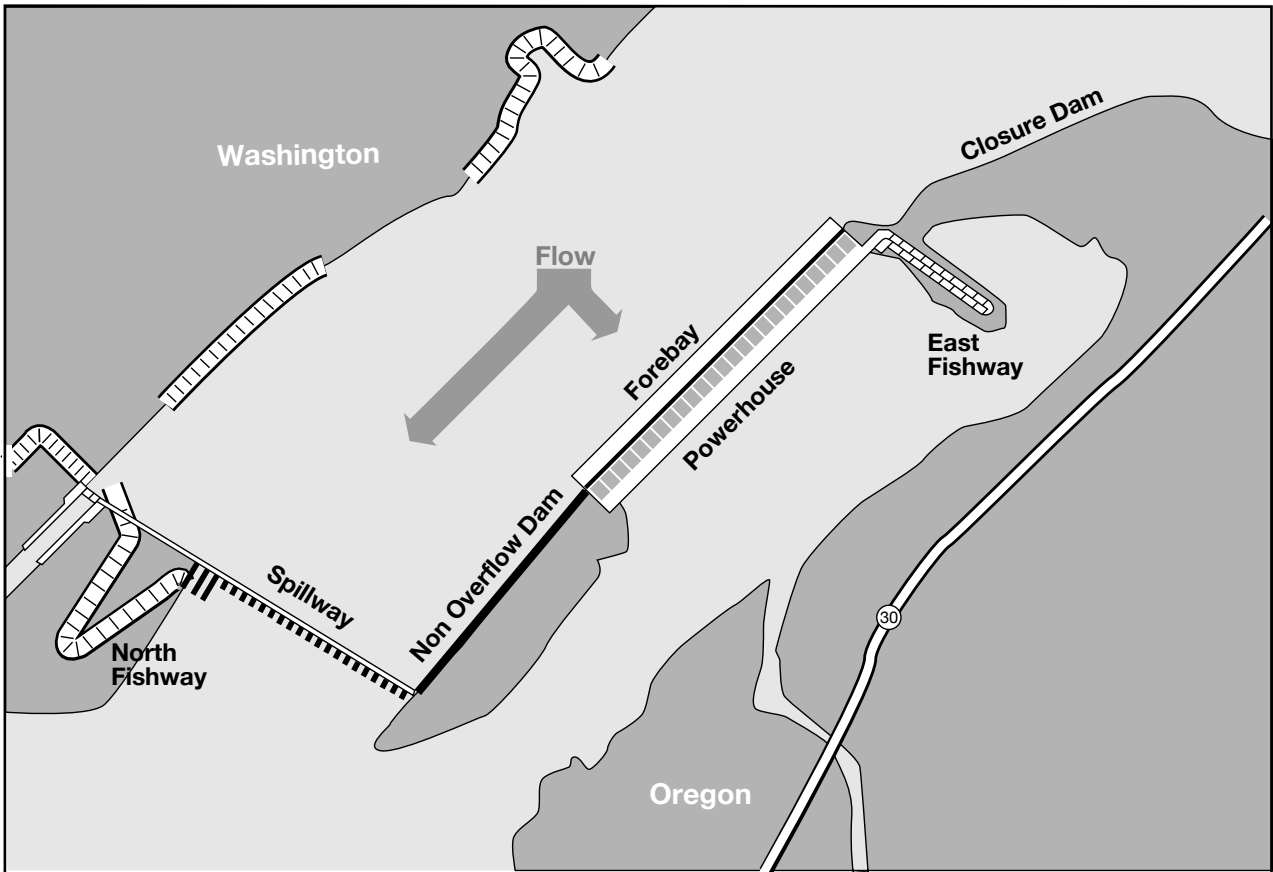
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1939				732	9,027	95,814	103,726	14,403	3,349	71	0		227,122
1940				338	24,551	40,642	67,760	20,554	2,217	40	0		156,102
1941				1,428	7,449	6,960	34,952	12,801	1,305	57	2		64,954
1942				13	1,302	3,457	28,641	16,270	2,619	40	19		52,361
1943				0	1,684	3,539	14,332	26,508	5,017	14	2		51,096
1944				22	2,189	1,411	19,288	11,853	1,342	86	18		36,209
1945				56	1,676	4,365	16,395	11,533	2,407	56	0		36,488
1946				57	684	13,834	42,772	15,820	1,565	93	0		74,825
1947				158	9,183	7,563	54,032	17,680	3,566	2,141	3		94,326
1948			1	82	295	13,744	79,507	44,511	4,948	725	2		143,815
1949				5	1,105	5,678	41,438	8,264	1,372	40	7	19	57,928
² 1950					207	1,073	6,702	22,128	2,436	140	7		32,693
1951				1	4	11,001	8,554	25,078	420	51	1		45,110
1952					8	3,674	13,854	7,462	1,194	11			26,203
1953				79	946	727	17,917	26,053	1,381	25	1		47,129
1954				33	201	1,001	10,303	26,535	2,824	89			40,986
1955					210	764	16,368	21,765	3,341	154	1		42,603
1956					24	657	36,987	10,181	1,949	113			49,911
1957				19	185	17,698	28,506	5,907	699	17			53,031
1958				132	877	8,092	79,548	7,448	1,036	171	1,115		98,419
1959				23	67	6,273	123,104	79,976	4,006	1,626	8		215,083
1960				8	1,521	12,185	125,962	30,751	7,329	142			177,898
1961				30	649	16,786	200,722	126,438	20,110	70			364,805
1962				1	441	13,573	49,868	30,253	7,103	166	21		101,426
1963				21	20,827	5,803	28,348	24,639	7,702	597			87,937
1964			2	8	2,575	17,796	39,223	41,214	3,167	347	5		104,337
1965				54	6,674	8,886	71,027	16,949	4,617	772	8		108,987
1966				168	6,562	11,772	25,813	20,543	2,207	844	5		67,914
1967				211	4,416	6,348	38,591	14,792	1,570	225	18		66,171
1968				92	14,698	18,389	57,011	17,611	949	275	4		109,029
1969				44	24,386	230,096	87,769	32,908	4,126	170	10		379,509
*** Counting lamprey was stopped after 1969. It was resumed again in 1997. ***													
1997				4	1,691	³ #####	1,939	9,783	8,643	770	0		22,830
1998				103	2,213	12,851	14,548	5,304	2,211	285	0		37,515
1999				65	4,780	8,801	12,047	7,584	3,717	302	0		37,296
2000				91	2,204	7,953	4,184	3,408	1,038	123	1		19,002
2001				1	2,075	11,143	9,895	4,141	620	72			27,947
2002				0	1,280	34,070	39,405	17,380	7,977	364			100,476
2003				6	2,874	50,875	45,863	13,230	3,843	336			117,027
2004				0	1,670	27,515	23,607	6,644	2,170	174			61,780
2005				-1	774	10,706	12,271	2,320	498	96			26,664
2006				1	446	8,874	18,603	6,868	4,013	122	13		38,940
TOTAL				3	4,085	164,630	762,389	1,751,382	865,490	142,603	12,012	1,271	3,703,884
10-Year Average				27	2,001	19,199	18,236	7,666	3,473	264			48,948

¹No data are available for 1938.

²Because of changes in the Washington shore counting station, lamprey counts from 1938-1949 cannot be compared with counts from 1950 on.

³Because of the heavy shad run, fish counters were not asked to count lamprey from June 1 through July 27.

Plate 3 The Dalles Lock and Dam



THE DALLES DAM

FISH COUNTING SCHEDULE

Feb 20 – Mar 31	Video counting daily 0400-2000 hours Pacific Standard Time.
Apr 1 – Oct 31	Visual counting daily 0400-2000 hours Pacific Standard Time.
Nov 1 – Dec 5	Video counting daily 0400-2000 hours Pacific Standard Time.

FISHWAY OPERATING SCHEDULE

The following information includes fishway operation for calendar year 2006. Total length of time for annual fishway outages can be determined by referring to previous years' annual reports. "Out of service" indicates fish ladder dewatered and auxiliary water system off for routine annual maintenance. Dive inspection was conducted 8/18/06, per Fish Passage Plan, requiring a short period of fishway outage, with the auxiliary water system off.

East Adult Fishway

- 1/1-1/19: out of service
- 1/20-1/31: ladder flow only
- 2/1-12/31: in service
- 8/17: ladder flow only for ROV inspection

North Adult Fishway

- 1/1-1/31: in service
- 2/1-2/28: out of service
- 3/1-12/5: in service
- 12/6-12/31: out of service
- 8/17: ladder flow only for ROV inspection

Ice/Trash Sluiceway (Juvenile)

- 1/1-4/1: out of service
- 4/2-11/30: in service
- 12/1-12/31: out of service

Spillway

- 1/1-4/9: closed
 - 4/10-8/31: spill 40%, 24 hours/day
 - 9/1-12/31: closed
-

FISH RELATED DEWATERINGS

FISHWAY DEWATERING PROCEDURES

Bulkheads are installed and drain valves open to dewater various areas of fishways. Fisheries personnel enter these areas to salvage fish that become entrapped. Minimal handling of fish is applied. Fish that are reluctant to vacate an area are captured and transported to the forebay or tailwater, depending on circumstances such as fish species, age class and stress levels. A follow

up inspection is made to account for possible missed fish. Efforts are made to provide continual water supply during the entire operation to reduce fish stranding. Fishway areas not included on this list are inspected by divers.

Fishway Dewaterings

North ladder (2/1) – Annual inspection and maintenance. Three lamprey provided to Umatilla Tribe restocking program.

North ladder (12/5) – Annual inspection and maintenance. Fifteen lamprey and 1 whitefish released to forebay.

Fishway Dives

North and east fishway ROV(8/17) – Annual mid season inspection. Grating found loose at unit 18-1 in collection channel. Diffuser left closed and repair planned for winter outage.

TURBINE DEWATERING PROCEDURES

Turbine dewatering for routine maintenance usually involves low numbers of fish, due to operational guidelines. If a turbine unit fails, operational guidelines cannot always be followed, which usually results in higher numbers of fish entrapment. Removal of fish from these areas has a greater fish stress risk due to handling. Procedures are continually analyzed to determine the best method for preventing fish stress or loss. Fish are removed from scroll case and draft tubes by fish bags. If numbers of fish are higher than two bags, transport tanks are placed in the draft tube gallery for transport by crane. Fish are released to tailwater either with bag and rope or tank and crane.

Turbine Dewaterings

Main turbine unit 12 (3/30) – Routine maintenance. No fish in scroll case or draft tube.

Main turbine unit 9 (5/10) – No fish in scroll. Two sturgeon found in draft tube and released to river.

Main turbine unit 13 (6/7) – Routine maintenance. Two sturgeon removed from scroll case and 4 catfish removed from draft tube, released to river.

Main turbine unit 10 (7/20 and 22) – Routine maintenance. Two crappie removed from scroll case and 1 steelhead, 1 crappie and approximately 100 catfish removed from draft tube, released to river.

Main turbine unit 20 (8/14) – Thirty-eight sturgeon and 2 catfish removed from scroll case, released to river. Too much leakage for draft tube dewater.

Main turbine unit 20 second try (8/28) – Fifteen sturgeon removed from scroll case and released to visitor pond (permits updated). Twenty catfish released to river.

Main turbine unit 15 (10/25) – No fish in scroll case. Six catfish and 2 sturgeon removed from draft tube and released to river

Main turbine unit 20 second try 10/30 - Six catfish removed from scroll case and 27 catfish removed from draft tube, released to river.

Main turbine unit 2 (11/7) – No fish in scroll case. Nineteen catfish and 10 sturgeon removed from draft tube and released to river.

NAVLOCK DEWATERINGS

Fill Valve emergency dewatering – Three sturgeon and 1 carp removed and released to river.

FISHWAY INSPECTION COMPARISON

Three adult fishway inspections are conducted per day during the adult fish passage season (March 1 to November 31). One adult fishway inspection is conducted per day during the non-passage season. Items shown in *italics* are inspected once per day. All other items are inspected during every fishway inspection. Guidelines are provided by the COE Fish Passage Plan. Weekly fishway status reports are provided throughout the year. Increased or continual problem areas indicated in **bold**. Values are rounded to the nearest whole percent.

FISHWAY INSPECTION RESULTS

<u>Criteria Item</u>	<u>2006</u>	<u>2005</u>	<u>2004</u>	<u>2003</u>
East Fishway				
Exit differential	0	0	0	0
Weir 158	1	2	3	2
Weirs 154 – 157	5	9	2	13
<i>Count station differential</i>	1	1	2	2
<i>Weir crest depth</i>	1	1	7	5
<i>JP2 junction pool</i>	pulled	1	1	22
<i>JP4 junction pool</i>	pulled	0	1	22
<i>JP6 junction pool</i>	3	5	21	40
East entrance differential	2	1	10	5
E1 entrance depth	closed	closed	closed	1
E2 entrance depth	0	2	19	17
E3 entrance depth	0	1	2	1
<i>Collection channel velocity</i>	12	42	32	19
West entrance differential	1	7	7	4
W1 entrance depth	2	1	4	3
W2 entrance depth	1	8	3	1
W3 entrance depth	closed	closed	closed	2
South entrance differential	1	4	9	4
S1 entrance depth	1	1	7	4
S2 entrance depth	1	1	7	3
North Fishway				
Exit differential	0	0	0	1
<i>Count station differential</i>	0	1	0	0
<i>Weir crest depth</i>	3	1	0	2
North entrance differential	0	1	1	1
N1 entrance depth	0	1	2	1

N2 entrance depth	closed	closed	closed	closed
<i>PUD intake differential</i>	2	1	1	1
<i>Ice/Trash Sluice gate operation</i>	0	2	0	0
<i>Spill pattern</i>	0	0	0	1
Turbine operation priority	0	0	0	-
<i>Turbine 1% operation</i>	0	2	0	2

Discussion

Overall there was an improvement to criteria operation of all fishway equipment from '05. The collection channel velocity continues to be a problem at the east part of the channel, but has diminished from past years. A single velocity meter is located in this slow section of the channel. We are now incorporating a timed float test through the channel to provide a better representative of collection channel flow velocities. The velocity meter will continue to be calibrated and used.

Junction pool weirs 2 and 4 are no longer used to attempt to regulate water.

TABLE 25

MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER THE DALLES DAM

2006

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*			9	1,006	61,711	58,394	26,404	24,419	141,212	26,060	2,140	16	341,371
STEELHEAD		16	811	972	252	2,241	15,892	43,884	138,845	33,537	12,641	132	249,223
SOCKEYE					1	20,817	9,099	105	4				30,026
COHO*							1	1,541	18,080	12,574	2,142	1	34,339
CHUM										1	2		3
PINK									3				3
TOTAL		16	820	1,978	61,964	81,452	51,396	69,949	298,144	72,172	16,925	149	654,965
SHAD					347,297	4,019,888	240,189	4,218					4,611,592
LAMPREY						698	3,700	1,909	545	42			6,894

*Jacks included

Counting occurred Feb 20 through Dec 4 from 0400-2000 PST. Visual counts occurred Apr 1 - Oct 31.

Video counting occurred during all other times.

Lamprey are not counted during video counts. Shad are not counted after August 31.

TABLE 26

DISCHARGE AND WATER QUALITY DATA
THE DALLES PROJECT 2006

JANUARY

DATE	DISCH	SPILL	TURBIDITY	
	KCFS	KCFS	SECCHI	DEG F
Jan 1	201.5	0.0	1.0	41.0
Jan 2	201.2	0.0	1.0	42.0
Jan 3	199.1	0.0	1.0	42.0
Jan 4	167.0	0.0	1.0	42.0
Jan 5	167.7	0.0	1.0	42.0
Jan 6	151.9	0.0	1.5	42.0
Jan 7	155.6	0.0	1.5	42.0
Jan 8	138.7	0.0	2.0	42.0
Jan 9	160.8	0.0	4.5	42.0
Jan 10	134.8	0.0	4.5	43.0
Jan 11	154.8	0.0	4.5	43.0
Jan 12	189.3	0.0	4.0	42.0
Jan 13	221.6	0.0	4.5	42.0
Jan 14	197.2	0.0	4.5	42.0
Jan 15	178.8	0.0	4.5	42.0
Jan 16	187.7	0.0	4.5	41.0
Jan 17	190.5	0.0	4.0	42.0
Jan 18	205.4	0.0	5.0	43.0
Jan 19	203.4	0.0	4.5	42.0
Jan 20	223.8	0.0	4.0	42.0
Jan 21	208.6	0.0	4.5	42.0
Jan 22	172.8	0.0	5.0	41.0
Jan 23	189.5	0.0	3.0	42.0
Jan 24	161.9	0.0	3.0	42.0
Jan 25	178.8	0.0	3.5	42.0
Jan 26	175.0	0.0	3.5	42.0
Jan 27	168.3	0.0	4.5	41.0
Jan 28	155.4	0.0	4.5	42.0
Jan 29	132.9	0.0	4.5	41.0
Jan 30	177.0	0.0	4.0	42.0
Jan 31	177.5	0.0	4.0	41.0
AVG.	178.3	0.0	3.5	41.9

TABLE 27

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

THE DALLES PROJECT
FEBRUARY 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Feb 1													186.6	0.0	4.0	42.0
Feb 2													186.3	0.0	*	41.0
Feb 3													169.3	0.0	4.0	41.0
Feb 4													128.3	0.0	4.0	41.0
Feb 5													169.4	0.0	4.5	41.0
Feb 6													194.1	0.0	4.0	41.0
Feb 7													196.7	0.0	3.5	41.0
Feb 8													160.4	0.0	4.0	41.0
Feb 9													177.7	0.0	4.0	42.0
Feb 10													179.3	0.0	4.5	41.0
Feb 11													166.0	0.0	4.5	41.0
Feb 12													143.4	0.0	4.0	41.0
Feb 13													186.6	0.0	4.0	41.0
Feb 14													179.0	0.0	4.0	41.0
Feb 15													171.4	0.0	4.0	40.0
Feb 16													179.2	0.0	5.5	40.0
Feb 17													184.5	0.0	4.5	40.0
Feb 18													169.8	0.0	5.5	40.0
Feb 19													158.6	0.0	5.5	39.0
Feb 20								1	0				169.2	0.0	5.5	39.0
Feb 21								3	1				162.2	0.0	5.5	39.0
Feb 22								4	0				165.5	0.0	4.0	39.0
Feb 23								2	1				168.8	0.0	4.0	39.0
Feb 24								2	1				181.4	0.0	4.0	38.0
Feb 25								2	0				168.5	0.0	4.5	38.0
Feb 26								2	0				119.7	0.0	4.5	38.0
Feb 27								0	0				154.7	0.0	5.0	38.0
Feb 28								0	0				176.4	0.0	4.0	38.0
								16	3							
AVG.								2	0				169.8	0.0	4.4	40.0

*Data unavailable.

Note: From February 20 to March 31, counts were from video tape. The counts are 16-hour counts and occurred between 0400-2000 PST.

TABLE 28

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

THE DALLES PROJECT
MARCH 2006

DATE	FISH COUNTS						RIVER CONDITIONS									
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Mar 1	0							2	0				195.3	0.0	5.5	40.0
Mar 2	0							7	0				159.6	0.0	4.5	40.0
Mar 3	0							9	1				141.0	0.0	4.3	40.0
Mar 4	0							12	3				115.7	0.0	5.3	41.0
Mar 5	0							15	2				135.7	0.0	4.5	41.0
Mar 6	0							14	7				161.3	0.0	4.5	41.0
Mar 7	0							0	-2				174.3	0.0	4.8	41.0
Mar 8	0							24	4				156.9	0.0	4.0	40.8
Mar 9	0							25	12				178.5	0.0	4.3	40.7
Mar 10	0							32	5				179.2	0.0	4.5	40.8
Mar 11	0							28	9				173.9	0.0	4.5	41.0
Mar 12	0							21	2				155.2	0.0	4.5	41.1
Mar 13	0							22	4				154.9	0.0	4.0	41.3
Mar 14	0							23	5				134.0	0.0	4.0	42.0
Mar 15	0							26	6				173.5	0.0	4.5	42.0
Mar 16	0							5	0				175.9	0.0	4.5	42.0
Mar 17	0							25	5				134.1	0.0	4.5	41.5
Mar 18	0							20	6				120.7	0.0	5.3	41.9
Mar 19	0							24	1				135.9	0.0	5.5	42.0
Mar 20	0							25	3				151.0	0.0	4.0	43.0
Mar 21	0							29	6				139.3	0.0	4.3	42.4
Mar 22	0							28	8				173.1	0.0	4.5	42.8
Mar 23	0							25	2				164.0	0.0	4.0	43.1
Mar 24	2							25	4				105.8	0.0	4.5	44.0
Mar 25	0							28	7				128.9	0.0	4.0	43.9
Mar 26	0							24	8				129.1	0.0	4.5	44.0
Mar 27	1							47	9				166.9	0.0	5.0	45.0
Mar 28	0							60	12				181.9	0.0	4.0	44.8
Mar 29	2							62	18				156.5	0.0	4.0	45.3
Mar 30	1							59	16				179.4	0.0	4.0	45.5
Mar 31	3							65	13				190.3	0.0	3.8	45.9
TOTAL	9							811	176							
AVG.	0							26	6				155.5	0.0	4.4	42.3

Note: From February 20 to March 31, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Official Spring Chinook run started April 1. February and March Chinook counts were not added to spring totals. Video was disrupted resulting in lost data on the 23 and 24.

TABLE 29

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

THE DALLES PROJECT
APRIL 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL		SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL					STEELHEAD	WILD STEELHEAD						SECCHI	DEG F
Apr 1	9			0				93	27			0	164.6	0.0	4.5	46.3
Apr 2	4			-1				69	15			0	179.1	0.0	4.5	46.3
Apr 3	1			0				76	24			0	197.1	0.0	4.0	46.6
Apr 4	4			0				69	19			1	209.2	0.0	4.0	46.7
Apr 5	8			0				71	20			1	213.5	15.0	4.0	45.0
Apr 6	2			0				58	14			0	275.0	46.3	4.0	43.0
Apr 7	4			0				48	11			0	316.1	85.5	3.5	43.0
Apr 8	7			0				45	16			0	255.2	21.4	3.5	47.3
Apr 9	13			0				60	19			0	277.3	41.7	3.0	48.0
Apr 10	5			0				42	12			0	317.8	123.2	2.5	48.0
Apr 11	5			0				40	19			0	326.1	119.3	2.5	48.0
Apr 12	2			0				47	16			1	296.3	115.1	2.0	47.6
Apr 13	5			0				44	16			0	298.8	113.4	2.5	47.9
Apr 14	2			0				38	14			0	293.6	110.3	2.5	47.9
Apr 15	6			0				27	11			0	325.6	105.1	2.5	47.9
Apr 16	7			0				27	10			0	355.7	115.1	4.0	48.0
Apr 17	11			0				15	4			0	345.8	105.8	2.5	48.0
Apr 18	7			0				13	5			0	360.2	120.9	2.5	48.1
Apr 19	8			0				10	6			0	329.9	98.5	2.5	48.1
Apr 20	12			0				6	2			0	350.2	110.0	2.5	48.2
Apr 21	18			0				13	5			0	317.8	101.8	2.5	48.7
Apr 22	14			0				15	14			0	281.7	101.0	2.5	48.0
Apr 23	14			0				6	4			0	308.8	109.8	3.0	49.2
Apr 24	32			0				3	1			0	324.1	104.2	2.5	49.4
Apr 25	32			0				11	6			0	301.8	97.1	2.0	49.5
Apr 26	45			0				7	7			0	309.3	98.6	2.0	49.0
Apr 27	124			0				4	4			0	334.2	102.6	2.0	50.0
Apr 28	101			4				6	1			0	292.2	99.4	3.0	52.0
Apr 29	209			1				3	2			0	292.6	96.6	2.0	52.0
Apr 30	289			2				6	2			0	309.9	99.8	2.5	51.5
TOTAL	1,000			6				972	326			3				
AVG.	33			0				32	11				292.0	81.9	2.9	48.0

Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.

TABLE 30

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

THE DALLES PROJECT
MAY 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL	WILD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL					STEELHEAD	STEELHEAD						SECCHI	DEG F
May 1	451			2			0	5	4	0			329.7	117.7	2.0	50.0
May 2	390			1			0	6	2	0			361.5	162.9	2.0	52.3
May 3	949			5			0	1	0	0			346.5	141.2	2.0	52.0
May 4	1,185			11			0	3	1	0			341.5	126.6	2.5	53.0
May 5	1,308			6			0	5	1	0			299.7	117.7	3.0	53.0
May 6	1,466			11			0	6	4	0			262.9	103.5	3.0	53.0
May 7	3,084			22			0	8	2	1			316.0	119.6	2.5	53.0
May 8	4,936			34			0	2	1	4			307.9	119.6	1.5	53.1
May 9	4,080			47			0	7	2	1			279.8	110.9	2.5	53.3
May 10	4,454			38			0	2	1	1			294.6	115.4	2.5	53.8
May 11	3,597			49			0	8	1	17			255.6	100.8	2.5	54.1
May 12	3,751			101			0	6	1	22			279.1	106.5	3.0	54.1
May 13	4,195			127			0	9	1	11			295.1	115.8	3.0	54.3
May 14	3,795			128			0	8	0	29			246.5	98.0	3.0	54.6
May 15	2,489			113			0	9	2	72			261.7	103.5	3.0	55.0
May 16	3,554			174			0	6	1	113			272.0	99.8	3.0	55.5
May 17	2,328			174			0	14	1	1,170			300.0	100.8	4.0	56.1
May 18	1,634			118			0	4	2	889			343.3	129.5	3.0	56.4
May 19	1,517			150			0	8	2	3,737			359.8	142.5	3.0	58.0
May 20	1,368			96			0	19	18	3,508			359.5	132.0	2.0	58.0
May 21	1,201			73			0	6	0	3,372			363.4	138.0	2.5	58.0
May 22	920			76			0	4	0	7,663			359.5	144.5	2.5	58.0
May 23	1,114			80			0	16	5	99,587			365.5	139.7	2.5	59.0
May 24	990			106			0	14	1	75,030			382.6	142.9	2.5	59.0
May 25	1,009			64			0	15	2	55,998			377.4	137.9	2.5	59.0
May 26	1,014			67			0	7	0	32,832			362.6	124.2	2.0	59.0
May 27	802			41			0	11	6	20,420			391.2	212.3	3.0	59.0
May 28	694			47			1	17	5	18,144			386.5	216.8	3.0	58.2
May 29	546			23			0	3	1	8,378			383.7	191.2	1.5	56.0
May 30	387			37			0	13	1	4,076			384.9	189.3	1.5	58.4
May 31	457			25			0	10	4	12,222			351.3	131.4	1.5	56.0

TOTAL	59,665			2,046			1	252	72	347,297						
AVG.	1,925			66			0	8	2	11,203			329.7	133.3	2.5	55.6

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
TOTALS TO DATE	60,665	2,052	1	1,224	398	347,297	0	3
SPRING	60,665	2,052	1	1,224	398	347,297	0	3

TABLE 31

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

THE DALLES PROJECT
JUNE 2006

DATE	FISH COUNTS			FISH COUNTS							RIVER CONDITIONS					
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL													
Jun 1	450			48			0	12	0	49,722	1	0	322.0	101.1	1.5	56.0
Jun 2	407			42			0	10	0	64,963	2	0	307.1	100.1	2.0	58.0
Jun 3	305			34			5	15	4	30,868	2	0	304.3	121.4	2.0	58.7
Jun 4		984		63			14	26	1	218,842	0	0	315.6	118.9	2.0	58.0
Jun 5		972		58			20	22	2	141,790	1	1	312.7	137.2	2.5	58.0
Jun 6		889		31			29	27	14	134,353	2	0	335.4	151.1	2.5	59.4
Jun 7		1,079		41			40	34	1	244,780	8	1	345.0	155.5	2.5	59.0
Jun 8		1,460		45			37	22	8	224,409	6	0	343.1	149.6	2.5	60.0
Jun 9		1,012		36			74	59	16	244,870	1	1	360.8	145.0	3.0	60.1
Jun 10		1,455		56			90	30	4	177,083	7	0	362.2	149.1	3.0	60.2
Jun 11		1,661		66			226	34	6	114,164	14	0	334.8	198.6	3.0	60.0
Jun 12		1,944		73			260	36	20	256,595	5	0	345.3	147.6	3.0	60.8
Jun 13		2,631		100			444	44	6	223,800	17	1	329.8	121.9	3.0	60.9
Jun 14		2,349		71			345	43	8	135,505	15	0	337.5	122.9	3.0	60.9
Jun 15		1,752		54			425	39	11	143,490	32	1	358.4	157.2	2.5	61.0
Jun 16		2,296		37			739	65	12	134,509	14	0	336.5	138.9	3.0	61.0
Jun 17		2,071		52			639	38	14	131,908	11	0	328.3	127.3	3.0	61.0
Jun 18		2,274		50			1,016	64	12	111,959	12	0	322.4	128.4	3.0	61.0
Jun 19		3,150		95			890	56	24	103,469	12	0	290.2	115.4	3.5	61.1
Jun 20		2,238		62			977	102	29	156,819	8	1	319.3	128.6	3.0	61.2
Jun 21		1,975		58			819	65	29	135,237	21	2	266.3	105.5	2.5	61.4
Jun 22		1,542		48			827	66	20	73,505	29	0	247.3	102.9	2.5	61.0
Jun 23		1,821		72			1,031	104	31	102,044	48	0	286.6	115.2	3.0	61.0
Jun 24		2,629		91			1,664	97	19	114,726	35	0	267.6	107.1	2.5	62.0
Jun 25		3,249		73			1,954	164	38	108,356	72	0	208.0	83.1	3.0	63.3
Jun 26		2,931		115			1,568	132	36	79,634	41	1	254.0	94.6	3.0	63.0
Jun 27		2,919		88			1,683	121	26	102,295	48	1	245.7	90.7	3.0	64.2
Jun 28		3,253		149			2,143	226	72	104,334	91	1	213.5	81.9	4.0	64.2
Jun 29		1,915		89			1,193	167	69	105,717	53	0	255.1	93.5	4.0	64.3
Jun 30		2,769		115			1,665	321	132	50,142	90	0	208.7	83.4	4.0	64.0
TOTAL	1,162	55,220		2,012			20,817	2,241	664	4,019,888	698	11	302.1	122.5	2.8	60.8
AVG.	387	2045		67			694	75	22	133,996	23	0	302.1	122.5	2.8	60.8
RUN YEAR	CHINOOK ADULT	CHINOOK JACK					SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON				
TOTALS TO DATE																
SPRING	61,827	2,176					20,818	3,465	1,062	4,367,185	698	14				
SUMMER	55,220	1,888														
TOTAL	117,047	4,064														

TABLE 32

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

THE DALLES PROJECT
JULY 2006

FISH COUNTS													RIVER CONDITIONS			
DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Jul 1		2,281		85	0		1,168	282	102	32,847	122	1	208.7	72.8	4.0	65.0
Jul 2		1,576		82	0		920	339	141	34,039	120	0	181.7	73.5	4.0	65.0
Jul 3		1,885		53	0		913	263	129	35,324	37	0	183.6	70.1	4.0	65.0
Jul 4		1,125		49	0		948	380	142	21,435	154	1	178.9	67.9	4.5	67.0
Jul 5		1,158		84	0		795	394	163	18,650	133	12	171.4	62.7	4.3	67.0
Jul 6		1,188		56	0		653	371	150	12,469	121	0	157.8	67.2	4.0	67.0
Jul 7		1,132		52	0		578	455	192	11,955	99	1	169.0	85.7	5.0	67.5
Jul 8		1,039		46	0		462	370	226	10,332	105	0	207.2	80.6	4.8	67.0
Jul 9		1,179		62	0		516	583	291	11,675	100	1	207.3	79.5	4.0	68.0
Jul 10		1,004		45	0		375	458	297	8,970	70	0	202.7	80.6	4.0	68.0
Jul 11		786		71	0		324	607	266	9,422	63	0	202.0	86.9	4.5	68.0
Jul 12		675		56	0		128	432	263	3,837	32	2	219.7	68.8	4.0	68.0
Jul 13		654		69	0		166	741	350	5,934	156	0	173.6	69.1	4.5	69.0
Jul 14		999		54	0		141	722	370	3,857	203	3	178.1	67.7	4.5	69.0
Jul 15		805		47	0		132	840	397	3,210	191	3	172.5	60.5	4.5	69.0
Jul 16		602		38	0		124	768	389	773	124	2	151.5	69.4	4.5	69.0
Jul 17		760		41	0		126	724	348	2,125	163	1	173.8	75.2	4.0	69.0
Jul 18		421		24	1		95	323	158	630	182	0	191.3	66.2	4.0	69.5
Jul 19		540		64	0		87	707	331	1,311	153	0	165.4	62.4	4.0	70.0
Jul 20		416		43	0		50	510	255	410	151	0	157.9	69.4	4.0	70.0
Jul 21		623		57	0		85	758	332	687	124	0	176.3	69.5	4.5	70.0
Jul 22		558		73	0		61	750	345	2,723	129	2	176.3	56.0	4.3	70.0
Jul 23		609		67	0		77	633	310	2,000	123	1	142.8	59.1	4.0	71.0
Jul 24		475		46	0		34	409	205	627	119	1	149.3	69.4	4.8	71.0
Jul 25		347		45	0		49	401	194	1,618	162	3	176.0	59.1	4.5	72.0
Jul 26		236		21	0		14	344	127	357	106	3	151.6	73.6	4.0	71.0
Jul 27		331		42	0		18	651	310	1,638	162	0	185.9	59.7	4.5	72.0
Jul 28		360		41	0		19	639	273	329	86	0	151.3	57.7	4.5	71.0
Jul 29		331		34	0		18	393	164	375	55	0	144.6	60.7	4.3	72.0
Jul 30		312		37	0		15	362	140	261	73	1	152.8	60.0	4.0	71.0
Jul 31		373		40	0		8	283	113	369	82	1	149.5	51.6	4.5	71.0
TOTAL		24,780		1,624	1		9,099	15,892	7,473	240,189	3,700	39	174.5	68.1	4.3	69.0
AVG		799		52	0		294	513	241	7,748	119	1	174.5	68.1	4.3	69.0
RUN YEAR																
TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK		COHO ADULT	COHO JACK		SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON				
SPRING	61,827	2,176		1	0		29,917	19,357	8,535	4,607,374	4,398	53				
SUMMER	80,000	3,512														
TOTAL	141,827	5,688														

TABLE 33

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

THE DALLES PROJECT
AUGUST 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Aug 1		413		30	0	0	11	333	130	224	69	1	129.1	51.8	4.0	72.0
Aug 2		432		39	0	0	6	294	114	109	54	0	130.3	53.7	4.0	71.5
Aug 3		374		39	0	0	13	394	145	133	77	2	133.2	58.3	4.0	72.0
Aug 4			466	57	0	0	12	687	264	155	94	0	147.3	54.1	4.3	71.5
Aug 5			425	32	0	0	13	987	355	162	55	0	136.0	51.7	4.0	70.5
Aug 6			395	36	3	1	8	1,412	488	244	84	1	128.6	50.9	5.0	70.0
Aug 7			337	37	0	0	2	1,012	352	604	84	3	126.5	49.5	5.0	71.0
Aug 8			274	50	1	1	1	620	200	192	72	1	125.8	48.6	4.5	71.0
Aug 9			329	52	2	0	4	898	304	236	85	0	122.3	59.3	4.5	70.0
Aug 10			292	32	0	0	4	691	212	126	74	4	149.3	52.5	4.5	70.0
Aug 11			266	53	0	0	2	978	274	214	56	0	131.8	51.2	5.0	70.0
Aug 12			252	42	0	0	8	1,044	296	223	60	1	127.9	46.0	5.0	70.0
Aug 13			224	25	5	0	6	1,311	397	193	39	1	113.4	40.1	5.0	70.0
Aug 14			266	28	0	0	1	758	216	117	77	4	100.6	39.2	5.0	71.5
Aug 15			294	53	2	1	1	956	286	125	119	6	100.4	41.5	4.0	71.0
Aug 16			248	24	2	0	1	586	140	85	66	1	104.7	51.7	5.0	70.5
Aug 17			420	54	11	0	4	1,088	259	97	54	2	128.9	48.1	5.0	70.0
Aug 18			307	41	7	0	2	1,174	322	69	40	1	120.8	62.5	5.0	70.0
Aug 19			943	105	16	2	2	3,182	863	250	38	0	156.1	48.5	5.0	70.0
Aug 20			530	78	24	2	1	2,863	800	122	34	2	122.2	48.9	5.0	70.0
Aug 21			499	83	16	4	0	1,586	445	64	69	3	122.2	49.3	5.0	70.0
Aug 22			360	44	6	1	0	900	224	35	81	3	123.0	53.2	5.5	71.0
Aug 23			576	102	25	4	1	1,102	275	58	49	3	133.0	52.9	5.0	70.0
Aug 24			805	92	58	1	0	2,324	545	35	32	2	133.6	53.9	5.0	70.0
Aug 25			1,193	112	159	9	0	3,513	849	32	63	2	136.5	57.7	5.0	70.0
Aug 26			1,629	149	156	1	1	3,173	733	34	38	1	143.9	69.9	5.0	70.0
Aug 27			2,417	194	270	9	0	3,264	786	42	50	1	174.3	50.6	5.0	71.0
Aug 28			1,884	212	218	6	1	1,770	394	163	48	1	127.9	51.5	5.0	71.0
Aug 29			1,291	98	114	14	0	933	185	11	53	1	127.1	53.3	5.0	71.0
Aug 30			1,664	222	143	13	0	1,464	315	40	75	2	134.7	51.9	5.0	70.5
Aug 31			2,167	232	214	20	0	2,587	502	24	20	2	128.3	47.6	5.0	70.0
TOTAL		1,219	20,753	2,447	1,452	89	105	43,884	11,670	4,218	1,909	51				
AVG.		406	741	79	47	3	3	1416	376	136	62	2	129.7	51.6	4.8	70.5

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	61,827	2,176
SUMMER	81,219	3,620
FALL	20,753	2,339
TOTAL	163,799	8,135

COHO ADULTS	COHO JACKS	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
1,453	89	30,022	63,241	20,205	4,611,592	6,307	104

TABLE 34

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

THE DALLES PROJECT
SEPTEMBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Sep 1			3,114	379	209	14	0	3,781	750	0	76	0	119.0	0.0	4.5	70.0
Sep 2			5,232	313	410	32	0	5,755	1,176	0	25	2	92.7	0.0	5.0	70.0
Sep 3			4,058	407	496	38	0	7,164	1,391	0	34	2	72.9	0.0	5.0	70.0
Sep 4			7,320	264	655	52	0	5,835	1,301	0	8	0	93.6	0.0	5.0	70.0
Sep 5			5,724	528	506	53	0	5,917	1,257	0	28	0	99.2	0.0	5.0	70.0
Sep 6			4,244	521	459	60	0	4,659	1,081	0	23	1	96.9	0.0	5.0	69.5
Sep 7			3,990	642	400	98	0	6,078	1,335	0	36	3	99.2	0.0	5.5	70.0
Sep 8			5,344	789	673	120	0	7,991	1,757	0	5	2	97.7	0.0	5.5	69.0
Sep 9			7,622	495	1,633	100	2	6,160	1,493	0	9	0	83.9	0.0	6.0	69.0
Sep 10			6,939	585	1,545	54	0	7,575	1,567	2	15	1	89.2	0.0	6.0	69.0
Sep 11			7,000	464	927	38	0	3,158	732	0	16	1	87.5	0.0	5.0	69.0
Sep 12			3,535	515	668	78	0	3,435	670	0	11	0	104.2	0.0	5.5	68.0
Sep 13			2,802	288	310	46	0	2,143	494	0	16	0	91.0	0.0	6.0	68.0
Sep 14			2,690	336	420	66	0	3,287	676	0	12	1	91.1	0.0	6.0	67.0
Sep 15			3,167	276	460	82	0	4,170	865	0	16	0	102.1	0.0	6.0	68.0
Sep 16			4,372	395	528	106	0	5,649	1,129	0	29	0	99.7	0.0	6.0	68.0
Sep 17			3,835	414	608	139	0	5,439	1,021	0	33	0	79.7	0.0	5.8	68.0
Sep 18			2,812	318	440	52	2	3,741	790	0	38	0	68.6	0.0	5.0	68.0
Sep 19			3,169	278	253	45	0	1,869	408	0	15	1	80.2	0.0	5.3	68.5
Sep 20			3,984	664	239	62	0	3,586	699	0	16	0	82.3	0.0	5.5	68.5
Sep 21			4,549	541	279	67	0	3,343	672	0	5	1	93.4	0.0	5.5	68.5
Sep 22			5,288	724	608	79	0	7,640	1,460	0	12	1	92.2	0.0	5.5	68.0
Sep 23			5,381	884	858	136	0	8,840	1,762	0	14	0	120.6	0.0	3.5	66.0
Sep 24			4,595	824	687	76	0	6,388	1,215	0	15	0	97.7	0.0	4.0	67.0
Sep 25			3,228	804	542	86	0	3,508	790	0	9	0	75.4	0.0	4.5	66.0
Sep 26			1,466	532	338	49	0	2,545	541	0	3	1	77.0	0.0	6.0	68.0
Sep 27			1,466	460	231	80	0	1,992	407	0	11	1	75.6	0.0	6.0	68.0
Sep 28			2,126	546	134	47	0	1,952	428	1	8	0	104.2	0.0	6.0	68.0
Sep 29			3,513	845	212	66	0	2,510	504	0	5	0	107.4	0.0	5.5	69.5
Sep 30			3,099	517	297	34	0	2,735	540	0	2	0	75.0	0.0	6.0	64.0
TOTAL			125,664	15,548	16,025	2,055	4	138,845	28,911	3	545	18				
AVG.			4,189	518	534	69		4,628	964	0	18	1	91.6	0.0	5.4	68.4

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	61,827	2,176
SUMMER	81,219	3,620
FALL	146,417	17,887
TOTAL	289,463	23,683

COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	PINK
17,478	2,144	30,026	202,086	49,116	4,611,592	6,852	122	3

TABLE 35

MONTHLY FISH PASSAGE SUMMARY REPORT

THE DALLES PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

OCTOBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	CHUM	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Oct 1			2,485	743	428	51		2,875	584	0	3	0	75.3	0.0	6.0	65.5
Oct 2			3,098	382	1,284	22		3,093	741	0	1	0	71.8	0.0	5.5	66.0
Oct 3			1,495	305	446	28		2,678	525	0	2	0	86.6	0.0	5.8	68.5
Oct 4			1,307	330	85	6		1,066	238	0	0	0	88.9	0.0	5.0	71.0
Oct 5			1,369	225	112	9		1,232	311	0	2	1	109.6	0.0	5.5	68.0
Oct 6			1,341	235	188	13		2,465	607	0	9	0	91.6	0.0	5.8	69.0
Oct 7			1,334	149	1,142	23		2,598	523	0	2	0	82.4	0.0	4.5	64.0
Oct 8			865	205	505	14		1,817	389	0	8	0	90.6	0.0	5.0	64.0
Oct 9			589	57	248	8		1,124	229	0	0	0	100.4	0.0	4.8	64.5
Oct 10			942	82	425	10		1,056	190	0	5	0	103.0	0.0	5.5	64.0
Oct 11			914	79	251	3		1,242	296	0	2	0	99.4	0.0	5.5	63.5
Oct 12			854	89	172	2		890	218	0	3	0	97.0	0.0	6.0	64.0
Oct 13			494	85	163	8		947	231	0	2	0	114.5	0.0	5.8	*
Oct 14			373	29	138	8		564	116	0	1	0	112.0	0.0	6.0	*
Oct 15			272	37	142	2		528	118	0	1	0	87.4	0.0	6.0	64.5
Oct 16			415	16	115	3		414	112	0	0	0	59.3	0.0	6.0	63.0
Oct 17			693	40	2,211	30		1,528	409	0	1	0	81.8	0.0	5.3	66.5
Oct 18			637	39	1,080	35		1,169	283	0	0	0	87.8	0.0	5.3	65.0
Oct 19			434	38	537	10		815	241	0	0	0	96.8	0.0	5.5	64.5
Oct 20			555	30	768	7		891	225	0	0	0	80.5	0.0	5.5	64.0
Oct 21			383	30	330	2		713	227	0	0	0	85.5	0.0	5.0	62.0
Oct 22			379	29	189	0		750	198	0	0	0	99.2	0.0	4.3	62.0
Oct 23			282	32	100	0		559	167	0	0	0	80.6	0.0	5.5	61.0
Oct 24			265	26	133	2		559	145	0	0	0	97.2	0.0	5.5	60.0
Oct 25			168	31	73	4		337	122	0	0	0	85.5	0.0	5.8	*
Oct 26			159	8	124	1		289	65	0	0	0	100.9	0.0	5.5	*
Oct 27			138	16	205	5		321	91	0	0	0	102.1	0.0	4.8	*
Oct 28			122	11	194	2		249	59	0	0	0	103.0	0.0	*	*
Oct 29			98	15	184	6		248	49	0	0	0	85.0	0.0	*	*
Oct 30			74	6	153	5		295	73	1	0	0	68.0	0.0	*	*
Oct 31			105	22	125	5		225	49	0	0	0	113.9	0.0	4.8	*
TOTAL			22,639	3,421	12,250	324		33,537	7,831	1	42	1				

AVG.			730	110	395	10		1,082	253	0	1	0	91.5	0.0	5.4	64.8
------	--	--	-----	-----	-----	----	--	-------	-----	---	---	---	------	-----	-----	------

* Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	PINK	CHUM
TOTALS TO DATE												
SPRING	61,827	2,176			29,728	2,468	30,026	235,623	56,947	4,611,592	6,894	123
SUMMER	81,219	3,620									3	1
FALL	169,056	21,308										
TOTAL	312,102	27,104										

Note: Visual counts ended October 31.

TABLE 36

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

THE DALLES PROJECT
NOVEMBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	CHUM	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Nov 1			219	18	227	7		526	118	0			125.6	0.0	5.0	*
Nov 2			199	13	118	8		396	98	0			122.7	0.0	5.3	*
Nov 3			148	7	70	2		337	85	0			123.3	0.0	5.0	*
Nov 4			166	14	360	9		387	114	0			80.1	0.0	*	*
Nov 5			102	12	517	25		502	97	0			90.6	0.0	*	*
Nov 6			155	14	305	13		381	111	1			97.1	0.0	*	*
Nov 7			135	2	138	6		394	111	0			99.2	0.0	5.0	*
Nov 8			64	2	109	0		283	73	0			94.1	0.0	*	*
Nov 9			42	4	56	0		436	49	0			176.9	0.0	*	*
Nov 10			67	6	23	0		431	56	0			152.2	0.0	*	*
Nov 11			55	0	20	0		673	59	0			169.7	0.0	*	*
Nov 12			56	1	14	0		679	85	0			143.2	0.0	*	*
Nov 13			55	0	17	0		863	83	0			136.3	0.0	*	*
Nov 14			46	2	11	0		932	86	1			148.8	0.0	4.8	*
Nov 15			54	0	8	0		1,118	91	0			114.7	0.0	4.3	*
Nov 16			63	0	7	0		898	85	0			133.3	0.0	4.3	*
Nov 17			66	2	19	2		635	73	0			139.5	0.0	4.0	*
Nov 18			41	1	6	0		401	97	0			122.7	0.0	*	*
Nov 19			53	2	6	0		458	78	0			124.2	0.0	*	*
Nov 20			43	0	4	0		418	93	0			95.8	0.0	*	*
Nov 21			34	1	4	0		323	55	0			104.0	0.0	*	*
Nov 22			30	1	4	0		256	61	0			121.4	0.0	*	*
Nov 23			18	2	1	0		200	36	0			115.0	0.0	*	*
Nov 24			24	1	6	0		116	29	0			93.4	0.0	*	*
Nov 25			23	0	10	1		151	35	0			115.8	0.0	*	*
Nov 26			12	1	4	0		139	30	0			95.6	0.0	*	*
Nov 27			21	1	3	0		91	22	0			123.3	0.0	*	*
Nov 28			16	0	1	0		72	14	0			114.8	0.0	*	*
Nov 29			12	0	1	0		69	7	0			135.9	0.0	3.5	*
Nov 30			14	0	0	0		76	15	0			146.6	0.0	*	*
TOTAL			2,033	107	2,069	73		12,641	2,046	2						

AVG.			68	4	69	2		421	68	0			121.9	0.0	4.6	
------	--	--	----	---	----	---	--	-----	----	---	--	--	-------	-----	-----	--

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	PINK	CHUM
TOTALS TO DATE												
SPRING	61,827	2,176	29,728	2,468	30,026	235,623	56,947	4,611,592	6,894	123	3	3
SUMMER	81,219	3,620										
FALL	169,056	21,308										
TOTAL	312,102	27,104										

Note: Video counts occurred from November 1 through December 4. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Video was disrupted resulting in lost data on the 7th and 8th. Official Fall chinook run ended October 31st. November and December totals were not added to fall totals. Pink counts are total for entire calendar year.

TABLE 37

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

THE DALLES PROJECT
DECEMBER 2006
RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL		CHUM	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL					STEELHEAD	WILD STEELHEAD						SECCHI	DEG F
Dec 1			4	0	0			8	1				118.6	0.0	*	*
Dec 2			*	*	*			*	*				115.3	0.0	*	*
Dec 3			6	0	1			48	8				133.7	0.0	*	*
Dec 4			5	1	0			76	18				137.8	0.0	*	*
Dec 5													138.0	0.0	*	*
Dec 6													145.3	0.0	*	*
Dec 7													142.4	0.0	*	*
Dec 8													136.1	0.0	*	*
Dec 9													128.5	0.0	*	*
Dec 10													128.0	0.0	*	*
Dec 11													138.0	0.0	*	*
Dec 12													112.3	0.0	*	*
Dec 13													125.9	0.0	*	*
Dec 14													134.2	0.0	*	*
Dec 15													185.0	0.0	*	*
Dec 16													138.4	0.0	*	*
Dec 17													89.4	0.0	*	*
Dec 18													153.3	0.0	*	*
Dec 19													154.5	0.0	*	*
Dec 20													148.5	0.0	*	*
Dec 21													133.3	0.0	*	*
Dec 22													148.3	0.0	*	*
Dec 23													132.4	0.0	*	*
Dec 24													121.9	0.0	*	*
Dec 25													108.4	0.0	*	*
Dec 26													132.7	0.0	*	*
Dec 27													114.6	0.0	*	*
Dec 28													151.3	0.0	*	*
Dec 29													132.9	0.0	*	*
Dec 30													137.6	0.0	*	*
Dec 31													123.2	0.0	*	*
TOTAL			15	1	1			132	27							
AVG.			5	0	0			44	9				133.5	0.0		

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	PINK	CHUM
TOTALS TO DATE												
SPRING	61,827	2,176	29,728	2,468	30,026	235,623	56,947	4,611,592	6,894	123	3	3
SUMMER	81,219	3,620										
FALL	169,056	21,308										
TOTAL	312,102	27,104										

Note: Video counts occurred from November 1 through December 4. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Video was disrupted resulting in lost data on Dec 1 and Dec 2.

TABLE 38

YEARLY TOTALS OF SALMONIDS COUNTED OVER THE DALLES DAM
1957 - 2006

YEAR	CHINOOK*	STEELHEAD	SOCKEYE	COHO*	CHUM	PINK	TOTALS
1957	312,678	129,361	90,201	6,793	75	4	539,112
1958	301,960	121,420	111,039	2,395	31	5	536,850
1959	207,461	156,090	86,259	2,709	25	9	452,553
1960	196,962	111,189	59,441	3,000	35	5	370,632
1961	201,335	134,572	16,689	2,139		4	354,739
1962	187,132	163,301	27,127	3,696		5	381,261
1963	180,969	118,957	56,931	3,716	23	3	360,599
1964	183,842	110,033	79,042	5,978		5	378,900
1965	195,049	141,052	44,279	17,468	1	3	397,852
1966	240,671	146,172	147,886	32,279		1	567,009
1967	280,112	121,614	120,589	32,015	1	4	554,335
1968	262,975	147,481	116,897	42,687		1	570,041
1969	314,258	112,529	37,226	17,054		1	481,068
1970	261,457	99,187	77,678	23,219		4	461,545
1971	250,528	151,348	76,103	29,061		3	507,043
1972	268,628	135,303	44,671	16,562			465,164
1973	280,945	100,082	52,303	11,152		1	444,483
1974	217,181	70,875	28,827	14,655			331,538
1975	217,283	57,675	43,198	13,976			332,132
1976	216,163	82,568	27,747	19,392			345,870
1977	224,950	133,882	86,252	10,021			455,105
1978	199,228	60,485	11,845	18,877			290,435
1979	150,647	83,364	32,791	8,726		4	275,532
1980	113,951	93,963	42,088	6,326			256,328
1981	135,176	113,268	35,447	6,941		1	290,833
1982	172,682	117,434	33,331	7,383			330,830
1983	156,190	171,055	84,204	3,459	1		414,909
1984	203,920	219,123	101,177	3,142		1	527,363
1985	370,982	276,025	117,254	4,625		5	768,891
1986	443,013	281,953	48,477	4,842	3	4	778,292
1987	421,190	217,768	87,599	3,310	1	2	729,870
1988	378,080	198,499	55,802	9,226			641,607
1989	282,168	235,639	39,672	12,611			570,090
1990	207,556	129,271	40,230	4,645			381,702
1991	153,023	199,853	63,405	9,601		103	425,985
1992	168,507	232,179	66,384	3,825		3	470,898
1993	184,953	124,829	62,252	4,360			376,394
1994	161,758	112,253	9,356	4,376			287,743
1995	141,793	145,844	7,166	3,269			298,072
1996	167,911	162,456	25,055	4,583			360,005
1997	223,801	164,756	32,430	4,729			425,716
1998	154,132	116,682	8,826	8,970			288,610
1999	199,491	156,874	13,715	15,041		19	385,140
2000	316,836	205,241	73,383	29,536		1	624,997
2001	629,334	503,327	102,562	64,557			1,299,780
2002	583,155	387,920	40,554	12,786			1,024,415
2003	608,153	273,172	34,176	45,374	29	128	961,032
2004	562,737	241,123	107,466	41,645	5	0	952,976
2005	389,905	244,213	65,273	36,129	0	23	735,543
2006	341,371	249,223	30,026	34,339	3	3	654,965
Totals	13,224,182	8,262,483	2,902,331	727,200	233	355	25,116,784
10-Year Average	400,892	254,253	50,841	29,311			735,317

*Jacks included

TABLE 39

MONTHLY COUNT OF CHINOOK SALMON
THE DALLES DAM 1957 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	SPRING	SUMMER	FALL	JACKS
														1 JAN-3 JUN	4 JUN-3 AUG	4 AUG-31 DEC	
1957			22	42,161	59,410	86,096	35,643	28,828	56,753	3,564	201		312,678	109,723	116,661	86,294	37,374
1958			114	8,268	47,862	59,955	24,381	17,211	141,262	2,788	119		301,960	61,747	80,139	160,074	19,747
1959			8	16,771	32,634	27,799	42,817	20,142	65,229	2,022	39		207,461	50,874	71,362	85,225	39,857
1960				17,073	40,091	52,577	22,549	15,225	46,453	2,720	274		196,962	58,406	75,315	63,241	30,847
1961				43,822	35,059	24,478	24,596	16,866	53,371	3,143			201,335	79,183	50,824	71,328	35,409
1962				33,069	35,629	34,488	21,515	13,461	46,135	2,835			187,132	69,139	57,007	60,986	17,835
1963				19,119	33,207	25,063	20,414	21,865	57,248	4,053			180,969	52,937	47,333	80,699	54,749
1964			340	35,551	24,447	16,801	37,697	17,452	49,811	1,743			183,842	60,691	56,360	66,791	30,900
1965			190	17,870	24,930	17,900	31,072	25,119	74,904	3,064			195,049	43,617	50,107	100,905	67,552
1966			1,068	72,267	22,837	25,530	33,712	14,978	65,380	4,899			240,671	96,628	61,062	82,981	36,482
1967				48,744	22,817	24,718	45,346	23,927	107,427	7,133			280,112	71,976	72,582	135,554	98,817
1968				52,144	45,057	32,827	33,272	22,361	72,209	4,800	205		262,975	98,742	67,391	96,842	64,644
1969			65	19,025	80,162	33,432	27,750	29,330	118,890	5,604			314,258	100,482	61,978	151,798	96,244
1970				53,370	29,670	22,903	23,318	34,906	93,633	3,657			261,457	83,549	48,115	129,793	85,471
1971				28,227	44,181	22,011	29,655	16,190	103,370	6,894			250,528	73,655	51,847	125,026	75,329
1972				68,955	33,508	17,354	29,756	21,828	91,666	5,561			268,628	103,107	48,660	116,861	81,668
1973				94,334	15,040	19,548	19,181	23,341	101,771	7,730			280,945	111,088	38,774	131,083	72,088
1974				13,415	41,902	7,141	22,709	13,964	103,804	14,246			217,181	56,397	30,273	130,511	79,840
1975				18,526	32,869	12,155	26,447	28,973	90,193	8,120			217,283	52,483	39,062	125,738	74,418
1976				20,266	35,434	17,828	20,129	17,278	90,933	14,295			216,163	56,570	38,733	120,860	74,275
1977				72,726	16,672	22,084	22,059	12,266	69,927	9,216			224,950	90,373	44,378	90,199	55,067
1978				52,425	30,472	19,477	15,978	11,251	57,786	11,839			199,228	84,924	34,396	79,908	32,503
1979				13,993	12,569	14,310	17,687	20,458	61,757	9,516	357		150,647	27,297	32,298	91,052	42,886
1980				12,434	15,441	7,948	12,832	12,881	43,675	8,740			113,951	28,237	21,133	64,581	20,016
1981				24,227	16,335	8,491	10,779	15,802	53,840	5,702			135,176	41,160	19,676	74,340	33,919
1982				10,569	33,296	10,058	9,554	17,466	79,487	12,252			172,682	44,750	19,342	108,590	60,165
1983				13,270	22,893	8,766	8,430	12,501	73,942	16,388			156,190	36,856	17,051	102,283	41,335
1984				9,326	23,784	9,992	12,332	23,495	105,786	19,205			203,920	33,848	22,472	147,600	70,798
1985				36,035	39,173	15,785	10,332	37,806	203,470	27,058	1,323		370,982	76,514	25,385	269,083	145,007
1986			175	48,892	36,928	14,175	10,452	22,684	264,091	45,616			443,013	87,004	24,826	331,183	176,461
1987				48,812	27,586	17,923	12,145	50,680	236,216	27,828			421,190	77,453	30,804	312,933	65,115
1988				51,680	20,756	16,644	13,494	66,509	193,490	15,507			378,080	73,663	29,892	274,525	69,631
1989				24,474	27,477	15,539	13,899	58,674	130,931	10,438	736		282,168	53,014	30,555	198,599	28,671
1990			115	36,062	20,749	13,390	9,099	22,152	96,538	9,451			207,556	57,424	22,615	127,517	32,794
1991				14,513	17,313	10,949	7,638	8,384	84,861	9,365			153,023	32,359	18,467	102,197	36,820
1992				38,141	19,414	9,595	5,797	14,589	71,281	9,690			168,507	58,451	14,976	95,080	27,160
1993				42,391	25,824	14,165	6,481	19,297	71,395	5,400			184,953	69,356	20,063	95,534	12,298
1994				6,573	4,938	7,376	8,360	22,910	98,997	12,604			161,758	11,798	15,997	133,963	25,470
1995				3,008	4,244	6,176	7,111	23,094	82,723	15,437			141,793	7,553	13,558	120,682	32,813
1996				5,631	20,896	8,018	6,718	26,505	90,762	9,381			167,911	27,127	14,488	126,296	5,851
1997				25,639	42,467	14,718	8,011	23,666	100,652	8,648			223,801	69,740	21,134	132,704	16,249
1998				14,927	10,488	10,289	6,702	20,129	78,191	13,406			154,132	25,743	16,906	111,483	20,513
1999				5,396	17,579	10,972	13,864	30,830	107,411	13,439			199,491	23,743	24,937	150,811	28,412
2000				68,618	47,131	20,878	15,442	57,600	97,042	10,125			316,836	117,749	35,580	163,507	63,769
2001				228,568	79,627	50,030	35,889	38,452	172,871	23,897			629,334	313,865	80,249	233,081	72,644
2002				63,869	116,008	76,400	45,761	63,943	197,956	19,218			583,155	185,046	118,812	279,297	42,982
2003			11	7,227	84,312	54,173	70,347	43,926	42,146	280,091	33,070	3,085	618,472	149,967	111,931	356,574	62,007
2004				272	74,705	59,127	59,859	30,999	41,935	261,434	32,361	2,017	562,737	138,229	87,925	336,583	48,732
2005			1	44	18,797	41,560	48,505	27,685	25,764	203,518	23,064	958	389,905	64,219	73,136	252,550	24,991
2006				9	1,006	61,711	58,394	26,404	24,419	141,212	26,060	2,140	341,371	64,012	84,839	192,520	27,212
Total				9,749	1,873,996	1,703,377	1,251,857	1,047,819	1,291,533	5,441,775	602,792	11,454	13,234,501	3,662,468	2,291,826	7,277,845	2,595,837
10-Year Average				58,584	52,987	42,039	25,468	36,888	164,038	20,329			401,923	115,231	65,545	220,911	40,751

*Jacks included

TABLE 40

**MONTHLY COUNT OF SOCKEYE SALMON
THE DALLES DAM
1957 - 2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1957					125	33,476	54,294	2,081	221	4			90,201
1958					29	28,854	80,324	1,583	248	1			111,039
1959					413	7,176	76,347	2,245	77	1			86,259
1960					2	36,907	22,228	297	7				59,441
1961					66	5,863	10,629	116	15				16,689
1962					55	8,333	18,545	180	14				27,127
1963					199	17,914	38,633	185					56,931
1964					23	9,984	68,205	758	72				79,042
1965					184	11,023	31,622	1,438	12				44,279
1966					65	36,539	109,167	2,106	9				147,886
1967					114	15,713	103,862	892	8				120,589
1968					5	77,878	38,542	462	10				116,897
1969					22	15,165	21,933	102	3	1			37,226
1970					1	18,309	56,903	2,387	75	3			77,678
1971						8,887	66,841	369	6				76,103
1972						9,276	34,924	466	5				44,671
1973					8	19,510	32,674	105	6				52,303
1974					4	3,935	24,790	98					28,827
1975						7,679	35,291	225	2	1			43,198
1976					1	10,988	16,637	121					27,747
1977					5	60,049	26,146	52					86,252
1978					24	7,158	4,559	104					11,845
1979						14,750	17,734	307					32,791
1980						11,096	30,046	927	19				42,088
1981						17,692	17,686	68	1				35,447
1982						11,430	21,742	144	15				33,331
1983					1	34,684	49,302	197	19	1			84,204
1984						62,500	37,926	745	6				101,177
1985				1	17	75,603	41,107	521	4		1		117,254
1986					12	17,224	30,686	550	4	1			48,477
1987					1	48,798	38,443	348	8	1			87,599
1988					5	30,443	25,096	208	50				55,802
1989					1	22,196	17,321	152	2				39,672
1990						17,603	22,406	218	3				40,230
1991					1	14,106	48,824	443	27	4			63,405
1992					16	38,319	27,812	232	4	1			66,384
1993					2	36,517	25,584	146	3				62,252
1994						6,752	2,594	8	2				9,356
1995					1	4,195	2,890	61	15	4			7,166
1996						17,013	7,983	44	15				25,055
1997					4	11,707	20,292	395	29	3			32,430
1998						4,777	3,978	65	6				8,826
1999						5,210	8,445	57	3				13,715
2000					69	61,980	11,242	88	4				73,383
2001					12	85,939	16,527	82	2				102,562
2002					1	22,714	17,746	93					40,554
2003					8	21,233	12,862	70	3			4	34,180
2004					61	84,332	22,978	94	1				107,466
2005					4	38,474	26,688	98	7	2			65,273
2006					1	20,817	9,099	105	4				30,026
Total					1	1,562	1,288,720	1,588,135	22,838	1,046	28	1	2,902,335
10-Year Average					20	35,718	14,986	115	7				50,842

TABLE 41
 MONTHLY COUNT OF COHO SALMON
 THE DALLES DAM: 1957-2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	JACKS
1957							220	605	5,615	342	11		6,793	
1958								96	2,132	161	6		2,395	
1959								46	2,428	234	1		2,709	
1960								475	2,288	227	10		3,000	
1961							4	5	1,898	232			2,139	
1962							5	258	3,194	239			3,696	
1963							2	361	2,931	422			3,716	
1964								506	4,723	749			5,978	
1965							7	200	13,064	4,197			17,468	
1966							225	3,850	25,476	2,728			32,279	
1967							192	494	27,860	3,469			32,015	20,456
1968							372	3,319	36,568	2,346	82		42,687	13,035
1969							412	970	13,179	2,493			17,054	11,218
1970							96	2,064	19,983	1,076			23,219	11,327
1971							1	1,589	26,066	1,405			29,061	11,174
1972							3	1,090	14,564	905			16,562	10,272
1973								793	9,443	916			11,152	5,256
1974								522	10,715	3,418			14,655	9,054
1975								465	10,356	3,155			13,976	8,534
1976								608	14,609	4,175			19,392	13,083
1977							1	91	8,131	1,798			10,021	6,096
1978								355	13,069	5,453			18,877	13,533
1979								211	7,109	1,367	39		8,726	4,836
1980								287	5,064	975			6,326	2,970
1981								295	6,061	585			6,941	4,405
1982								336	5,792	1,255			7,383	3,047
1983								65	2,343	1,051			3,459	2,256
1984								24	2,521	597			3,142	1,282
1985							4	208	3,537	828	48		4,625	1,555
1986							2	1	3,772	1,067			4,842	1,458
1987							12	91	2,409	798			3,310	1,953
1988								232	7,082	1,912			9,226	2,701
1989								283	9,027	3,173	128		12,611	4,781
1990								60	3,229	1,356			4,645	2,340
1991								30	7,714	1,857			9,601	1,053
1992								11	3,119	695			3,825	1,239
1993								18	3,256	1,086			4,360	3,416
1994							1	121	2,922	1,332			4,376	590
1995							6	204	2,013	1,046			3,269	483
1996							3	73	3,795	712			4,583	967
1997								35	3,649	1,045			4,729	662
1998								7	3,520	5,443			8,970	774
1999								37	11,456	3,548			15,041	1,226
2000								2,248	20,526	6,762			29,536	4,570
2001								1,351	36,099	27,107			64,557	2,179
2002								275	8,286	4,225			12,786	3,021
2003								1,084	29,129	15,161	713	14	46,101	2,853
2004			-1					565	29,591	10,408	1,072	10	41,645	1,919
2005							1	438	20,376	13,814	1,500	0	36,129	2,187
2006							1	1,541	18,080	12,574	2,142	1	34,339	2,468
Total							1,570	28,893	529,769	161,919	5,752		727,927	196,229
10-Year Average							758	18,071	10,009				29,383	2,186

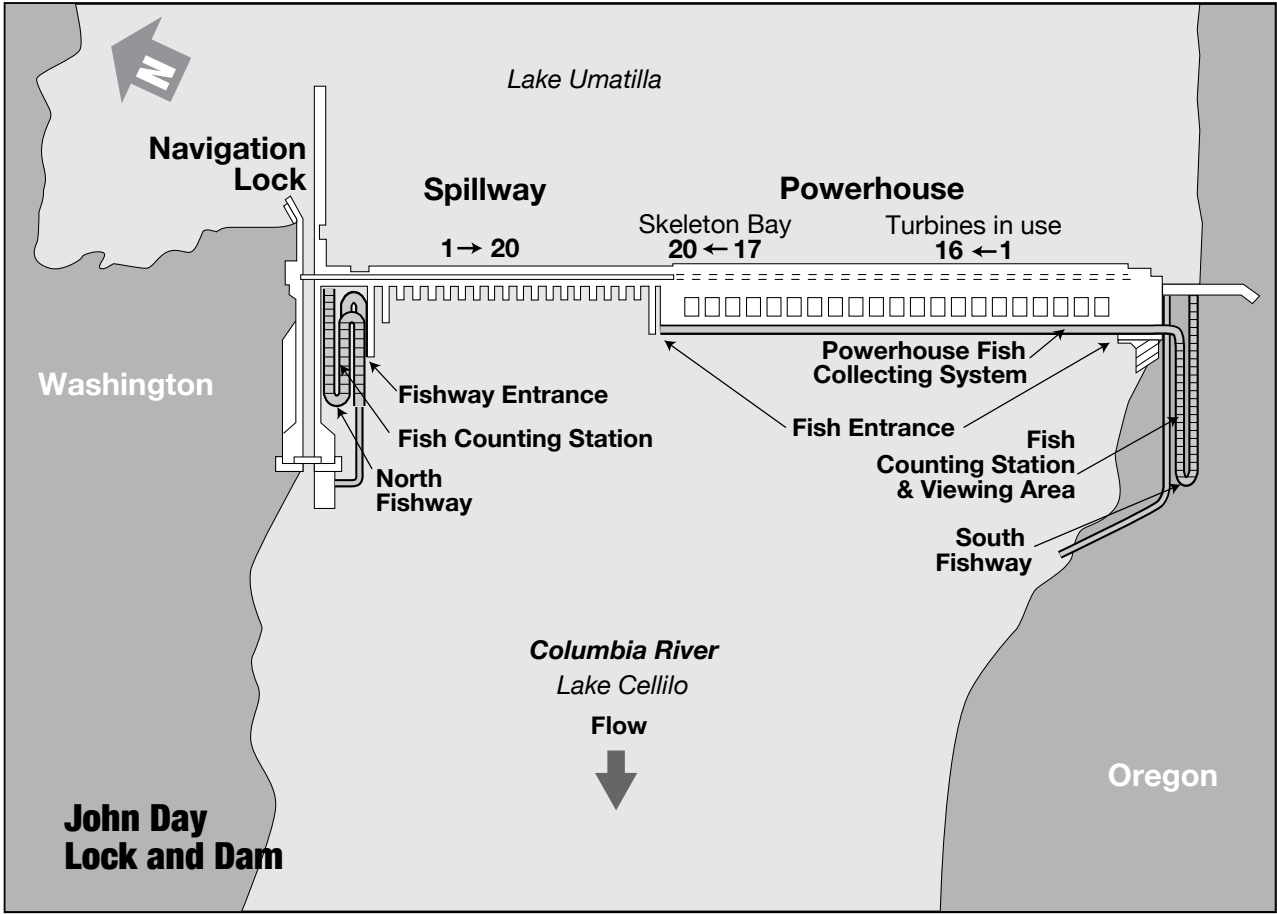
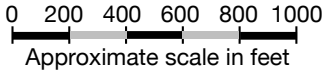
*Includes Jacks

TABLE 42

MONTHLY COUNT OF STEELHEAD
THE DALLES DAM 1957 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1957			1,603	951	977	4,782	45,445	33,319	35,396	6,545	343		129,361
1958			122	274	1,898	4,906	20,384	11,442	75,036	6,846	512		121,420
1959			1	541	502	2,227	46,271	60,841	41,026	4,502	179		156,090
1960				289	557	2,591	28,218	32,667	42,447	4,021	399		111,189
1961				305	307	1,396	21,906	17,850	87,344	5,464			134,572
1962				528	252	1,068	36,609	31,507	87,463	5,874			163,301
1963				153	451	1,361	30,485	25,360	48,066	13,081			118,957
1964			50	369	127	493	36,773	31,742	38,197	2,282			110,033
1965			36	502	484	896	60,522	21,132	53,389	4,091			141,052
1966		25	788	933	600	3,816	52,975	26,382	53,721	6,932			146,172
1967				258	183	435	27,914	22,746	56,082	13,996			121,614
1968			23	691	344	973	20,974	58,866	57,666	7,456	488		147,481
1969			54	953	414	1,442	33,952	22,963	44,146	8,605			112,529
1970				337	172	733	15,905	32,752	44,823	4,465			99,187
1971				408	233	821	40,712	31,812	69,602	7,760			151,348
1972				463	159	604	35,569	30,631	63,748	4,129			135,303
1973				723	326	1,981	29,067	25,437	38,017	4,531			100,082
1974				529	1,362	1,859	24,779	21,835	15,059	5,452			70,875
1975				1,018	1,334	1,973	18,046	20,531	11,519	3,254			57,675
1976				768	1,604	3,357	22,021	30,386	21,586	2,846			82,568
1977				1,666	1,332	5,038	42,859	13,022	61,678	8,287			133,882
1978				834	1,378	3,459	13,493	11,457	26,189	3,675			60,485
1979				478	244	1,942	23,054	21,974	20,961	14,079	632		83,364
1980				2,885	790	2,134	15,114	30,755	34,447	7,838			93,963
1981				1,389	1,632	3,768	34,242	36,537	26,837	8,863			113,268
1982				729	1,289	2,710	22,607	31,410	49,050	9,639			117,434
1983				438	324	1,492	37,029	47,521	75,210	9,041			171,055
1984				846	894	3,715	52,825	36,859	107,377	16,607			219,123
1985				2,405	1,511	5,679	41,534	102,866	107,574	13,337	1,119		276,025
1986			1,395	610	712	4,492	78,494	60,458	111,066	24,726			281,953
1987				1,069	366	3,280	55,395	58,850	76,461	22,347			217,768
1988				2,520	969	3,984	34,612	54,986	85,061	16,367			198,499
1989				1,810	849	3,950	35,167	45,694	119,322	25,880	2,967		235,639
1990			1,169	1,515	920	3,078	17,942	17,772	58,805	28,070			129,271
1991				1,826	630	1,755	25,686	37,560	104,833	27,563			199,853
1992				1,104	743	3,494	18,753	37,269	157,216	13,600			232,179
1993				2,367	731	3,847	17,962	20,194	61,600	18,128			124,829
1994				1,327	391	2,263	11,434	11,703	55,247	29,889			112,254
1995				435	407	2,329	11,953	46,428	59,604	24,688			145,844
1996				669	481	1,981	20,317	61,136	65,400	12,472			162,456
1997				658	483	2,187	18,916	34,055	84,006	24,451			164,756
1998				609	433	2,433	9,911	12,180	62,331	28,785			116,682
1999				279	343	1,625	25,277	56,665	60,762	11,923			156,874
2000				491	319	6,467	37,760	48,697	96,040	15,467			205,241
2001				788	582	13,063	100,501	95,859	226,711	65,823			503,327
2002				2,308	439	7,027	67,132	84,140	170,382	56,492			387,920
2003		485	2,389	801	271	4,882	36,960	35,275	158,525	36,458	6,004	524	282,574
2004		140	1,072	1,066	680	7,116	23,581	30,398	152,302	23,099	1,647	22	241,123
2005		107	688	558	616	4,483	33,476	33,332	126,710	41,174	3,020	49	244,213
2006		16	811	972	252	2,241	15,892	43,884	138,845	33,537	12,641	132	249,223
Total			10,201	46,445	33,297	153,628	1,628,405	1,849,137	3,724,885	794,437	29,951		8,271,886
10-Year Average			853	442	5,152	36,941	47,449	127,661	33,721				255,193

Plate 4 John Day Lock and Dam



JOHN DAY DAM

FISH COUNTING SCHEDULE

Feb 20 – Mar 31	Video counting daily 0400-2000 hours Pacific Standard Time.
Apr 1 – Oct 31	Visual counting daily 0400-2000 hours Pacific Standard Time.
Nov 1 – Dec 5	Video counting daily 0400-2000 hours Pacific Standard Time.

FISHWAY OPERATING SCHEDULE

Total length of time for annual fishway outages can be determined by referring to previous years' annual reports. "Out of service" indicates fish ladder dewatered and auxiliary water system off for routine annual maintenance. Dive inspections were conducted 8/17/06, per Fish Passage Plan, requiring a short period of fishway outage, with the auxiliary water system off.

South Adult Fishway

- 1/1-1/23: in service
- 1/24-2/18: out of service
- 2/19-12/31: in service

North Adult Fishway

- 1/1-1/16: out of service
- 1/17-12/3: in service
- 12/4 -12/31: out of service

Smolt Monitoring Facility

- 1/1-4/2: out of service
- 4/3-9/13: in service
- 9/14-12/31: out of service

Juvenile Bypass System

- 1/1-4/1: 1/3 gatewell orifice open
- 4/1-12/15: full operation
- 12/15-12/31: 1/3 gatewell orifice open

Spillway

- 1/1-4/9: closed (except for a few tests):
 - 4/10-8/31: spill 30% from 0600-1900, 60% from 1900-0600
 - 9/1-11/31: Bay 2 only, 1.5 KCFS daylight hours only (attraction water for north fishway)
 - 12/1-12/31: closed
-

FISH RELATED DEWATERINGS

FISHWAY DEWATERING PROCEDURES

Bulkheads are installed and drain valves open to dewater various areas of fishways. Fisheries personnel enter these areas to salvage fish that become entrapped. Minimal handling of fish is applied. Fish that are reluctant to vacate an area are captured and transported to the forebay or tailwater, depending on circumstances such as fish species, age class and stress levels. A follow up inspection is made to account for possible missed fish. Efforts are made to provide continual water supply during the entire operation to reduce fish stranding. Fishway areas not included on this list are inspected by divers.

Fishway Dewaterings

South ladder (1/24) – Annual inspection and maintenance. Thirteen juvenile steelhead released to tailwater.

North ladder (12/4)- Annual inspection and maintenance. Ten juvenile steelhead, 3 adult steelhead and 2 lamprey released to river. One hundred and seventy two lamprey provided to Nez Perce tribe for restocking program.

Juvenile Bypass System (12/19) – Annual inspection and maintenance dewatering attempted. Could not access due to leakage. Postponed until Jan '07.

Smolt Monitor Facility (9/14) – Dewatered for winter. One small sturgeon, approximately 100 adult salmonids and several hundred shad were flushed to tailwater.

Fishway Dives

South collection channel ROV (8/18) – Annual mid season inspection. All grating found in good condition.

TURBINE DEWATERING PROCEDURES

Turbine dewatering for routine maintenance usually involves low numbers of fish, due to operational guidelines. If a turbine unit fails, operational guidelines cannot always be followed, which usually results in higher numbers of fish entrapment. Removal of fish from these areas has a greater fish stress risk due to handling. Procedures are continually analyzed to determine the best method for preventing fish stress or loss. Fish are removed from scroll case and draft tubes by fish bags. If numbers of fish are higher than two bags, transport tanks are placed in the draft tube gallery for transport by crane. Fish are released to tailwater either with bag and rope or tank and crane.

Turbine Dewaterings

Main turbine unit 16 (4/20) – Routine maintenance. No fish in scroll case. Four catfish removed from draft tube and released to river.

Main turbine unit 2 (5/9) – Routine maintenance. No fish in scroll case. Ten sturgeon and 30 catfish removed from draft tube and released to river.

FISHWAY INSPECTION COMPARISON

Three adult fishway inspections are conducted per day during the adult fish passage season (March 1 to November 31). One adult fishway inspection is conducted per day during the non- passage season. Items shown in *italics* are inspected once per day. All other items are inspected during every fishway inspection. Guidelines are provided by the COE Fish Passage Plan. Weekly fishway status reports are provided throughout the year. Inspections of the John Day Smolt Monitor Facility are made once per two hours, 24 hours per day during the juvenile sampling season (April 1 to Sept 15.) SMF status reports are included in the weekly fishway status report. Increased or continual problem areas indicated in bold. Values are rounded to the nearest whole percent.

FISHWAY INSPECTION RESULTS

<u>Criteria Item</u>	<u>2006</u>	<u>2005</u>	<u>2004</u>	<u>2003</u>
South Fishway				
Exit differential	0	0	0	0
<i>Count station differential</i>	0	0	0	0
<i>Weir crest depth</i>	1	0	2	0
SE1 differential	1	1	0	1
SE1 entrance depth	1	4	4	3
<i>Collection channel velocity</i>	14	23	26	20
NE1/NE2 differential	1	3	0	1
NE1 entrance depth	4	3	0	0
NE2 entrance depth	3	5	2	1
North Fishway				
Exit differential	1	0	0	0
<i>Count station differential</i>	0	0	1	0
<i>Weir crest depth</i>	0	0	6	4
EW1/EW2 differential	4	6	0	3
EW1 entrance depth	2	7	4	6
EW2 entrance depth	2	1	closed	closed
<i>JBS Conduit differential</i>	1	1	1	4
<i>Spill Pattern</i>	0	0	0	0
<i>Turbine operation priority</i>	37	0	6	-
<i>Turbine 1% operation</i>	0	0	0	1

Discussion

Overall , criteria operation continues to be as good as previous years. Velocity in the collection channel with a single meter still shows some problems.

The substantial increase in turbine unit priority was due to a transformer (T1) failure during the spring/summer, which accounted for all the criteria outages.

EW1 weir had a structural failure early fall. It was blocked with a bulkhead and EW2 was opened in its place. EW2 was manually adjusted as needed.

TABLE 43

MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER JOHN DAY DAM

2006

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*
CHINOOK*				420	49,051	50,206	28,688	14,821	118,233	27,015	1,710	17	290,161
STEELHEAD		32	1,252	2,104	343	2,575	15,719	25,008	125,323	46,050	12,909	40	231,355
SOCKEYE						20,279	14,949	154	5	0			35,387
COHO*								613	20,825	12,340	4,543	53	38,374
CHUM										1			1
PINK							1	0	1	1			3
TOTAL			1,252	2,524	49,394	73,060	59,357	40,596	264,387	85,407	19,162	110	595,281
LAMPREY				0	13	307	5,383	3,010	790	97			9,600

*Jacks Included

Counts are from February 20 to December 4. Visual counts occurred from April 1 to October 31. All other counts were from video.

Lamprey are not counted during video counts.

TABLE 44

DISCHARGE AND WATER QUALITY DATA

JOHN DAY PROJECT 2006

JANUARY

DATE	DISCH	SPILL	TURBIDITY	
	KCFS	KCFS	SECCHI	DEG F
Jan 1	181.1	0.0	1.5	40.0
Jan 2	185.9	0.0	2.0	41.0
Jan 3	184.5	0.0	1.5	41.0
Jan 4	157.4	0.0	3.0	42.0
Jan 5	156.6	0.0	1.5	42.0
Jan 6	148.4	0.0	1.5	42.0
Jan 7	146.0	0.0	2.0	42.0
Jan 8	132.7	0.0	2.0	42.0
Jan 9	153.2	0.0	3.0	42.0
Jan 10	127.2	0.0	3.5	41.0
Jan 11	142.4	0.0	5.5	42.0
Jan 12	175.2	0.0	5.5	42.0
Jan 13	204.2	0.0	4.0	42.0
Jan 14	184.1	0.0	5.0	42.0
Jan 15	167.0	0.0	5.5	41.0
Jan 16	176.1	0.0	3.5	42.0
Jan 17	183.4	0.0	3.0	42.0
Jan 18	192.8	0.0	3.5	42.0
Jan 19	194.3	0.0	2.5	42.0
Jan 20	211.1	0.0	2.0	42.0
Jan 21	197.5	0.0	2.5	42.0
Jan 22	165.4	0.0	3.0	41.0
Jan 23	182.2	0.0	2.5	41.0
Jan 24	153.9	0.0	3.0	42.0
Jan 25	172.0	0.0	*	41.0
Jan 26	168.9	0.0	6.0	41.0
Jan 27	161.5	0.0	6.0	42.0
Jan 28	148.1	0.0	5.5	41.0
Jan 29	124.7	0.0	5.5	41.0
Jan 30	169.9	0.0	5.0	41.0
Jan 31	169.8	0.0	5.0	41.0

AVG. 168.3 0.0 3.5 41.5

* Data unavailable

TABLE 45

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JOHN DAY PROJECT
FEBRUARY 2006

DATE	FISH COUNTS										RIVER CONDITIONS					
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCH	DEG F
Feb 1												177.7	0.0	4.0	41.0	
Feb 2												179.8	0.0	4.5	41.0	
Feb 3												162.7	0.0	4.5	41.0	
Feb 4												117.4	0.0	4.5	41.0	
Feb 5												166.4	0.0	4.5	41.0	
Feb 6												184.6	0.0	5.0	41.0	
Feb 7												195.1	0.0	6.0	41.0	
Feb 8												155.1	0.0	*	*	
Feb 9												179.0	0.0	5.5	41.0	
Feb 10												176.5	0.0	6.0	41.0	
Feb 11												160.4	0.0	6.0	41.0	
Feb 12												142.0	0.0	6.0	40.0	
Feb 13												185.6	0.0	5.0	41.0	
Feb 14												175.6	0.0	5.0	40.0	
Feb 15												174.9	0.0	5.0	40.0	
Feb 16												175.6	0.0	5.5	40.0	
Feb 17												185.7	0.0	5.5	40.0	
Feb 18												171.4	0.0	5.5	40.0	
Feb 19												157.3	0.0	5.5	39.0	
Feb 20								3	0			168.0	0.0	5.5	39.0	
Feb 21								-8	1			164.5	0.0	5.5	39.0	
Feb 22								8	0			165.4	0.0	4.0	38.0	
Feb 23								9	0			173.5	0.0	4.5	39.0	
Feb 24								1	0			179.0	0.0	5.0	38.0	
Feb 25								0	0			165.9	0.0	6.0	38.0	
Feb 26								8	0			120.1	0.0	5.5	38.0	
Feb 27								10	0			155.3	0.0	5.0	39.0	
Feb 28								1	0			177.3	0.0	6.0	39.0	
TOTAL								32	1							
AVG.								4	0			167.6	0.0	5.2	39.9	

*Data not available

Note: From February 20 to March 31, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.

TABLE 46

MONTHLY FISH PASSAGE SUMMARY REPORT

JOHN DAY PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

MARCH 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	WILD		PINK	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL					STEELHEAD	STEELHEAD						SECCH	DEG F
Mar 1								0	0				194.3	0.0	4.8	39.5
Mar 2								-5	1				158.4	0.0	5.5	39.5
Mar 3								12	0				140.7	0.0	6.0	40.0
Mar 4								21	0				113.6	0.0	5.8	41.0
Mar 5								44	0				133.2	0.0	4.3	41.0
Mar 6								47	1				162.8	0.0	5.5	41.0
Mar 7								-4	0				173.2	0.0	4.8	41.5
Mar 8								3	0				157.5	0.0	5.3	41.0
Mar 9								23	2				179.7	0.0	5.3	41.0
Mar 10								29	2				179.4	0.0	5.3	41.5
Mar 11								10	-2				173.7	0.0	6.0	41.5
Mar 12								0	0				156.0	0.0	5.5	41.0
Mar 13								5	0				150.6	0.0	5.5	41.5
Mar 14								-17	0				133.8	0.0	5.0	41.5
Mar 15								-24	0				175.1	0.0	5.0	41.0
Mar 16								48	8				174.1	0.0	5.0	41.5
Mar 17								59	1				129.2	0.0	5.5	41.5
Mar 18								8	2				120.5	0.0	5.8	41.0
Mar 19								21	6				136.8	0.0	5.5	42.0
Mar 20								27	1				146.7	0.1	5.5	42.0
Mar 21								43	2				140.6	0.0	5.3	42.5
Mar 22								41	2				173.6	0.0	5.0	43.0
Mar 23								82	4				164.9	0.0	5.3	44.0
Mar 24								107	2				103.8	0.0	5.5	45.0
Mar 25								143	4				124.8	0.0	6.0	45.0
Mar 26								113	8				129.4	0.0	6.0	44.5
Mar 27								79	6				166.2	0.0	4.8	45.0
Mar 28								78	1				174.0	0.0	4.5	45.5
Mar 29								133	16				157.1	0.0	4.8	45.5
Mar 30								97	2				176.7	0.0	5.0	47.0
Mar 31								29	3				187.6	0.0	5.3	47.0
TOTAL								1,252	72							
AVG.								40	2				154.5	0.0	5.3	42.4

Note: From February 20 to March 31, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Video disruption resulted in lost data on the 31st. Official Spring Chinook run started April 1. March Chinook counts were not added to spring totals.

TABLE 47

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JOHN DAY PROJECT
APRIL 2006

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Apr 1	2			0				130	62			164.2	0.0	5.5	47.0
Apr 2	3			-2				247	118			174.2	0.0	5.5	47.0
Apr 3	0			0				174	58			194.8	0.0	4.8	46.0
Apr 4	2			0				96	30			205.2	0.0	4.8	47.0
Apr 5	0			0				141	43			217.7	17.2	4.5	47.8
Apr 6	0			0				88	38			274.9	45.8	4.3	47.5
Apr 7	1			0				168	60			316.1	67.6	4.3	48.0
Apr 8	4			0				108	26			248.0	12.6	4.3	48.0
Apr 9	-2			0				70	2			280.7	42.5	4.0	47.5
Apr 10	4			0				111	60			317.4	100.9	3.8	48.5
Apr 11	1			0				151	70			327.6	115.1	3.5	47.0
Apr 12	5			0				111	76			303.2	115.5	3.3	48.5
Apr 13	8			0				123	74			300.8	110.5	3.3	48.0
Apr 14	4			0				54	33			300.8	130.3	3.5	49.0
Apr 15	3			0				48	29			330.9	151.1	3.5	48.5
Apr 16	2			0				17	8			361.4	187.5	3.8	48.0
Apr 17	0			0				39	18			342.5	150.7	3.8	48.5
Apr 18	1			0				26	18			364.4	139.0	3.5	48.5
Apr 19	10			0				28	17			335.6	128.1	3.0	48.0
Apr 20	5			0				11	5			352.0	143.0	3.0	48.5
Apr 21	3			0				16	14			314.0	97.5	2.8	48.5
Apr 22	24			0				43	36			295.3	88.8	3.0	50.5
Apr 23	8			0				16	12			315.7	101.2	2.8	50.0
Apr 24	19			0				22	9			335.1	172.8	3.0	49.0
Apr 25	26			0				9	7			301.0	140.3	3.0	50.0
Apr 26	15			-2				13	12			319.2	130.1	2.5	50.0
Apr 27	18			0				14	13			341.3	133.1	2.8	50.5
Apr 28	50			0				7	5			299.1	108.9	3.0	52.0
Apr 29	71			1				9	6			298.9	108.7	3.0	52.0
Apr 30	136			0				14	13			316.8	106.3	3.0	51.0
TOTAL	423			-3				2,104	972						
AVG.	14			0				70	32			295.0	94.8	3.6	48.7

Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Official Spring Chinook run started April 1. March Chinook counts were not added to spring totals.

TABLE 48

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JOHN DAY PROJECT
MAY 2006

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	STURGEON	RIVER CONDITIONS				
	SPRING	SUMMER	FALL										DISCH KCFS	SPILL KCFS	TURBIDITY SECCH	DEG F	
May 1	168			5				3	2		0		337.0	143.2	3.0	53.0	
May 2	288			11				12	8		0		365.9	182.4	4.0	52.0	
May 3	362			8				4	2		0		354.7	162.4	3.0	52.0	
May 4	343			9				5	2		0		347.9	129.7	3.0	53.0	
May 5	1,053			20				42	13		0		304.3	106.9	3.0	53.0	
May 6	816			12				13	8		0		270.7	91.2	3.3	53.5	
May 7	879			20				7	3		0		323.0	108.8	3.0	53.5	
May 8	2,066			40				13	3		0		314.9	118.6	3.3	53.5	
May 9	2,705			40				-1	-1		0		282.9	99.0	3.3	54.5	
May 10	3,550			40				0	0		0		298.0	109.4	3.8	56.0	
May 11	2,620			43				8	2		0		266.2	109.9	3.8	55.0	
May 12	3,813			66				3	2		1		288.3	118.0	2.8	54.0	
May 13	2,952			72				11	0		0		295.7	116.2	3.0	54.0	
May 14	4,232			178				8	4		0		255.1	100.1	3.0	54.0	
May 15	3,305			163				19	5		0		264.6	84.8	4.0	55.0	
May 16	2,577			145				7	-1		4		266.4	79.8	4.0	56.0	
May 17	2,784			158				21	3		0		303.5	107.4	3.5	58.0	
May 18	2,251			164				4	1		0		345.8	133.1	4.3	58.5	
May 19	1,587			115				5	-1		2		364.4	140.6	3.5	60.0	
May 20	1,449			118				20	1		0		368.8	146.9	4.0	58.0	
May 21	1,200			80				10	1		2		370.0	144.0	3.5	59.5	
May 22	984			31				6	-2		0		369.7	152.7	4.0	59.0	
May 23	1,310			88				32	0		0		368.6	160.5	4.0	59.5	
May 24	952			65				21	0		1		390.0	177.0	4.0	59.5	
May 25	947			64				21	0		-2		368.5	143.7	4.0	59.5	
May 26	538			29				5	0		1		369.4	147.1	3.5	60.0	
May 27	277			44				13	0		0		389.1	194.9	3.0	58.0	
May 28	492			34				5	-1		1		379.4	158.9	3.0	58.0	
May 29	167			10				1	0		1		398.1	170.8	2.5	56.5	
May 30	196			16				22	0		1		387.6	175.2	2.0	56.0	
May 31	287			13				3	2		1		348.2	143.9	2.0	56.0	
TOTAL	47,150			1,901				343	56		13						
AVG.	1521			61				11	2		0		334.1	134.1	3.3	56.1	
RUN YEAR TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK					STEELHEAD	WILD STEELHEAD		LAMPREY						
SPRING		47,573	1,898					2,447	1,028		13						

Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.

TABLE 49

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JOHN DAY PROJECT
JUNE 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCH	DEG F
Jun 1	384			21			0	15	1		1		326.0	131.8	2.3	57.0
Jun 2	664			38			0	7	1		0		302.2	95.5	2.5	59.5
Jun 3	656			48			0	8	-2		1		319.4	119.4	2.5	60.5
Jun 4	567			47			2	3	-1		-1		325.8	120.8	2.8	59.5
Jun 5	469			41			6	12	1		1		325.4	121.5	3.3	60.5
Jun 6		521		39			12	10	2		0		352.4	158.4	3.5	61.0
Jun 7		756		40			52	45	3		1		350.4	165.7	3.3	60.0
Jun 8		946		70			48	88	23		3		352.3	160.2	3.0	60.0
Jun 9		955		24			84	48	13		6		370.5	159.5	3.5	60.0
Jun 10		922		32			67	29	6		6		363.6	154.2	3.5	60.0
Jun 11		825		25			79	25	1		-1		336.8	174.4	3.0	60.5
Jun 12 *		1,762		29			249	41	13		6		349.9	137.7	3.5	61.0
Jun 13		1,479		62			318	57	21		0		337.5	130.1	3.5	61.0
Jun 14		1,792		58			461	49	14		1		346.7	149.7	3.5	61.0
Jun 15		1,517		59			343	49	16		5		365.5	144.2	3.3	61.5
Jun 16		1,100		18			268	43	8		2		345.7	127.5	3.3	61.5
Jun 17		1,005		31			374	54	18		3		332.0	114.8	3.3	61.5
Jun 18		1,487		36			574	37	16		7		326.9	116.3	3.0	61.5
Jun 19		2,166		87			782	104	38		7		294.0	104.4	3.0	61.5
Jun 20		2,387		47			1,116	81	16		14		320.8	136.7	3.3	62.5
Jun 21		1,854		37			662	97	19		1		272.0	103.0	3.3	61.5
Jun 22		2,103		47			743	59	6		10		259.0	108.2	3.8	62.5
Jun 23		2,054		62			965	98	10		20		294.3	105.6	3.8	63.0
Jun 24		2,748		76			1,191	144	28		16		277.7	104.5	3.8	62.5
Jun 25		2,661		75			1,567	116	24		25		213.7	62.3	4.0	64.0
Jun 26		2,673		85			1,996	195	25		30		254.7	85.0	4.0	65.0
Jun 27		3,169		84			2,044	136	26		10		259.9	97.7	4.0	65.0
Jun 28		3,870		197			2,478	383	47		25		221.8	52.8	4.0	64.5
Jun 29		2,643		81			2,580	255	38		52		257.7	59.9	4.0	65.0
Jun 30		2,289		186			1,218	287	83		56		217.0	40.6	4.0	66.0

TOTAL	2,740	45,684		1,782			20,279	2,575	514		307		309.1	118.1	3.4	61.7
AVG.	548	1,827		59			676	86	17		10					

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
TOTALS TO DATE						
SPRING	50,313	2,093	20,279	5,022	1,542	320
SUMMER	45,684	1,587				
TOTAL	95,997	3,680				

* 1 Bull Trout was seen on June 12.

TABLE 50

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JOHN DAY PROJECT
JULY 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	WILD					DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL				SOCKEYE	STEELHEAD	STEELHEAD	PINK	LAMPREY			STURGEON	SECCH	DEG F
Jul 1		1,917		50			1,630	230	72	0	57	0	217.0	40.6	3.8	66.5
Jul 2		2,328		76			1,657	268	98	0	146	0	187.3	55.8	4.5	66.5
Jul 3		1,526		51			1,184	263	77	0	165	0	183.1	55.4	4.5	67.5
Jul 4		1,605		148			1,661	686	130	0	126	0	181.5	54.5	4.8	67.5
Jul 5		1,802		80			1,332	500	179	0	178	0	179.3	54.2	5.0	67.5
Jul 6		1,858		80			1,093	623	183	0	150	0	160.9	47.9	4.8	67.5
Jul 7		1,272		96			758	507	182	0	165	0	178.0	54.1	5.0	68.5
Jul 8		876		152			592	472	131	0	139	0	215.8	67.4	5.0	69.0
Jul 9		915		73			841	506	162	0	132	0	209.9	63.2	4.5	69.0
Jul 10		1,360		148			775	876	309	0	109	0	207.6	62.0	5.0	68.5
Jul 11		1,054		120			573	472	201	0	198	0	212.2	63.4	4.5	68.5
Jul 12		637		33			462	633	226	0	172	0	225.2	66.6	4.5	69.0
Jul 13		520		54			305	523	198	0	205	0	180.3	54.3	4.0	69.5
Jul 14		496		47			258	493	204	0	278	0	186.0	55.8	4.5	69.5
Jul 15		1,284		54			314	864	358	0	147	0	173.5	52.3	4.0	69.5
Jul 16		618		37			145	598	235	0	311	0	157.7	47.0	4.0	69.5
Jul 17		531		39			177	625	262	0	198	0	184.2	54.9	4.0	69.5
Jul 18		431		36			205	557	233	0	264	1	199.7	59.2	4.0	69.5
Jul 19		686		53			160	642	292	0	260	0	168.3	50.6	4.0	70.0
Jul 20		426		47			102	646	247	0	372	1	160.2	47.5	4.3	70.0
Jul 21		306		37			91	625	192	0	212	0	180.4	53.3	4.3	70.5
Jul 22		579		104			127	461	151	0	187	0	173.8	51.8	4.3	71.5
Jul 23		620		168			96	595	208	0	145	0	148.3	44.0	4.3	72.0
Jul 24		343		100			88	380	119	0	200	0	154.8	46.1	5.0	72.0
Jul 25		1,073		100			80	793	323	1	131	0	176.8	52.2	4.5	72.0
Jul 26		320		36			118	396	180	0	189	0	157.9	46.7	5.0	72.0
Jul 27		145		41			34	375	170	0	114	0	190.5	57.6	4.5	72.5
Jul 28		276		33			42	299	129	0	157	0	152.4	45.6	4.3	72.5
Jul 29		275		65			29	365	149	0	127	0	143.1	43.0	4.3	72.0
Jul 30		236		81			13	277	95	0	79	0	165.5	49.7	4.3	72.0
Jul 31		104		30			7	169	40	0	70	0	153.2	46.5	4.3	72.0
TOTAL		26,419		2,269			14,949	15,719	5,735	1	5,383	2				
AVG		852		73			482	507	185		174	0	179.5	53.0	4.4	69.8

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	50,313	2,093
SUMMER	72,103	3,856
TOTAL	122,416	5,949

WILD					
SOCKEYE	STEELHEAD	STEELHEAD	PINK	LAMPREY	STURGEON
35,228	20,741	7,277	1	5,703	2

TABLE 51

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JOHN DAY PROJECT
AUGUST 2006

DATE	FISH COUNTS						RIVER CONDITIONS										
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL												SECCH	DEG F	
Aug 1		318		108	0	0	21	238	62		116	0	128.9	38.2	4.3	71.5	
Aug 2		235		15	1	-4	8	172	64		167	0	135.0	40.3	4.8	72.0	
Aug 3		256		69	0	0	6	165	59		111	0	136.1	41.2	4.5	72.5	
Aug 4		508		44	1	1	8	251	63		161	0	147.0	43.9	4.3	70.5	
Aug 5		394		58	0	1	21	636	185		174	0	143.2	43.1	4.5	70.5	
Aug 6			215	18	0	0	20	517	184		120	0	131.6	39.4	4.3	71.5	
Aug 7			182	36	1	0	9	824	288		109	0	129.3	39.1	4.8	72.0	
Aug 8			396	62	1	5	5	614	207		130	0	128.3	38.5	5.0	71.5	
Aug 9			287	73	1	2	12	653	162		119	1	126.0	38.4	5.0	71.0	
Aug 10			330	48	0	2	3	321	113		105	0	157.2	46.9	4.5	71.5	
Aug 11			195	70	0	0	4	417	107		121	0	134.2	40.0	4.8	71.5	
Aug 12			127	19	0	0	1	450	152		71	0	126.4	37.6	4.8	71.0	
Aug 13			148	78	1	0	6	548	132		115	0	117.4	35.8	4.8	71.0	
Aug 14			82	29	1	0	2	455	131		97	0	98.1	29.8	4.8	72.5	
Aug 15			312	62	0	1	2	569	153		136	0	104.6	31.6	5.0	71.0	
Aug 16			435	38	2	0	7	505	144		103	0	110.1	33.3	5.0	70.5	
Aug 17			73	13	0	0	1	611	141		111	0	132.6	40.5	5.0	70.5	
Aug 18			221	98	0	0	2	616	168		89	0	127.0	38.2	5.0	71.0	
Aug 19			308	25	0	0	5	733	189		78	0	158.3	47.4	5.0	70.5	
Aug 20			353	115	1	0	1	820	246		90	0	125.7	38.0	5.0	70.5	
Aug 21			104	35	0	0	5	985	264		76	0	121.7	36.5	5.0	71.5	
Aug 22			491	134	4	0	1	937	252		62	0	124.0	37.3	5.0	71.0	
Aug 23			186	37	6	0	0	878	208		89	0	136.2	41.6	5.0	70.5	
Aug 24			223	71	8	2	0	1,305	312		62	0	142.4	43.8	5.3	71.5	
Aug 25			297	96	17	1	0	986	313		83	0	135.4	41.7	5.0	71.0	
Aug 26			748	124	16	3	0	1,255	331		48	0	151.3	45.2	5.0	72.0	
Aug 27			862	116	28	5	1	1,372	427		98	0	180.6	54.1	5.0	71.0	
Aug 28			1,046	173	115	10	0	2,046	425		43	0	124.6	37.4	5.0	71.5	
Aug 29			1,889	207	109	22	2	1,487	436		45	0	134.7	40.2	4.8	71.0	
Aug 30			930	186	132	32	1	2,838	690		31	0	131.4	39.6	4.8	70.0	
Aug 31			336	77	71	14	0	804	190		50	0	133.9	40.0	5.3	70.5	
TOTAL		1,711	10,776	2,334	516	97	154	25,008	6,798		3,010	1					
AVG.		342	414	75	17	3	5	807	219		97	0	132.7	40.0	4.8	71.2	
RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	STURGEON							
SPRING	50,313	2,093			516	97	35,382	45,749	14,075	1	8,713	3					
SUMMER	73,814	4,150															
FALL	10,776	2,040															
TOTAL	134,903	8,283															

TABLE 52

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JOHN DAY PROJECT
SEPTEMBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCH	DEG F
Sep 1			1,855	333	160	42	1	1,374	304	0	68		122.5	36.8	5.5	70.0
Sep 2			1,593	236	153	33	2	1,253	219	0	32		92.2	0.9	5.8	70.5
Sep 3			2,030	308	211	35	1	2,604	547	0	54		73.0	0.9	5.5	70.0
Sep 4			3,110	245	293	65	0	3,591	831	0	-12		90.1	1.0	5.5	69.5
Sep 5			3,661	406	317	51	0	3,388	731	0	34		96.5	0.8	5.5	69.5
Sep 6			4,266	412	460	48	0	2,708	672	0	24		97.4	0.9	5.5	69.5
Sep 7			5,095	614	599	65	0	5,232	1,198	0	40		98.4	0.9	5.0	69.5
Sep 8			4,506	695	512	136	0	4,414	1,056	0	41		97.2	0.8	6.0	69.5
Sep 9			3,553	381	445	108	0	3,934	999	0	45		81.1	0.9	6.0	69.5
Sep 10			5,085	688	1,105	232	0	6,495	1,611	0	19		86.8	0.9	6.0	70.0
Sep 11			4,625	409	847	152	0	3,604	867	0	20		87.5	0.8	6.0	70.0
Sep 12			2,046	306	252	78	0	1,791	349	0	5		99.5	0.7	6.0	69.0
Sep 13			3,064	445	639	144	0	3,242	604	0	40		88.7	0.0	6.0	69.5
Sep 14			3,371	489	694	137	0	4,693	910	0	28		93.5	0.8	6.0	69.5
Sep 15			2,685	320	631	102	0	2,589	556	0	68		101.2	0.9	6.0	69.0
Sep 16			3,456	397	470	114	0	2,956	636	0	21		98.4	0.9	5.8	68.0
Sep 17			4,439	494	878	118	0	4,764	1,041	0	54		79.0	0.9	5.8	68.0
Sep 18			2,237	207	243	63	0	3,742	663	1	18		65.7	1.0	6.0	68.0
Sep 19			4,338	484	902	87	0	4,607	1,005	0	38		77.1	0.8	5.5	67.0
Sep 20			3,091	488	632	108	0	4,815	1,087	0	19		81.5	0.8	5.5	67.0
Sep 21			4,886	604	872	118	0	5,302	1,303	0	11		90.0	0.8	5.0	66.5
Sep 22			3,828	749	767	264	0	5,549	942	0	19		91.5	0.0	5.0	67.0
Sep 23			6,351	624	770	243	0	6,551	1,346	0	28		117.8	0.8	4.3	65.5
Sep 24			5,666	1200	944	252	0	10,443	1,624	0	34		92.5	0.8	4.8	65.5
Sep 25			4,352	642	1,006	209	0	7,268	1,470	0	10		73.1	0.9	6.0	66.5
Sep 26			2,036	891	669	193	0	6,857	1,101	0	17		75.5	0.8	5.8	67.0
Sep 27			1,036	352	480	198	0	3,813	874	0	5		74.7	0.6	5.8	67.0
Sep 28			1,167	532	371	157	0	2,595	636	0	7		103.5	0.4	6.0	66.0
Sep 29			2,178	861	364	156	1	2,703	825	0	-9		102.8	0.7	6.0	66.0
Sep 30			3,071	744	373	58	0	2,446	558	0	12		74.5	0.7	6.0	66.0
TOTAL			102,677	15,556	17,059	3,766	5	125,323	26,565	1	790					

AVG.	3,423	519	569	126	0	4,177	886	26	90.1	2.0	5.6	68.2
------	-------	-----	-----	-----	---	-------	-----	----	------	-----	-----	------

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	50,313	2,093
SUMMER	73,814	4,150
FALL	113,453	17,596
TOTAL	237,580	23,839

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	STURGEON
17,575	3,863	35,387	171,072	40,640	2	9,503	3

TABLE 53

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JOHN DAY PROJECT
OCTOBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	CHUM	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCH	DEG F
Oct 1			2,545	818	526	161		2,680	659	0	1	0	72.7	0.8	6.0	65.0
Oct 2			1,494	444	383	26		2,500	552	0	1	0	67.7	0.7	5.8	65.0
Oct 3			2,690	543	1,128	178		2,599	653	0	25	0	86.6	0.7	5.8	65.0
Oct 4			1,322	301	439	77		1,565	305	0	18	1	86.0	1.2	5.5	65.0
Oct 5			1,298	387	225	127		2,090	601	0	4	0	109.5	0.9	5.8	65.0
Oct 6			1,458	400	125	32		2,161	513	0	5	0	91.7	0.8	5.5	64.5
Oct 7			1,068	277	205	12		2,749	659	0	12	0	82.1	0.7	6.0	64.0
Oct 8			1,210	298	788	42		3,090	684	0	4	0	87.4	0.7	5.0	64.0
Oct 9			1,089	215	645	83		2,336	598	0	6	0	97.9	0.7	6.0	64.5
Oct 10			572	132	277	13		1,412	328	0	5	0	99.5	0.8	6.0	64.5
Oct 11			608	94	266	15		1,433	370	0	6	0	98.0	0.9	6.0	63.0
Oct 12			803	84	338	8		1,157	334	0	7	0	93.1	0.8	5.5	65.0
Oct 13			871	84	189	40		1,487	270	0	4	0	115.8	0.7	6.0	63.0
Oct 14			552	64	169	17		1,016	294	0	5	0	110.5	0.8	6.0	64.0
Oct 15			515	78	149	26		1,186	266	0	-4	0	83.4	0.7	6.0	63.0
Oct 16			202	32	168	14		928	221	0	0	0	56.8	0.7	5.5	63.0
Oct 17			394	33	192	15		1,552	353	0	1	0	80.9	0.7	5.8	63.5
Oct 18			910	31	1,326	52		1,629	501	0	4	0	86.4	0.7	6.0	62.0
Oct 19			497	39	1,080	33		2,257	585	1	-6	0	93.3	0.6	6.0	62.5
Oct 20			490	57	744	13		2,000	604	0	1	0	77.8	0.7	5.0	62.0
Oct 21			235	28	586	13		1,458	435	0	-1	0	85.4	0.7	5.0	61.5
Oct 22			222	31	376	6		1,505	414	0	4	0	89.4	0.7	5.0	61.0
Oct 23			209	18	137	5		639	148	0	-1	0	84.3	0.7	5.5	61.0
Oct 24			200	20	65	0		704	187	0	1	0	93.2	0.7	6.0	61.0
Oct 25			84	9	61	6		624	130	0	-1	0	83.3	0.8	6.0	60.0
Oct 26			212	29	66	13		789	162	0	-1	0	98.1	0.8	6.0	59.0
Oct 27			131	9	113	3		517	96	0	-2	0	101.5	0.8	5.5	59.0
Oct 28			161	19	112	2		480	126	0	-6	0	103.7	0.7	6.0	50?
Oct 29			112	24	144	6		580	109	0	5	0	80.1	0.7	6.0	58.0
Oct 30			84	11	124	6		577	124	0	0	0	66.1	0.8	6.0	58.5
Oct 31			140	28	147	3		350	88	0	0	0	111.6	0.7	6.0	58.0

TOTAL			22,378	4,637	11,293	1,047		46,050	11,369	1	97	1	89.5	0.8	5.7	62.5
AVG.			722	150	364	34		1,485	367	0	3	0				

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	STURGEON	CHUM
TOTALS TO DATE											
SPRING	50,313	2,093	28,868	4,910	35,387	217,122	52,009	3	9,600	3	1
SUMMER	73,814	4,150									
FALL	135,831	22,233									
TOTAL	259,958	28,476									

Note: Visual counts ended October 31.

TABLE 54

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JOHN DAY PROJECT
NOVEMBER 2006

DATE	FISH COUNTS							RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY SECCH	DEG F
Nov 1			44	8	163			594	227				124.8	0.6	5.8	57.5
Nov 2			29	4	137			262	94				120.8	0.6	5.3	56.0
Nov 3			26	7	78			231	62				120.0	0.6	5.5	56.0
Nov 4			115	10	75			377	126				78.7	0.5	5.0	55.0
Nov 5			66	0	239			429	87				92.5	0.0	6.0	56.0
Nov 6			156	0	317			1,016	222				93.9	0.6	6.0	56.0
Nov 7			183	0	364			1,273	293				93.5	0.6	6.0	56.0
Nov 8			228	0	312			1,479	322				90.0	0.7	*	*
Nov 9			119	0	225			701	140				172.2	0.8	*	*
Nov 10			87	2	162			576	124				151.8	0.8	*	*
Nov 11			70	0	98			362	121				166.6	0.7	*	*
Nov 12			72	0	109			458	123				141.9	0.7	*	*
Nov 13			35	0	145			374	134				134.4	0.7	*	*
Nov 14			49	0	158			576	144				147.2	0.7	6.0	53.0
Nov 15			38	0	132			344	104				112.2	0.6	5.8	53.0
Nov 16			36	0	112			357	98				133.0	0.6	6.0	53.0
Nov 17			89	0	319			838	187				137.7	0.7	*	53.0
Nov 18			61	0	239			455	93				121.0	0.6	*	53.0
Nov 19			30	0	100			445	108				116.5	0.7	*	53.0
Nov 20			19	0	54			176	38				92.7	0.7	*	53.0
Nov 21			76	0	233			475	92				102.5	0.6	6.0	52.0
Nov 22			18	0	191			286	69				118.1	0.5	*	*
Nov 23			13	0	146			254	79				115.5	0.5	*	*
Nov 24			4	0	89			159	44				92.7	0.7	*	*
Nov 25			6	0	115			126	35				114.3	0.7	*	*
Nov 26			1	0	38			29	3				94.5	0.7	*	*
Nov 27			2	0	63			102	17				118.7	0.7	*	*
Nov 28			6	0	63			43	10				113.1	0.7	*	*
Nov 29			1	0	32			59	13				133.9	0.7	*	*
Nov 30			0	0	35			53	13				143.0	0.9	*	*

TOTAL			1,679	31	4,543			12,909	3,222							
--------------	--	--	-------	----	-------	--	--	--------	-------	--	--	--	--	--	--	--

AVG.			56	1	151			430	107							
-------------	--	--	----	---	-----	--	--	-----	-----	--	--	--	--	--	--	--

119.6	0.6	5.8	54.4
-------	-----	-----	------

* Data Unavailable

RUN YEAR TOTALS TO DATE	CHINOOK		COHO		SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	STURGEON		
	ADULT	JACK	ADULT	JACK								
SPRING	50,313	2,093			28,868	4,910	35,387	217,122	52,009	3	9,600	3
SUMMER	73,814	4,150										
FALL	135,831	22,233										
TOTAL	259,958	28,476										

Note: From November 1 to December 4, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Official Fall Chinook run ended October 31st. November and December counts were not added to fall totals.

TABLE 55

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JOHN DAY PROJECT
DECEMBER 2006

DATE	FISH COUNTS										RIVER CONDITIONS					
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY SECCH	DEG F
Dec 1			6		25			15	0				149.8	0.6	*	46.8
Dec 2			5		11			7	1				120.8	0.0	*	46.3
Dec 3			4		9			15	0				110.8	0.0	*	45.8
Dec 4			2		8			3	0				133.3	0.0	*	45.2
Dec 5													135.8	0.0	*	*
Dec 6													138.5	0.0	*	*
Dec 7													147.5	0.0	*	*
Dec 8													141.7	0.0	*	*
Dec 9													132.7	0.0	*	*
Dec 10													128.7	0.0	*	*
Dec 11													123.8	0.0	*	*
Dec 12													138.5	0.0	*	*
Dec 13													109.8	0.0	*	*
Dec 14													125.1	0.0	*	*
Dec 15													128.8	0.0	*	*
Dec 16													176.3	0.0	*	*
Dec 17													134.2	0.0	*	*
Dec 18													85.6	0.0	*	*
Dec 19													149.4	0.0	*	*
Dec 20													150.4	0.0	*	*
Dec 21													150.3	0.0	*	*
Dec 22													129.1	0.0	*	*
Dec 23													143.3	0.0	*	*
Dec 24													135.3	0.0	*	*
Dec 25													121.7	0.0	*	*
Dec 26													107.2	0.0	*	*
Dec 27													129.9	0.0	*	*
Dec 28													106.3	0.0	*	*
Dec 29													146.7	0.0	*	*
Dec 30													133.9	0.0	*	*
Dec 31													135.0	0.0	*	*

TOTAL		17		53				40	1							
--------------	--	----	--	----	--	--	--	----	---	--	--	--	--	--	--	--

AVG.		4		13				10	0							
-------------	--	---	--	----	--	--	--	----	---	--	--	--	--	--	--	--

132.3	0.0	*	46.0
-------	-----	---	------

*Data not available

RUN YEAR	CHINOOK		COHO		WILD			PINK	LAMPREY	STURGEON
	ADULT	JACK	ADULT	JACK	SOCKEYE	STEELHEAD	STEELHEAD			
TOTALS TO DATE										
SPRING	50,313	2,093	28,868	4,910	35,387	217,122	52,009	3	9,600	3
SUMMER	73,814	4,150								
FALL	135,831	22,233								
TOTAL	259,958	28,476								

Note: From November 1 to December 4, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Official Fall Chinook run ended October 31st. November and December counts were not added to fall totals. Pink counts are totals for entire year.

TABLE 56

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
JOHN DAY DAM
1968 - 2006**

YEAR	CHINOOK*	STEELHEAD	SOCKEYE	COHO*	TOTAL
1968	233,654	121,256	87,847	38,233	480,990
1969	276,051	86,348	39,847	13,589	415,835
1970	222,506	82,440	78,133	19,543	402,622
1971	193,881	115,977	72,232	40,830	422,920
1972	225,631	141,628	51,793	17,533	436,585
1973	249,492	101,440	64,744	13,359	429,035
1974	167,888	43,756	33,121	14,651	259,416
1975	159,079	32,651	50,774	6,305	248,809
1976	175,911	59,808	30,446	5,806	271,971
1977	194,931	102,558	85,701	1,123	384,313
1978	174,852	44,188	13,778	8,355	241,173
1979	118,154	55,877	43,630	5,061	222,722
1980	100,664	78,199	50,675	1,924	231,462
1981	114,359	95,172	46,146	2,562	258,239
1982	144,082	108,603	37,970	4,063	294,718
1983	139,866	154,425	91,917	1,640	387,848
1984	188,373	201,154	107,951	2,080	499,558
1985	337,624	247,093	124,941	1,652	711,310
1986	346,700	238,010	46,327	1,933	632,970
1987	327,752	170,654	75,529	3,355	577,290
1988	277,251	164,650	48,095	6,813	496,809
1989	208,254	193,460	39,374	9,663	450,751
1990	156,313	107,849	42,077	3,023	309,262
1991	118,921	160,257	63,760	8,021	350,959
1992	132,025	195,194	69,731	2,633	399,583
1993	141,705	95,642	61,218	2,995	301,560
1994	126,645	93,075	11,170	2,842	233,732
1995	107,277	123,246	8,667	2,117	241,307
1996	130,602	156,002	25,698	4,279	316,581
1997	185,240	157,038	35,830	4,229	382,337
1998	130,028	158,547	9,837	8,497	306,909
1999	163,282	165,314	14,809	13,232	356,638
2000	269,371	220,328	88,372	23,969	602,040
2001	510,987	483,409	107,869	51,181	1,153,446
2002	447,729	390,300	41,915	9,272	889,216
2003	467,116	286,176	35,417	38,577	827,286
2004	447,891	233,431	113,497	35,522	830,341
2005	322,991	232,103	69,770	36,205	661,081
2006	290,161	231,355	35,387	38,374	595,281
TOTALS	8,725,239	6,128,613	2,155,995	505,041	17,514,905
10-Year Average	323,480	255,800	55,270	25,906	660,458

*Jacks included

1999 - Total includes 1 pink

2005 - Total includes 12 pinks

2006 - Total includes 1 chum and 3 pinks

TABLE 57

MONTHLY COUNT OF CHINOOK SALMON
JOHN DAY DAM 1968 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	SPRING	SUMMER	FALL	JACKS
														Apr 1- Jun 5	Jun 6- Aug 5	Aug 6- Oct 31	
1968				29,973	46,272	30,702	42,212	16,726	62,709	4,851	209		233,654	77,482	75,494	80,678	67,284
1969			6	4,266	72,966	35,899	31,071	18,523	103,778	9,542			276,051	81,724	64,732	129,595	93,928
1970				35,750	35,248	20,439	21,542	24,784	80,969	3,774			222,506	72,555	43,093	106,858	74,090
1971				13,995	40,620	24,364	25,692	10,403	73,157	5,650			193,881	56,625	50,030	87,226	61,380
1972				28,535	41,882	15,833	27,484	14,208	90,181	7,508			225,631	71,569	44,542	109,520	82,646
1973				67,467	27,091	18,972	15,067	16,995	89,913	13,987			249,492	96,710	34,206	118,576	73,687
1974				5,174	38,058	8,115	18,985	8,112	77,296	12,148			167,888	46,191	25,865	95,832	61,669
1975				7,727	27,989	11,058	21,359	18,250	65,367	7,329			159,079	37,716	32,179	89,184	62,403
1976				10,428	32,985	17,836	18,506	10,114	72,467	13,575			175,911	45,419	36,037	94,455	62,793
1977				55,061	19,422	15,674	13,764	7,853	71,302	11,855			194,931	75,782	29,194	89,955	60,386
1978				34,735	35,206	15,104	16,764	8,149	52,975	11,919			174,852	72,723	30,371	71,758	36,289
1979				8,224	12,568	9,537	13,580	14,128	50,977	8,566	574		118,154	21,981	23,572	72,601	41,364
1980				7,995	18,311	7,125	12,522	9,063	37,023	8,625			100,664	27,202	19,664	53,798	25,877
1981				18,178	18,325	7,292	8,992	8,524	44,626	8,422			114,359	37,677	15,813	60,869	34,547
1982				3,396	30,444	11,031	7,359	10,881	67,271	13,700			144,082	36,530	16,360	91,192	56,966
1983				7,123	25,391	7,990	7,064	8,195	66,078	18,025			139,866	33,480	14,834	91,552	43,440
1984				4,329	26,561	9,706	12,892	15,422	96,399	22,255	809		188,373	32,035	22,795	133,543	69,874
1985				27,539	42,487	15,585	9,663	27,387	178,322	34,192	2,449		337,624	72,389	23,489	241,746	149,281
1986			21	38,075	37,959	13,227	9,703	10,797	194,928	41,990			346,700	77,884	22,051	246,765	133,827
1987				33,985	26,852	13,641	8,948	24,363	196,596	23,367			327,752	62,313	22,244	243,195	53,794
1988				33,323	20,170	14,731	9,648	37,002	147,553	14,824			277,251	55,195	23,569	198,487	51,330
1989				12,510	23,983	12,793	10,124	35,985	101,794	11,065			208,254	37,773	23,868	146,613	25,092
1990				23,689	18,854	11,209	9,199	13,542	71,508	8,312			156,313	43,127	20,532	92,654	22,195
1991				7,419	13,668	8,868	8,390	4,879	64,950	10,747			118,921	21,847	16,872	80,202	28,646
1992				27,538	16,623	9,452	5,263	7,677	58,140	7,332			132,025	45,457	13,910	72,658	22,084
1993				26,309	28,204	13,295	6,311	10,703	51,667	5,216			141,705	56,144	18,364	67,197	9,621
1994				4,436	4,937	6,305	6,397	13,345	79,538	11,687			126,645	9,745	12,935	103,965	18,867
1995				2,034	3,378	4,977	6,273	14,694	61,273	14,648			107,277	5,776	11,476	90,025	24,192
1996				1,860	18,616	7,419	6,356	18,550	68,198	9,603			130,602	21,599	13,148	95,855	12,071
1997				13,579	45,408	16,551	8,328	10,355	81,039	9,980			185,240	62,580	21,769	100,891	1,588
1998				9,279	12,439	10,076	7,535	11,073	62,107	17,519			130,028	22,177	17,780	90,071	13,745
1999				3,008	16,517	10,206	14,226	20,201	86,380	12,744			163,282	20,498	24,714	118,070	19,611
2000				48,176	47,705	19,201	13,579	44,377	86,737	9,596			269,371	98,710	31,056	139,605	56,892
2001				187,104	74,233	46,449	33,904	20,506	128,230	20,561			510,987	270,385	74,235	166,367	57,877
2002				36,677	99,270	69,941	44,890	37,086	143,126	16,739			447,729	142,290	110,969	194,470	37,568
2003			3,951	61,184	45,880	62,159	45,782	22,222	201,192	28,666	1,238	66	472,340	111,642	105,615	249,828	54,680
2004			127	62,999	50,288	55,728	30,998	24,383	192,606	29,301	1,410	51	447,891	118,520	83,060	244,723	47,708
2005			15	13,680	39,563	45,107	28,340	15,637	158,917	21,319	411	2	322,991	58,742	69,439	194,382	37,622
2006				420	49,051	50,206	28,688	14,821	118,233	27,015	1,710	17	290,161	52,406	77,964	158,064	28,507
TOTAL				4,120	1,017,179	1,285,424	783,803	667,400	659,915	3,735,522	568,154	8,810	8,730,463	2,390,600	1,417,840	4,913,025	1,915,421
10-Year Average				43,611	48,035	38,562	25,627	22,066	125,857	19,344			324,002	95,795	61,660	165,647	35,580

*Jacks included

TABLE 58

**MONTHLY COUNT OF SOCKEYE SALMON
JOHN DAY DAM
1968 - 2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1968						42,175	44,942	690	32	7	1		87,847
1969						13,383	26,174	245	37	8			39,847
1970						18,029	58,176	1,909	19				78,133
1971						5,219	66,183	787	38	5			72,232
1972						6,762	43,704	1,257	68	2			51,793
1973					2	21,283	42,588	864	6	1			64,744
1974						2,024	30,687	403	6	1			33,121
1975						6,154	44,454	163	2	1			50,774
1976						8,907	21,278	258	1	2			30,446
1977					6	52,852	32,269	537	34	3			85,701
1978						5,633	8,006	119	20				13,778
1979						13,466	29,603	560	1				43,630
1980						9,596	40,536	530	13				50,675
1981						17,064	28,975	94	13				46,146
1982						8,708	28,974	286	2				37,970
1983						27,372	63,995	506	37	7			91,917
1984						54,975	51,728	1,230	16	2			107,951
1985						78,326	46,184	421	10				124,941
1986						13,472	32,116	738	0	1			46,327
1987						35,022	39,983	513	11				75,529
1988						25,001	22,855	225	12	2			48,095
1989						18,883	20,330	148	12	1			39,374
1990					1	15,247	26,580	245	4				42,077
1991						10,917	52,130	699	9	5			63,760
1992					1	38,618	30,788	303	20	1			69,731
1993					1	30,668	30,348	198	2	1			61,218
1994						7,004	4,141	22	2	1			11,170
1995					1	4,242	4,352	71	1				8,667
1996						15,316	10,323	59	0				25,698
1997					10	11,605	23,604	603	4	4			35,830
1998						4,371	5,314	131	19	2			9,837
1999					1	4,803	9,910	88	2	5			14,809
2000					15	73,119	15,122	108	7	1			88,372
2001					7	86,624	21,062	100	75	1			107,869
2002					1	20,044	21,772	96	1	1			41,915
2003						19,260	16,004	151	2				35,417
2004					34	84,659	28,663	133	5	3			113,497
2005					-3	35,616	33,988	162	6	1			69,770
2006						20,279	14,949	154	5				35,387
TOTAL						77	966,698	1,172,790	15,806	554	69	1	2,120,608
10-Year Average						36,038	19,039	173	13				55,270

TABLE 59

**MONTHLY COUNT OF COHO SALMON
JOHN DAY DAM 1968 - 2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*
1968							4	1,311	32,882	3,848	188		38,233
1969							25	308	9,879	3,377			13,589
1970							14	1,026	17,272	1,231			19,543
1971								944	36,401	3,485			40,830
1972								1,253	14,965	1,315			17,533
1973								788	11,350	1,221			13,359
1974								730	11,253	2,668			14,651
1975								85	4,266	1,954			6,305
1976								57	3,739	2,010			5,806
1977								8	534	581			1,123
1978								6	2,676	5,673			8,355
1979							1	132	2,853	1,753	322		5,061
1980								27	1,431	466			1,924
1981								90	2,030	442			2,562
1982								145	3,032	886			4,063
1983								99	1,353	188			1,640
1984								4	1,736	331	9		2,080
1985								95	1,140	395	22		1,652
1986									1,527	406			1,933
1987							1	16	3,205	133			3,355
1988							3	241	5,170	1,399			6,813
1989								264	6,832	2,567			9,663
1990								1	1,890	1,132			3,023
1991								5	6,140	1,876			8,021
1992									2,153	480			2,633
1993								11	2,233	751			2,995
1994								164	1,892	786			2,842
1995								63	1,199	855			2,117
1996								11	3,432	836			4,279
1997								1	2,860	1,368			4,229
1998								18	2,806	5,673			8,497
1999								8	9,471	3,753			13,232
2000					2			921	15,355	7,691			23,969
2001							49	480	23,204	27,448			51,181
2002								66	5,101	4,105			9,272
2003								282	24,786	13,509	183	5	38,765
2004								161	24,884	9,710	766	1	35,522
2005								334	20,981	12,882	2,005	3	36,205
2006								613	20,825	12,340	4,543	53	38,374
TOTAL					2	0	97	10,768	344,738	141,524	8,038		505,229
10-Year Average								288	15,027	9,848			22,515

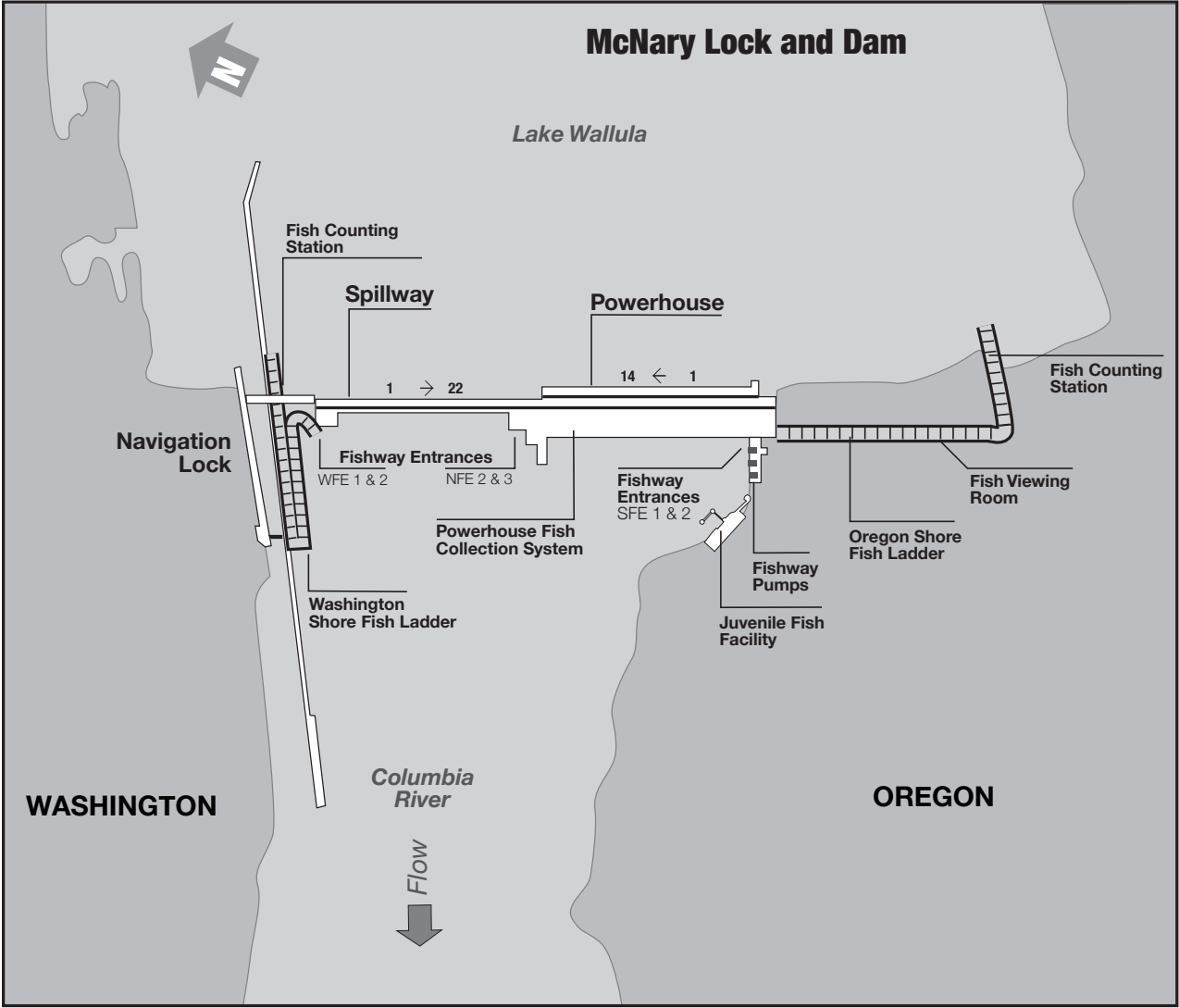
*Jacks included

TABLE 60

MONTHLY COUNT OF STEELHEAD
JOHN DAY DAM 1968 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1968				3,939	2,659	151	6,094	26,824	68,791	11,405	1,393		121,256
1969			314	3,986	3,691	714	12,004	13,267	40,082	12,290			86,348
1970				1,987	1,279	253	7,373	19,412	46,036	6,100			82,440
1971				1,472	592	263	17,459	19,693	63,868	12,630			115,977
1972				1,523	1,966	356	17,656	20,502	78,138	21,487			141,628
1973				8,019	3,546	785	12,134	15,608	46,566	14,782			101,440
1974				1,713	2,363	1,361	9,713	8,419	12,479	7,708			43,756
1975				760	428	648	6,251	8,583	9,977	6,004			32,651
1976				929	1,248	1,868	9,254	17,964	22,754	5,791			59,808
1977				1,319	418	2,341	18,366	7,088	56,134	16,892			102,558
1978				741	631	1,601	5,573	6,911	22,896	5,835			44,188
1979				602	136	253	8,012	10,717	16,202	18,072	1,883		55,877
1980				4,131	555	577	5,850	18,114	34,700	14,272			78,199
1981				2,061	1,539	2,515	15,999	18,283	34,098	20,677			95,172
1982				3,393	1,698	1,167	10,168	19,693	50,725	21,759			108,603
1983				1,492	434	560	15,088	31,453	83,215	22,183			154,425
1984				3,316	1,787	2,101	21,442	19,743	100,437	46,506	5,822		201,154
1985				6,821	1,723	3,583	19,631	64,456	109,488	37,227	4,164		247,093
1986			3,611	2,040	887	2,362	37,732	31,576	107,002	52,800			238,010
1987				3,926	-747	942	23,614	34,203	69,585	39,131			170,654
1988				4,290	525	2,188	17,649	25,741	81,859	32,398			164,650
1989				2,940	508	2,445	18,254	22,548	104,521	42,244			193,460
1990				3,339	600	1,902	10,544	9,445	42,888	39,131			107,849
1991				2,547	660	1,256	12,827	18,310	87,277	37,380			160,257
1992				1,334	406	2,337	10,732	17,326	143,823	19,236			195,194
1993				3,453	808	2,845	9,434	11,018	46,447	21,637			95,642
1994				2,286	413	1,647	6,961	7,140	44,175	30,453			93,075
1995				1,498	488	1,757	7,755	26,450	45,087	40,211			123,246
1996				1,597	462	1,576	11,885	42,853	67,171	30,458			156,002
1997				2,171	810	2,021	12,847	22,179	75,119	41,891			157,038
1998				4,367	1,018	2,460	9,827	9,053	67,322	64,500			158,547
1999				2,702	764	1,975	17,083	42,160	72,719	27,911			165,314
2000				2,607	784	4,500	23,496	37,827	113,619	37,495			220,328
2001				1,946	550	11,031	52,946	50,723	230,803	135,410			483,409
2002				7,330	972	5,875	42,167	59,430	170,893	103,633			390,300
2003			9,792	1,327	222	4,888	28,019	23,687	177,058	50,975	7,666	1,408	305,042
2004		186	2,591	1,437	537	6,840	20,250	24,594	145,241	28,300	3,401	54	233,431
2005		106	2,571	843	456	3,424	24,705	27,445	116,336	49,965	6,158	94	232,103
2006		32	1,252	2,104	343	2,575	15,719	25,008	125,323	46,050	12,909	40	231,355
TOTAL			20,131	104,288	38,159	87,943	632,513	915,446	3,030,854	1,272,829	43,396		6,147,479
10-YR Average				2,683	646	4,559	24,706	32,211	129,443	58,613			257,687

Plate 5 McNary Lock and Dam



McNARY DAM

FISH COUNTING SCHEDULE

1 Jan – 28 Feb No Counting.

Oregon Ladder Schedule

1 Mar – 31 Mar Video counting daily 0400-2000 hours PST.
1 Apr – 31 Oct Visual counting daily 0400-2000 hours PST.
1 Nov – 19 Dec Video counting daily 0400-2000 hours PST.

Washington Ladder Schedule

1 Nov – 31 Dec Video counting daily 0400- 2000 hours PST on the Oregon ladder

FISH LADDER OPERATING SCHEDULE

Washington Ladder

1 Jan – 12 Jan Ladder in service.
13 Jan – 31 Mar Ladder dewatered for annual maintenance
1 Apr – 31 Dec. Ladder in service.

Oregon Ladder

1 Jan - 9 Jan Ladder in service.
10 Jan – 12 Jan Ladder dewatered for annual maintenance
13 Jan – 19 Dec. Ladder in service.
20 Dec – 31 Dec Dewatered.

FISHWAY ACTIVITIES

Though an attempt was made to measure water temperatures at the both fish ladder exit pools this year, no data was recorded due to failure of new monitoring equipment to operate.

The fish counting station on the Washington shore was reconstructed. The fish guidance structure and fish counting window were modified to incorporate three “window” style PIT antennas to provide improved detection of adult fish passage.

Pump #3 of the AWS system for the Oregon shore fishway, continued out of service all year, due to a bearing failure that caused significant damage to the guide bearings and pump shaft. Pump #1 operated from 19 April to 19 December. Pump #2 operated 1 March to 19 December.

The Juvenile bypass channel, was operated for both juvenile and adult fallback passage, from 21 March to 31 December.

TABLE 61

MONTHLY TOTALS OF SALMONIDS, SHAD AND LAMPREY COUNTED OVER McNARY DAM
2006

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*
CHINOOK*			1	121	43,778	40,077	27,708	10,210	71,105	24,186	1,810	195	219,191
STEELHEAD			1,388	2,009	175	1,272	9,214	14,519	104,009	52,826	17,808	2,935	206,155
SOCKEYE						14,675	14,473	142	5				29,295
COHO*								90	7,893	5,350	588	2	13,923
CHUM													
PINK													
TOTAL				2,130	43,953	56,024	51,395	24,961	183,012	82,362	20,206	3,132	468,564
SHAD					4,056	789,574	375,715	7,554					1,176,899
LAMPREY					0	31	623	938	784	80			2,456

*Jacks Included

Shad are not counted after September 1st.

TABLE 62

DISCHARGE AND WATER QUALITY DATA

MCNARY PROJECT 2006

JANUARY					FEBRUARY				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY		DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F				SECCHI	DEG F
Jan 1	148.5	0.0	6.0	42.0	Feb 1	174.9	0.0	*	41.0
Jan 2	167.4	0.0	6.0	42.0	Feb 2	169.8	0.0	*	41.0
Jan 3	159.3	0.0	6.0	42.0	Feb 3	145.8	0.0	4.5	41.0
Jan 4	157.7	0.0	6.0	42.0	Feb 4	129.6	0.0	4.5	41.0
Jan 5	153.3	0.0	6.0	42.0	Feb 5	158.4	0.0	4.5	41.0
Jan 6	143.6	0.0	6.0	41.0	Feb 6	180.4	0.0	4.5	42.0
Jan 7	134.6	0.0	6.0	41.0	Feb 7	174.6	0.0	*	41.0
Jan 8	136.5	0.0	6.0	41.0	Feb 8	149.7	0.0	4.0	41.0
Jan 9	131.5	0.0	6.0	41.0	Feb 9	167.4	0.0	4.0	41.0
Jan 10	131.5	0.0	6.0	41.0	Feb 10	179.2	0.0	4.5	41.0
Jan 11	139.4	0.0	6.0	41.0	Feb 11	129.3	0.0	4.0	40.0
Jan 12	170.8	0.0	*	41.0	Feb 12	172.4	30.3	4.5	40.0
Jan 13	178.5	0.0	*	41.0	Feb 13	179.6	0.0	*	40.0
Jan 14	163.9	0.0	*	42.0	Feb 14	168.3	0.0	4.3	40.0
Jan 15	165.4	0.0	*	42.0	Feb 15	185.2	0.0	4.3	40.0
Jan 16	169.7	0.0	6.0	42.0	Feb 16	160.1	0.0	4.4	39.0
Jan 17	186.5	0.0	6.0	41.0	Feb 17	178.7	0.0	4.0	39.0
Jan 18	178.6	0.0	6.0	41.0	Feb 18	168.4	0.0	4.0	38.0
Jan 19	185.3	0.0	*	41.0	Feb 19	160.9	0.0	4.0	38.0
Jan 20	187.4	4.9	6.0	41.0	Feb 20	169.4	0.0	4.0	38.0
Jan 21	180.5	0.0	6.0	41.0	Feb 21	158.6	0.0	4.0	37.0
Jan 22	165.0	0.0	6.0	41.0	Feb 22	155.4	0.0	5.0	37.0
Jan 23	143.4	0.0	4.0	41.0	Feb 23	168.0	0.0	5.0	37.0
Jan 24	150.9	0.0	6.0	41.0	Feb 24	179.8	0.0	5.3	37.0
Jan 25	174.5	0.0	*	40.0	Feb 25	156.0	0.0	5.3	38.0
Jan 26	154.8	0.0	*	40.0	Feb 26	123.6	0.0	4.2	38.0
Jan 27	157.8	0.0	*	40.0	Feb 27	151.7	0.0	4.2	39.0
Jan 28	146.4	0.0	*	39.0	Feb 28	147.1	0.0	4.2	39.0
Jan 29	136.4	0.0	6.0	39.0					
Jan 30	151.1	0.0	6.0	39.0					
Jan 31	164.8	0.0	6.0	41.0					
AVG.	158.5	0.2	5.9	41.0	AVG.	162.2	1.1	4.4	39.5

*Data unavailable.

TABLE 63

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT
MARCH 2006

DATE	FISH COUNTS						RIVER CONDITIONS										
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY SECCH	DEG F	
	SPRING	SUMMER	FALL														
Mar 1	0							9	4				184.4	13.7	4.2	39.0	
Mar 2	0							8	2				143.0	0.0	4.8	39.0	
Mar 3	0							11	2				142.8	0.0	4.6	39.0	
Mar 4	0							21	6				128.4	0.0	4.6	40.0	
Mar 5	0							18	5				134.3	0.0	*	41.0	
Mar 6	0							35	8				155.5	0.0	4.0	41.0	
Mar 7	0							0	0				157.9	0.0	5.0	41.0	
Mar 8	0							21	8				165.0	0.0	5.0	41.0	
Mar 9	0							28	8				167.0	0.0	5.0	41.0	
Mar 10	0							20	8				167.0	0.0	5.0	41.0	
Mar 11	0							17	5				168.6	0.0	4.8	41.0	
Mar 12	0							42	8				167.1	0.0	4.9	41.0	
Mar 13	0							25	5				122.5	0.0	*	41.0	
Mar 14	0							17	4				131.7	0.0	4.9	41.0	
Mar 15	0							12	3				150.2	0.0	5.2	41.0	
Mar 16	0							16	4				180.0	0.0	5.4	41.0	
Mar 17	0							14	2				124.7	0.0	5.2	41.0	
Mar 18	0							59	17				139.1	0.0	5.4	41.0	
Mar 19	0							115	26				144.5	0.0	5.4	42.0	
Mar 20	0							30	5				109.9	0.0	5.4	42.0	
Mar 21	0							31	6				162.9	0.0	5.4	42.0	
Mar 22	0							32	6				182.3	0.0	3.8	42.0	
Mar 23	0							71	21				132.5	0.0	4.5	43.0	
Mar 24	0							109	31				106.5	0.0	4.7	44.0	
Mar 25	0							100	23				126.3	0.0	4.7	44.0	
Mar 26	1							82	18				130.9	0.0	4.7	44.0	
Mar 27	0							96	30				158.9	0.0	4.9	44.0	
Mar 28	0							46	8				156.0	0.0	4.9	44.0	
Mar 29	0							55	11				153.1	0.0	*	44.0	
Mar 30	0							73	12				163.2	0.0	4.8	44.0	
Mar 31	0							175	44				176.1	0.0	*	45.0	
TOTAL	1							1,388	340								
AVG.	0							45	11				149.4	0.4	4.9	41.8	

*Data unavailable.

Note: March counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Official Spring Chinook run started April 1. March chinook counts were not added to spring totals.

TABLE 64

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT
APRIL 2006

DATE	FISH COUNTS						RIVER CONDITIONS									
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCH	DEG F
Apr 1	0			0				126	39				161.3	0.0	4.0	46.0
Apr 2	0			0				161	54				163.4	0.0	4.5	46.0
Apr 3	1			0				98	38				195.6	57.8	4.2	46.0
Apr 4	0			0				81	21				191.1	53.0	4.2	47.0
Apr 5	1			0				96	32				237.7	100.6	4.2	47.0
Apr 6	1			0				134	40				251.5	119.8	4.0	47.0
Apr 7	0			0				172	66				270.9	145.8	3.8	46.0
Apr 8	4			0				147	42				264.6	138.3	3.8	46.0
Apr 9	1			0				134	42				265.8	134.3	3.8	47.0
Apr 10	0			0				92	24				302.0	161.9	2.0	47.0
Apr 11	0			0				73	24				303.3	149.5	3.0	47.0
Apr 12	0			0				84	24				287.8	138.4	2.5	47.0
Apr 13	1			0				76	22				300.0	139.8	4.1	47.0
Apr 14	1			0				72	28				307.7	141.7	3.5	47.0
Apr 15	0			0				48	22				333.4	157.7	3.5	47.0
Apr 16	0			0				86	48				343.9	168.5	3.5	47.0
Apr 17	1			0				50	23				339.4	165.1	3.5	47.0
Apr 18	2			0				50	18				354.9	185.5	3.5	47.0
Apr 19	2			0				43	24				337.7	173.7	3.7	47.0
Apr 20	0			0				23	11				341.7	179.4	3.7	47.0
Apr 21	1			0				19	8				305.1	130.6	3.7	47.0
Apr 22	1			0				32	15				286.7	112.3	3.7	48.0
Apr 23	6			0				26	9				318.7	145.3	2.8	48.0
Apr 24	5			0				8	2				335.1	167.9	2.3	48.0
Apr 25	10			0				17	8				315.7	151.6	2.3	49.0
Apr 26	14			0				13	6				338.5	164.3	*	49.0
Apr 27	18			1				13	6				326.0	150.3	*	50.0
Apr 28	17			0				14	8				303.5	128.4	2.8	50.0
Apr 29	15			0				11	7				305.2	126.2	3.0	50.0
Apr 30	17			1				10	6				316.7	139.6	3.0	50.0
TOTAL	119			2				2,009	717				290.2	130.9	3.5	47.5
AVG.	4			0				67	24							

*Data unavailable.

Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Official Spring Chinook run started April 1. March chinook counts were not added to spring totals.

TABLE 65

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT
MAY 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCH	DEG F
May 1	39			0				4	4	0			357.2	182.4	3.2	50.0
May 2	89			0				11	7	0			358.7	181.2	2.7	50.0
May 3	116			0				4	1	0			354.4	180.7	2.8	52.0
May 4	90			1				5	0	0			346.2	170.7	3.0	52.0
May 5	275			5				8	6	0			298.4	120.3	3.0	52.0
May 6	258			11				7	4	0			303.2	125.7	3.5	52.0
May 7	729			11				2	1	0			320.4	146.1	3.0	53.0
May 8	791			17				2	2	0			307.5	131.4	3.0	53.0
May 9	875			40				6	3	0			296.3	117.6	3.5	53.0
May 10	1,548			42				5	2	0			308.5	139.7	3.0	52.0
May 11	2,015			40				1	1	0			269.6	99.4	3.6	52.0
May 12	2,473			76				7	1	0			276.7	127.2	4.0	53.0
May 13	3,054			82				5	4	0			294.1	144.4	3.8	54.0
May 14	2,754			69				2	0	0			271.1	121.5	3.8	53.0
May 15	2,811			91				5	1	0			274.3	108.5	4.2	54.0
May 16	3,185			134				11	1	1			281.2	109.6	4.0	55.0
May 17	2,401			95				5	0	1			292.4	118.6	5.2	56.0
May 18	3,221			150				2	0	11			352.4	174.4	4.5	57.0
May 19	2,760			168				4	1	7			376.4	199.4	4.3	57.0
May 20	2,455			185				9	2	33			382.3	205.9	4.2	57.0
May 21	1,957			169				6	1	57			376.0	199.6	4.2	58.0
May 22	976			109				7	0	60			361.7	187.0	3.6	58.0
May 23	837			72				7	0	72			368.8	195.2	2.9	57.0
May 24	1,069			84				6	0	26			383.7	207.5	2.7	57.0
May 25	905			92				8	1	30			366.1	189.1	2.7	57.0
May 26	1,105			99				3	0	30			378.1	201.1	1.7	55.0
May 27	692			40				5	0	7			399.3	225.4	1.7	55.0
May 28	494			54				6	0	13			393.0	219.5	1.7	55.0
May 29	499			36				6	0	2			393.8	219.8	1.7	55.0
May 30	654			54				8	0	110			389.6	219.7	2.2	55.0
May 31	570			55				8	0	3,596			340.5	172.5	2.2	56.0
TOTAL	41,697			2,081				175	43	4,056						

AVG.	1,345			67				6	1	131			337.8	165.8	3.2	54.4
------	-------	--	--	----	--	--	--	---	---	-----	--	--	-------	-------	-----	------

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	TOTAL STEELHEAD	WILD STEELHEAD	SHAD
TOTALS TO DATE	41,816	2,083	2,184	760	4,056
SPRING					

TABLE 66

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT
JUNE 2006

DATE	FISH COUNTS											RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY SECCH	DEG F
	SPRING	SUMMER	FALL													
Jun 1	587			54			0	5	2	3,160	1	0	334.9	171.4	3.0	56.0
Jun 2	452			32			0	8	1	6,461	0	0	301.4	150.3	3.0	56.0
Jun 3	377			31			0	2	0	3,028	0	1	330.1	180.5	3.0	56.0
Jun 4	411			42			0	13	2	3,776	0	0	338.2	187.8	3.3	57.0
Jun 5	427			47			0	11	0	5,952	0	0	331.1	171.6	3.3	58.0
Jun 6	433			53			2	14	0	4,431	0	0	354.9	194.4	3.3	58.0
Jun 7	690			80			10	23	3	6,512	2	0	363.3	202.9	3.3	58.0
Jun 8	694			53			9	15	2	5,655	0	0	362.7	187.5	3.4	59.0
Jun 9		704		59			41	15	3	9,136	0	0	364.1	194.9	3.5	59.0
Jun 10		622		35			34	24	2	15,356	0	0	357.4	197.9	3.6	59.0
Jun 11		961		39			52	29	0	14,718	6	0	347.7	214.9	3.3	60.0
Jun 12		991		54			61	36	4	13,830	0	0	348.1	188.2	3.5	60.0
Jun 13		653		42			78	11	1	9,649	1	0	352.6	178.1	4.0	60.0
Jun 14		1,205		61			162	32	2	13,175	0	0	349.3	182.6	3.8	60.0
Jun 15		1,099		39			207	32	7	9,936	0	1	373.8	204.1	4.5	59.0
Jun 16		1,910		72			398	38	5	30,411	0	0	351.1	177.3	3.4	59.0
Jun 17		1,340		54			399	47	5	31,072	1	0	344.4	165.2	3.3	60.0
Jun 18		1,389		50			362	45	10	41,648	1	0	330.7	155.2	3.1	60.0
Jun 19		1,005		58			463	38	0	65,147	1	0	301.2	126.2	3.9	60.0
Jun 20		1,838		54			818	52	12	43,752	1	0	322.9	162.9	3.9	60.0
Jun 21		1,545		58			669	48	14	44,932	2	0	278.6	162.2	*	60.0
Jun 22		1,437		36			810	48	6	40,766	0	0	271.3	127.3	3.5	61.0
Jun 23		1,296		82			823	50	8	38,263	1	1	303.7	128.1	3.5	61.0
Jun 24		2,297		87			872	74	33	36,337	1	0	279.4	148.6	3.5	61.0
Jun 25		1,949		72			754	60	11	38,723	1	0	247.6	136.4	3.6	62.0
Jun 26		1,563		59			723	56	11	31,019	0	0	263.5	116.1	5.1	62.0
Jun 27		2,782		130			1,268	86	14	55,986	0	0	258.4	103.4	5.1	62.0
Jun 28		2,779		107			1,771	103	20	62,562	1	0	249.0	105.8	4.6	62.0
Jun 29		1,835		87			1,517	114	23	53,051	7	0	268.8	115.0	4.4	62.0
Jun 30		2,982		97			2,372	143	37	51,130	4	0	227.0	100.0	4.8	64.0
TOTAL	4,071	34,182		1,824			14,675	1,272	238	789,574	31	3				
AVG.	509	1,554		61			489	42	8	26,319	1		316.9	161.2	3.7	59.7

*Data unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	45,887	2,475
SUMMER	34,182	1,432
TOTAL	80,069	3,907

	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
	14,675	3,456	998	793,630	31

TABLE 67

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT
JULY 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCH	DEG F
Jul 1		2,358		68			2,150	140	28	60,529	5	0	204.5	81.8	*	64.0
Jul 2		2,687		91			1,698	220	36	48,295	1	0	191.4	103.9	4.8	64.0
Jul 3		2,049		77			1,565	219	63	41,447	6	0	196.0	110.9	5.1	65.0
Jul 4		2,335		115			1,340	178	36	39,337	5	0	181.1	79.4	5.1	67.0
Jul 5		1,103		54			845	182	52	39,784	11	0	182.9	73.7	6.0	67.0
Jul 6		851		54			826	200	53	26,313	16	0	201.3	80.2	5.0	67.0
Jul 7		1,140		87			1,030	236	67	16,115	19	0	207.7	84.6	5.0	67.0
Jul 8		1,321		50			893	259	50	12,107	16	0	224.6	123.7	5.0	67.0
Jul 9		1,342		63			727	246	87	13,053	7	0	208.0	122.1	5.2	68.0
Jul 10		810		62			504	296	87	11,766	31	0	231.1	137.7	5.3	68.0
Jul 11		1,060		63			523	331	100	11,118	26	0	230.6	136.7	5.2	68.0
Jul 12		914		79			479	339	124	9,976	20	0	198.1	87.3	4.9	68.0
Jul 13		786		67			391	337	109	5,362	29	0	182.8	71.7	4.9	68.0
Jul 14		519		41			239	283	81	4,028	38	0	178.1	99.2	4.9	68.0
Jul 15		474		63			192	321	87	3,906	16	0	193.8	114.5	5.0	68.0
Jul 16		436		52			144	304	97	4,702	39	0	187.6	81.9	5.0	68.0
Jul 17		998		75			152	388	126	4,280	27	0	208.7	82.4	5.0	69.0
Jul 18		724		40			135	453	184	2,541	41	0	179.2	72.5	5.4	70.0
Jul 19		356		29			103	426	158	2,196	57	0	172.3	68.2	*	70.0
Jul 20		270		44			66	321	90	2,633	17	0	193.6	107.9	4.0	70.0
Jul 21		356		55			86	373	126	2,935	12	0	184.7	109.5	4.7	70.0
Jul 22		447		23			67	336	123	3,869	7	1	176.6	78.8	4.7	70.0
Jul 23		308		36			45	260	103	1,889	24	0	162.1	64.0	5.5	70.0
Jul 24		382		29			52	218	81	1,339	18	0	186.0	80.6	5.5	70.0
Jul 25		340		39			52	256	97	882	10	0	176.6	69.5	*	70.0
Jul 26		133		36			45	348	132	1,027	18	0	195.2	111.2	6.0	71.0
Jul 27		437		64			38	325	126	1,102	9	0	159.8	95.7	6.0	72.0
Jul 28		278		27			38	415	168	876	8	0	172.6	104.0	5.0	73.0
Jul 29		188		37			18	395	129	882	26	0	189.0	112.9	*	70.0
Jul 30		333		42			13	355	133	764	35	0	159.1	73.3	5.0	70.0
Jul 31		269		42			17	254	74	662	29	0	130.0	52.0	5.1	70.0
TOTAL		26,004		1,704			14,473	9,214	3,007	375,715	623	1				

AVG.	839	55	467	297	97	12,120	20	0	188.6	92.6	5.1	68.6
------	-----	----	-----	-----	----	--------	----	---	-------	------	-----	------

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	45,887	2,475
SUMMER	60,186	3,136
TOTAL	106,073	5,611

	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
TOTALS TO DATE					
	29,148	4,005	1,169,345	654	4

TABLE 68

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT
AUGUST 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCH	DEG F
Aug 1		297		29	0	0	16	215	72	662	25	0	150.3	84.8	5.1	70.0
Aug 2		193		22	0	0	15	215	80	673	13	0	148.8	88.7	5.0	70.0
Aug 3		252		25	0	0	16	215	73	657	23	0	146.1	65.5	5.3	69.0
Aug 4		278		44	0	0	2	170	51	621	59	0	162.0	63.7	5.1	70.0
Aug 5		271		36	0	0	11	200	63	409	14	0	140.5	78.1	5.2	70.0
Aug 6		418		33	0	0	8	180	55	499	26	0	137.4	81.4	5.4	70.0
Aug 7		400		36	0	0	10	181	53	535	36	0	142.3	64.1	5.4	72.0
Aug 8		276		28	0	0	12	287	81	437	49	0	152.5	59.8	5.1	72.0
Aug 9			163	19	0	0	5	352	116	424	30	0	166.4	92.9	4.6	72.0
Aug 10			313	36	0	0	6	610	189	505	25	0	153.8	91.1	5.0	71.0
Aug 11			299	30	0	0	6	524	147	317	24	0	136.5	60.4	*	71.0
Aug 12			299	36	0	0	5	421	129	342	42	0	123.6	48.6	5.9	70.0
Aug 13			200	32	0	0	1	265	90	175	39	0	115.9	60.2	*	70.0
Aug 14			165	25	0	0	4	275	66	281	22	0	96.7	42.6	5.0	71.0
Aug 15			109	28	0	0	1	245	74	184	19	0	136.2	60.8	5.3	71.0
Aug 16			98	21	0	0	3	411	114	149	20	0	152.5	61.6	*	71.0
Aug 17			266	16	0	0	5	501	134	86	28	1	132.7	74.4	*	72.0
Aug 18			268	27	0	0	4	416	113	60	27	0	163.7	98.2	*	71.0
Aug 19			130	19	0	0	4	365	90	92	24	0	146.1	64.8	*	70.0
Aug 20			210	20	0	0	1	378	94	66	49	0	117.4	46.6	*	70.0
Aug 21			294	57	0	0	0	328	71	42	47	0	142.7	81.1	*	70.0
Aug 22			283	57	0	0	5	520	130	72	31	0	153.1	92.5	5.5	70.0
Aug 23			111	29	0	0	0	727	178	51	27	0	152.7	68.7	5.2	70.0
Aug 24			192	62	0	1	0	722	177	48	28	0	151.3	61.5	4.5	70.0
Aug 25			183	52	1	0	0	681	167	28	38	0	164.6	91.6	5.0	70.0
Aug 26			244	48	0	0	2	691	160	37	30	0	186.3	112.1	4.6	71.0
Aug 27			254	72	2	0	0	715	172	42	29	1	125.7	56.7	4.7	71.0
Aug 28			586	82	2	0	0	719	175	18	31	0	138.6	55.3	*	71.0
Aug 29			788	101	6	0	0	811	198	13	34	0	163.9	92.4	4.8	72.0
Aug 30			334	83	18	3	0	942	237	19	24	0	152.4	92.3	4.5	70.0
Aug 31			685	146	55	2	0	1,237	279	10	25	0	125.5	57.5	4.4	69.0
TOTAL		2,385	6,474	1,351	84	6	142	14,519	3,828	7,554	938	2				

AVG.	298	281	44	3	0	5	468	123	244	30	0		144.5	72.6	5.0	70.5
------	-----	-----	----	---	---	---	-----	-----	-----	----	---	--	-------	------	-----	------

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	45,887	2,475
SUMMER	62,571	3,389
FALL	6,474	1,098
TOTAL	114,932	6,962

COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
84	6	29,290	27,189	7,833	1,176,899	1,592	6

TABLE 69

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT
SEPTEMBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCH	DEG F
Sep 1			681	122	85	11	1	1,355	328		66		102.8	0.1	4.1	69.0
Sep 2			465	119	62	2	0	1,304	348		65		75.3	0.0	4.2	70.0
Sep 3			1,479	224	36	3	0	1,046	238		50		85.7	0.0	4.5	70.0
Sep 4			1,602	158	64	4	0	1,220	255		30		95.1	0.0	4.5	70.0
Sep 5			2,001	218	60	2	0	1,426	329		27		102.8	0.0	5.0	68.0
Sep 6			2,613	252	149	12	1	2,129	501		35		111.0	0.0	5.2	68.0
Sep 7			1,348	198	106	8	0	2,613	628		45		99.2	0.0	5.1	69.0
Sep 8			1,889	332	135	24	0	2,888	642		39		88.6	0.0	4.5	69.0
Sep 9			2,297	407	203	17	0	4,080	894		38		96.9	0.0	5.0	69.0
Sep 10			2,369	478	242	13	0	5,098	1,104		35		80.3	0.0	5.0	69.0
Sep 11			3,768	588	258	17	1	4,083	868		44		90.6	0.0	5.1	69.0
Sep 12			3,032	434	190	20	0	3,404	774		32		97.2	0.0	4.0	70.0
Sep 13			2,267	459	275	34	1	3,945	871		29		102.8	0.0	*	70.0
Sep 14			1,578	374	467	30	0	5,896	1,216		27		100.2	0.0	*	69.0
Sep 15			1,255	260	291	36	0	2,960	689		23		101.8	0.0	*	69.0
Sep 16			1,690	282	206	29	0	2,246	498		15		78.4	0.0	6.0	69.0
Sep 17			2,446	260	296	42	0	3,210	732		15		61.8	0.0	6.0	69.0
Sep 18			2,836	292	175	26	0	2,397	507		32		83.3	0.0	6.0	69.0
Sep 19			3,173	307	169	44	0	2,467	484		13		93.1	0.0	4.1	69.0
Sep 20			763	211	313	62	0	3,229	640		22		88.8	0.0	5.0	66.0
Sep 21			1,619	324	276	48	0	3,572	679		9		101.7	0.0	5.0	65.0
Sep 22			1,567	284	381	30	0	4,314	838		15		109.8	0.0	4.5	65.0
Sep 23			1,814	308	274	12	0	3,478	694		9		87.3	0.0	4.5	65.0
Sep 24			3,224	440	337	19	0	3,847	733		13		63.9	0.0	4.5	64.0
Sep 25			3,502	472	411	42	1	4,359	824		5		83.2	0.2	*	64.0
Sep 26			4,526	526	559	58	0	6,669	1,426		7		84.2	0.2	*	66.0
Sep 27			1,992	367	311	36	0	5,263	1,139		10		107.8	0.0	5.0	66.0
Sep 28			1,816	221	346	37	0	5,604	1,251		13		93.6	0.0	5.0	65.0
Sep 29			1,159	394	211	35	0	5,463	1,096		7		87.2	0.0	5.0	65.0
Sep 30			780	243	222	30	0	4,444	993		14		82.9	0.0	5.0	65.0
TOTAL			61,551	9,554	7,110	783	5	104,009	22,219		784					

AVG.			2,052	318	237	26	0	3,467	741		26		91.2	0.0	4.9	67.7
------	--	--	-------	-----	-----	----	---	-------	-----	--	----	--	------	-----	-----	------

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
TOTALS TO DATE										
SPRING	45,887	2,475	7,194	789	29,295	131,198	30,052	1,176,899	2,376	6
SUMMER	62,571	3,389								
FALL	68,025	10,652								
TOTAL	176,483	16,516								

TABLE 70

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT

OCTOBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCH	DEG F
Oct 1			1,616	327	228	26		4,493	918		9	0	85.4	0.0	6.0	66.0
Oct 2			1,657	320	161	29		3,338	651		13	0	89.4	0.0	6.0	65.0
Oct 3			2,685	419	240	24		3,685	779		12	1	90.5	0.0	6.0	65.0
Oct 4			1,575	274	156	13		2,236	423		10	0	106.6	0.0	6.0	65.0
Oct 5			741	209	139	9		1,615	339		12	0	87.3	0.0	6.0	65.0
Oct 6			690	160	169	14		1,501	371		7	0	91.9	0.0	6.0	64.0
Oct 7			654	146	134	16		1,893	448		4	0	93.8	0.0	6.0	64.0
Oct 8			1,292	184	94	18		2,240	536		0	0	95.8	0.0	5.5	64.0
Oct 9			639	77	82	8		2,036	474		2	0	84.4	0.0	5.5	63.0
Oct 10			1,209	111	171	14		2,078	487		3	0	103.0	0.0	6.0	63.0
Oct 11			846	108	175	12		2,024	461		0	0	102.4	0.0	*	63.0
Oct 12			685	102	156	13		1,849	348		2	0	119.1	0.0	6.0	63.0
Oct 13			690	74	121	12		1,649	316		1	0	108.8	0.0	6.0	63.0
Oct 14			709	69	194	8		1,719	355		0	0	73.0	0.0	6.0	62.0
Oct 15			805	83	175	9		1,600	373		0	0	60.9	0.0	6.0	62.0
Oct 16			642	72	229	11		1,911	442		1	0	79.7	0.0	6.0	61.0
Oct 17			503	27	96	4		1,388	371		1	0	89.0	0.0	6.0	62.0
Oct 18			247	28	57	5		941	232		1	0	100.8	0.0	6.0	62.0
Oct 19			353	41	140	5		1,542	437		0	1	84.6	0.0	6.0	61.0
Oct 20			585	46	486	35		1,826	510		1	0	92.9	0.0	6.0	61.0
Oct 21			326	43	341	24		1,976	527		0	0	85.3	0.0	6.0	61.0
Oct 22			286	30	237	11		1,191	297		1	0	76.2	0.0	6.0	60.0
Oct 23			425	29	235	17		1,239	293		0	0	97.7	0.0	6.0	59.0
Oct 24			279	40	247	8		1,464	369		0	0	89.7	0.0	6.0	59.0
Oct 25			288	20	176	5		1,587	445		0	0	99.5	0.0	6.0	59.0
Oct 26			156	29	96	2		1,270	308		0	1	104.4	0.0	6.0	59.0
Oct 27			75	12	45	5		718	177		0	0	104.1	0.0	6.0	58.0
Oct 28			103	12	49	1		564	168		0	0	77.3	0.0	6.0	58.0
Oct 29			103	15	46	1		434	92		0	0	67.1	0.0	5.0	58.0
Oct 30			134	16	77	2		513	141		0	0	110.0	0.0	6.0	57.0
Oct 31			58	7	37	0		306	73		0	0	116.6	0.0	6.0	57.0
TOTAL			21,056	3,130	4,989	361		52,826	12,161		80	3				

AVG.	679	101	161	12	1,704	392	3	0	92.5	0.0	5.9	61.6
------	-----	-----	-----	----	-------	-----	---	---	------	-----	-----	------

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
TOTALS TO DATE										
SPRING	45,887	2,475	12,183	1,150	29,295	184,024	42,213	1,176,899	2,456	9
SUMMER	62,571	3,389								
FALL	89,081	13,782								
TOTAL	197,539	19,646								

Note: Visual counts ended October 31.

Official Fall Chinook run ended October 31. November and December chinook counts were not added to fall totals.

TABLE 71

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT
NOVEMBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCH	DEG F
Nov 1			81	4	39	6		274	48				112.2	0.1	6.0	56.0
Nov 2			106	12	55	4		246	45				126.9	0.0	5.5	55.0
Nov 3			150	6	44	2		307	73				97.0	0.0	6.0	54.0
Nov 4			118	13	40	0		203	38				99.9	0.0	6.0	54.0
Nov 5			124	7	48	0		174	39				90.4	0.0	6.0	53.0
Nov 6			62	4	21	2		244	61				87.2	0.0	6.0	53.0
Nov 7			180	2	48	0		327	62				97.0	0.0	6.0	54.0
Nov 8			81	7	96	3		611	128				168.0	0.0	6.0	54.0
Nov 9			86	7	66	8		1,449	223				154.5	0.0	6.0	54.0
Nov 10			132	12	58	6		2,664	402				162.5	0.0	6.0	53.0
Nov 11			71	7	19	2		2,090	362				141.6	0.0	*	54.0
Nov 12			48	3	15	0		1,549	241				120.4	0.0	6.0	54.0
Nov 13			28	4	1	1		1,241	131				146.6	0.0	6.0	54.0
Nov 14			29	3	0	0		1,172	247				129.4	0.0	3.0	54.0
Nov 15			34	-2	2	2		846	211				135.2	0.0	4.4	54.0
Nov 16			42	4	1	0		570	155				138.5	0.0	4.9	53.0
Nov 17			36	1	1	0		327	98				117.0	0.0	5.1	52.0
Nov 18			22	2	0	0		195	66				111.7	0.0	5.1	51.0
Nov 19			17	4	0	0		170	64				93.1	0.0	5.1	51.0
Nov 20			32	2	1	0		124	48				106.9	0.0	*	51.0
Nov 21			29	1	0	0		236	81				100.1	0.0	5.7	51.0
Nov 22			27	0	-2	0		217	78				107.7	0.0	5.7	50.0
Nov 23			36	2	1	0		371	121				116.6	0.0	5.4	49.0
Nov 24			28	1	-1	0		279	120				123.0	0.0	5.5	49.0
Nov 25			29	0	0	0		442	121				100.3	0.0	5.7	49.0
Nov 26			19	1	0	0		328	93				106.8	0.0	5.7	49.0
Nov 27			6	0	-1	0		279	64				117.7	0.0	5.6	48.0
Nov 28			20	0	0	0		482	124				138.5	0.0	5.6	48.0
Nov 29			13	0	0	0		218	57				140.6	0.0	6.0	47.0
Nov 30			17	0	0	0		173	50				138.6	0.0	6.0	46.0
TOTAL			1,703	107	552	36		17,808	3,651							
AVG.			57	4	18	1		594	122				120.9	0.0	5.6	51.8

*Data unavailable.

RUN YEAR	CHINOOK		COHO			SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
	ADULT	JACK	ADULT	JACK	JACK						
TOTALS TO DATE											
SPRING	45,887	2,475	12,183	1,150	29,295	184,024	42,213	1,176,899	2,456	9	
SUMMER	62,571	3,389									
FALL	89,081	13,782									
TOTAL	197,539	19,646									

Note: November counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.
Official Fall Chinook run ended October 31. November and December chinook counts were not added to fall totals.

TABLE 72

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT
DECEMBER 2006

DATE	FISH COUNTS										RIVER CONDITIONS					
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY SECCH	DEG F
Dec 1			13	0		0		157	26				120.4	0.0	6.0	45.0
Dec 2			17	1		0		246	62				117.7	0.0	6.0	44.0
Dec 3			1	0		0		72	19				133.4	0.0	6.0	44.0
Dec 4			12	1		0		81	19				129.5	0.0	6.0	43.0
Dec 5			16	0		0		112	30				140.5	0.0	6.0	43.0
Dec 6			12	1		0		64	11				138.3	0.0	6.0	43.0
Dec 7			14	0		0		54	18				144.1	0.0	6.0	43.0
Dec 8			5	0		0		99	14				136.9	0.0	*	43.0
Dec 9			7	0		0		38	7				129.9	0.0	*	43.0
Dec 10			5	0		0		39	11				120.7	0.0	*	44.0
Dec 11			3	0		0		61	11				131.7	0.0	6.0	44.0
Dec 12			2	0		0		41	9				120.1	0.0	6.0	44.0
Dec 13			4	0		0		96	18				126.4	0.0	6.0	45.0
Dec 14			-1	0		0		119	32				144.5	0.0	6.0	43.0
Dec 15			5	0		2		360	69				149.4	0.0	6.0	43.0
Dec 16			2	0		0		183	38				116.9	0.0	6.0	43.0
Dec 17			0	0		0		204	43				105.4	0.0	6.0	44.0
Dec 18			1	0		0		191	45				146.0	0.0	6.0	44.0
Dec 19			5	0		0		159	37				152.4	0.0	6.0	44.0
Dec 20			5	1		0		16	5				151.5	0.0	6.0	43.0
Dec 21			6	1		0		20	9				129.4	0.0	6.0	42.0
Dec 22			9	0		0		32	10				134.0	0.0	6.0	42.0
Dec 23			5	0		0		47	12				135.5	0.0	6.0	42.0
Dec 24			9	0		0		103	32				121.5	0.0	6.0	42.0
Dec 25			20	0		0		71	22				112.1	0.0	6.0	42.0
Dec 26			3	0		0		31	8				121.7	0.0	6.0	42.0
Dec 27			2	0		0		71	13				107.3	0.0	6.0	42.0
Dec 28			1	0		0		57	12				138.5	0.0	6.0	41.0
Dec 29			0	0		0		37	4				134.4	0.0	6.0	41.0
Dec 30			2	1		0		13	0				130.5	0.0	6.0	41.0
Dec 31			4	0		0		61	15				110.4	0.0	6.0	41.0
TOTAL			189	6		2		2,935	661							

AVG.			6	0				95	21				130.0	0.0	6.0	42.9
------	--	--	---	---	--	--	--	----	----	--	--	--	-------	-----	-----	------

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
TOTALS TO DATE										
SPRING	45,887	2,475	12,183	1,150	29,295	184,024	42,213	1,176,899	2,456	9
SUMMER	62,571	3,389								
FALL	89,081	13,782								
TOTAL	197,539	19,646								

Note: December counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST.
Official Fall Chinook run ended October 31. November and December chinook counts were not added to fall totals.

TABLE 73

YEARLY TOTALS OF SALMONIDS COUNTED OVER McNARY DAM
1954 - 2006

YEAR	CHINOOK*	STEELHEAD	SOCKEYE	COHO*	TOTALS*
1954	126,555	75,059	108,181	950	310,745
1955	108,915	85,575	173,758	643	368,891
1956	114,342	42,554	102,145	683	259,724
1957	292,696	105,728	85,460	2,855	486,739
1958	226,092	87,890	102,397	1,350	417,729
1959	171,490	110,475	83,977	1,970	367,912
1960	176,767	96,895	55,372	1,580	330,614
1961	154,996	103,743	16,388	2,045	277,172
1962	152,756	163,181	29,372	3,195	348,504
1963	154,459	113,646	59,744	3,113	330,962
1964	167,934	100,742	83,931	3,317	355,924
1965	150,907	118,960	42,052	2,700	314,619
1966	223,141	145,130	173,028	8,525	549,824
1967	195,653	77,700	105,635	27,226	406,214
1968	200,488	112,522	101,007	39,518	453,535
1969	213,407	76,681	29,787	53,716	373,591
1970	168,892	69,759	59,636	36,399	334,686
1971	171,448	109,630	52,867	39,358	373,303
1972	168,821	93,820	26,422	45,635	334,698
1973	184,112	64,620	42,731	17,682	309,145
1974	127,858	26,932	26,505	13,746	195,041
1975	133,150	23,663	43,143	3,975	203,931
1976	163,314	54,000	24,632	7,539	249,485
1977	183,581	87,712	80,781	4,622	356,696
1978	144,148	34,740	18,511	20,356	217,755
1979	95,275	50,304	37,792	12,800	196,171
1980	80,773	66,524	44,301	571	192,169
1981	80,619	61,985	26,644	3,736	172,984
1982	102,225	75,099	15,077	3,119	195,520
1983	121,636	125,254	40,903	2,470	290,263
1984	159,071	135,515	56,906	2,841	354,333
1985	288,483	188,204	98,457	6,917	582,061
1986	342,417	193,481	46,443	1,374	583,715
1987	286,638	148,811	72,190	615	508,254
1988	243,608	151,765	50,080	2,010	447,463
1989	176,407	170,467	41,318	3,383	391,575
1990	147,439	95,061	46,145	2,059	290,704
1991	114,841	168,692	69,365	2,272	355,170
1992	135,707	194,026	68,737	1,801	400,271
1993	143,412	93,183	66,485	481	303,561
1994	128,868	94,427	10,603	1,735	235,633
1995	113,354	114,910	8,320	1,021	237,605
1996	114,947	124,177	28,585	1,853	269,562
1997	162,946	129,817	38,043	2,580	333,386
1998	114,604	99,705	9,391	6,173	229,873
1999	121,946	84,088	11,884	4,934	222,852
2000	191,231	130,332	60,242	11,152	392,957
2001	489,784	398,784	97,188	24,730	1,010,486
2002	417,090	286,805	39,424	3,192	746,511
2003	420,603	230,418	32,037	19,830	702,888
2004	384,808	212,683	89,707	20,570	707,768
2005	270,003	224,292	63,540	20,600	578,435
2006	219,191	206,155	29,295	13,923	468,564
Totals	9,943,848	6,436,321	3,026,564	521,440	19,928,173
10-Year Average	279,221	200,308	47,075	12,768	539,372

*Jacks included

TABLE 74
MONTHLY COUNT OF CHINOOK SALMON
McNARY DAM
1954 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	SPRING	SUMMER	FALL
														MAR 15- JUN 8	JUN 9- AUG 8	AUG 9- OCT 31
1954			14	919	42,625	28,510	35,993	9,287	8,626	568	13		126,555	52,014	61,065	13,476
1955				86	12,778	26,125	46,021	14,773	7,220	1,648	264		108,915	21,309	71,180	16,426
1956			7	307	10,746	34,360	50,409	11,073	5,636	1,360	444		114,342	12,717	90,335	11,290
1957			6	14,489	67,939	91,473	41,485	25,621	48,685	2,998			292,696	99,511	122,578	70,607
1958				1,864	36,684	61,898	25,140	11,120	82,890	6,496			226,092	54,910	73,654	97,528
1959				3,914	31,923	23,461	51,478	14,929	42,756	3,029			171,490	40,775	74,985	55,730
1960				4,808	44,721	49,506	25,710	13,376	35,329	3,317			176,767	52,490	76,940	47,337
1961				21,669	44,260	19,722	23,192	10,661	31,447	4,045			154,996	68,539	45,257	41,200
1962				10,527	44,053	28,621	21,008	11,751	33,541	3,255			152,756	55,884	52,756	44,116
1963				7,765	42,804	22,454	18,659	13,757	43,731	5,289			154,459	52,336	44,760	57,363
1964				19,856	33,310	10,893	39,334	14,930	45,514	4,097			167,934	54,279	55,062	58,593
1965				6,114	20,559	14,094	28,599	12,856	60,185	8,500			150,907	29,206	45,375	76,326
1966				53,484	32,282	21,161	35,895	13,811	58,275	8,233			223,141	87,195	60,827	75,119
1967				32,790	28,174	13,244	44,612	10,788	54,314	11,731			195,653	62,591	59,975	73,087
1968				13,328	51,443	20,456	37,127	15,713	53,597	8,824			200,488	67,092	60,639	72,757
1969				809	60,241	39,074	30,556	12,200	59,889	10,638			213,407	70,079	63,953	79,375
1970				28,015	34,027	18,661	23,132	13,773	44,635	6,649			168,892	63,982	43,356	61,554
1971				5,642	32,688	24,007	35,152	9,680	55,297	8,982			171,448	42,601	59,129	69,718
1972				25,911	41,609	12,553	35,322	10,154	37,131	6,141			168,821	69,023	50,491	49,307
1973				44,878	31,727	16,836	14,520	10,400	57,716	8,035			184,112	79,047	31,812	73,253
1974				1,918	34,767	7,976	18,181	6,251	45,845	12,920			127,858	40,037	25,812	62,009
1975				4,694	24,752	11,590	20,497	12,485	53,125	6,007			133,150	32,718	31,713	68,719
1976				4,868	30,435	16,714	19,821	9,143	64,863	17,470			163,314	38,505	36,818	87,991
1977				40,692	23,895	16,768	16,256	7,348	64,785	13,837			183,581	66,934	32,277	84,370
1978				27,191	37,613	14,505	18,095	7,799	30,273	7,296	1,376		144,148	68,414	31,589	44,145
1979			6	5,424	13,696	9,763	14,601	8,030	34,702	8,171	882		95,275	21,153	24,161	49,961
1980			3	3,481	18,108	6,705	12,166	7,001	24,409	8,284	616		80,773	23,001	18,862	38,910
1981			3	12,923	16,904	8,288	8,243	5,584	23,323	4,926	425		80,619	32,330	15,141	33,148
1982			3	1,638	23,487	10,357	8,749	5,091	44,276	8,624			102,225	28,352	16,574	57,299
1983				4,481	25,074	9,202	7,882	5,217	54,339	15,441			121,636	31,636	16,199	73,801
1984				1,772	23,806	9,235	12,256	8,845	79,004	23,391	767		159,076	27,474	21,201	110,401
1985			18	18,267	41,962	14,117	9,912	17,222	140,034	46,951			288,483	63,265	22,029	203,189

TABLE 74

(Continued)

MONTHLY COUNT OF CHINOOK SALMON
McNARY DAM: 1954 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	SPRING	SUMMER	FALL	
														MAR 15- JUN 8	JUN 9- AUG 8	AUG 9- OCT 31	
1986			2	28,739	44,459	14,515	12,315	9,636	168,230	64,521				342,417	76,077	25,798	240,542
1987				26,258	32,171	12,889	11,219	19,123	151,410	33,568				286,638	60,396	25,353	200,889
1988				26,267	22,245	14,605	9,282	30,714	115,878	24,617				243,608	51,178	23,621	168,809
1989				9,625	24,281	12,484	11,112	23,034	80,089	15,782				176,407	35,954	24,708	115,745
1990				19,309	23,861	11,007	11,148	7,306	61,718	13,090				147,439	44,499	22,248	80,692
1991				4,942	15,838	9,289	9,409	4,328	56,251	13,674	1,074	36		114,841	22,631	17,588	74,622
1992				25,549	22,799	9,511	6,159	5,846	51,961	13,882				135,707	50,590	14,414	70,703
1993				18,649	37,255	14,880	8,119	8,414	48,093	8,002				143,412	59,556	20,374	63,482
1994				2,940	5,513	5,486	8,242	11,085	80,693	14,909				128,868	8,987	14,313	105,568
1995				1,392	3,871	4,343	8,270	13,224	61,633	20,621				113,354	5,930	13,219	94,205
1996				426	15,212	8,242	8,206	13,964	56,847	12,050				114,947	17,832	15,102	82,013
1997				6,529	44,264	18,384	10,584	6,892	63,484	12,809				162,946	56,826	23,649	82,471
1998				6,645	11,964	9,965	8,249	5,652	50,987	21,142				114,604	19,752	17,634	77,218
1999				1,193	10,841	7,570	13,475	15,402	59,360	14,105				121,946	13,232	21,618	87,096
2000				25,136	46,396	16,096	13,641	27,931	50,138	11,893				191,231	75,644	27,696	87,891
2001				164,846	86,605	50,064	36,562	16,605	111,369	23,733				489,784	265,372	77,514	146,898
2002				14,867	108,862	65,935	56,149	26,798	123,089	21,390				417,090	133,229	116,747	167,114
2003			853	53,947	46,116	57,732	50,157	13,667	166,635	32,349	1,750	157		423,363	107,522	104,948	208,982
2004			72	53,405	53,267	47,903	32,067	12,212	149,297	34,795	1,659	131		384,808	115,251	74,217	193,550
2005			4	6,750	38,439	45,654	28,928	11,655	111,701	25,976	825	71		270,003	55,056	66,858	147,189
2006			1	121	43,778	40,077	27,708	10,210	71,105	24,186	1,810	195		219,191	48,361	65,998	102,590
Total			992	922,059	1,797,129	1,188,960	1,211,004	654,367	3,415,360	744,247	11,905	590	9,946,613	2,933,274	2,350,122	4,656,374	
10-Year Average				33,344	49,053	35,938	27,752	14,702	95,717	22,238			279,497	89,025	59,688	130,100	

*Jacks included

TABLE 75
MONTHLY COUNT OF SOCKEYE SALMON
McNARY DAM
1954 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1954					1	1,107	93,452	11,382	2,214	25			108,181
1955					43	287	163,902	9,402	121	3			173,758
1956					1	639	94,352	6,882	262	7	2		102,145
1957					13	6,318	74,874	4,233	22				85,460
1958						12,542	82,547	5,474	1,819	15			102,397
1959					21	2,031	73,735	7,981	209				83,977
1960						9,374	43,749	2,241	8				55,372
1961						1,088	14,149	1,138	11	2			16,388
1962						1,721	27,134	511	6				29,372
1963					78	8,712	50,415	535	4				59,744
1964						770	81,536	1,617	8				83,931
1965						328	40,790	923	10	1			42,052
1966						6,202	162,267	4,548	11				173,028
1967						1,935	101,044	2,647	9				105,635
1968						28,928	70,413	1,666					101,007
1969						5,787	23,353	647					29,787
1970						7,152	47,339	5,134	11				59,636
1971						317	50,568	1,982					52,867
1972						366	24,452	1,604					26,422
1973						9,011	32,301	999	420				42,731
1974						188	25,816	486	15				26,505
1975						1,517	41,011	615					43,143
1976						4,461	19,319	415	437				24,632
1977					8	36,708	43,077	739	207	42			80,781
1978						3,211	10,376	714	1,583	2,627			18,511
1979						6,317	29,571	1,547	321	36			37,792
1980						3,400	40,469	432					44,301
1981						4,419	22,042	180	1	2			26,644
1982						812	13,489	281	292	203			15,077
1983						5,897	33,851	997	142	16			40,903
1984						18,762	37,409	637	85	11	2		56,906
1985				1		60,067	36,567	522	593	707			98,457

TABLE 75

(Continued)

**MONTHLY COUNT OF SOCKEYE SALMON
McNARY DAM; 1954 - 2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1986						8,362	36,863	819	348	51			46,443
1987					4	28,742	42,464	889	85	6			72,190
1988						23,466	25,984	599	14	17			50,080
1989					1	14,721	26,239	334	21	2			41,318
1990					1	8,922	36,791	427	0	4			46,145
1991					1	6,509	61,780	1,024	38	11	1	1	69,365
1992					7	30,339	37,915	448	28				68,737
1993						26,492	39,607	377	9				66,485
1994					1	5,910	4,672	20					10,603
1995					1	3,001	5,259	58		1			8,320
1996						11,594	16,927	64					28,585
1997						7,706	29,645	688	4				38,043
1998						3,585	5,754	45	7				9,391
1999						2,842	8,940	99	1	2			11,884
2000					4	44,379	15,752	106	1				60,242
2001					4	70,327	26,610	225	17	5			97,188
2002					1	12,518	26,745	156	2	2			39,424
2003					4	13,277	18,728	28	0				32,037
2004					10	61,547	28,107	38	5				89,707
2005						27,341	36,009	182	8				63,540
2006					0	14,675	14,473	142	5				29,295
Total				1	204	676,629	2,250,633	85,879	9,414	3,798	5	1	3,026,564
10-Year Average						25,820	21,076	171	5				47,075

TABLE 76

MONTHLY COUNT OF COHO SALMON
McNARY DAM
1954 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS*
1954								4	751	180	14	1	950
1955									350	260	33		643
1956								16	462	157	48		683
1957							18	208	2,364	265			2,855
1958								29	1,091	230			1,350
1959								32	1,892	46			1,970
1960								24	1,432	124			1,580
1961								22	1,731	292			2,045
1962							5	106	2,884	200			3,195
1963							5	437	2,259	412			3,113
1964							3	307	2,734	273			3,317
1965							22	105	2,264	309			2,700
1966								811	7,195	519			8,525
1967							11	11	22,492	4,712			27,226
1968								1,010	36,260	2,248			39,518
1969								1,643	45,497	6,576			53,716
1970								3,576	31,161	1,662			36,399
1971								927	33,828	4,603			39,358
1972								2,433	38,747	4,455			45,635
1973							66	1,768	14,452	1,396			17,682
1974								1,160	10,052	2,534			13,746
1975							1	268	3,675	31			3,975
1976								373	5,201	1,965			7,539
1977						2		274	2,698	1,648			4,622
1978						1		138	10,445	7,459	2,313		20,356
1979				1		4	194	652	9,058	2,431	460		12,800
1980								2	180	203	186		571
1981								421	2,840	435	40		3,736
1982							141	235	2,148	595			3,119
1983								229	1,536	705			2,470
1984						6		147	2,506	154	28		2,841
1985					14	37	44	2,040	4,493	289			6,917

TABLE 76

(Continued)

**MONTHLY COUNT OF COHO SALMON
McNARY DAM; 1954 - 2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS*
1986								1	851	522			1,374
1987							3	24	377	211			615
1988								17	1,210	783			2,010
1989								35	2,043	1,305			3,383
1990								1	1,007	1,051			2,059
1991									1,105	937	211	19	2,272
1992								1	1,130	670			1,801
1993								2	254	225			481
1994								9	978	748			1,735
1995								8	344	669			1,021
1996							2	1	1,212	638			1,853
1997								29	1,577	974			2,580
1998								6	687	5,480			6,173
1999								6	2,931	1,997			4,934
2000								309	6,947	3,896			11,152
2001								59	11,631	13,040			24,730
2002								10	1,765	1,417			3,192
2003								25	11,788	8,017	401		20,231
2004								17	13,954	6,161	427	11	20,570
2005								59	11,327	8,390	819	5	20,600
2006								90	7,893	5,350	588	2	13,923
TOTAL				1	14	50	515	20,117	385,689	109,849	5,568	38	521,841
10-Year Average								61	7,050	5,472			12,809

*Jacks included

TABLE 77

**MONTHLY COUNT OF STEELHEAD
McNARY DAM: 1954-2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1954			376	5,569	2,307	128	2,628	20,939	26,944	11,627	2,937	1,604	75,059
1955	931	35	70	3,279	1,791	162	5,257	36,035	17,463	16,941	2,874	737	85,575
1956	66	753	563	2,365	1,218	276	5,440	14,492	8,245	6,787	2,349		42,554
1957			840	2,084	147	334	18,100	28,926	34,478	20,775	8	36	105,728
1958	62	137	1,069	877	334	1,265	9,967	6,535	50,229	17,415			87,890
1959				1,317	685	748	10,508	32,872	49,542	14,803			110,475
1960				1,579	1,236	908	8,475	22,443	51,749	10,505			96,895
1961				896	580	1,281	7,469	11,428	64,521	17,568			103,743
1962				1,650	762	1,108	11,321	28,288	98,042	22,010			163,181
1963				813	1,751	2,639	8,252	26,282	47,982	25,927			113,646
1964				1,789	805	486	7,602	25,918	53,180	10,962			100,742
1965				1,361	363	231	11,749	31,155	54,450	19,651			118,960
1966				2,279	954	1,476	18,241	26,062	71,180	24,938			145,130
1967				1,434	1,130	152	5,771	14,894	32,310	22,009			77,700
1968				5,451	3,361	247	4,058	22,268	61,167	15,970			112,522
1969				2,304	1,792	711	7,668	13,641	35,836	14,729			76,681
1970				1,347	1,001	340	5,183	15,236	39,150	7,502			69,759
1971				813	374	271	8,931	21,324	62,083	15,834			109,630
1972				1,614	393	130	8,155	20,548	46,393	16,587			93,820
1973				3,178	846	270	6,898	11,121	32,701	9,606			64,620
1974				847	715	681	4,093	5,242	8,648	6,706			26,932
1975				612	209	254	3,623	6,708	9,329	2,928			23,663
1976				936	1,372	1,949	5,772	16,145	22,423	5,403			54,000
1977				1,730	987	2,916	13,132	7,833	43,792	17,322			87,712
1978				1,266	701	1,832	3,444	4,863	15,627	5,708	1,299		34,740
1979			970	681	156	93	4,955	9,970	14,648	15,580	3,251		50,304
1980			1,753	3,355	608	381	2,740	14,431	27,706	12,776	2,774		66,524
1981			861	1,479	809	878	7,212	12,839	19,961	15,652	2,294		61,985
1982			1,530	1,764	825	321	4,279	12,621	36,282	17,477			75,099
1983				1,051	215	137	7,746	25,821	70,369	19,915			125,254
1984				1,858	860	653	13,165	14,944	68,837	33,608	1,590		135,515
1985			1,583	6,483	1,383	2,949	13,818	46,632	87,026	28,330			188,204

TABLE 77

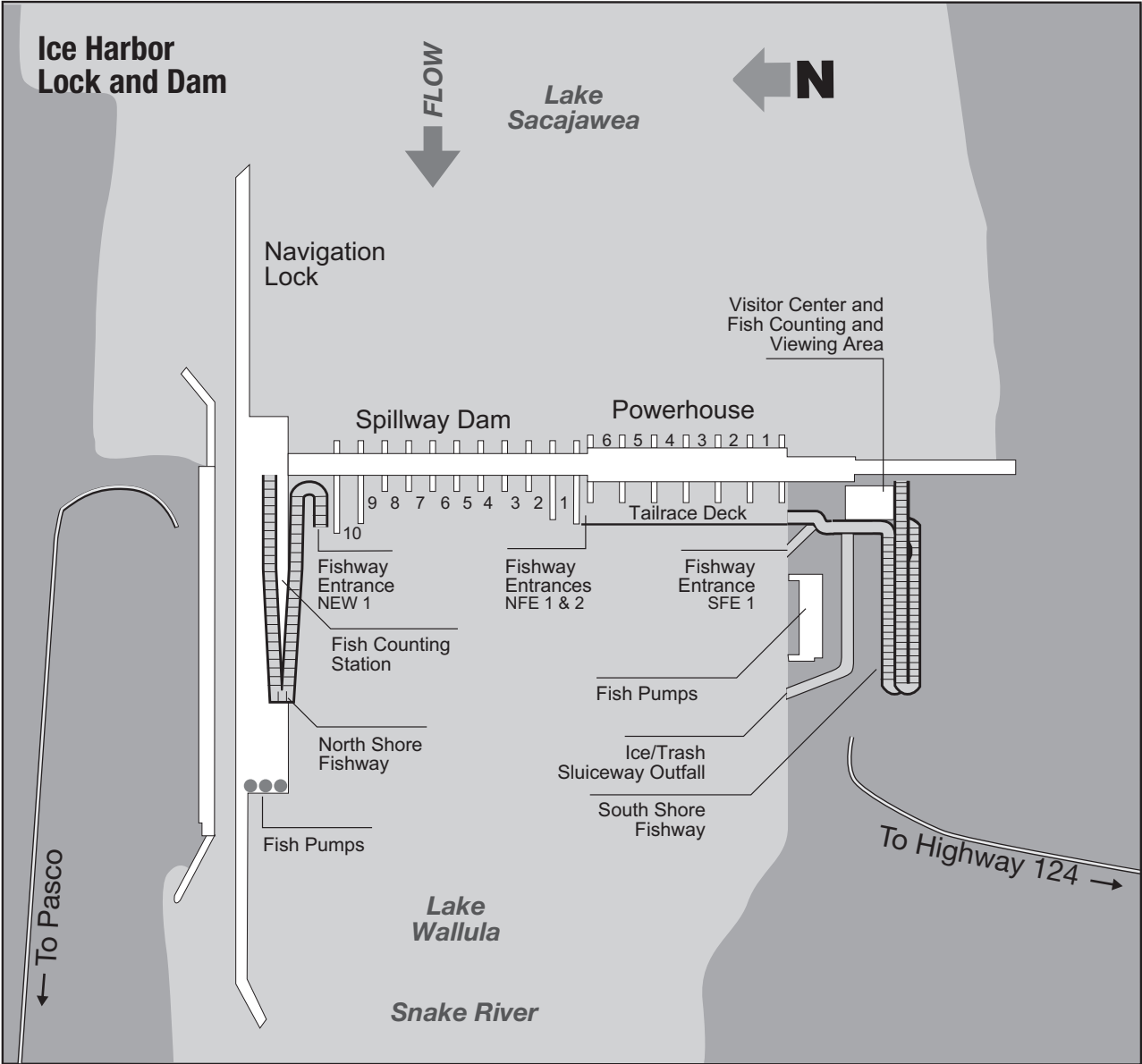
(Continued)

**MONTHLY COUNT OF STEELHEAD
McNARY DAM; 1954 - 2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
1986			1,282	1,184	414	1,193	27,563	32,339	74,769	54,737			193,481
1987				2,082	413	885	16,658	35,661	59,326	33,786			148,811
1988				4,176	1,095	2,117	11,609	25,875	69,259	37,634			151,765
1989				3,269	598	1,921	16,002	20,819	87,722	40,136			170,467
1990				2,754	660	1,489	9,105	10,368	33,452	37,233			95,061
1991				2,245	630	846	9,921	17,752	78,363	46,941	9,388	2,876	168,962
1992				1,427	642	1,921	10,989	15,504	127,626	35,917			194,026
1993				5,194	588	2,197	9,692	10,003	35,287	30,222			93,183
1994				2,622	336	1,169	7,436	5,468	40,871	36,525			94,427
1995				774	325	998	8,042	21,720	45,237	37,814			114,910
1996				701	301	950	8,726	34,385	50,723	28,391			124,177
1997				1,210	435	1,241	10,174	19,917	58,210	38,630			129,817
1998				1,236	364	1,391	6,372	4,040	38,324	47,978			99,705
1999				253	248	905	7,175	27,592	35,243	12,672			84,088
2000				588	238	1,901	16,311	23,148	59,803	28,343			130,332
2001				1,337	487	7,741	46,981	50,463	190,205	101,570			398,784
2002				4,650	271	2,957	29,979	48,226	120,936	79,786			286,805
2003			8,696	1,309	145	2,298	20,439	15,184	139,321	51,722	6,307	1,477	246,898
2004			4,316	1,133	480	3,901	14,376	10,863	132,387	37,931	4,348	2,948	212,683
2005			2,271	847	377	2,669	17,371	19,933	109,198	63,710	7,248	668	224,292
2006			1,388	2,009	175	1,272	9,214	14,519	104,009	52,826	17,808	2,935	206,155
Total	1,059	925	27,568	105,061	39,892	68,169	569,787	1,072,235	3,052,564	1,438,055	64,475	13,281	6,453,071
10-Year Avg.				1,457	322	2,628	17,839	23,389	98,764	51,517			201,956

Plate 6 Ice Harbor Lock and Dam

0 200 400
approximate scale in feet



ICE HARBOR DAM

FISH COUNTING SCHEDULE

1 Jan – 28 Feb	No counting
1 Mar – 31 Mar	Video counting daily from 0600-1600 hours PST
1 Apr – 31 Oct	Visual counting daily from 0400-2000 hours PST
1 Nov – 31 Dec	No counting

FISH LADDER OPERATING SCHEDULE

North Ladder

1 Jan – 30 Jan	Ladder in service
31 Jan – 14 Feb	Ladder dewatered for annual maintenance
15 Feb – 31 Dec	Ladder in service

South Ladder

1 Jan – 2 Jan	Ladder in service
3 Jan – 27 Jan	Ladder dewatered for annual maintenance
15 Feb – 31 Dec	Ladder in service

FISHWAY ACTIVITIES

Water temperatures were recorded hourly from fish ladder exit pool and the downstream end of the juvenile channels. Hourly readings were taken from 16 June to 15 September.

The gear reducer for the north shore AWS pump 2 was replaced. Pump is back in service.

Idaho Cooperative Fisheries Research Unit conducted an evaluation of adult salmon and steelhead migration past the Snake and Columbia River Dams. In addition, lamprey passage was monitored in the north shore and south shore adult fish ladders by half duplex PIT tag equipment. The research unit also operated the adult fish trap to radio tag adult steelhead trout and Chinook salmon

Adult fish trap was operated from 2 May to 17 July, when ladders temperatures went above 72 degrees. Operations resumed from 29 August to 30 October when water temperatures remained below 72 degrees.

The juvenile fish facility was operated for juvenile fish bypass and adult fallbacks from 2 March until 26 December.

TABLE 78

**MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER ICE HARBOR DAM
COUNTS FROM MARCH 1 THROUGH OCTOBER 31, 2006**

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				29	21,660	11,042	2,438	1,534	11,976	3,822			52,501
STEELHEAD			1,181	2,628	78	490	2,797	7,265	67,556	42,817			124,812
SOCKEYE						13	25	9	0	1			48
COHO*								1	434	536			971
PINK													
TOTAL			1,181	2,657	21,738	11,545	5,260	8,809	79,966	47,176			178,332
SHAD					15	130,804	79,332	3,078					213,229
LAMPREY				1	0	9	106	107	51	3			277

*Jacks included

These counts include the extended season videotaped counts that were made between 0600 and 1600 hours in March. Shad are not counted after September 1st.

TABLE 79

DISCHARGE AND WATER QUALITY DATA
ICE HARBOR PROJECT 2006

JANUARY					FEBRUARY				
DATE	DISCH	SPILL	TURBIDITY		DATE	DISCH	SPILL	TURBIDITY	
	KCFS	KCFS	SECCHI	DEG F		KCFS	KCFS	SECCHI	DEG F
Jan 1	64.9	0.0	12.0	39.0	Feb 1	42.0	0.0	3.8	40.0
Jan 2	76.0	0.0	12.0	39.0	Feb 2	51.1	0.0	3.8	40.0
Jan 3	61.3	0.0	12.0	39.0	Feb 3	48.9	0.0	3.8	40.0
Jan 4	55.6	0.0	12.0	39.0	Feb 4	55.6	0.0	3.8	40.0
Jan 5	38.6	0.0	12.0	39.0	Feb 5	61.5	0.0	4.0	41.0
Jan 6	43.4	0.0	9.5	39.0	Feb 6	61.3	0.0	4.0	41.0
Jan 7	42.5	0.0	8.5	38.0	Feb 7	52.9	0.0	4.0	41.0
Jan 8	26.4	0.0	8.5	38.0	Feb 8	38.8	0.0	4.0	41.0
Jan 9	34.7	0.0	8.5	38.0	Feb 9	46.6	0.0	4.0	41.0
Jan 10	39.9	0.0	8.5	38.0	Feb 10	56.1	0.0	4.0	41.0
Jan 11	56.9	0.0	7.0	38.0	Feb 11	46.3	0.0	4.0	41.0
Jan 12	48.4	0.0	7.0	38.0	Feb 12	48.2	0.0	4.0	41.0
Jan 13	49.7	0.0	7.0	38.0	Feb 13	53.2	0.0	4.0	41.0
Jan 14	52.0	0.0	7.0	38.0	Feb 14	47.1	0.0	2.8	41.0
Jan 15	40.3	0.0	7.0	38.0	Feb 15	44.5	0.0	2.8	41.0
Jan 16	46.9	0.0	7.0	38.0	Feb 16	38.0	0.0	2.8	41.0
Jan 17	27.7	0.0	7.0	38.0	Feb 17	53.8	0.0	2.8	41.0
Jan 18	45.7	0.0	7.0	38.0	Feb 18	31.1	0.0	2.8	40.0
Jan 19	39.2	0.0	7.0	40.0	Feb 19	34.0	0.0	2.8	38.0
Jan 20	43.1	0.0	7.0	40.0	Feb 20	47.8	0.0	2.8	38.0
Jan 21	39.2	0.0	7.0	40.0	Feb 21	46.6	0.0	2.8	38.0
Jan 22	38.6	0.0	7.0	40.0	Feb 22	38.6	0.0	3.4	38.0
Jan 23	35.7	0.0	7.0	40.0	Feb 23	47.1	0.0	3.4	38.0
Jan 24	45.1	0.0	3.4	40.0	Feb 24	41.1	0.0	3.4	38.0
Jan 25	38.1	0.0	3.4	40.0	Feb 25	26.5	0.0	3.4	38.0
Jan 26	35.6	0.0	3.4	40.0	Feb 26	31.0	0.0	3.4	38.0
Jan 27	42.3	0.0	3.4	40.0	Feb 27	40.4	0.0	3.4	39.0
Jan 28	31.8	0.0	3.4	40.0	Feb 28	40.6	0.0	3.4	39.0
Jan 29	35.5	0.0	3.4	40.0					
Jan 30	39.0	0.0	3.4	40.0					
Jan 31	47.8	0.0	3.4	40.0					
AVG.	43.8	0.0	7.3	39.0	AVG.	45.6	0.0	3.5	39.9

TABLE 80

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ICE HARBOR PROJECT
MARCH 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL												SECCHI	DEG F	
Mar 1								13	7				50.4	0.0	3.4	39.0	
Mar 2								12	3				45.9	0.0	3.8	39.0	
Mar 3								21	8				41.5	0.0	3.8	39.0	
Mar 4								19	4				45.3	0.0	3.8	39.0	
Mar 5								10	3				44.1	0.0	4.4	39.0	
Mar 6								12	4				62.1	0.0	4.4	39.0	
Mar 7								13	3				46.9	0.0	5.0	39.0	
Mar 8								6	1				62.5	0.0	5.0	39.0	
Mar 9								26	6				51.6	0.0	35.0	39.0	
Mar 10								30	8				52.8	0.0	5.0	39.0	
Mar 11								25	5				53.5	0.0	5.0	39.0	
Mar 12								35	7				50.1	0.0	5.0	39.0	
Mar 13								24	9				42.9	3.3	5.0	40.0	
Mar 14								38	15				59.3	4.1	5.0	40.0	
Mar 15								43	9				74.9	3.6	5.0	40.0	
Mar 16								39	11				43.5	0.0	5.0	40.0	
Mar 17								45	15				30.6	3.3	5.0	42.0	
Mar 18								22	12				64.8	3.3	5.0	42.0	
Mar 19								36	12				40.4	0.0	5.0	41.0	
Mar 20								23	12				36.2	4.1	5.0	41.0	
Mar 21								68	29				74.9	3.6	5.0	42.0	
Mar 22								108	34				23.7	0.0	5.0	43.0	
Mar 23								39	6				42.9	0.0	5.0	43.0	
Mar 24								62	20				51.9	0.0	4.6	44.0	
Mar 25								64	20				51.4	0.0	4.6	44.0	
Mar 26								64	27				50.9	0.0	4.6	44.0	
Mar 27								49	14				70.9	0.0	4.6	44.0	
Mar 28								66	21				68.5	0.0	4.6	44.0	
Mar 29								59	12				66.3	0.0	4.6	44.0	
Mar 30								55	17				71.0	0.0	4.8	44.0	
Mar 31								55	20				69.2	0.0	*	*	
TOTAL								1,181	374								
AVG.								38	12				52.9	0.8	5.7	41.0	

*water data unavailable

Note: March counts were from video tape. The counts are 10-hour counts and occurred between the hours of 0600-1600 PST. Official Spring Chinook run started April 1. March Chinook counts were not added to spring totals.

TABLE 81

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ICE HARBOR PROJECT
APRIL 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Apr 1	0			0				111	29		0		73.0	0.0	4.8	44.0
Apr 2	0			0				147	44		0		74.2	0.0	4.8	46.0
Apr 3	0			0				153	35		0		87.9	53.5	4.8	46.0
Apr 4	0			0				216	85		0		82.7	58.7	4.0	46.0
Apr 5	0			0				204	85		0		99.2	66.9	4.0	46.0
Apr 6	0			0				136	59		0		123.4	72.2	4.2	46.0
Apr 7	0			0				214	80		0		142.9	76.8	4.0	46.0
Apr 8	0			0				252	98		0		125.5	62.9	4.0	46.0
Apr 9	0			0				199	67		0		134.5	70.1	4.0	46.0
Apr 10	0			0				206	56		0		136.1	74.0	4.0	46.0
Apr 11	0			0				135	35		0		128.7	65.9	4.0	46.0
Apr 12	0			0				62	18		0		129.4	68.4	4.0	46.0
Apr 13	0			0				57	16		0		129.5	65.2	4.0	46.0
Apr 14	0			0				56	22		0		134.9	62.5	4.0	48.0
Apr 15	0			0				72	22		0		144.7	73.7	2.8	48.0
Apr 16	0			0				66	36		0		155.9	82.1	4.2	48.0
Apr 17	0			0				50	20		0		156.5	81.8	2.8	48.0
Apr 18	0			0				58	12		0		148.4	67.0	2.8	49.0
Apr 19	0			0				41	11		0		141.9	61.7	2.8	49.0
Apr 20	0			0				19	0		0		141.2	61.6	2.8	49.0
Apr 21	0			0				8	1		0		118.2	51.7	2.8	49.0
Apr 22	1			0				10	1		0		121.2	52.0	2.8	49.0
Apr 23	0			0				11	0		0		120.5	51.9	2.8	49.0
Apr 24	0			0				14	2		0		132.2	52.9	2.8	49.0
Apr 25	0			0				27	6		0		136.9	53.9	2.8	49.0
Apr 26	2			0				24	2		1		133.6	52.3	1.8	50.0
Apr 27	4			0				21	7		0		128.2	51.9	1.8	50.0
Apr 28	3			1				31	11		0		127.8	55.2	1.8	52.0
Apr 29	11			0				19	4		0		123.9	58.5	1.8	52.0
Apr 30	7			0				9	10		0		138.8	58.8	*	*

TOTAL	28			1				2,628	874							
--------------	----	--	--	---	--	--	--	-------	-----	--	--	--	--	--	--	--

AVG.	1			0				88	29							
------	---	--	--	---	--	--	--	----	----	--	--	--	--	--	--	--

125.7	58.8	3.4	47.7
-------	------	-----	------

*water data unavailable

Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. South shore ladder was counted by direct observation while the north shore ladder was by closed circuit TV. Official Spring Chinook run started April 1. March Chinook counts were not added to spring totals.

TABLE 82

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ICE HARBOR PROJECT
MAY 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
May 1	7			0				9	2	0			157.8	79.6	1.8	52.0
May 2	18			0				7	6	0			150.4	69.9	1.8	52.0
May 3	18			0				5	4	0			133.1	59.2	1.3	54.0
May 4	33			0				5	1	0			131.6	47.7	1.8	54.0
May 5	81			0				5	1	0			117.0	35.5	1.8	54.0
May 6	106			0				10	2	0			118.7	35.3	1.8	54.0
May 7	153			0				10	9	0			125.0	54.2	1.8	54.0
May 8	215			3				4	0	0			126.1	67.9	1.8	54.0
May 9	401			5				7	1	0			115.3	66.0	1.8	54.0
May 10	644			16				0	0	0			114.2	67.7	1.8	54.0
May 11	759			8				0	0	0			98.3	42.5	1.8	54.0
May 12	831			11				5	0	0			102.4	30.6	1.8	54.0
May 13	1,238			15				0	0	0			99.5	51.1	1.8	54.0
May 14	1,929			22				0	0	0			107.7	67.8	1.8	54.0
May 15	1,666			29				1	0	0			119.4	48.0	2.8	55.0
May 16	1,411			32				2	2	0			130.1	39.6	2.6	55.0
May 17	1,878			42				6	2	0			152.1	66.7	2.6	55.0
May 18	1,352			47				0	0	0			172.9	88.9	2.6	55.0
May 19	1,923			77				0	0	1			177.1	91.0	3.6	55.0
May 20	1,228			47				1	0	6			192.9	101.2	3.6	58.0
May 21	752			47				0	0	0			200.3	112.6	3.6	58.0
May 22	766			35				0	0	0			182.4	90.6	3.6	58.0
May 23	153			4				0	0	0			184.1	96.5	3.6	58.0
May 24	90			4				0	0	0			174.7	88.5	1.6	58.0
May 25	52			1				0	0	0			168.4	86.2	1.6	58.0
May 26	131			5				0	0	0			162.5	71.5	1.4	58.0
May 27	443			29				0	0	0			145.3	64.7	1.4	55.0
May 28	465			25				0	0	0			129.8	39.1	1.4	55.0
May 29	700			26				1	0	0			124.4	37.9	1.4	55.0
May 30	911			54				0	0	0			118.4	49.3	1.4	56.0
May 31	687			35				0	0	8			106.4	47.7	2.6	56.0
TOTAL	21,041			619				78	30	15						

AVG.	679			20				3	1	0			139.9	64.4	2.1	55.2
------	-----	--	--	----	--	--	--	---	---	---	--	--	-------	------	-----	------

RUN YEAR		CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		21,069	620
SPRING			

	WILD STEELHEAD	SHAD	LAMPREY
TOTALS TO DATE	2,706	15	1
SPRING			

TABLE 83

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ICE HARBOR PROJECT
JUNE 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL	WILD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL					STEELHEAD	STEELHEAD						SECCHI	DEG F
Jun 1	630			73			0	5	2	29	0	0	99.7	56.3	1.8	56.0
Jun 2	563			17			0	2	1	510	0	0	101.8	39.4	2.6	56.0
Jun 3	278			14			0	5	2	269	1	0	99.5	41.8	2.6	56.0
Jun 4	270			19			0	-1	0	409	4	0	112.2	71.2	2.6	56.0
Jun 5	198			10			0	2	0	120	0	0	120.5	68.5	2.6	56.0
Jun 6	214			14			0	7	1	573	0	0	117.7	81.1	2.9	56.0
Jun 7	361			11			0	2	1	521	0	0	119.4	81.7	2.9	56.0
Jun 8	438			21			0	10	2	636	0	0	125.8	70.0	2.9	56.0
Jun 9	468			29			0	9	4	1,356	0	0	128.3	72.2	2.9	56.0
Jun 10	480			27			0	6	1	1,259	0	0	131.7	85.5	2.9	56.0
Jun 11	465			20			0	5	1	1,324	0	0	119.9	98.7	2.9	56.0
Jun 12		463		24			0	2	1	2,246	0	0	108.8	59.8	2.9	56.0
Jun 13		496		16			0	11	8	4,271	1	0	103.4	50.1	3.0	56.0
Jun 14		295		12			0	5	1	2,506	1	0	99.9	69.2	3.0	56.0
Jun 15		240		4			0	6	2	383	0	1	115.7	70.4	2.8	56.0
Jun 16		408		17			0	11	0	2,739	0	0	102.2	43.2	2.8	56.0
Jun 17		449		15			0	2	0	1,997	1	0	92.3	27.1	2.8	56.0
Jun 18		498		19			0	8	1	10,015	0	0	91.4	27.9	2.8	56.0
Jun 19		404		11			0	10	1	5,906	0	0	79.9	23.9	2.8	56.0
Jun 20		268		13			0	1	2	3,468	0	1	68.8	41.6	2.8	56.0
Jun 21		271		17			1	15	5	3,975	0	0	70.2	48.4	2.8	56.0
Jun 22		256		10			0	18	2	5,742	0	0	64.2	44.9	2.8	56.0
Jun 23		210		8			0	16	3	6,619	0	0	64.6	44.9	2.8	56.0
Jun 24		198		14			2	21	3	8,561	0	1	58.8	21.3	2.8	56.0
Jun 25		266		7			6	33	6	8,147	0	1	58.4	17.7	2.8	56.0
Jun 26		251		4			0	21	2	11,703	0	0	60.3	44.3	2.8	56.0
Jun 27		269		11			0	46	7	8,832	1	0	58.4	37.8	2.8	56.0
Jun 28		284		26			1	72	20	11,654	0	0	52.9	17.8	4.1	56.0
Jun 29		302		18			1	64	14	12,836	0	0	56.2	18.8	4.1	56.0
Jun 30		333		15			2	76	12	12,198	0	0	50.5	17.6	4.1	56.0
TOTAL	4,365	6,161		516			13	490	105	130,804	9	4				
AVG.	397	324		17			0	16	4	4,360	0		91.1	49.8	2.9	56.0

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	25,434	875
SUMMER	6,161	261
TOTAL	31,595	1,136

	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
TOTALS TO DATE						
	13	3,196	1,009	130,819	10	4

TABLE 84

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ICE HARBOR PROJECT

JULY 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL	WILD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL					STEELHEAD	STEELHEAD						SECCHI	DEG F
Jul 1		252		23			2	77	7	6,502	0		50.5	17.6	4.1	65.0
Jul 2		221		19			0	62	11	14,149	0		40.8	15.1	4.1	66.0
Jul 3		212		20			1	95	9	8,044	0		47.6	31.8	4.1	66.0
Jul 4		122		15			6	66	6	5,047	0		47.4	36.8	4.9	66.0
Jul 5		126		7			2	81	13	6,381	0		43.0	20.1	4.8	66.0
Jul 6		100		5			2	71	7	3,833	0		50.1	16.6	4.8	66.0
Jul 7		110		13			0	117	18	4,893	3		45.1	32.7	4.8	66.0
Jul 8		104		22			2	91	9	3,563	2		48.8	36.2	4.8	67.0
Jul 9		141		29			0	97	24	2,331	2		45.7	19.0	4.8	69.0
Jul 10		121		11			0	104	21	3,381	0		48.3	15.5	4.8	69.0
Jul 11		66		9			2	87	11	3,559	2		47.9	33.4	4.8	69.0
Jul 12		73		13			3	97	18	4,666	1		46.6	32.5	4.8	70.0
Jul 13		41		7			1	53	16	2,254	5		48.6	17.8	4.8	70.0
Jul 14		44		7			0	60	8	1,025	1		45.7	17.3	4.8	70.0
Jul 15		32		-1			0	59	11	1,050	2		40.7	29.6	4.8	70.0
Jul 16		17		0			0	34	5	843	2		42.4	30.6	4.8	70.0
Jul 17		51		4			0	84	11	839	3		37.9	27.6	4.8	70.0
Jul 18		56		5			2	94	14	1,239	6		38.9	28.6	4.8	70.0
Jul 19		33		12			0	62	28	763	3		42.1	18.3	4.8	70.0
Jul 20		35		10			0	65	21	567	8		38.0	15.7	4.8	70.0
Jul 21		33		11			0	59	12	657	2		34.6	21.9	5.0	70.0
Jul 22		18		2			0	86	21	535	6		48.0	36.2	5.0	70.0
Jul 23		33		1			0	88	22	415	1		39.5	28.5	5.0	71.0
Jul 24		15		1			0	91	15	462	5		39.1	27.9	5.0	71.0
Jul 25		21		2			0	135	32	486	5		41.4	30.0	6.8	71.0
Jul 26		17		1			0	109	14	388	1		33.2	22.3	6.8	71.0
Jul 27		14		1			0	69	15	256	3		31.4	20.1	6.8	71.0
Jul 28		17		10			0	109	13	347	16		35.9	24.8	6.8	71.0
Jul 29		18		4			1	142	23	465	16		28.9	17.9	6.8	72.0
Jul 30		10		5			0	219	42	214	7		31.9	21.1	6.8	72.0
Jul 31		16		1			1	134	27	178	4		31.2	20.5	6.8	72.0
TOTAL		2,169		269			25	2,797	504	79,332	106					

AVG.	70	9	1	90	16	2,559	3	41.7	24.6
------	----	---	---	----	----	-------	---	------	------

RUN YEAR	CHINOOK		WILD						
	TOTALS TO DATE	ADULT	JACK	SOCKEYE	STEELHEAD	STEELHEAD	SHAD	LAMPREY	STURGEON
SPRING	25,434	875		38	5,993	1,513	210,151	116	4
SUMMER	8,330	530							
TOTAL	33,764	1,405							

TABLE 85

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ICE HARBOR PROJECT
AUGUST 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Aug 1		13		0	0		0	112	23	362	4	0	30.2	20.1	6.8	70.0
Aug 2		11		2	0		0	87	10	229	8	0	27.9	17.6	6.8	70.0
Aug 3		19		3	0		0	92	11	582	4	0	25.4	15.1	6.8	70.0
Aug 4		8		0	0		4	67	6	376	0	0	25.1	15.1	6.8	70.0
Aug 5		11		-8	0		0	50	8	249	4	0	24.3	16.2	6.8	70.0
Aug 6		14		1	0		0	55	8	89	3	0	31.4	21.3	6.8	70.0
Aug 7		15		1	0		2	59	7	177	1	0	29.2	19.3	6.8	70.0
Aug 8		33		1	0		0	106	22	252	6	0	31.1	21.4	6.8	70.0
Aug 9		32		1	0		0	180	27	61	2	0	27.2	17.5	6.8	70.0
Aug 10		17		8	0		0	137	27	22	13	0	28.6	19.1	5.8	70.0
Aug 11		37		6	0		0	144	39	110	6	0	28.5	18.9	5.8	70.0
Aug 12			25	8	0		0	155	33	218	0	0	30.3	20.1	5.8	70.0
Aug 13			36	2	0		0	132	28	141	1	0	28.9	18.7	5.8	70.0
Aug 14			21	2	0		0	105	20	74	4	0	20.7	10.5	5.8	70.0
Aug 15			20	5	0		0	108	23	5	1	0	22.8	12.7	5.8	70.0
Aug 16			21	6	0		0	189	29	11	3	0	24.9	14.7	5.8	70.0
Aug 17			29	2	0		0	312	61	28	7	0	32.3	22.0	5.8	70.0
Aug 18			38	10	0		0	233	42	8	4	0	22.1	12.1	5.8	70.0
Aug 19			53	6	0		0	242	44	6	8	0	29.8	19.9	5.8	70.0
Aug 20			32	18	0		0	297	66	7	3	0	26.5	16.3	5.8	70.0
Aug 21			49	5	0		0	238	40	11	3	0	31.5	21.0	5.8	70.0
Aug 22			75	9	0		0	435	106	5	3	0	26.6	16.2	5.8	70.0
Aug 23			98	7	0		0	319	59	5	2	0	35.4	25.4	5.8	70.0
Aug 24			36	4	0		1	232	48	8	1	1	27.4	17.5	5.8	70.0
Aug 25			38	9	0		0	367	46	2	2	0	25.7	15.8	5.8	70.0
Aug 26			62	10	0		0	439	76	5	3	0	22.4	12.6	5.8	70.0
Aug 27			40	4	1		0	264	29	3	2	0	22.2	12.4	5.8	70.0
Aug 28			45	8	0		1	197	19	1	1	0	18.4	8.7	5.8	70.0
Aug 29			121	30	0		1	650	137	4	4	0	25.8	16.1	6.4	70.0
Aug 30			122	25	0		0	573	151	16	3	0	24.5	14.6	6.4	70.0
Aug 31			135	43	0		0	689	184	11	1	0	26.9	17.2	6.4	70.0
TOTAL		210	1,096	228	1		9	7,265	1,429	3,078	107	1	26.9	17.0		
AVG.		19	55	7				234	46	99	3	0	26.9	17.0		

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	25,434	875
SUMMER	8,540	545
FALL	1,096	213
TOTAL	35,070	1,633

COHO ADULT
1

SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
47	13,258	2,942	213,229	223	5

TABLE 86

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ICE HARBOR PROJECT
SEPTEMBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Sep 1			56	19	0	2	0	363	64		3	0	24.7	15.2	6.2	70.0
Sep 2			111	27	2	5	0	420	79		3	0	15.9	0.2	6.4	70.0
Sep 3			108	45	0	1	0	682	130		1	0	13.6	0.0	6.4	70.0
Sep 4			145	77	1	0	0	791	167		2	0	12.4	0.0	6.4	70.0
Sep 5			182	48	0	0	0	750	147		0	0	19.1	0.0	6.4	68.0
Sep 6			208	37	2	0	0	644	120		4	1	27.0	0.0	6.4	68.0
Sep 7			366	95	1	0	0	1,263	243		1	0	25.6	0.0	6.4	68.0
Sep 8			350	123	10	0	0	1,595	358		2	0	26.5	0.0	6.4	68.0
Sep 9			406	205	19	0	0	2,356	577		4	0	20.8	0.0	6.4	68.0
Sep 10			368	144	5	0	0	2,321	679		6	0	19.8	0.0	6.4	68.0
Sep 11			363	162	5	0	0	1,890	456		2	0	24.4	0.0	6.4	68.0
Sep 12			517	346	22	2	0	3,565	790		5	0	24.1	0.0	6.4	68.0
Sep 13			505	262	11	1	0	3,487	782		1	0	26.1	0.0	6.9	68.0
Sep 14			432	195	14	1	0	3,009	716		4	0	17.8	0.0	6.4	68.0
Sep 15			249	92	6	2	0	2,195	395		1	0	14.4	0.0	6.4	68.0
Sep 16			197	96	7	0	0	1,774	321		1	0	14.0	0.0	6.4	67.0
Sep 17			256	106	5	1	0	1,768	313		1	0	15.7	0.0	6.8	67.0
Sep 18			221	71	7	-1	0	912	156		1	0	16.4	0.0	6.9	67.0
Sep 19			288	172	22	1	0	2,326	489		1	0	16.7	0.0	6.4	67.0
Sep 20			269	147	8	0	0	2,370	487		0	0	20.1	0.0	6.4	67.0
Sep 21			247	183	33	1	0	3,442	714		1	0	23.2	0.0	6.4	67.0
Sep 22			164	137	21	9	0	3,243	733		0	0	26.3	0.0	6.4	66.0
Sep 23			249	204	35	13	0	3,058	667		0	0	36.2	0.0	6.9	66.0
Sep 24			160	102	17	5	0	1,879	396		4	0	17.2	0.0	6.4	66.0
Sep 25			181	62	31	6	0	1,950	378		0	0	13.9	0.0	6.4	65.0
Sep 26			180	191	15	0	0	618	418		0	1	20.2	0.0	6.4	65.0
Sep 27			249	131	19	2	0	3,527	702		0	0	19.9	0.0	6.4	65.0
Sep 28			237	198	24	5	0	6,059	1,292		2	0	28.6	0.0	6.9	64.0
Sep 29			116	321	23	1	0	4,060	911		0	0	12.3	0.0	6.4	64.0
Sep 30			147	451	12	0	0	5,239	1,129		1	0	16.3	0.0	6.4	64.0
TOTAL			7,527	4,449	377	57	0	67,556	14,809		51	2				

AVG.			251	148	13	2		2,252	494		2	0	20.3	0.5		
------	--	--	-----	-----	----	---	--	-------	-----	--	---	---	------	-----	--	--

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	25,434	875
SUMMER	8,540	545
FALL	8,623	4,662
TOTAL	42,597	6,082

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
378	57	47	80,814	17,751	213,229	274	7

TABLE 87

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ICE HARBOR PROJECT
OCTOBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Oct 1			162	403	25	1	0	4,646	1,017		0	0	16.9	0.0	6.4	64.0
Oct 2			96	246	14	1	1	2,906	618		1	0	13.6	0.0	6.4	64.0
Oct 3			233	259	18	2	0	3,965	905		0	0	20.1	0.0	6.4	64.0
Oct 4			232	181	39	4	0	3,047	673		0	0	22.4	0.0	6.4	64.0
Oct 5			108	270	48	4	0	2,960	560		0	0	23.7	0.0	6.4	64.0
Oct 6			77	127	7	1	0	1,243	246		0	0	20.9	0.0	6.4	64.0
Oct 7			55	59	17	0	0	1,347	254		0	1	23.0	0.0	6.4	63.0
Oct 8			50	41	10	0	0	975	184		0	0	24.6	0.0	6.4	63.0
Oct 9			48	66	13	2	0	1,041	179		0	0	16.9	0.0	6.4	63.0
Oct 10			45	76	6	0	0	1,537	351		1	0	25.2	0.0	6.4	62.0
Oct 11			50	62	8	0	0	1,598	350		0	0	20.4	0.0	6.4	62.0
Oct 12			44	51	14	0	0	1,682	416		0	0	25.8	0.0	6.4	62.0
Oct 13			40	22	12	0	0	1,189	300		0	0	20.1	0.0	6.4	62.0
Oct 14			44	31	29	1	0	1,409	318		0	0	23.7	0.0	6.4	62.0
Oct 15			50	24	12	-2	0	1,174	277		0	0	16.0	0.0	6.4	62.0
Oct 16			23	23	10	1	0	763	190		0	0	10.1	0.0	6.4	62.0
Oct 17			22	38	14	0	0	456	96		0	0	20.4	0.0	6.4	60.0
Oct 18			28	34	7	2	0	976	230		1	0	14.5	0.0	6.4	60.0
Oct 19			21	24	11	0	0	936	201		0	0	13.5	0.0	6.4	60.0
Oct 20			42	18	13	0	0	914	198		0	0	16.4	0.0	6.4	60.0
Oct 21			34	26	31	0	0	910	239		0	1	14.4	0.0	6.4	60.0
Oct 22			27	26	20	1	0	1,055	270		0	0	25.8	0.0	6.4	60.0
Oct 23			37	19	27	0	0	1,405	342		0	0	15.4	0.0	6.4	60.0
Oct 24			11	11	23	0	0	939	236		0	0	16.6	0.0	6.4	60.0
Oct 25			28	7	20	-1	0	896	256		-1	0	16.8	0.0	6.4	60.0
Oct 26			6	7	27	0	0	765	197		0	0	18.2	0.0	6.4	60.0
Oct 27			18	10	19	0	0	785	173		1	0	12.2	0.0	6.4	60.0
Oct 28			4	0	10	0	0	428	105		0	0	17.9	0.0	6.4	60.0
Oct 29			4	3	7	0	0	404	79		0	0	19.1	0.0	6.4	60.0
Oct 30			2	1	4	0	0	168	26		0	0	12.8	0.0	6.4	60.0
Oct 31			8	8	4	0	0	298	85		0	0	20.6	0.0	6.4	58.0
TOTAL			1,649	2,173	519	17	1	42,817	9,571		3	2	18.6	0.0		
AVG.			53	70	17	1	0	1,381	309		0	0				

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	25,434	875
SUMMER	8,540	545
FALL	10,272	6,835
TOTAL	44,246	8,255

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
897	74	48	123,631	27,322	213,229	277	9

Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. South shore ladder was counted by direct observation while the north shore ladder was by closed circuit TV.

TABLE 88

DISCHARGE AND WATER QUALITY DATA
ICE HARBOR PROJECT - 2006

NOVEMBER					DECEMBER				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY		DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F				SECCHI	DEG F
Nov 1	31.7	0.0	6.4	58.0	Dec 1	18.0	0.0	6.4	49.0
Nov 2	12.5	0.0	6.4	57.0	Dec 2	25.2	0.0	6.4	47.0
Nov 3	10.0	0.0	6.4	56.0	Dec 3	24.6	0.0	6.4	47.0
Nov 4	11.3	0.0	6.4	56.0	Dec 4	21.3	0.0	6.4	47.0
Nov 5	12.6	0.0	6.4	56.0	Dec 5	17.6	0.0	6.4	47.0
Nov 6	18.0	0.0	6.4	56.0	Dec 6	15.6	0.0	6.4	44.0
Nov 7	31.0	0.0	6.4	56.0	Dec 7	19.0	0.0	6.4	44.0
Nov 8	60.1	0.0	6.4	56.0	Dec 8	19.9	0.0	6.4	44.0
Nov 9	51.2	0.0	6.9	55.0	Dec 9	22.3	0.0	6.4	44.0
Nov 10	38.2	0.0	5.7	55.0	Dec 10	21.0	0.0	6.4	44.0
Nov 11	26.7	0.0	5.7	55.0	Dec 11	24.0	0.0	6.4	43.0
Nov 12	34.5	0.0	5.7	54.0	Dec 12	19.5	0.0	6.4	43.0
Nov 13	29.8	0.0	5.7	53.0	Dec 13	21.6	0.0	6.4	43.0
Nov 14	21.1	0.0	5.7	53.0	Dec 14	40.7	0.0	6.4	43.0
Nov 15	21.6	0.0	5.7	52.0	Dec 15	30.2	0.0	6.4	43.0
Nov 16	21.6	0.0	5.7	52.0	Dec 16	45.4	0.0	6.4	43.0
Nov 17	30.1	0.0	5.7	52.0	Dec 17	37.6	0.0	6.4	43.0
Nov 18	25.7	0.0	5.7	52.0	Dec 18	31.1	0.0	6.4	42.0
Nov 19	18.6	0.0	5.7	52.0	Dec 19	28.3	0.0	6.4	42.0
Nov 20	24.0	0.0	5.7	51.0	Dec 20	24.0	0.0	6.8	42.0
Nov 21	25.5	0.0	5.7	51.0	Dec 21	26.1	0.0	6.8	41.0
Nov 22	30.3	0.0	5.7	50.0	Dec 22	27.4	0.0	6.8	40.0
Nov 23	22.4	0.0	5.7	50.0	Dec 23	27.4	0.0	6.8	40.0
Nov 24	27.4	0.0	5.7	49.0	Dec 24	32.7	0.0	6.8	40.0
Nov 25	23.2	0.0	5.7	49.0	Dec 25	27.0	0.0	6.8	40.0
Nov 26	22.2	0.0	5.7	49.0	Dec 26	36.2	0.0	6.8	40.0
Nov 27	23.1	0.0	5.7	49.0	Dec 27	17.0	0.0	6.8	40.0
Nov 28	28.4	0.0	5.7	49.0	Dec 28	26.6	0.0	6.8	40.0
Nov 29	19.8	0.0	5.7	49.0	Dec 29	37.4	0.0	6.8	40.0
Nov 30	23.8	0.0	5.7	49.0	Dec 30	38.6	0.0	6.8	40.0
					Dec 31	30.7	0.0	6.8	40.0
AVG.	25.7	0.0	5.9	52.5	AVG.	27.2	0.0	6.6	42.5

TABLE 89

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
ICE HARBOR DAM
1962 - 2006**

YEAR	CHINOOK*	STEELHEAD	SOCKEYE	COHO*	TOTALS*
1962	94,301	115,796	38	3,207	213,342
1963	61,190	74,539	1,118	1,933	138,780
1964	60,097	58,860	1,276	2,071	122,304
1965	39,233	62,873	317	320	102,743
1966	75,882	65,798	278	878	142,836
1967	84,930	44,205	717	3,770	133,622
1968	98,681	82,383	1,165	6,227	188,456
1969	100,514	63,889	745	5,316	170,464
1970	77,698	53,870	797	3,636	136,001
1971	70,248	67,029	532	2,969	140,778
1972	82,632	63,593	363	2,522	149,110
1973	81,821	38,311	233	2,443	122,808
1974	32,444	12,528	204	1,334	46,510
1975	31,686	16,218	243	1,559	49,706
1976	36,556	23,885	771	1,991	63,203
1977	56,514	54,820	582	1,561	113,477
1978	61,352	27,142	86	652	89,232
1979	13,929	23,117	30	398	37,474
1980	14,717	50,221	36	58	65,032
1981	22,092	41,290	142	82	63,606
1982	22,646	73,405	174	348	96,573
1983	20,259	88,475	216	465	109,415
1984	17,757	94,030	105	22	111,914
1985	47,981	128,481	24	10	176,496
1986	52,615	144,292	20	0	196,927
1987	47,477	74,491	13	0	121,981
1988	48,066	99,714	22	0	147,802
1989	27,234	151,101	4	0	178,339
1990	31,841	54,758	1	1	86,601
1991	23,175	123,762	9	1	146,947
1992	36,021	160,614	33	0	196,668
1993	34,991	73,107	17	0	108,115
1994	7,577	51,704	0	1	59,282
1995	7,990	92,026	5	4	100,025
1996	16,419	100,805	1	0	117,225
1997	55,412	103,830	15	128	159,385
1998	26,117	85,122	3	15	111,257
1999	23,331	84,163	8	144	107,646
2000	72,154	126,424	215	1,224	200,017
2001	215,697	283,694	38	1,595	501,024
2002	137,507	211,762	61	289	349,619
2003	143,197	186,474	37	1,431	331,139
2004	130,218	171,380	91	3,519	305,208
2005	58,361	156,920	18	1,621	216,920
2006	52,501	124,812	48	971	178,332
Totals	2,553,061	4,085,713	10,851	54,716	6,704,341
10-Year Average	91,450	153,458	53	1,094	246,055

*Jacks included

These counts include the extended season videotaped counts that were made between 0600 and 1600 hours in November and December for the count seasons, 1996-2002.

TABLE 90

MONTHLY COUNT OF CHINOOK SALMON
ICE HARBOR DAM
1962 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	SPRING	SUMMER	FALL
														1 APR- 11 JUN	12 JUN- 11 AUG	12 AUG- 31 OCT
1962				2,579	28,951	23,250	8,315	3,547	20,578	7,081			94,301	33,613	30,639	30,049
1963				3,434	21,790	14,001	7,591	1,415	9,342	2,918	677	22	61,190	26,778	20,875	13,537
1964		1	2	4,048	19,611	5,409	18,832	2,161	8,159	1,701	156	17	60,097	24,304	24,696	11,097
1965			4	1,677	9,649	5,072	10,209	803	9,318	2,152	349		39,233	12,178	14,701	12,354
1966				23,382	19,294	10,611	7,166	1,933	10,756	2,740			75,882	43,881	16,983	15,018
1967				15,973	18,137	9,020	22,218	820	11,947	6,815			84,930	35,593	30,315	19,022
1968				1,595	41,398	12,119	17,751	3,433	16,588	5,275	493	29	98,681	44,773	29,531	24,377
1969			195	697	43,181	24,918	12,861	2,369	12,027	3,555	708	3	100,514	52,090	30,917	17,507
1970				12,167	33,881	12,338	8,185	1,747	7,702	1,456	219	3	77,698	47,931	19,382	10,385
1971				1,104	25,089	19,265	13,364	873	8,960	1,593			70,248	32,638	26,606	11,004
1972				14,535	34,734	7,544	15,177	1,869	6,089	2,684			82,632	50,350	22,846	9,436
1973				34,277	23,627	10,925	4,254	840	6,657	1,241			81,821	60,639	12,829	8,353
1974				842	16,670	5,315	6,494	483	2,066	574			32,444	19,361	10,269	2,814
1975				1,314	17,796	5,817	3,972	506	1,875	406			31,686	21,401	7,727	2,558
1976				3,146	19,269	8,544	3,921	349	1,123	204			36,556	25,056	10,026	1,474
1977				24,003	17,626	9,328	3,606	297	1,370	284			56,514	44,421	10,337	1,756
1978				14,891	29,333	9,999	4,888	892	1,064	269	16		61,352	49,303	10,440	1,609
1979				1,731	6,528	2,234	1,216	379	1,489	333	19		13,929	9,247	2,608	2,074
1980				1,678	7,321	2,285	1,569	301	1,034	504	25		14,717	9,668	3,305	1,744
1981			1	6,744	8,542	2,884	1,751	161	1,530	470	9		22,092	16,167	3,814	2,111
1982			3	656	11,543	4,522	2,347	283	2,601	691			22,646	14,600	4,527	3,519
1983				1,925	9,418	4,132	1,921	316	1,945	602			20,259	12,602	4,922	2,735
1984				823	7,292	5,353	1,943	223	1,762	361			17,757	9,183	6,307	2,267
1985				12,245	18,334	6,885	1,294	546	5,414	3,263			47,981	33,527	5,290	9,164
1986			1	14,764	22,025	8,299	1,672	169	3,664	2,021			52,615	39,087	7,745	5,783
1987				11,141	18,821	6,550	2,437	329	6,089	2,110			47,477	32,083	6,982	8,412
1988				14,274	17,196	8,609	1,904	702	3,621	1,760			48,066	34,394	7,790	5,882
1989				3,307	11,724	4,946	1,143	776	3,917	1,421			27,234	17,029	4,215	5,990
1990				7,578	12,166	5,353	1,337	320	3,315	1,773			31,842	20,730	5,794	5,317
1991				1,639	7,953	5,367	2,101	155	4,053	1,907			23,175	11,288	5,861	6,026
1992				11,462	12,001	5,791	1,189	228	3,716	1,634			36,021	26,114	4,377	5,530
1993				5,776	15,879	8,705	1,405	338	2,087	801			34,991	24,935	6,919	3,137
1994				717	2,268	1,183	289	170	1,693	1,257			7,577	3,472	1,003	3,102
1995				256	1,253	928	315	387	2,920	1,931			7,990	1,873	915	5,202
1996				97	6,254	3,954	1,367	792	2,983	928	44	0	16,419	7,671	4,086	4,662
1997				3,442	30,332	14,678	2,224	411	2,502	1,680	143	0	55,412	41,473	9,318	4,621
1998				3,850	7,285	6,001	1,165	421	4,324	3,006	64	1	26,117	12,564	5,777	7,776
1999				260	5,717	5,659	1,461	917	6,283	2,943	89	2	23,331	8,008	5,211	10,112
2000				13,749	29,916	9,877	2,076	1,928	9,763	4,738	105	2	72,154	48,278	7,420	16,456
2001				104,883	55,788	26,709	4,268	1,327	18,315	4,262	140	5	215,697	174,199	17,667	23,831
2002				5,016	71,511	33,555	5,750	2,752	15,874	2,946	100	3	137,507	87,033	29,044	21,327
2003			132	42,343	34,581	28,636	5,732	1,286	23,445	7,174			143,329	86,190	25,344	31,663
2004			5	36,168	37,934	19,580	4,094	908	26,998	4,531			130,218	81,752	16,185	32,276
2005				1,763	20,798	14,089	2,323	1,389	14,672	3,327			58,361	1,267	990	4,561
2006				29	21,660	11,042	2,438	1,534	11,976	3,822			52,501	26,309	9,085	17,107
TOTAL		1	343	467,980	932,076	451,281	227,535	43,785	323,606	103,144	3,356	87	2,553,194	1,515,053	541,620	444,737
10-Year Average				21,150	31,552	16,983	3,153	1,287	13,415	3,843			91,463	56,707	12,604	16,973

*Jacks included

The 1996 through 2002 count seasons were extended to include video counts made between 0600 and 1600 hours daily from November 1 through December 15.

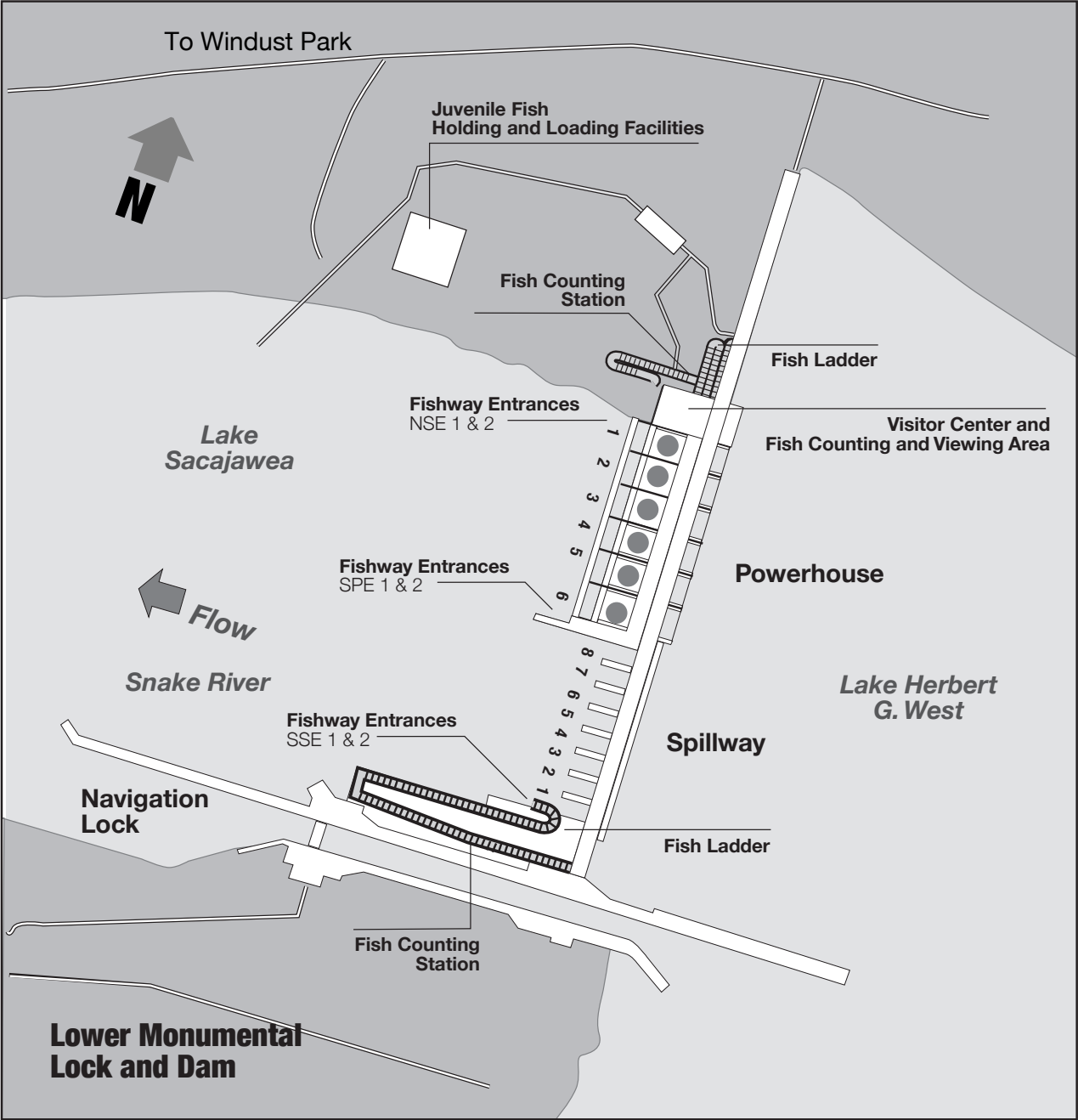
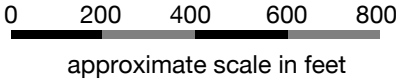
TABLE 91

MONTHLY COUNT OF STEELHEAD
ICE HARBOR DAM
1962 -2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
1962				8,758	716	261	2,384	7,450	75,924	20,303			115,796
1963				969	895	163	2,157	6,514	35,382	24,070	4,042	347	74,539
1964	105	136	796	2,269	807	153	1,596	9,462	34,435	7,357	1,347	397	58,860
1965	31	110	673	1,976	488	439	3,739	4,497	33,595	13,522	3,803		62,873
1966				2,161	810	413	1,383	2,517	40,185	18,329			65,798
1967				1,266	894	345	972	953	18,914	20,861			44,205
1968				2,558	2,933	357	952	8,107	45,552	17,270	3,692	962	82,383
1969	132	41	807	4,971	2,430	321	3,348	5,715	27,219	14,953	3,874	78	63,889
1970				1,597	1,067	389	2,620	7,611	30,101	8,290	1,891	304	53,870
1971			458	1,938	843	215	3,064	2,996	42,481	15,034			67,029
1972				1,853	553	152	3,062	6,503	34,134	17,336			63,593
1973				1,570	827	254	1,785	2,699	22,021	9,155			38,311
1974				972	359	104	1,482	2,202	3,661	3,748			12,528
1975				564	409	76	1,223	3,878	6,816	3,252			16,218
1976				508	142	165	1,714	5,138	11,141	5,077			23,885
1977				685	220	308	3,654	3,017	30,610	16,326			54,820
1978				908	88	43	1,308	2,907	15,094	6,092	702		27,142
1979			454	538	114	60	1,995	1,778	6,136	9,717	2,325		23,117
1980			1,420	2,796	563	39	1,303	4,333	22,064	15,424	2,279		50,221
1981			797	1,106	433	137	2,305	1,431	16,563	16,669	1,849		41,290
1982			1,471	1,931	918	45	2,564	8,895	30,574	27,007			73,405
1983				1,001	150	36	3,773	9,875	48,519	25,121			88,475
1984				2,218	488	49	4,103	4,554	50,638	31,980			94,030
1985			1,892	7,353	439	306	3,070	14,468	75,378	25,575			128,481
1986			2,561	1,642	187	174	6,600	8,679	63,598	60,851			144,292
1987				2,136	235	262	3,292	4,972	28,491	35,103			74,491
1988				4,865	580	671	3,251	5,955	46,838	37,554			99,714
1989				4,326	355	487	7,399	8,916	80,799	48,819			151,101
1990				2,793	148	252	2,631	2,000	18,728	28,206			54,758
1991				2,297	256	166	3,254	1,275	55,447	61,067			123,762
1992				1,433	232	742	4,190	8,137	89,281	56,599			160,614
1993				7,418	287	745	5,896	8,086	21,614	29,061			73,107
1994				3,040	126	394	3,295	3,162	16,702	24,985			51,704
1995				828	84	193	4,699	14,521	39,494	32,207			92,026
1996				743	81	229	3,427	15,391	48,722	28,657	2,303	1,252	100,805
1997				1,187	216	280	4,323	11,522	40,238	37,036	8,484	544	103,830
1998				1,719	74	259	3,226	3,114	25,408	43,844	5,400	2,078	85,122
1999				713	93	246	3,784	16,120	40,424	18,887	2,809	1,087	84,163
2000				805	91	870	7,202	11,684	65,713	33,899	5,510	650	126,424
2001				1,322	139	3,682	17,607	27,925	136,208	68,837	22,449	5,525	283,694
2002				4,507	134	943	12,760	30,321	87,357	66,151	8,770	819	211,762
2003			5,201	1,548	74	1,128	11,558	12,267	109,101	50,798			191,675
2004			2,483	1,690	118	1,467	9,875	6,593	111,826	37,328			171,380
2005			1,379	1,205	124	1,364	4,619	11,902	76,394	59,933			156,920
2006			1,181	2,628	78	490	2,797	7,265	67,556	42,817			124,812
Totals	268	287	21,573	101,311	21,298	19,874	181,241	347,307	2,027,076	1,275,107	81,529	14,043	4,090,914
10-Year Average				1,732	114	1,073	7,775	13,871	76,023	45,953			153,978

The 1996 through 2002 count seasons were extended to include video counts made between 0600 and 1600 hours daily, November 1 to December 15.

Plate 7 Lower Monumental Lock and Dam



LOWER MONUMENTAL DAM

FISH COUNTING SCHEDULE

1 Apr – 31 Oct Visual counting daily 0400 – 2000 hours PST

FISH LADDER OPERATING SCHEDULE

North Ladder

1 Jan – 2 Jan	Ladder in service.
3 Jan – 25 Jan	Ladder dewatered for annual maintenance.
26 Jan – 31 Dec	Ladder in service.

South Ladder

1 Jan – 29 Jan	Ladder in service.
30 Jan – 8 Feb	Ladder dewatered for annual maintenance.
9 Feb – 31 Dec	Ladder in service.

FISHWAY ACTIVITIES

Water temperatures were recorded hourly from fish ladder exit pools and the downstream end of the primary dewaterer. Hourly readings were taken from June 16 to Sept 15. The purpose is to determine if summer spill has any effects on exit pool temperatures.

Operated with two fish pumps for part of the adult fish passage season, with the third being placed in standby mode. This reduced the wear and tear and allowed maintenance to be performed. Ladder criteria was met for the most part of the season with two pumps in operation.

The picketed leads in the south shore fish count station were replaced with stainless steel leads during the operating season.

The juvenile fish facility was operated for juvenile fish transport/bypass and adult fallbacks from 8 March to 18 December.

TABLE 92
 MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER LOWER MONUMENTAL DAM
 2006

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				10	17,659	12,916	3,541	1,816	12,534	6,006			54,482
STEELHEAD				2,756	98	454	3,392	7,778	63,849	57,239			135,566
SOCKEYE						4	8	4	1				17
COHO*								1	420	760			1,181
PINK								1					1
TOTAL				2,766	17,757	13,374	6,941	9,600	76,804	64,005			191,247
SHAD													0
LAMPREY					5	21	66	55	22	6			175

*Jacks included
 No Shad counts in 2006

TABLE 93

DISCHARGE AND WATER QUALITY DATA
LOWER MONUMENTAL PROJECT 2006

JANUARY				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY	
			SECCHI	*DEG F
Jan 1	65.0	0.0		
Jan 2	76.8	0.0		
Jan 3	61.8	0.0		
Jan 4	55.6	0.0		
Jan 5	39.0	0.0		
Jan 6	44.6	0.0		
Jan 7	43.9	0.0		
Jan 8	28.0	0.0		
Jan 9	34.1	0.0		
Jan 10	40.9	0.0		
Jan 11	56.5	0.0		
Jan 12	51.2	0.0		
Jan 13	48.1	0.0		
Jan 14	51.1	0.0		
Jan 15	41.3	0.0		
Jan 16	48.6	0.0		
Jan 17	31.8	0.0		
Jan 18	45.3	0.0		
Jan 19	38.8	0.0		
Jan 20	43.5	0.0		
Jan 21	39.2	0.0		
Jan 22	39.2	0.0		
Jan 23	36.6	0.0		
Jan 24	43.2	0.0		
Jan 25	39.5	0.0		
Jan 26	38.4	0.0		
Jan 27	42.2	0.0		
Jan 28	32.7	0.0		
Jan 29	35.4	0.0		
Jan 30	38.4	0.0		
Jan 31	46.7	0.0		

AVG 44.4 0.0

FEBRUARY				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY	
			SECCHI	*DEG F
Feb 1	43.9	0.0		
Feb 2	52.2	0.0		
Feb 3	50.9	0.0		
Feb 4	55.4	0.0		
Feb 5	61.6	0.0		
Feb 6	58.3	0.0		
Feb 7	54.0	0.0		
Feb 8	42.4	0.0		
Feb 9	47.1	0.0		
Feb 10	53.9	0.0		
Feb 11	49.9	0.0		
Feb 12	48.2	0.0		
Feb 13	54.2	0.0		
Feb 14	46.7	0.0		
Feb 15	45.0	0.0		
Feb 16	40.1	0.0		
Feb 17	52.5	0.0		
Feb 18	34.2	0.0		
Feb 19	33.3	0.0		
Feb 20	48.0	0.0		
Feb 21	45.6	0.0		
Feb 22	39.1	0.0		
Feb 23	45.8	0.0		
Feb 24	43.3	0.0		
Feb 25	27.1	0.0		
Feb 26	32.8	0.0		
Feb 27	39.6	0.0		
Feb 28	43.7	0.0		

AVG 46.0 0.0

MARCH				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY	
			SECCHI	*DEG F
Mar 1	47.5	0.0		
Mar 2	49.5	0.0		
Mar 3	39.2	0.0		
Mar 4	50.1	0.0		
Mar 5	46.0	0.0		
Mar 6	60.6	0.0		
Mar 7	49.0	0.0		
Mar 8	61.6	0.0		
Mar 9	50.8	0.0		
Mar 10	55.0	0.0		
Mar 11	51.3	0.0		
Mar 12	50.8	0.0		
Mar 13	48.6	0.0		
Mar 14	56.0	0.0		
Mar 15	76.2	0.0		
Mar 16	45.2	0.0		
Mar 17	31.7	0.0		
Mar 18	61.2	0.0		
Mar 19	42.8	0.0		
Mar 20	40.2	0.0		
Mar 21	71.6	0.0		
Mar 22	26.2	0.9		
Mar 23	44.0	0.0		
Mar 24	52.7	0.0		
Mar 25	52.0	0.0		
Mar 26	51.4	0.0		
Mar 27	72.3	0.0		
Mar 28	68.0	0.0		
Mar 29	69.5	0.0		
Mar 30	71.4	0.0		
Mar 31	69.5	0.0		

AVG 53.6 0.0

*Data Unavailable

TABLE 94

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER MONUMENTAL PROJECT
APRIL 2006

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Apr 1	0							103	31			71.6	0.0	3.0	45.0
Apr 2	0							174	61			75.4	0.0	3.0	45.0
Apr 3	0							114	39			88.5	40.3	3.0	45.0
Apr 4	0							98	43			80.9	40.3	3.0	46.0
Apr 5	0							123	40			97.6	40.6	3.0	45.0
Apr 6	0							159	56			119.5	40.7	3.0	45.0
Apr 7	0							156	68			141.4	40.4	3.0	45.0
Apr 8	0							168	66			125.0	40.2	3.0	46.0
Apr 9	0							215	83			133.0	40.1	3.0	46.0
Apr 10	0							158	58			131.6	40.0	3.0	46.0
Apr 11	0							162	61			127.4	38.0	2.0	46.0
Apr 12	0							123	43			128.5	32.1	1.5	47.0
Apr 13	0							132	50			126.1	27.9	1.5	48.0
Apr 14	0							100	38			132.4	26.6	1.5	48.0
Apr 15	0							123	46			140.6	27.7	1.5	49.0
Apr 16	0							60	28			155.4	41.1	1.5	49.0
Apr 17	0							86	36			153.5	39.3	1.5	49.0
Apr 18	0							54	23			146.3	33.3	1.5	49.0
Apr 19	0							33	8			139.6	29.8	1.0	49.0
Apr 20	0							24	6			138.3	24.8	1.0	49.0
Apr 21	0							46	15			116.4	24.9	1.0	49.0
Apr 22	0							40	15			118.0	25.0	1.0	49.0
Apr 23	0							65	28			117.0	21.9	1.5	49.0
Apr 24	1							42	19			131.4	19.3	1.5	49.0
Apr 25	1							54	30			133.9	21.3	1.5	49.0
Apr 26	0							37	12			130.8	23.6	1.5	50.0
Apr 27	0							44	31			125.2	21.5	1.5	51.0
Apr 28	2							26	14			125.3	21.5	1.5	51.0
Apr 29	2							24	13			124.1	22.2	1.5	52.0
Apr 30	4							13	3			138.2	28.1	1.5	52.0
TOTAL	10							2,756	1,064						
AVG.	0							92	35			123.8	29.1	2.0	47.9

Note: Official Spring Chinook run started April 1.

TABLE 95

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER MONUMENTAL PROJECT
MAY 2006

FISH COUNTS											RIVER CONDITIONS				
DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
May 1	5			0				9	6		0	154.8	39.0	1.5	52.0
May 2	7			0				9	3		0	146.4	32.6	1.0	52.0
May 3	9			0				7	4		0	131.4	22.8	1.0	53.0
May 4	13			0				12	7		0	127.4	23.0	1.0	53.0
May 5	45			0				7	5		1	118.1	22.1	1.0	53.0
May 6	47			0				10	8		0	118.2	21.0	1.0	53.0
May 7	72			0				7	2		0	122.6	20.6	1.0	53.0
May 8	104			0				3	0		0	122.6	22.3	2.0	53.0
May 9	107			1				3	0		0	115.0	25.1	2.0	53.0
May 10	153			5				6	2		0	108.9	27.8	2.0	53.0
May 11	492			10				2	1		0	97.6	26.0	2.0	54.0
May 12	673			8				5	2		0	102.5	23.4	2.0	54.0
May 13	882			6				4	1		0	96.9	22.6	2.0	54.0
May 14	1,342			14				1	0		0	105.5	21.5	2.0	54.0
May 15	1,469			17				1	1		0	118.2	20.2	2.0	54.0
May 16	1,132			15				0	1		0	130.0	25.1	2.0	54.0
May 17	1,391			16				3	1		0	149.7	38.2	2.0	55.0
May 18	1,625			26				3	2		0	169.4	54.6	2.0	57.0
May 19	1,149			17				2	1		0	176.9	60.8	2.0	58.0
May 20	1,117			24				1	0		0	193.3	76.5	2.0	57.0
May 21	728			13				0	0		2	200.9	86.2	1.0	56.0
May 22	318			11				0	0		1	180.6	66.4	1.0	56.0
May 23	141			2				1	0		1	180.8	68.9	1.0	56.0
May 24	108			1				0	0		0	173.7	60.6	1.0	55.0
May 25	121			3				0	0		0	166.0	52.3	1.0	55.0
May 26	302			5				0	0		0	158.5	44.3	1.0	55.0
May 27	355			11				0	0		0	142.0	43.2	1.0	55.0
May 28	586			13				2	1		0	128.5	33.7	1.0	55.0
May 29	1,094			37				0	0		0	124.1	31.5	1.0	55.0
May 30	1,011			32				0	0		0	116.3	36.8	2.0	55.0
May 31	741			33				0	0		0	104.6	19.6	2.0	56.0
TOTAL	17,339			320				98	48		5				
AVG.	559			10				3	2		0	138.1	37.7	1.5	54.5
RUN YEAR		CHINOOK ADULT	CHINOOK JACK					STEELHEAD	WILD STEELHEAD		LAMPREY				
TOTALS TO DATE		17,349	320					2,854	1,112		5				

TABLE 96

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER MONUMENTAL PROJECT
JUNE 2006

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jun 1	999			24			0	10	0		2	98.9	19.9	2.0	56.0
Jun 2	718			35			0	4	1		0	100.6	19.7	2.0	56.0
Jun 3	538			37			0	0	0		1	98.7	19.9	2.0	56.0
Jun 4	503			10			0	1	0		0	113.0	19.5	2.0	56.0
Jun 5	379			17			0	1	0		1	116.2	22.0	2.0	58.0
Jun 6	312			8			0	1	0		0	115.7	38.4	2.0	59.0
Jun 7	269			9			0	4	0		5	116.9	40.1	2.0	60.0
Jun 8	312			15			0	1	1		1	122.8	21.9	2.0	60.0
Jun 9	466			21			1	2	0		1	126.3	37.7	2.0	60.0
Jun 10	374			11			0	4	0		0	125.2	45.8	2.0	60.0
Jun 11	380			15			0	6	0		0	119.4	76.4	2.0	60.0
Jun 12	435			10			0	15	5		0	105.4	33.6	2.0	60.0
Jun 13	555			16			0	12	1		0	101.2	19.1	2.5	60.0
Jun 14		515		20			0	8	2		1	99.3	29.2	2.5	60.0
Jun 15		431		11			0	7	2		1	114.6	37.2	2.5	60.0
Jun 16		461		11			0	9	1		0	101.1	17.6	2.5	59.0
Jun 17		461		10			0	8	0		0	91.9	16.8	2.5	60.0
Jun 18		480		15			0	5	0		0	91.1	18.8	3.0	60.0
Jun 19		468		11			0	6	0		0	78.1	22.6	3.0	60.0
Jun 20		338		13			0	8	1		1	66.6	23.5	3.0	60.0
Jun 21		288		5			1	6	1		0	67.2	17.1	3.0	60.0
Jun 22		319		18			0	8	0		1	65.7	17.3	3.0	60.0
Jun 23		420		14			0	14	1		2	59.4	16.9	3.0	61.0
Jun 24		333		13			0	41	2		0	59.8	16.7	3.0	61.0
Jun 25		254		11			0	30	6		0	57.0	17.0	3.0	61.0
Jun 26		291		15			0	37	1		0	59.1	16.7	3.0	61.0
Jun 27		336		6			1	47	9		1	55.7	16.0	3.0	63.0
Jun 28		261		13			1	53	10		2	51.5	14.9	3.0	65.0
Jun 29		221		13			0	59	10		1	55.8	14.9	3.0	65.0
Jun 30		351		21			0	47	8		0	52.3	14.3	3.0	66.0
TOTAL	6,240	6,228		448			4	454	62		21				
AVG.	480	366		15			0	15	2		1	89.6	24.7	2.5	60.1

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	23,589	548
SUMMER	6,228	220
TOTAL	29,817	768

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
4	3,308	1,174	26

TABLE 97

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER MONUMENTAL PROJECT
JULY 2006

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	RIVER CONDITIONS				
	SPRING	SUMMER	FALL									DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F	
Jul 1		334		10			1	90	14		1	41.5	14.3	3.0	66.0	
Jul 2		219		4			1	86	28		2	45.8	14.8	3.5	66.5	
Jul 3		243		4			0	116	18		0	47.0	15.2	3.0	66.0	
Jul 4		228		8			0	102	10		2	42.6	15.3	3.0	66.0	
Jul 5		161		18			1	71	10		1	47.8	16.8	3.0	68.0	
Jul 6		220		10			1	148	21		1	44.4	16.0	3.0	68.0	
Jul 7		160		14			2	151	20		0	47.7	16.9	3.0	69.0	
Jul 8		115		7			0	102	12		1	45.2	16.6	3.0	69.0	
Jul 9		101		8			0	104	14		1	48.0	17.0	3.0	69.0	
Jul 10		159		10			0	145	28		1	46.3	16.8	3.5	69.0	
Jul 11		222		23			0	114	16		1	46.4	16.9	3.5	69.0	
Jul 12		100		23			0	127	32		2	46.7	16.7	3.8	70.0	
Jul 13		92		9			1	130	29		0	45.0	16.0	3.8	70.0	
Jul 14		64		7			1	103	22		0	40.3	16.1	3.8	70.0	
Jul 15		78		6			0	85	15		4	40.9	14.8	3.8	70.0	
Jul 16		43		6			0	87	8		1	36.9	16.6	3.8	70.0	
Jul 17		50		9			0	110	20		1	39.0	16.8	3.8	70.0	
Jul 18		46		8			0	134	19		3	40.6	16.6	3.8	69.0	
Jul 19		62		5			0	101	16		0	38.2	16.8	3.8	69.0	
Jul 20		74		3			0	79	18		1	36.2	16.8	3.8	69.0	
Jul 21		72		14			0	68	18		2	43.8	16.8	3.8	69.0	
Jul 22		37		9			0	84	13		0	37.9	16.6	4.0	69.0	
Jul 23		54		7			0	85	13		2	38.6	16.8	4.0	70.0	
Jul 24		70		16			0	95	19		2	39.5	16.5	4.0	70.0	
Jul 25		44		1			0	98	24		11	33.6	15.5	4.0	70.0	
Jul 26		44		2			0	127	31		4	31.3	13.5	4.2	70.0	
Jul 27		20		3			0	130	24		7	33.9	13.5	4.2	70.0	
Jul 28		33		7			0	129	26		8	28.2	15.0	4.2	70.0	
Jul 29		42		9			0	99	17		3	33.1	17.0	4.2	70.0	
Jul 30		53		3			0	124	17		2	30.7	16.4	4.2	70.0	
Jul 31		37		1			0	168	22		2	28.7	16.4	4.2	70.0	
TOTAL		3,277		264			8	3,392	594		66					
AVG.		106		9			0	109	19		2	40.2	16.1	3.7	69.0	
RUN YEAR																
TOTALS TO DATE		CHINOOK ADULT		CHINOOK JACK			SOCKEYE	STEELHEAD	WILD STEELHEAD		LAMPREY					
SPRING		23,589		548			12	6,700	1,768		92					
SUMMER		9,505		484												
TOTAL		33,094		1,032												

TABLE 98

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER MONUMENTAL PROJECT
AUGUST 2006

FISH COUNTS											RIVER CONDITIONS				
DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Aug 1		35		4	0		0	177	23	0	2	25.9	13.4	4.2	69.0
Aug 2		39		6	0		0	156	21	0	3	24.0	11.7	4.2	69.0
Aug 3		32		4	0		0	171	18	0	1	26.7	13.3	5.0	69.0
Aug 4		23		0	0		0	146	28	0	1	27.6	13.6	5.0	69.0
Aug 5		18		1	0		0	117	11	0	2	30.4	16.4	5.0	70.0
Aug 6		21		1	0		0	92	15	0	2	31.9	17.0	5.0	69.0
Aug 7		17		4	0		0	80	13	0	0	30.5	16.0	5.0	69.0
Aug 8		37		2	0		0	94	16	0	0	27.8	15.4	5.0	69.0
Aug 9		52		6	0		0	86	11	0	2	28.2	15.2	5.0	69.0
Aug 10		35		0	0		0	110	15	0	2	29.8	17.2	5.0	69.0
Aug 11		15		1	0		1	97	13	0	0	31.3	19.1	5.0	69.0
Aug 12		32		4	0		0	148	17	0	1	26.7	14.3	5.0	69.0
Aug 13		65		6	0		0	196	40	0	2	22.9	10.5	5.0	69.0
Aug 14			38	7	0		1	164	28	0	0	24.0	11.7	5.0	68.0
Aug 15			30	11	0		1	130	24	0	1	25.5	13.4	5.0	68.0
Aug 16			36	10	0		0	104	41	0	0	29.8	17.3	5.0	68.0
Aug 17			26	7	0		0	185	36	0	1	25.2	12.8	5.0	68.0
Aug 18			31	2	0		0	260	41	0	2	26.3	14.1	5.0	68.0
Aug 19			56	7	0		1	257	44	0	3	25.6	13.4	5.0	68.0
Aug 20			40	7	0		0	269	52	0	4	31.0	18.8	5.0	68.0
Aug 21			49	5	0		0	387	85	0	0	25.8	13.5	5.0	68.0
Aug 22			48	8	0		0	313	63	0	3	32.8	20.6	5.0	68.0
Aug 23			105	23	0		0	372	86	1	1	25.8	13.5	5.0	68.0
Aug 24			54	12	0		0	303	40	0	1	26.1	13.8	5.0	68.0
Aug 25			92	7	0		0	399	67	0	5	23.1	10.9	5.0	68.0
Aug 26			65	22	0		0	447	98	0	2	20.6	8.4	5.0	67.0
Aug 27			68	11	1		0	515	145	0	1	19.2	7.0	5.0	67.0
Aug 28			53	12	0		0	356	71	0	1	25.8	13.4	5.0	67.0
Aug 29			69	10	0		0	461	83	0	2	22.3	9.9	5.0	67.0
Aug 30			83	13	0		0	414	89	0	9	26.9	13.7	5.0	68.0
Aug 31			222	17	0		0	772	166	0	1	23.9	11.5	5.0	68.0
TOTAL		421	1,165	230	1		4	7,778	1,500	1	55				
AVG.		32	65	7	0		0	251	48	0	2	26.6	13.9	4.9	68.3

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	23,589	548
SUMMER	9,926	523
FALL	1,165	191
TOTAL	34,680	1,262

SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY
16	14,478	3,268	1	147

TABLE 99

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER MONUMENTAL PROJECT
SEPTEMBER 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Sep 1			141	40	0	0	0	1,134	237		2	22.3	0.1	4.5	67.0
Sep 2			156	29	0	0	0	693	144		2	16.1	0.0	4.5	67.0
Sep 3			142	23	0	0	0	469	100		0	13.0	0.0	4.5	67.0
Sep 4			118	34	0	0	0	336	57		3	22.4	0.0	4.5	67.0
Sep 5			139	38	0	0	0	325	40		0	27.3	0.0	4.5	66.0
Sep 6			78	59	0	0	1	496	96		0	26.9	0.4	4.5	66.0
Sep 7			306	145	1	0	0	1,026	205		0	27.2	0.0	4.5	66.0
Sep 8			358	47	0	0	0	765	125		1	20.0	0.0	4.5	66.0
Sep 9			403	87	4	0	0	1,178	222		2	20.5	0.0	4.8	66.0
Sep 10			499	135	0	0	0	2,301	428		1	24.8	0.0	4.8	66.0
Sep 11			411	72	0	0	0	1,722	354		1	24.3	0.0	4.8	66.0
Sep 12			381	139	2	0	0	2,190	437		2	27.0	0.0	4.8	66.0
Sep 13			472	221	10	1	0	2,548	499		1	20.8	0.0	4.8	66.0
Sep 14			521	216	10	0	0	3,480	679		1	15.5	0.0	4.8	66.0
Sep 15			373	169	6	0	0	2,834	597		1	14.3	0.0	4.8	66.0
Sep 16			373	201	22	3	0	3,721	714		0	16.4	0.0	4.8	66.0
Sep 17			221	183	33	2	0	4,137	792		1	17.0	0.0	4.8	66.0
Sep 18			184	137	1	0	0	1,777	380		0	17.9	0.0	4.5	66.0
Sep 19			222	145	12	1	0	2,101	455		0	20.4	0.0	4.5	65.0
Sep 20			265	173	3	0	0	2,052	426		1	23.3	0.0	4.5	64.0
Sep 21			354	191	26	1	0	3,244	610		0	26.9	0.0	4.5	64.0
Sep 22			282	166	27	1	0	2,958	578		0	36.2	0.0	4.5	64.0
Sep 23			183	133	44	1	0	2,808	532		0	16.8	0.0	4.5	63.0
Sep 24			178	144	37	5	0	2,323	395		0	16.8	0.0	4.5	63.0
Sep 25			136	164	24	2	0	2,237	455		1	20.9	0.0	4.5	63.0
Sep 26			206	171	17	1	0	2,431	523		0	20.7	0.0	4.5	63.0
Sep 27			315	187	30	5	0	2,313	473		1	26.7	0.0	4.5	63.0
Sep 28			233	243	19	3	0	2,488	465		1	14.6	0.0	4.5	63.0
Sep 29			272	311	29	6	0	3,350	611		0	16.5	0.0	4.5	63.0
Sep 30			229	380	29	2	0	4,412	854		0	16.9	0.0	4.5	63.0
TOTAL			8,151	4,383	386	34	1	63,849	12,483		22				
AVG.			272	146	13	1	0	2,128	416		1	21.0	0.0	4.6	65.1

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	23,589	548
SUMMER	9,926	523
FALL	9,316	4,574
TOTAL	42,831	5,645

COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY
386	34	17	78,327	15,751	1	169

TABLE 100

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER MONUMENTAL PROJECT
OCTOBER 2006

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	RIVER CONDITIONS			
	SPRING	SUMMER	FALL									DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Oct 1			181	400	31	4		3,984	816		0	15.8	0.0	4.3	62.0
Oct 2			93	341	21	2		3,387	601		0	20.6	0.0	4.3	62.0
Oct 3			110	362	24	5		4,329	876		0	23.4	0.0	4.3	62.0
Oct 4			104	246	43	1		2,936	566		0	24.1	0.0	4.5	62.0
Oct 5			150	396	36	1		4,161	809		0	22.6	0.0	4.5	63.0
Oct 6			201	390	36	3		4,439	883		0	24.1	0.0	4.5	63.0
Oct 7			155	425	42	4		3,725	763		1	25.5	0.0	4.5	63.0
Oct 8			90	175	27	4		2,189	436		1	18.0	0.0	4.5	62.0
Oct 9			79	183	22	1		1,856	387		0	25.0	0.0	4.5	62.0
Oct 10			68	225	36	0		1,421	264		0	22.0	0.0	4.5	62.0
Oct 11			67	177	18	1		1,525	280		0	24.2	0.0	4.5	62.0
Oct 12			48	154	17	2		1,631	325		1	23.6	0.0	4.8	61.0
Oct 13			57	138	30	0		1,743	362		0	23.1	0.0	4.8	61.0
Oct 14			51	107	24	0		1,386	266		0	16.7	0.0	4.8	61.0
Oct 15			30	55	17	0		1,438	272		1	12.3	0.0	4.8	61.0
Oct 16			52	71	26	1		1,600	314		0	20.8	0.0	4.8	61.0
Oct 17			26	47	9	0		978	227		0	14.2	0.0	4.8	60.0
Oct 18			24	44	17	3		934	196		0	14.8	0.0	4.8	60.0
Oct 19			49	47	22	5		1,267	304		0	17.1	0.0	4.8	60.0
Oct 20			19	33	24	0		1,408	289		1	15.2	0.0	4.8	60.0
Oct 21			22	23	13	0		836	172		0	24.6	0.0	4.8	60.0
Oct 22			32	16	22	1		1,101	233		0	16.9	0.0	4.8	60.0
Oct 23			12	22	39	0		868	176		0	16.9	0.0	4.8	60.0
Oct 24			17	18	33	1		1,294	271		1	17.8	0.0	4.8	59.0
Oct 25			20	24	23	2		1,517	279		0	17.5	0.0	4.8	59.0
Oct 26			4	18	18	1		1,130	225		0	14.2	0.0	4.8	58.0
Oct 27			20	17	10	1		1,009	221		0	17.5	0.0	4.8	58.0
Oct 28			8	14	15	2		917	242		0	18.2	0.0	4.8	58.0
Oct 29			12	13	12	0		1,141	296		0	14.6	0.0	4.8	57.0
Oct 30			4	9	5	0		487	112		0	20.1	0.0	4.8	56.0
Oct 31			6	5	3	0		602	124		0	17.2	0.0	4.8	56.0
TOTAL			1,811	4,195	715	45		57,239	11,587		6				
AVG.			58	135	23	1		1,846	374		0	19.3	0.0	4.7	60.4

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	23,589	548
SUMMER	9,926	523
FALL	11,127	8,769
TOTAL	44,642	9,840

COHO ADULT	COHO JACK	SOCKEYE	WILD STEELHEAD	PINK	LAMPREY
1,101	79	17	135,566	1	175

Note: 1 sturgeon was seen on October 9.

TABLE 101

DISCHARGE AND WATER QUALITY DATA
LOWER MONUMENTAL PROJECT 2006

NOVEMBER				DECEMBER			
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI *DEG F	DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI *DEG F
Nov 1	27.8	0.0		Dec 1	25.2	0.0	
Nov 2	15.4	0.0		Dec 2	25.5	0.0	
Nov 3	12.7	0.0		Dec 3	20.3	0.0	
Nov 4	12.9	0.0		Dec 4	15.5	0.0	
Nov 5	12.8	0.0		Dec 5	17.3	0.0	
Nov 6	19.6	0.0		Dec 6	18.0	0.0	
Nov 7	30.0	0.0		Dec 7	20.2	0.0	
Nov 8	60.7	0.0		Dec 8	22.2	0.0	
Nov 9	50.2	0.0		Dec 9	23.4	0.0	
Nov 10	40.3	0.0		Dec 10	25.4	0.0	
Nov 11	29.1	0.0		Dec 11	21.1	0.0	
Nov 12	34.1	0.0		Dec 12	22.2	0.0	
Nov 13	29.7	0.0		Dec 13	41.6	0.0	
Nov 14	22.2	0.0		Dec 14	28.9	0.0	
Nov 15	24.9	0.0		Dec 15	46.2	0.0	
Nov 16	22.4	0.0		Dec 16	37.1	0.0	
Nov 17	29.2	0.0		Dec 17	32.9	0.0	
Nov 18	24.5	0.0		Dec 18	28.9	0.0	
Nov 19	20.7	0.0		Dec 19	23.9	0.0	
Nov 20	25.1	0.0		Dec 20	26.1	0.0	
Nov 21	26.4	0.0		Dec 21	29.0	0.0	
Nov 22	31.5	0.0		Dec 22	27.3	0.0	
Nov 23	21.6	0.0		Dec 23	32.8	0.0	
Nov 24	27.4	0.0		Dec 24	28.2	0.0	
Nov 25	25.6	0.0		Dec 25	37.6	0.0	
Nov 26	23.9	0.0		Dec 26	16.1	0.0	
Nov 27	23.3	0.0		Dec 27	25.9	0.0	
Nov 28	27.4	0.0		Dec 28	39.4	0.0	
Nov 29	20.8	0.0		Dec 29	39.3	0.0	
Nov 30	21.0	0.0		Dec 30	31.0	0.0	
				Dec 31	30.5	0.0	
AVG.	26.4	0.0		AVG.	27.7	0.0	*Data Unavailable

TABLE 102

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
LOWER MONUMENTAL DAM
1969 - 2006**

YEAR	CHINOOK*	STEELHEAD	SOCKEYE	COHO*	TOTALS
1969	86,700	71,436	1,127	6,466	165,729
1970	75,310	62,167	240	2,972	140,689
1971	68,885	70,114	808	2,171	141,978
1972	72,220	66,857	415	733	140,225
1973	80,557	39,530	206	1,333	121,626
1974	31,728	15,139	114	812	47,793
1975	33,013	17,363	146	572	51,094
1976	34,395	21,822	364	361	56,942
1977	49,301	47,749	293	122	97,465
1978	56,835	20,540	96	218	77,689
1979	11,288	17,794	31	194	29,307
1980	10,885	34,322	48	73	45,328
1981	19,991	35,923	136	63	56,113
1982	21,965	62,772	154	89	84,980
1983	19,082	80,562	118	110	99,872
1984	17,866	88,655	63	26	106,610
1985	42,437	109,718	68	24	152,247
1986	50,584	120,479	26	9	171,098
1987	42,434	62,586	16	6	105,042
1988	44,262	84,746	35	3	129,046
1989	25,590	129,618	9	17	155,234
1990	28,215	24,238	0	1	52,454
1991	18,210	98,315	6	5	116,536
1992	30,145	130,429	15	0	160,589
1993	34,195	70,992	18	0	105,205
1994	7,219	49,917	7	0	57,143
1995	7,883	90,157	4	4	98,048
1996	15,606	96,609	3	6	112,224
1997	51,556	85,602	16	30	137,204
1998	21,537	66,118	2	0	87,657
1999	20,271	72,842	15	88	93,216
2000	68,961	112,616	291	750	182,618
2001	225,667	285,745	32	1,210	512,654
2002	124,897	232,809	46	158	357,910
2003	122,817	172,596	14	999	296,426
2004	114,030	158,792	80	3,665	276,567
2005	52,281	153,792	18	2,095	208,186
2006	54,482	135,566	17	1,181	191,246
Total	1,893,300	3,297,027	5,097	26,566	5,221,990
10-Year Average	85,650	147,648	53	1,018	234,368

*Jacks included

Includes 2001 extended season counts for November and December 0600-1600 PST.

Includes 2002 extended season counts for February and March 0800-1600 PST and
November and December 0600-1600 PST.

Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST
and November and December 0600-1600 PST.

TABLE 103

**MONTHLY COUNT OF CHINOOK SALMON
LOWER MONUMENTAL DAM
1969-2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS*
1969			1	67	38,702	25,289	13,832	1,776	5,069	1,619	340	5	86,700
1970	1		1	9,194	32,623	15,818	9,369	1,720	5,178	1,281	122	3	75,310
1971				358	19,340	23,842	14,492	857	8,599	1,397			68,885
1972				6,838	36,448	6,989	15,501	1,835	3,737	872			72,220
1973				27,168	31,973	11,282	4,343	678	4,273	840			80,557
1974				327	15,796	4,904	7,241	602	1,972	886			31,728
1975				704	17,421	6,648	4,884	548	2,428	380			33,013
1976				1,995	19,292	7,731	3,172	175	1,609	421			34,395
1977				19,125	17,093	7,884	3,092	300	1,321	486			49,301
1978				12,324	30,067	8,941	3,853	831	536	283			56,835
1979				1,332	5,637	2,010	922	211	916	260			11,288
1980				1,008	5,198	2,318	1,315	319	405	322			10,885
1981				4,039	9,012	3,349	1,924	97	1,100	470			19,991
1982				372	11,319	5,031	2,773	264	1,631	575			21,965
1983				1,250	10,262	3,841	2,103	220	1,008	398			19,082
1984				513	7,186	6,297	2,549	205	789	327			17,866
1985				7,360	20,572	7,303	1,279	402	2,451	3,070			42,437
1986				10,893	25,454	7,436	1,821	123	2,786	2,071			50,584
1987				8,706	21,166	5,492	2,400	278	2,625	1,767			42,434
1988				11,451	19,823	7,851	1,832	607	1,752	946			44,262
1989				159	14,924	4,858	1,615	476	1,852	706			24,590
1990				6,830	12,127	5,197	1,594	181	1,205	1,081			28,215
1991				925	6,537	5,491	1,936	127	2,177	1,017			18,210
1992				10,529	10,822	5,001	1,220	188	1,729	656			30,145
1993				3,848	16,154	9,720	2,016	313	1,591	509	44		34,195
1994				574	2,448	1,287	322	156	1,308	1,124			7,219
1995				210	1,435	1,092	471	280	2,183	2,212			7,883
1996				62	5,836	4,442	1,407	395	2,547	917			15,606
1997				1,493	26,966	16,833	2,484	309	2,174	1,297			51,556
1998				2,325	6,626	5,095	1,222	272	3,418	2,579			21,537
1999				124	4,551	4,951	1,630	623	5,499	2,893			20,271
2000				10,018	30,132	11,068	2,469	1,367	8,950	4,957			68,961
2001				104,119	60,247	32,422	6,261	1,472	16,390	4,411	334	11	225,667
2002	1		7	3,881	60,767	31,795	6,496	2,367	15,707	3,660	214	2	124,897
2003			50	33,435	31,906	28,381	6,247	951	15,255	6,642	288	3	123,158
2004			1	29,462	36,732	18,114	3,721	566	21,620	3,670	145	-1	114,030
2005				1,174	18,726	13,028	2,942	948	12,215	3,248			52,281
2006				10	17,659	12,916	3,541	1,816	12,534	6,006			54,482
Total	2	0	60	334,202	758,979	381,947	146,291	24,855	178,539	66,256	1,487	23	1,892,641
10-Year Average				18,604	29,431	17,460	3,701	1,069	11,376	3,936			85,684

*Jacks included

Includes 2001 extended season counts for November and December 0600-1600 PST.

Includes 2002 extended season counts for February and March 0800-1600 PST and November and December 0600-1600 PST.

Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST and November and December 0600-1600 PST.

TABLE 104
MONTHLY COUNT OF STEELHEAD
LOWER MONUMENTAL DAM
1969 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
1969		5	1,525	9,235	5,475	248	2,141	6,410	26,647	15,195	4,189	366	71,436
1970	252	1,025	1,519	3,143	2,134	232	1,989	7,947	30,701	11,194	1,615	416	62,167
1971			422	2,404	1,510	131	2,199	2,992	42,438	18,018			70,114
1972				2,182	744	86	2,336	7,184	32,417	21,908			66,857
1973				2,061	658	82	2,060	3,505	21,241	9,923			39,530
1974				1,221	256	17	1,237	2,835	4,929	4,644			15,139
1975				745	444	24	873	4,417	7,437	3,423			17,363
1976				806	256	146	1,092	4,409	10,328	4,785			21,822
1977				849	192	127	3,026	2,991	22,494	18,070			47,749
1978				1,324	128	16	719	2,522	10,477	5,354			20,540
1979				643	118	28	1,314	1,937	4,898	8,856			17,794
1980				2,467	573	70	754	3,725	14,078	12,655			34,322
1981				996	321	75	1,783	1,632	12,416	18,700			35,923
1982				2,026	1,123	35	1,851	7,373	22,426	27,938			62,772
1983				1,021	131	14	3,027	10,101	40,004	26,264			80,562
1984				2,663	482	52	3,150	4,820	42,788	34,700			88,655
1985				6,889	548	189	1,888	10,086	63,734	26,384			109,718
1986				1,914	205	89	5,082	7,751	46,876	58,562			120,479
1987				2,483	264	142	2,531	4,692	20,766	31,708			62,586
1988				4,274	604	411	1,903	5,725	35,290	36,539			84,746
1989				1,067	389	304	6,364	8,093	63,026	50,375			129,618
1990				2,691	197	189	1,804	1,579	14,209	24,238			44,907
1991				2,211	288	70	2,275	1,497	41,894	50,080			98,315
1992				1,456	182	285	2,890	7,223	68,606	49,787			130,429
1993				7,752	277	564	5,367	8,197	16,146	30,228	2,461		70,992
1994				2,844	76	186	2,595	2,998	14,901	26,317			49,917
1995				1,072	162	138	4,074	10,424	38,890	35,397			90,157
1996				934	96	137	3,199	12,413	47,234	32,596			96,609
1997				1,044	162	177	3,422	9,326	34,521	36,950			85,602
1998				1,501	62	198	2,361	1,835	19,892	40,269			66,118
1999				559	59	98	2,652	11,170	37,899	20,405			72,842
2000				937	-26	546	5,741	9,045	61,072	35,301			112,616
2001				1,636	113	2,874	19,045	26,264	126,517	76,474	23,900	8,922	285,745
2002	3,687	1,858	3,429	4,876	196	688	10,901	25,998	94,310	75,670	9,028	2,168	232,809
2003	775	3,686	5,325	1,872	45	850	7,704	8,122	93,190	60,813	3,945	1,011	187,338
2004	115	1,036	2,619	1,473	127	1,052	6,477	4,020	90,900	45,380	4,101	1,492	158,792
2005				783	181	1,062	5,193	7,445	70,701	68,427			153,792
2006				2,756	98	454	3,392	7,778	63,849	57,239			135,566
Total	4,829	7,610	14,839	86,810	18,850	12,086	136,411	266,481	1,510,142	1,210,766	49,239	14,375	3,332,438
10-Year Average				1,744	102	800	6,689	11,100	69,285	51,693			149,122

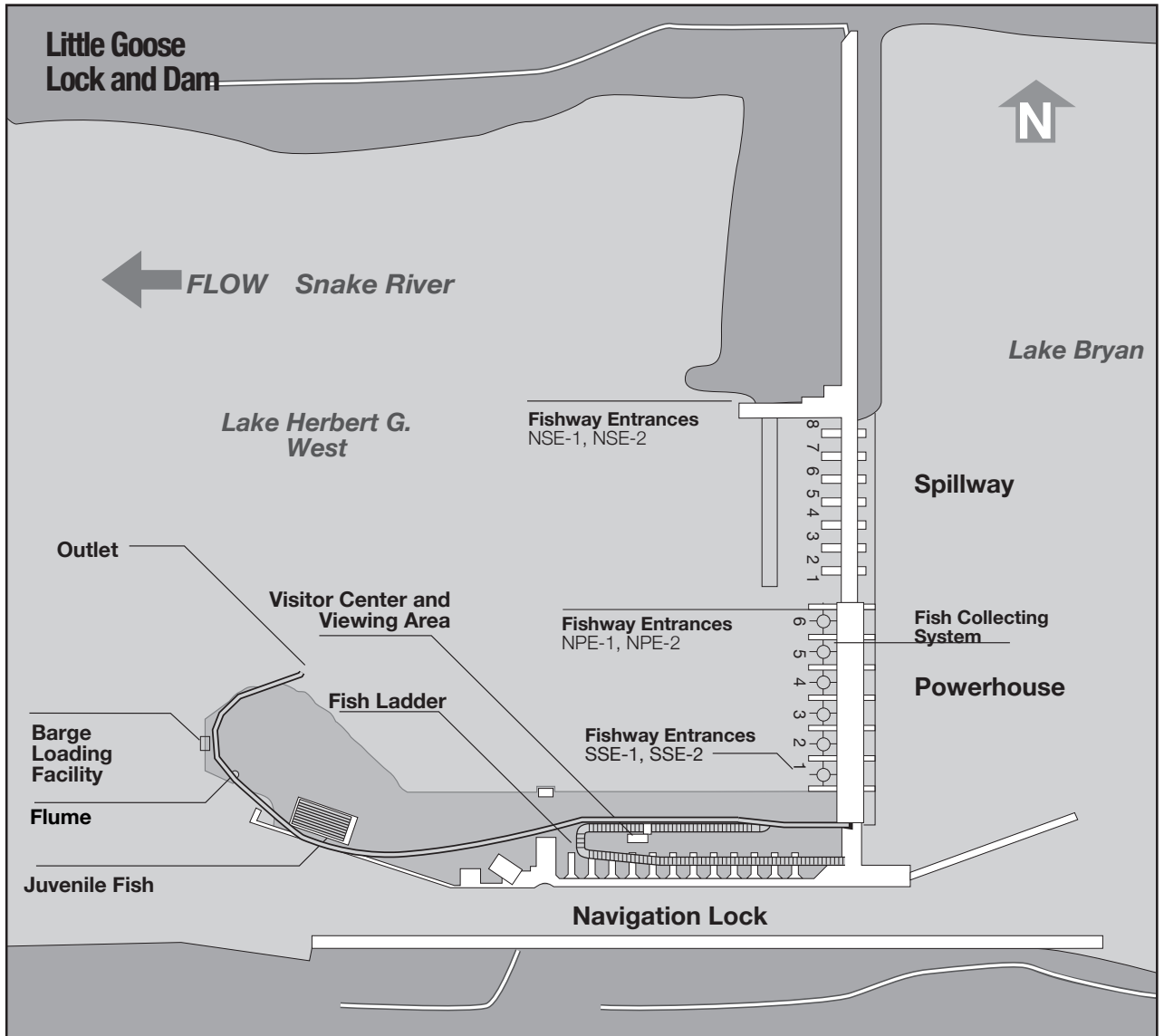
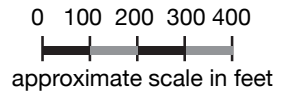
Includes 2001 extended season counts for November and December 0600-1600 PST.

Includes 2002 extended season counts for February and March 0800-1600 PST and November and December 0600-1600 PST.

Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST and November and

December 0600-1600 PST.

Plate 8 Little Goose Lock and Dam



LITTLE GOOSE DAM

FISH COUNTING SCHEDULE

1 Apr – Oct 31 Visual counting daily 0400 - 2000 hours PST

FISH LADDER OPERATING SCHEDULE

Project Ladder

1 Jan – 2 Jan	Ladder in service.
3 Jan – 25 Jan	Ladder dewatered for annual maintenance.
26 Jan – 31 Dec	Ladder in service

FISHWAY ACTIVITIES

Water temperatures were recorded hourly at the fish ladder exit pool. These reading were recorded from 16 June to 15 Sept. The purpose is to determine if summer spill has any effects on exit pool temperatures.

Repairs to NPE 1 gears and cables were completed and the weir was placed back into full operation in January.

Idaho Cooperative Fisheries Research Unit conducted an evaluation of adult salmon and steelhead migration past the adult ladder at Little Goose dam. In addition, lamprey were trapped and tagged at Little Goose Dam, then transported upstream of Lower Granite Dam where they were released.

The juvenile fish facility was operated for juvenile fish transport/bypass and adult fallbacks from 20 March to 21 December.

TABLE 105

MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER LITTLE GOOSE DAM

2006

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				10	14,632	10,859	4,432	1,108	9,228	4,426			44,695
STEELHEAD				2,569	120	129	978	3,547	54,727	62,370			124,440
SOCKEYE						3	16	5	2				26
COHO									340	632			972
PINK									1				1
TOTAL				2,579	14,752	10,991	5,426	4,660	64,298	67,428			170,134
SHAD													
LAMPREY					4	25	37	28	28	3			125

*Jacks included

TABLE 106

DISCHARGE AND WATER QUALITY DATA
LITTLE GOOSE PROJECT 2006

JANUARY				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY	
			SECCHI	*DEG F
Jan 1	60.5	0.0		
Jan 2	72.0	0.0		
Jan 3	54.8	0.0		
Jan 4	51.4	0.0		
Jan 5	38.2	0.0		
Jan 6	43.1	0.0		
Jan 7	40.4	0.0		
Jan 8	27.7	0.0		
Jan 9	34.4	0.0		
Jan 10	38.1	0.0		
Jan 11	51.0	0.0		
Jan 12	43.6	0.0		
Jan 13	44.2	0.0		
Jan 14	46.8	0.0		
Jan 15	38.9	0.0		
Jan 16	42.5	0.0		
Jan 17	29.1	0.0		
Jan 18	40.6	0.0		
Jan 19	34.7	0.0		
Jan 20	40.2	0.0		
Jan 21	35.1	0.0		
Jan 22	35.3	0.0		
Jan 23	34.9	0.0		
Jan 24	40.1	0.0		
Jan 25	36.1	0.0		
Jan 26	38.2	0.0		
Jan 27	38.1	0.0		
Jan 28	30.9	0.0		
Jan 29	32.8	0.0		
Jan 30	36.1	0.0		
Jan 31	41.8	0.0		

AVG.

41.0	0.0
------	-----

FEBRUARY				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY	
			SECCHI	*DEG F
Feb 1	40.9	0.0		
Feb 2	45.9	0.0		
Feb 3	50.7	0.0		
Feb 4	49.8	0.0		
Feb 5	56.6	0.0		
Feb 6	51.6	0.0		
Feb 7	50.3	0.0		
Feb 8	39.3	0.0		
Feb 9	47.3	0.0		
Feb 10	49.2	0.0		
Feb 11	47.9	0.0		
Feb 12	46.0	0.0		
Feb 13	51.4	0.0		
Feb 14	44.0	0.0		
Feb 15	42.3	0.0		
Feb 16	39.8	0.0		
Feb 17	47.9	0.0		
Feb 18	32.9	0.0		
Feb 19	34.0	0.0		
Feb 20	43.1	0.0		
Feb 21	44.5	0.0		
Feb 22	36.3	0.0		
Feb 23	45.4	0.0		
Feb 24	39.6	0.0		
Feb 25	28.1	0.0		
Feb 26	31.4	0.0		
Feb 27	37.6	0.0		
Feb 28	40.4	0.0		

AVG.

43.4	0.0
------	-----

MARCH				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F
Mar 1	46.4	0.0	4.8	38.0
Mar 2	45.7	0.0	*	*
Mar 3	37.4	0.0	*	*
Mar 4	47.2	0.0	*	*
Mar 5	44.3	0.0	*	*
Mar 6	54.5	0.0	4.3	42.4
Mar 7	48.0	0.0	*	*
Mar 8	57.1	0.0	4.9	41.3
Mar 9	51.1	0.0	3.4	42.0
Mar 10	53.6	0.0	*	*
Mar 11	47.1	0.0	*	*
Mar 12	49.7	0.0	*	*
Mar 13	49.2	0.0	3.9	41.9
Mar 14	52.9	0.0	*	*
Mar 15	68.3	0.0	3.9	41.7
Mar 16	45.3	0.0	3.8	42.3
Mar 17	34.5	0.0	*	*
Mar 18	57.8	0.0	*	*
Mar 19	41.5	0.0	*	*
Mar 20	40.6	0.0	*	*
Mar 21	64.8	0.0	4.7	42.0
Mar 22	30.6	0.0	5.2	42.5
Mar 23	43.0	0.0	4.8	42.8
Mar 24	49.3	0.0	*	*
Mar 25	49.6	0.0	*	*
Mar 26	51.7	0.0	*	*
Mar 27	67.4	0.0	4.4	44.8
Mar 28	65.3	0.0	4.0	44.8
Mar 29	66.2	0.0	*	*
Mar 30	65.5	0.0	3.0	45.4
Mar 31	65.8	0.0	*	*

AVG.

51.3	0.0	4.2	42.5
------	-----	-----	------

*Data unavailable.

TABLE 107

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LITTLE GOOSE PROJECT
APRIL 2006

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Apr 1	0							101	28			70.2	0.0	3.6	45.4
Apr 2	0							139	46			72.1	0.0	3.2	44.7
Apr 3	0							90	29			79.1	23.7	*	45.2
Apr 4	0							102	31			77.3	23.2	3.0	45.3
Apr 5	0							80	13			95.9	27.0	*	45.6
Apr 6	0							160	62			116.1	33.2	2.6	45.9
Apr 7	0							169	59			134.5	39.0	*	46.1
Apr 8	0							161	62			123.0	36.9	3.3	46.0
Apr 9	0							152	44			128.6	38.4	3.0	47.0
Apr 10	0							164	53			127.2	38.2	*	46.9
Apr 11	0							142	47			125.2	41.7	1.9	47.4
Apr 12	0							114	23			125.5	38.3	*	48.1
Apr 13	0							125	41			124.7	35.7	1.7	48.5
Apr 14	0							137	43			130.7	30.8	*	48.5
Apr 15	1							102	30			140.2	31.5	2.7	48.5
Apr 16	0							62	18			151.9	41.4	1.4	48.4
Apr 17	0							53	12			149.2	40.4	*	48.6
Apr 18	0							58	6			145.1	35.7	1.4	48.4
Apr 19	0							47	10			136.5	28.7	*	48.1
Apr 20	0							47	10			136.5	27.5	1.3	48.3
Apr 21	0							41	11			113.4	27.0	*	48.6
Apr 22	0							35	8			114.6	27.6	1.7	49.0
Apr 23	0							44	11			114.6	27.5	*	49.7
Apr 24	0							58	20			128.5	27.6	*	50.6
Apr 25	0							44	17			132.2	27.6	1.9	50.9
Apr 26	2							35	17			130.3	27.5	2.0	50.7
Apr 27	0							23	10			124.3	27.6	*	50.7
Apr 28	0							26	10			123.4	27.6	1.8	51.0
Apr 29	5							29	11			124.7	27.5	*	51.5
Apr 30	2							29	17			135.9	30.9	2.2	52.0
TOTAL	10							2,569	799						

AVG. 0

86 27

121.0	29.7	2.3	48.2
-------	------	-----	------

Note: 1 Bull Trout seen on April 30

*Data unavailable

TABLE 108

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LITTLE GOOSE PROJECT
MAY 2006

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
May 1	1			0				22	18		0	152.3	41.4	*	52.9
May 2	10			0				12	11		0	142.2	33.1	1.8	53.2
May 3	6			0				5	4		0	130.7	23.9	*	53.0
May 4	10			0				10	7		0	125.5	23.9	1.8	52.8
May 5	8			0				7	5		0	115.0	23.2	*	52.5
May 6	28			0				11	7		0	116.2	22.1	2.8	52.3
May 7	31			0				8	7		0	118.5	22.0	*	52.5
May 8	68			0				8	5		0	121.9	25.1	*	52.9
May 9	90			0				7	5		0	113.3	30.2	2.2	53.7
May 10	108			1				5	4		0	107.1	31.4	*	54.3
May 11	130			2				0	0		0	97.1	29.3	*	54.0
May 12	332			4				7	6		0	100.9	30.3	2.8	53.4
May 13	452			0				1	0		0	96.2	28.2	2.9	53.2
May 14	714			12				4	2		0	102.6	29.4	*	53.6
May 15	943			1				2	2		0	117.9	29.4	*	54.2
May 16	1,450			30				1	1		0	129.0	38.2	2.1	55.1
May 17	866			20				4	4		0	149.7	40.3	*	56.2
May 18	1,402			17				1	1		1	168.9	56.2	3.0	56.8
May 19	1,386			28				1	1		1	169.6	57.5	*	56.2
May 20	966			20				0	0		1	187.6	77.6	1.8	55.3
May 21	451			18				0	0		0	194.8	85.3	*	54.3
May 22	480			8				1	1		0	174.1	64.0	*	53.7
May 23	208			6				1	1		0	176.7	65.3	0.9	53.7
May 24	193			2				0	0		0	170.9	58.6	*	53.7
May 25	317			13				0	0		0	160.4	48.0	1.0	54.1
May 26	368			6				0	0		0	156.2	43.8	*	54.3
May 27	564			18				0	0		1	139.0	42.5	1.6	54.4
May 28	320			14				0	0		0	124.9	54.4	*	54.6
May 29	702			48				1	1		0	120.8	42.8	1.5	54.8
May 30	965			36				0	0		0	113.1	40.1	1.6	55.2
May 31	721			38				1	1		0	102.7	25.8	*	55.3
TOTAL	14,290			342				120	94		4				
AVG.	461			11				4	3		0	135.3	40.8	2.0	54.1
RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK						STEELHEAD	WILD STEELHEAD		LAMPREY				
SPRING	14,300	342						2,689	893		4				

*Data unavailable

TABLE 109

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LITTLE GOOSE PROJECT
JUNE 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jun 1	786			36			0	2	1		0	96.2	25.0	*	55.1
Jun 2	755			34			0	1	1		0	98.0	22.8	*	55.0
Jun 3	574			34			0	0	0		0	95.5	20.2	2.6	55.6
Jun 4	642			42			0	1	0		2	111.6	23.5	*	56.6
Jun 5	239			36			0	2	0		0	115.1	26.4	*	57.6
Jun 6	612			24			0	4	1		0	115.0	41.8	2.4	58.4
Jun 7	383			14			0	2	0		4	116.7	39.2	*	58.6
Jun 8	306			24			0	1	0		1	122.5	34.8	2.6	58.9
Jun 9	251			25			0	0	0		0	124.4	45.6	*	58.9
Jun 10	284			24			0	1	1		0	124.6	62.2	*	59.4
Jun 11	242			8			0	2	1		0	114.5	74.3	2.6	59.4
Jun 12	479			41			0	21	0		0	105.4	34.7	*	58.8
Jun 13	310			17			0	0	0		1	100.7	22.8	2.3	58.6
Jun 14	246			14			0	-1	-1		0	98.1	39.1	*	58.6
Jun 15	427			18			0	2	2		4	112.3	34.5	2.4	57.9
Jun 16		406		22			0	8	1		1	98.6	31.2	*	59.0
Jun 17		355		12			0	6	0		0	93.2	20.3	*	59.4
Jun 18		190		12			0	2	0		1	89.6	23.4	3.6	59.6
Jun 19		331		12			0	10	0		4	78.6	23.9	3.4	59.8
Jun 20		425		22			0	10	0		0	68.3	21.0	3.5	60.2
Jun 21		431		19			0	7	1		4	66.5	20.2	*	60.6
Jun 22		222		4			0	5	1		1	63.0	20.5	3.5	60.8
Jun 23		208		12			0	1	1		0	60.3	18.1	*	61.2
Jun 24		184		12			1	5	0		2	60.7	18.2	*	62.3
Jun 25		80		7			0	2	1		0	57.4	17.3	5.5	63.1
Jun 26		73		5			0	7	1		0	57.1	26.7	*	63.8
Jun 27		157		14			0	10	1		0	56.1	16.2	5.1	64.5
Jun 28		325		28			0	12	2		0	52.8	15.6	*	64.4
Jun 29		150		19			2	11	4		0	55.3	15.7	5.0	65.4
Jun 30		182		13			0	14	1		0	52.1	15.8	*	66.3
TOTAL	6,536	3,719		604			3	129	20		25				
AVG.	436	248		20			0	4	1		1	88.7	28.4	3.4	59.9
RUN YEAR															
TOTALS TO DATE															
SPRING															
SUMMER															
TOTALS															

*Data unavailable

Note: 1 Bull Trout seen on June 23 and on June 29

TABLE 110

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LITTLE GOOSE PROJECT
JULY 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jul 1		275		23			1	19	2		0	52.1	15.8	5.1	67.3
Jul 2		179		25			1	14	6		0	44.1	13.2	*	67.8
Jul 3		84		7			1	14	7		0	44.3	13.2	*	69.1
Jul 4		125		5			0	7	1		1	45.6	13.6	5.7	69.4
Jul 5		128		23			4	11	4		2	42.4	12.8	*	69.3
Jul 6		134		34			1	21	4		0	47.5	15.6	5.0	68.7
Jul 7		200		18			0	35	7		0	47.0	14.5	5.5	69.1
Jul 8		270		14			0	38	7		1	47.5	15.3	*	70.3
Jul 9		85		10			0	17	4		0	46.7	13.7	*	70.5
Jul 10		163		13			0	26	7		1	45.9	14.2	*	70.0
Jul 11		230		17			1	24	5		0	47.8	14.8	5.6	70.9
Jul 12		206		4			0	48	17		1	46.0	14.2	5.0	70.7
Jul 13		247		7			1	46	11		0	47.0	14.7	5.0	70.2
Jul 14		102		6			1	20	4		0	44.7	13.5	5.0	69.4
Jul 15		175		19			0	45	13		0	40.0	12.3	*	68.7
Jul 16		152		12			0	25	2		1	42.2	13.1	5.6	69.1
Jul 17		95		14			0	40	8		0	36.9	11.5	*	68.9
Jul 18		118		10			0	57	16		4	39.0	12.1	4.7	68.7
Jul 19		184		17			0	58	12		4	41.8	12.7	5.3	69.8
Jul 20		168		5			0	40	6		0	37.9	11.7	5.3	69.3
Jul 21		80		13			1	17	5		2	35.0	10.8	4.9	69.1
Jul 22		58		7			0	18	6		0	44.3	13.2	*	68.9
Jul 23		58		0			0	20	6		0	38.3	12.0	6.0	69.1
Jul 24		72		10			0	43	13		1	38.8	12.0	6.0	69.1
Jul 25		108		16			0	30	6		5	40.2	11.7	6.0	68.9
Jul 26		73		4			0	31	8		2	34.1	10.7	*	69.3
Jul 27		94		4			0	18	6		1	31.2	9.9	5.9	70.0
Jul 28		62		7			0	29	0		1	33.5	10.5	5.5	68.7
Jul 29		65		4			1	20	8		2	29.2	9.4	*	69.1
Jul 30		53		1			1	93	26		6	33.9	10.7	5.5	69.6
Jul 31		38		2			2	54	12		2	30.5	9.9	*	69.8
TOTAL		4,081		351			16	978	239		37				
AVG.		132		11			1	32	8		1	41.1	12.7	5.4	69.3

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	LAMPREY
TOTALS TO DATE						
SPRING	20,836	733	19	3,796	1,152	66
SUMMER	7,800	564				
TOTAL	28,636	1,297				

TABLE 111

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LITTLE GOOSE PROJECT
AUGUST 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Aug 1		42		2			1	65	25		1	29.6	9.8	5.2	70.2
Aug 2		14		0			0	54	24		0	26.3	9.3	*	69.1
Aug 3		16		4			0	40	12		0	24.5	9.3	5.0	69.4
Aug 4		18		0			0	34	8		1	27.5	9.6	*	69.4
Aug 5		20		0			0	49	12		2	28.7	9.8	*	69.3
Aug 6		14		2			1	52	17		2	30.9	10.2	6.0	69.4
Aug 7		10		0			0	39	7		1	30.8	10.0	*	68.9
Aug 8		23		1			0	46	10		2	29.0	9.6	5.3	68.0
Aug 9		20		0			0	46	10		1	28.2	9.5	*	67.5
Aug 10		22		0			0	55	14		1	29.7	10.0	6.0	69.1
Aug 11		35		5			0	67	11		0	31.8	10.5	*	68.5
Aug 12		34		4			0	83	13		0	30.6	9.7	*	32.0
Aug 13		16		4			0	58	6		1	26.1	8.5	*	69.1
Aug 14		41		5			0	60	6		0	23.8	7.4	*	68.5
Aug 15		31		5			0	74	7		1	24.5	7.4	6.0	68.2
Aug 16			18	2			1	59	13		1	26.8	8.4	*	68.2
Aug 17			29	6			1	70	17		1	30.2	9.5	6.0	68.4
Aug 18			17	1			0	73	24		2	24.9	7.4	5.7	69.4
Aug 19			16	0			1	49	17		0	26.5	8.0	*	69.1
Aug 20			18	2			0	50	13		2	25.1	7.4	6.0	68.5
Aug 21			29	1			0	68	10		1	33.5	10.5	*	67.8
Aug 22			59	8			0	128	30		2	24.7	7.4	6.0	67.3
Aug 23			47	5			0	267	91		0	34.6	10.3	*	68.2
Aug 24			80	8			0	346	82		1	26.9	8.3	6.0	67.8
Aug 25			44	5			0	180	46		1	24.8	7.4	*	68.5
Aug 26			53	2			0	185	40		1	24.3	7.4	*	68.2
Aug 27			43	7			0	149	25		0	19.4	5.9	6.0	67.3
Aug 28			32	7			0	176	52		1	21.0	6.3	*	66.9
Aug 29			41	1			0	253	59		0	25.3	7.4	6.0	66.2
Aug 30			40	10			0	260	60		0	20.8	6.4	*	66.4
Aug 31			78	11			0	412	72		2	28.6	8.5	6.0	67.1
TOTAL		356	644	108			5	3,547	833		28				

AVG.	24	40	3				0	114	27		1	27.1	8.6	5.8	67.2
------	----	----	---	--	--	--	---	-----	----	--	---	------	-----	-----	------

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	20,836	733
SUMMER	8,156	596
FALL	644	76
TOTALS	29,636	1,405

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
24	7,343	1,985	94

TABLE 112

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LITTLE GOOSE PROJECT
SEPTEMBER 2006

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Sep 1			173	18	0	0	1	505	152	0	2	24.2	7.4	*	67.6
Sep 2			133	14	0	0	0	556	137	0	0	21.7	0.0	*	67.5
Sep 3			102	18	0	0	0	492	103	0	2	22.2	0.0	*	67.1
Sep 4			83	7	0	0	0	238	58	0	0	13.9	0.0	*	66.7
Sep 5			101	29	0	0	0	243	83	0	2	19.7	0.0	6.0	66.7
Sep 6			109	14	0	0	0	444	77	0	2	26.8	0.0	6.0	66.6
Sep 7			82	20	0	0	0	329	61	0	0	26.3	0.0	6.0	66.7
Sep 8			374	88	0	0	0	460	88	0	0	25.6	0.0	*	66.6
Sep 9			263	60	1	0	0	703	180	0	1	22.5	0.0	6.0	66.0
Sep 10			340	76	2	0	0	1,285	300	0	1	21.3	0.0	*	66.2
Sep 11			344	97	1	0	1	1,296	283	0	2	23.7	0.0	*	66.6
Sep 12			449	120	8	5	0	2,065	547	0	4	23.8	0.0	6.0	66.4
Sep 13			335	76	6	1	0	1,689	365	0	2	23.5	0.0	*	65.7
Sep 14			342	144	7	1	0	3,013	641	0	1	20.9	0.0	6.0	64.9
Sep 15			281	116	5	0	0	1,992	426	0	0	18.8	0.0	*	64.8
Sep 16			426	172	13	1	0	3,859	703	0	0	13.7	0.0	*	64.6
Sep 17			275	113	16	0	0	3,011	569	0	-1	15.9	0.0	6.0	64.4
Sep 18			246	130	13	0	0	2,406	430	0	0	16.0	0.0	*	64.4
Sep 19			82	32	5	0	0	1,400	266	0	1	18.2	0.0	6.0	64.2
Sep 20			206	77	12	1	0	3,438	670	0	1	20.9	0.0	*	63.9
Sep 21			174	44	17	1	0	2,666	499	0	1	21.8	0.0	6.0	63.5
Sep 22			299	132	29	0	0	3,533	682	1	1	27.4	0.0	*	63.1
Sep 23			265	106	25	1	0	2,573	503	0	1	33.5	0.0	*	62.8
Sep 24			121	56	29	1	0	2,384	433	0	0	15.8	0.0	*	62.6
Sep 25			190	89	30	0	0	2,821	529	0	0	18.8	0.0	6.0	63.0
Sep 26			155	131	19	2	0	2,218	413	0	1	19.9	0.0	6.0	63.0
Sep 27			104	96	34	1	0	2,154	395	0	1	21.0	0.0	*	63.1
Sep 28			167	131	11	2	0	1,950	391	0	0	25.4	0.0	5.3	63.3
Sep 29			215	72	28	2	0	2,144	400	0	2	13.9	0.0	*	63.5
Sep 30			380	134	10	0	0	2,860	581	0	1	16.2	0.0	*	63.6
TOTAL			6,816	2,412	321	19	2	54,727	10,965	1	28				
AVG.			227	80	11	1	0	1,824	366	0	1	21.1	0.2	5.9	65.0

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	20,836	733
SUMMER	8,156	596
FALL	7,460	2,488
TOTALS	36,452	3,817

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY
321	19	26	62,070	12,950	1	122

TABLE 113

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LITTLE GOOSE PROJECT
OCTOBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Oct 1			124	96	22	1		3,603	625		0	17.5	0.0	6.0	63.4
Oct 2			128	158	24	0		4,306	809		0	16.3	0.0	5.7	63.3
Oct 3			161	98	22	0		4,163	743		0	20.3	0.0	*	63.4
Oct 4			181	131	55	0		3,077	676		0	22.9	0.0	*	63.4
Oct 5			94	238	28	4		4,717	905		0	22.9	0.0	5.0	63.2
Oct 6			130	265	18	2		3,973	749		1	21.4	0.0	*	63.2
Oct 7			162	359	31	1		4,634	842		-1	24.9	0.0	4.0	63.0
Oct 8			56	150	22	0		2,292	391		-1	25.0	0.0	*	62.6
Oct 9			166	65	28	1		3,012	515		2	17.7	0.0	*	62.4
Oct 10			68	176	42	1		2,722	516		-1	21.5	0.0	5.2	62.2
Oct 11			95	115	34	0		2,078	400		0	24.2	0.0	*	61.9
Oct 12			65	83	16	0		1,761	328		0	23.5	0.0	6.0	61.7
Oct 13			42	91	26	0		1,789	307		0	23.2	0.0	*	61.5
Oct 14			50	76	25	0		1,884	376		1	22.3	0.0	*	61.4
Oct 15			30	68	12	0		1,148	241		0	17.3	0.0	6.0	61.2
Oct 16			26	30	14	0		1,633	344		1	12.3	0.0	*	60.9
Oct 17			24	55	22	0		1,181	208		0	20.3	0.0	5.8	60.8
Oct 18			8	38	13	0		1,227	218		1	13.8	0.0	*	60.6
Oct 19			20	31	18	0		716	115		0	14.3	0.0	6.0	60.4
Oct 20			14	14	18	0		1,393	242		0	17.4	0.0	*	60.2
Oct 21			12	23	8	0		975	182		0	15.6	0.0	*	59.9
Oct 22			19	29	7	1		1,030	203		0	23.2	0.0	5.0	59.7
Oct 23			17	22	8	2		1,034	194		0	15.6	0.0	*	59.5
Oct 24			17	23	18	0		1,029	226		0	17.2	0.0	*	59.2
Oct 25			23	43	23	0		1,250	268		0	18.0	0.0	*	58.7
Oct 26			19	46	20	1		1,553	322		0	16.4	0.0	*	58.3
Oct 27			11	16	11	0		874	146		0	14.8	0.0	6.0	58.0
Oct 28			10	24	14	1		857	168		0	18.0	0.0	6.0	57.6
Oct 29			8	16	5	0		946	191		0	17.7	0.0	5.0	56.9
Oct 30			24	17	11	0		1,032	184		0	14.0	0.0	*	56.5
Oct 31			10	16	2	0		481	97		0	18.8	0.0	*	55.9
TOTAL			1,814	2,612	617	15		62,370	11,731		3				

AVG.			59	84	20	0		2,012	378		0	19.0	0.0	5.5	60.7
------	--	--	----	----	----	---	--	-------	-----	--	---	------	-----	-----	------

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY
TOTALS TO DATE									
SPRING	20,836	733	938	34	26	124,440	24,681	1	125
SUMMER	8,156	596							
FALL	9,274	5,100							
TOTALS	38,266	6,429							

Note: 1 sturgeon seen on October 12 and on October 31.

TABLE 114

DISCHARGE AND WATER QUALITY DATA
LITTLE GOOSE PROJECT 2006

NOVEMBER					DECEMBER				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY		DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F				SECCHI	DEG F
Nov 1	16.1	0.0	*	55.4	Dec 1	21.6	0.0	*	43.6
Nov 2	26.6	0.0	6.0	55.0	Dec 2	24.7	0.0	*	43.2
Nov 3	14.1	0.0	*	54.7	Dec 3	25.2	0.0	*	42.9
Nov 4	13.3	0.0	*	54.6	Dec 4	17.5	0.0	6.0	42.6
Nov 5	12.0	0.0	*	54.3	Dec 5	15.9	0.0	6.0	42.4
Nov 6	12.4	0.0	5.5	54.1	Dec 6	15.7	0.0	*	42.0
Nov 7	22.0	0.0	6.0	54.1	Dec 7	18.8	0.0	*	41.9
Nov 8	29.8	0.0	5.0	53.9	Dec 8	19.6	0.0	*	41.7
Nov 9	58.7	0.0	*	53.2	Dec 9	20.6	0.0	*	41.7
Nov 10	47.8	0.0	*	52.6	Dec 10	22.6	0.0	*	41.8
Nov 11	37.8	0.0	*	51.9	Dec 11	25.4	0.0	*	41.8
Nov 12	29.4	0.0	*	51.1	Dec 12	19.2	0.0	6.0	41.9
Nov 13	32.1	0.0	5.4	50.3	Dec 13	22.8	0.0	*	41.9
Nov 14	28.5	0.0	*	49.6	Dec 14	38.9	0.0	6.0	41.7
Nov 15	19.9	0.0	5.7	49.1	Dec 15	28.1	0.0	*	41.3
Nov 16	26.7	0.0	6.0	48.7	Dec 16	40.7	0.0	*	40.8
Nov 17	22.7	0.0	*	48.3	Dec 17	34.4	0.0	*	40.2
Nov 18	27.3	0.0	*	48.1	Dec 18	32.2	0.0	6.0	39.8
Nov 19	23.2	0.0	*	48.0	Dec 19	27.9	0.0	*	39.3
Nov 20	21.5	0.0	6.0	48.0	Dec 20	22.9	0.0	6.0	39.0
Nov 21	24.2	0.0	6.0	47.8	Dec 21	24.1	0.0	*	38.8
Nov 22	26.4	0.0	6.0	47.5	Dec 22	26.1	0.0	*	38.6
Nov 23	26.4	0.0	*	47.4	Dec 23	26.1	0.0	*	38.7
Nov 24	23.2	0.0	*	47.0	Dec 24	31.0	0.0	*	38.8
Nov 25	25.6	0.0	*	46.5	Dec 25	25.6	0.0	*	39.0
Nov 26	26.9	0.0	*	45.9	Dec 26	32.5	0.0	*	39.2
Nov 27	24.0	0.0	5.4	45.5	Dec 27	17.7	0.0	6.0	39.5
Nov 28	21.9	0.0	5.3	44.8	Dec 28	28.0	0.0	6.0	39.4
Nov 29	26.6	0.0	*	44.3	Dec 29	38.8	0.0	*	39.5
Nov 30	19.4	0.0	*	44.0	Dec 30	37.5	0.0	*	39.3
					Dec 31	27.2	0.0	*	39
AVG.	25.6	0.0	5.7	49.9	AVG.	26.1	0.0	6.0	40.7

*Data Unavailable

TABLE 115

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
LITTLE GOOSE DAM
1970 - 1981, 1991 - 2006**

YEAR	CHINOOK*	STEELHEAD	SOCKEYE	COHO*	TOTALS
1970	72,971	59,640	163	2,480	135,254
1971	61,402	70,013	891	2,701	135,007
1972	64,211	63,638	408	799	129,056
1973	70,605	38,820	192	1,157	110,774
1974	26,787	14,784	124	532	42,227
1975	26,960	15,225	173	697	43,055
1976	32,359	20,894	644	733	54,630
1977	49,176	47,388	574	438	97,576
1978	56,069	24,927	168	307	81,471
1979	12,515	21,049	72	390	34,026
1980	10,605	38,627	88	124	49,444
1981	19,086	38,680	200	120	58,086
**					
1991	13,737	96,830	10	1	110,578
1992	26,746	117,698	12	0	144,456
1993	32,384	59,740	16	0	92,140
1994	5,457	45,815	44	0	51,316
1995	5,061	77,744	17	9	82,831
1996	13,538	82,203	1	0	95,742
1997	49,664	74,219	10	59	123,952
1998	19,798	63,753	5	1	83,557
1999	17,235	65,471	16	89	82,811
2000	62,886	101,030	296	313	164,525
2001	214,726	261,132	72	768	476,698
2002	119,429	215,251	38	133	334,851
2003	114,458	161,026	23	807	276,314
2004	100,998	151,406	81	3,042	255,527
2005	46,553	143,537	13	1,992	192,095
2006	44,695	124,440	26	972	170,133
Total	1,390,111	2,294,980	4,377	18,664	3,708,132
1972-1981					
10-Yr Avg	36,837	32,403	264	530	70,035
1997-2006					
10-Yr Avg	79,044	136,127	58	818	216,046

*Jacks included

**1981 was the last year visual counts were made at Little Goose Project until 1991.

Includes 2001 extended season counts for November and December 0600-1600 PST.

Includes 2002 extended season counts for February and March 0800-1600 PST and
November and December 0600-1600 PST.

Includes 2003 and 2004 extended season counts for January, February, and March 0800-
1600 PST and November and December 0600-1600 PST.

TABLE 116

**MONTHLY COUNT OF CHINOOK SALMON
LITTLE GOOSE DAM; 1970-1981, 1991-2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS*
1970				6,765	32,616	15,204	11,200	1,529	4,508	965	178	6	72,971
1971				133	16,012	24,096	14,473	707	5,319	606	55	1	61,402
1972				2,226	37,991	5,585	14,747	1,614	1,445	576	27		64,211
1973				17,490	34,570	10,661	4,344	520	2,472	528	19	1	70,605
1974				136	14,224	4,451	6,213	556	749	449	9		26,787
1975				152	14,161	6,487	4,182	540	1,143	295			26,960
1976				612	17,403	9,470	3,575	302	642	355			32,359
1977				16,973	19,936	6,707	4,181	182	842	355			49,176
1978				8,190	29,195	10,676	6,172	717	621	498			56,069
1979				947	4,436	4,396	1,391	254	802	289			12,515
1980				508	5,250	2,560	1,488	191	368	240			10,605
1981				2,798	9,399	3,214	2,217	108	724	626			19,086
**													
1991				469	4,968	5,066	1,949	85	715	394	91		13,737
1992				8,000	11,108	4,932	1,217	94	959	331	105		26,746
1993				2,032	16,308	10,018	2,425	241	989	317	54		32,384
1994				294	2,307	1,281	282	98	540	610	45		5,457
1995				82	1,117	1,041	481	146	1,179	1,015			5,061
1996				57	4,872	4,695	1,450	280	1,572	612			13,538
1997				519	26,980	16,769	3,007	296	1,302	791			49,664
1998				1,327	6,787	5,655	1,422	207	2,020	2,380			19,798
1999				73	3,990	4,878	1,937	432	3,787	2,138			17,235
2000				7,510	31,034	11,091	2,680	749	5,148	4,674			62,886
2001				96,386	61,247	31,686	6,792	1,082	12,222	4,953	356	2	214,726
2002		1		1,807	60,391	32,782	6,846	1,493	12,631	3,374	96	8	119,429
2003		2		32,082	29,615	26,129	5,838	829	14,048	5,917	433	9	114,902
2004				21,955	34,443	16,941	3,946	473	19,087	3,888	264	1	100,998
2005				599	16,952	11,484	3,638	679	10,362	2,839			46,553
2006				10	14,632	10,859	4,432	1,108	9,228	4,426			44,695
Total		3		230,132	561,944	298,814	122,525	15,512	115,424	44,441	1,732	28	1,390,555
**1972-1981													
10-Year Average				5,003	18,657	6,421	4,851	498	981	421			36,837
1997-2006													
10-Year Average				16,227	28,607	16,827	4,054	735	8,984	3,538			79,089

**1981 was the last year visual counts were made at Little Goose Project until 1991.

*Jacks included

Includes 2001 extended season counts for November and December 0600-1600 PST.

Includes 2002 extended season counts for February and March 0800-1600 PST and November and December 0600-1600 PST.

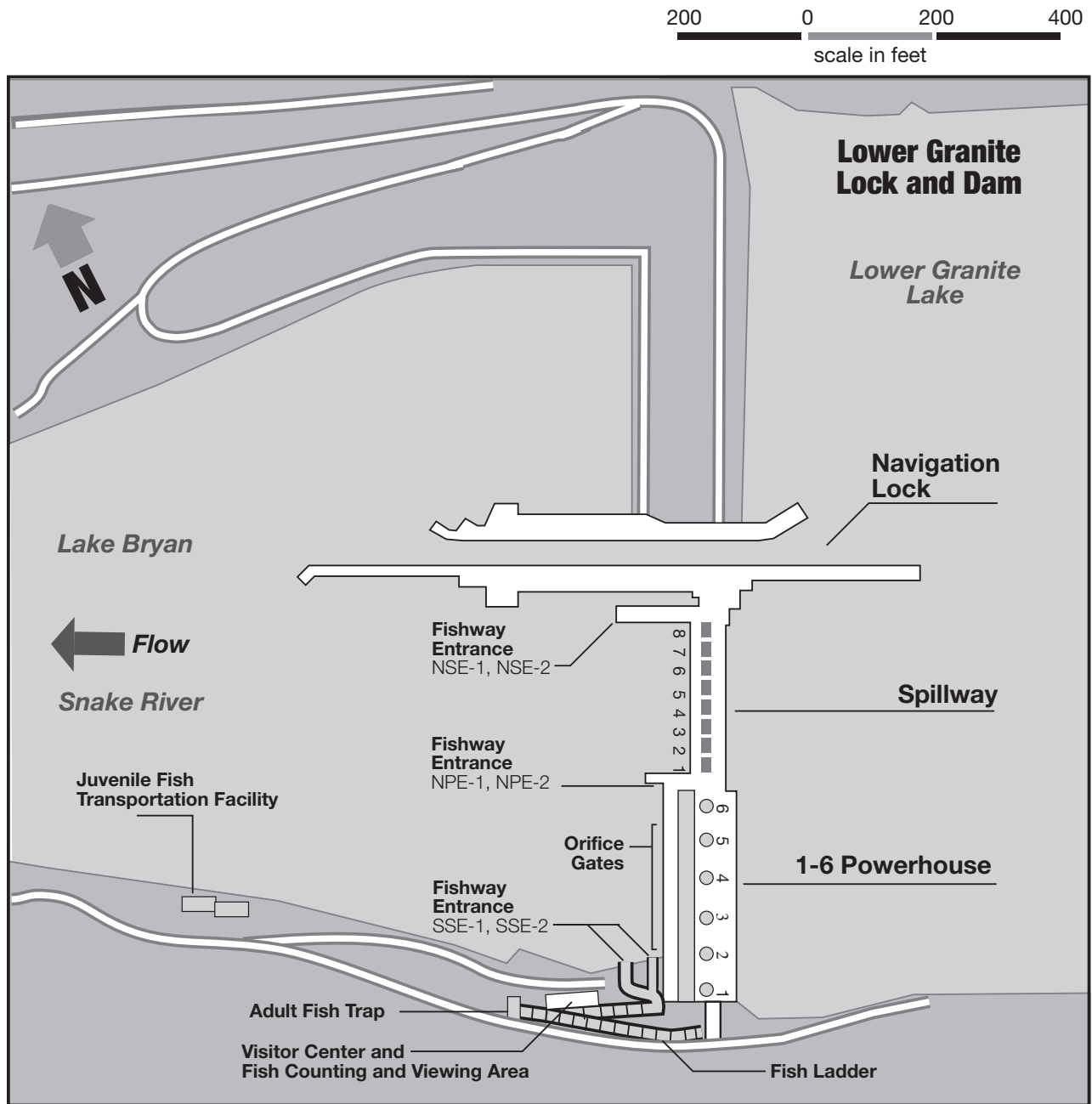
Includes 2003 - 2004 extended season counts for January, February, and March 0800-1600 PST and November and December 0600-1600 PST.

TABLE 117
MONTHLY COUNT OF STEELHEAD
LITTLE GOOSE DAM
1970 - 1981, 1991 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1970			3,346	4,148	1,762	167	1,485	7,487	27,898	11,931	1,136	280	59,640
1971			586	1,968	1,319	85	1,286	3,337	38,988	19,674	2,161	609	70,013
1972	248	251	943	2,565	720	54	1,209	6,637	25,089	24,323	1,258	341	63,638
1973	133	80	1,029	2,051	829	65	1,249	2,856	16,650	12,420	1,129	319	38,810
1974	191	294	543	1,105	278	5	726	2,203	3,970	4,721	583	165	14,784
1975	96	75	70	732	472	16	390	3,433	6,230	3,711			15,225
1976				1,052	345	133	678	3,556	8,988	6,142			20,894
1977				1,340	272	155	1,951	2,738	18,753	22,179			47,388
1978				1,625	216	20	593	2,617	11,547	8,309			24,927
1979				742	222	16	1,614	2,326	5,278	10,851			21,049
1980				3,063	668	43	821	3,858	15,305	14,869			38,627
1981				1,360	424	119	1,740	2,024	11,559	21,454			38,680
**													
1991				804	266	99	1,637	559	31,818	53,734	7,913		96,830
1992				472	189	141	997	2,652	54,585	48,870	9,792		117,698
1993				1,569	343	322	3,601	5,891	12,770	32,357	2,887		59,740
1994				771	148	162	1,522	2,239	8,828	25,830	6,315		45,815
1995				1,130	232	107	1,644	5,743	31,493	37,395			77,744
1996				936	99	105	1,489	7,560	40,468	31,546			82,203
1997				1,208	197	92	1,919	6,629	25,883	38,291			74,219
1998				1,924	107	139	1,090	912	12,939	46,642			63,753
1999				841	78	61	1,796	7,444	33,818	21,433			65,471
2000				841	112	384	3,355	5,361	54,244	36,733			101,030
2001				1,818	179	1,505	9,814	17,590	111,452	90,311	20,313	8150	261,132
2002		1,387	3,342	5,873	294	455	5,853	21,066	86,596	83,357	5,483	1545	215,251
2003	310	2,067	6,744	2,001	109	586	4,741	6,701	81,173	65,715	5,020	1026	176,193
2004	106	911	2,702	1,814	87	524	3,133	4,118	83,925	48,491	4,326	1269	151,406
2005				896	128	494	2,528	5,165	62,611	71,715			143,537
2006				2,569	120	129	978	3,547	54,727	62,370			124,440
Total	1,084	5,065	19,305	47,218	10,215	6,183	59,839	146,249	977,585	955,374	68,316	13,704	2,310,137
1972-1981													
10-Year Average				1,564	445	63	1,097	3,225	12,337	12,898			32,402
1997-2006													
10-Year Average				1,979	141	437	3,521	7,853	60,737	56,506			137,643

** 1981 was the last year visual counts were made at Little Goose Project until 1991.
Includes 2001 extended season counts for November and December 0600-1600 PST.
Includes 2002 extended season counts for February and March 0800-1600 PST and November and December 0600-1600 PST.
Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST and November and December 0600-1600 PST.

Plate 9 Lower Granite Lock and Dam



LOWER GRANITE DAM

FISH COUNTING SCHEDULE

1 Jan -28 Feb	No counting.
1 Mar – 31 Mar	Video counting daily 0600 – 1600 hours PST.
1 Apr – 31 Oct	Visual counting daily 0400 – 2000 hours PST.
15 Jun – 31 Aug	Video counting daily 2000 – 0400 hours PST.
1 Nov – 15 Dec	Video counting daily 0600 – 1600 hours PST.
16 Dec- 31 Dec	No counting.

FISH LADDER OPERATING SCHEDULE

Project Ladder

1 Jan – 2 Jan	Ladder in service
3 Jan – 16 Feb	Ladder dewatered for annual maintenance.
17 Feb – 31 Dec	Ladder in service

FISHWAY ACTIVITIES

Water temperatures were recorded hourly from fish ladder exit pool and the downstream end of the primary dewaterer. Hourly readings were recorded from 16 June to 15 September. The purpose was to determine if summer spill has any effects on exit pool temperatures and water from the primary dewaterer.

Modification to the fish ladder was completed with the installation of new aluminum weir crests in the ladder and installation of new steel walls, picketed leads, and diffuser grating. This was to reduce delay in adult fish passage and increase the velocity of water through the ladder.

Adult fish trap was operated from 1 March through 22 November. The trap was shut down during part of the summer due to high water temperature on 24 July through 21 August. Trap was back in operation on 1 September. The trap was used for the following studies: 1) sampling 13% of the fall Chinook for run reconstruction by WDFW, 2) sampling 13% of the wild / natural steelhead for A run and B run component by IDFG, 3) collecting fall Chinook broodstock for the Lyons Ferry Hatchery and Nez Perce Tribal Hatchery, 4) radio-tagging unlisted hatchery steelhead and scale sampling for run composition analysis by USFWS, and 5) using the separation by code system for fall Chinook as part of a early life history study by NMFS.

The juvenile fish facility was operated for fish transport/bypass and adult fallbacks from 25 March to 18 December.

TABLE 118

MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER LOWER GRANITE DAM
MARCH 1 THROUGH DECEMBER 15, 2006

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				4	14,325	12,477	3,927	1,053	8,630	5,332	240	4	45,992
STEELHEAD			3,467	3,924	200	87	691	2,063	50,958	68,063	14,958	1,580	145,991
SOCKEYE						1	13	0	1	1	1		17
COHO*									451	906	77		1,434
PINK													0
TOTAL			3,467	3,928	14,525	12,565	4,631	3,116	60,040	74,302	15,276	1,584	193,434
SHAD					4	168	5,726	2,025					7,923
LAMPREY					2	2	11	18	4	-2			35

*Jacks included

These counts include the extended season videotaped counts that were made between 0600 and 1600 hours in November and December. Shad are not counted after September 1st.

TABLE 119

DISCHARGE AND WATER DATA
LOWER GRANITE PROJECT 2006

	JANUARY					FEBRUARY			
	DISCH KCFS	SPILL KCFS	*TURBIDITY			DISCH KCFS	SPILL KCFS	*TURBIDITY	
			SECCHI	* DEG F			SECCHI	* DEG F	
Jan 1	63.8	0.0			Feb 1	42.2	0.0		
Jan 2	73.4	0.0			Feb 2	47.7	0.0		
Jan 3	54.8	0.0			Feb 3	51.3	0.0		
Jan 4	52.3	0.0			Feb 4	51.2	0.0		
Jan 5	41.5	0.0			Feb 5	58.2	0.0		
Jan 6	44.3	0.0			Feb 6	50.1	0.0		
Jan 7	40.4	0.0			Feb 7	53.2	0.0		
Jan 8	29.4	0.0			Feb 8	42.7	0.0		
Jan 9	32.8	0.0			Feb 9	48.8	0.0		
Jan 10	39.4	0.0			Feb 10	50.2	0.0		
Jan 11	54.1	0.0			Feb 11	49.8	0.0		
Jan 12	44.0	0.0			Feb 12	50.4	0.0		
Jan 13	48.0	0.0			Feb 13	47.0	0.0		
Jan 14	43.3	0.0			Feb 14	46.7	0.0		
Jan 15	39.2	0.0			Feb 15	47.2	0.0		
Jan 16	42.3	0.0			Feb 16	41.0	0.0		
Jan 17	33.3	0.0			Feb 17	41.7	0.0		
Jan 18	40.3	0.0			Feb 18	40.7	0.0		
Jan 19	34.9	0.0			Feb 19	39.7	0.0		
Jan 20	40.0	0.0			Feb 20	41.7	0.0		
Jan 21	37.2	0.0			Feb 21	43.5	0.0		
Jan 22	35.0	0.0			Feb 22	39.5	0.0		
Jan 23	33.9	0.0			Feb 23	38.8	0.0		
Jan 24	39.9	0.0			Feb 24	37.7	0.0		
Jan 25	36.9	0.0			Feb 25	35.4	0.0		
Jan 26	42.0	0.0			Feb 26	35.7	0.0		
Jan 27	37.0	0.0			Feb 27	38.2	0.0		
Jan 28	34.5	0.0			Feb 28	39.9	0.0		
Jan 29	33.8	0.0							
Jan 30	36.3	0.0							
Jan 31	42.8	0.0							
AVG.	42.0	0.0			AVG.	44.7	0.0		

*Data unavailable.

TABLE 120

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER GRANITE PROJECT
MARCH 2006

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Mar 1								41	4			51.3	0.0	4.0	38.8
Mar 2								26	6			43.4	0.0	3.8	39.0
Mar 3								102	23			36.4	0.0	4.0	39.3
Mar 4								282	48			48.5	0.0	*	39.9
Mar 5								412	42			45.0	0.0	*	40.5
Mar 6								136	16			52.1	0.0	3.0	40.8
Mar 7								135	25			48.9	0.0	3.5	40.3
Mar 8								77	13			52.5	0.0	3.6	40.3
Mar 9								101	29			53.5	0.0	*	40.4
Mar 10								28	10			51.6	0.0	*	40.2
Mar 11								102	20			48.4	0.0	*	40.4
Mar 12								104	23			49.8	0.0	6.0	40.5
Mar 13								60	19			49.3	0.0	6.0	40.0
Mar 14								24	5			51.5	0.0	3.5	39.9
Mar 15								28	13			51.7	0.0	3.5	39.7
Mar 16								43	7			46.4	0.0	4.6	39.9
Mar 17								30	9			47.9	0.0	3.0	40.3
Mar 18								135	36			45.2	0.0	3.0	41.4
Mar 19								163	31			49.0	0.0	3.0	41.8
Mar 20								39	16			43.9	0.0	3.0	42.4
Mar 21								75	16			51.1	0.0	3.6	43.1
Mar 22								67	17			38.2	0.0	3.8	43.1
Mar 23								102	29			47.7	0.0	6.0	43.4
Mar 24								129	34			46.9	0.0	3.0	43.3
Mar 25								130	36			48.6	0.0	3.5	43.7
Mar 26								112	28			54.3	0.0	3.2	44.1
Mar 27								91	27			65.1	0.0	6.0	44.2
Mar 28								129	27			66.1	0.0	*	44.5
Mar 29								158	31			63.2	0.0	*	44.5
Mar 30								233	57			63.7	0.0	*	44.2
Mar 31								173	24			68.9	0.0	2.8	44.5
TOTAL								3,467	721						
AVG.								112	23			51.0	0.0	3.9	41.6

*Data unavailable

Note: March counts were from video tape. The counts are 10-hour counts and occurred between 0600-1600 PST.

TABLE 121

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER GRANITE PROJECT
APRIL 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Apr 1	0							218	84			69.4	0.0	2.8	45.0
Apr 2	0							186	55			73.6	0.0	3.0	44.9
Apr 3	0							124	36			72.6	20.8	3.0	45.5
Apr 4	0							179	53			73.8	24.0	*	45.6
Apr 5	0							173	64			95.6	37.0	*	44.9
Apr 6	0							265	92			119.2	35.1	*	46.1
Apr 7	0							223	79			137.2	54.6	2.0	46.6
Apr 8	0							208	50			128.3	42.6	1.2	46.8
Apr 9	0							204	65			129.1	42.9	1.0	46.6
Apr 10	0							138	49			129.4	46.8	*	47.4
Apr 11	0							211	89			126.9	41.1	*	48.0
Apr 12	0							198	76			128.6	45.6	*	48.0
Apr 13	0							172	64			126.9	42.8	1.6	48.1
Apr 14	0							176	79			132.6	46.5	1.6	48.3
Apr 15	0							145	65			143.7	57.6	1.4	48.5
Apr 16	0							114	35			151.5	65.6	1.3	48.4
Apr 17	0							78	19			151.7	66.1	*	47.9
Apr 18	0							118	43			146.2	60.5	*	47.4
Apr 19	0							113	44			138.1	53.3	*	47.8
Apr 20	0							89	32			134.3	48.9	*	47.9
Apr 21	0							104	46			117.5	31.8	1.6	48.7
Apr 22	0							94	40			114.8	29.3	2.1	49.3
Apr 23	0							62	32			119.3	33.7	*	50.0
Apr 24	0							65	34			131.5	45.8	*	50.2
Apr 25	0							48	23			134.1	49.2	*	49.9
Apr 26	0							47	20			132.9	49.1	*	49.7
Apr 27	1							59	29			125.0	39.2	*	49.9
Apr 28	1							37	18			124.7	39.2	2.2	50.0
Apr 29	0							40	26			127.2	42.2	2.0	51.1
Apr 30	2							36	22			139.5	56.0	2.5	52.3

TOTAL 4

3,924 1,463

AVG. 0

131 49

122.5 41.6 2.0 48.0

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	4	0

STEELHEAD	WILD STEELHEAD
7,391	2,184

Note: Visual counts occurred April 1 through October 31. The counts are 16-hour counts and occurred between 0400-2000 PST.

TABLE 122

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER GRANITE PROJECT
MAY 2006

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
May 1	2			0				30	12	0	0	153.1	67.0	*	52.5
May 2	1			0				26	22	0	0	142.0	56.4	*	51.8
May 3	5			0				25	19	0	0	133.6	50.1	*	51.5
May 4	6			0				14	10	0	0	129.1	47.6	*	51.1
May 5	5			0				14	12	0	0	117.4	35.9	2.6	51.3
May 6	13			0				11	8	0	0	119.9	38.4	2.5	51.7
May 7	14			0				8	7	0	0	121.0	39.6	2.6	52.9
May 8	38			0				11	8	0	0	124.4	40.5	2.4	53.8
May 9	53			0				10	8	0	0	116.3	31.8	*	53.2
May 10	70			1				4	4	0	0	107.6	24.7	*	52.5
May 11	76			0				5	5	0	1	99.8	20.3	*	52.2
May 12	139			2				7	5	0	0	101.4	20.3	3.2	52.2
May 13	293			2				6	4	0	0	100.1	20.4	2.5	52.6
May 14	388			7				4	2	0	0	105.4	24.9	*	53.1
May 15	604			8				4	2	0	0	120.4	40.4	*	53.9
May 16	679			19				5	5	0	0	131.6	52.5	2.8	55.0
May 17	1,232			11				5	5	0	0	151.5	66.7	*	55.8
May 18	1,156			24				0	0	0	0	165.7	80.7	2.6	55.5
May 19	1,136			25				2	2	0	0	175.0	90.6	2.1	54.4
May 20	1,138			29				2	2	0	0	187.0	104.2	1.1	53.8
May 21	462			11				0	0	0	0	193.4	110.2	*	52.9
May 22	236			6				0	0	0	0	177.8	95.0	*	53.0
May 23	266			11				0	0	0	0	178.3	94.7	*	52.8
May 24	540			22				1	1	0	0	171.6	90.2	0.9	53.5
May 25	605			17				1	0	0	1	161.8	76.4	*	54.1
May 26	841			34				1	0	0	0	157.2	71.5	1.2	54.3
May 27	668			38				1	1	0	0	141.5	59.6	*	54.6
May 28	1,138			36				1	0	0	0	129.0	54.4	2.2	54.9
May 29	734			44				0	0	0	0	124.1	44.4	*	54.5
May 30	720			38				1	0	4	0	116.0	41.2	*	54.1
May 31	638			44				1	0	0	0	104.1	20.6	2.3	53.8
TOTAL	13,896			429				200	144	4	2				
AVG.	448			14				6	5	0	0	137.3	55.2	2.2	53.3
RUN YEAR		CHINOOK ADULT	CHINOOK JACK					WILD STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY				
TOTALS TO DATE															
SPRING		13,900	429					7,591	2,328	4	2				

*Data Unavailable

TABLE 123

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER GRANITE PROJECT
JUNE 2006

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Jun 1	737			47			0	2	0	0	0	98.4	22.0	*	54.7
Jun 2	892			73			0	5	4	0	0	99.4	20.2	2.4	55.5
Jun 3	896			42			0	2	1	0	0	100.8	23.9	*	56.4
Jun 4	718			38			0	1	0	4	0	114.2	36.3	2.6	57.1
Jun 5	706			43			0	2	0	0	0	115.5	43.9	2.5	57.7
Jun 6	432			50			0	1	1	0	0	118.7	44.3	*	58.2
Jun 7	470			22			0	2	2	0	0	117.2	47.4	2.4	57.5
Jun 8	488			34			0	0	0	0	0	123.6	48.0	*	58.0
Jun 9	526			17			0	4	1	0	0	127.4	50.0	2.4	58.6
Jun 10	244			17			0	1	0	0	0	125.7	59.1	2.4	57.9
Jun 11	180			12			0	1	0	0	1	118.4	68.3	*	57.1
Jun 12	382			23			0	1	0	0	0	106.2	37.6	2.3	57.9
Jun 13	475			28			0	0	0	0	0	101.9	29.5	*	58.3
Jun 14	352			34			0	5	0	5	0	100.8	42.9	*	58.2
Jun 15	329			12			0	4	0	1	0	112.8	36.2	*	58.4
Jun 16	473			24			0	2	0	2	0	100.2	25.9	2.6	57.9
Jun 17	330			28			0	2	1	0	0	94.1	20.2	2.4	58.5
Jun 18		388		26			0	8	0	1	0	87.8	20.2	2.4	58.4
Jun 19		300		28			0	2	0	5	0	79.7	20.3	*	58.9
Jun 20		235		10			0	5	1	8	0	69.4	20.3	*	60.0
Jun 21		319		20			0	2	0	1	0	67.5	20.2	*	61.0
Jun 22		316		19			0	5	0	4	0	64.5	20.0	*	61.6
Jun 23		293		17			1	1	0	2	0	60.3	18.2	3.3	62.5
Jun 24		228		16			0	0	0	0	0	61.0	18.2	3.6	63.1
Jun 25		192		16			0	8	1	6	1	55.8	18.0	*	63.3
Jun 26		112		6			0	1	0	12	0	58.0	18.2	3.5	63.9
Jun 27		118		8			0	6	1	29	0	57.5	18.0	3.5	64.9
Jun 28		96		7			0	2	0	11	0	52.4	18.1	*	66.2
Jun 29		268		24			0	5	1	25	0	55.2	18.0	*	66.9
Jun 30		221		20			0	7	4	52	0	52.2	18.2	5.0	67.9
TOTAL	8,630	3,086		761			1	87	18	168	2				
AVG.	508	237		25			0	3	1	6	0	89.9	30.1	2.9	59.9

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	22,530	973
SUMMER	3,086	217
TOTAL	25,616	1,190

SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
1	7,678	2,346	172	4

Note: 1 Bull Trout was seen on June 23.

TABLE 124

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER GRANITE PROJECT
JULY 2006

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Jul 1		227		30			0	15	4	270	0	52.2	18.2	*	67.4
Jul 2		169		17			0	7	0	276	0	46.7	18.1	4.5	67.7
Jul 3		167		17			0	12	1	210	1	45.1	17.9	4.5	66.4
Jul 4		43		1			0	1	0	350	0	45.9	18.2	*	66.7
Jul 5		98		12			0	10	4	166	0	43.6	17.8	*	68.7
Jul 6		118		13			0	5	1	101	1	46.0	18.1	*	69.0
Jul 7		178		31			2	27	8	140	1	46.5	18.2	5.0	69.0
Jul 8		164		29			0	23	5	140	0	46.9	18.0	5.0	69.2
Jul 9		174		22			0	30	7	90	0	48.9	17.8	5.0	68.2
Jul 10		180		13			2	35	11	338	0	46.3	18.1	4.5	67.0
Jul 11		140		20			1	33	4	95	0	46.1	17.9	*	66.1
Jul 12		174		25			0	29	5	120	0	48.5	18.2	*	66.7
Jul 13		173		19			1	25	5	112	0	47.4	18.1	*	66.8
Jul 14		185		13			1	38	8	150	0	45.0	18.2	5.0	67.2
Jul 15		152		4			1	33	7	86	0	40.7	17.9	*	66.9
Jul 16		121		8			2	29	7	270	1	42.5	18.2	5.0	66.8
Jul 17		145		8			0	21	4	126	0	39.0	18.3	5.0	66.9
Jul 18		144		7			1	18	5	95	1	38.6	18.1	*	66.9
Jul 19		100		16			0	32	7	144	0	42.4	18.1	5.0	67.5
Jul 20		140		10			0	55	14	205	0	39.0	17.9	*	67.2
Jul 21		110		25			0	36	5	185	0	37.6	17.9	*	67.1
Jul 22		41		5			1	17	6	206	-1	42.6	17.3	5.0	67.2
Jul 23		32		2			0	10	6	278	0	38.2	16.4	*	66.8
Jul 24		35		5			0	10	2	348	0	39.8	16.4	*	67.6
Jul 25		58		4			0	17	1	281	0	39.2	16.5	5.0	67.2
Jul 26		35		8			0	7	-1	204	1	37.3	16.5	5.0	66.7
Jul 27		16		2			0	7	5	157	2	33.5	16.5	*	68.1
Jul 28		106		12			1	20	6	212	2	32.8	17.0	5.0	68.1
Jul 29		49		4			0	19	7	106	1	32.0	18.0	5.0	66.4
Jul 30		25		2			0	27	8	138	1	33.7	18.0	5.0	66.4
Jul 31		38		6			0	43	12	127	0	31.6	17.8	*	66.8
TOTAL		3,537		390			13	691	164	5,726	11				
AVG.		114		13			0	22	5	185	0	41.8	17.7	4.9	67.3

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	22,530	973
SUMMER	6,623	607
TOTAL	29,153	1,580

SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
14	8,369	2,510	5,898	15

Note: 1 Bull Trout was seen on July 13.

TABLE 125

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER GRANITE PROJECT
AUGUST 2006

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Aug 1		68		6				63	19	346	0	29.1	16.6	5.0	67.2
Aug 2		68		5				62	22	264	1	25.5	13.1	*	67.0
Aug 3		35		12				35	10	260	1	25.3	12.9	*	66.0
Aug 4		36		5				20	8	281	0	28.1	15.9	5.0	65.5
Aug 5		13		4				43	8	126	4	30.2	16.5	5.0	65.2
Aug 6		14		1				13	2	130	0	30.8	17.0	*	65.2
Aug 7		17		1				7	0	82	0	31.0	18.1	5.0	67.0
Aug 8		25		2				35	6	101	1	29.2	16.0	*	65.0
Aug 9		14		2				21	8	47	1	30.1	16.8	5.0	64.9
Aug 10		8		0				30	10	43	0	30.6	18.1	*	65.8
Aug 11		26		1				37	7	20	0	30.1	18.1	5.0	66.9
Aug 12		19		0				44	14	62	2	29.8	18.1	5.0	65.9
Aug 13		13		2				18	6	19	0	25.7	14.0	5.0	66.5
Aug 14		16		1				18	5	10	0	26.6	14.9	*	66.7
Aug 15		16		2				26	2	25	0	25.6	13.8	*	66.5
Aug 16		28		5				40	6	52	0	28.2	15.8	5.0	65.6
Aug 17		19		6				66	8	58	0	29.2	17.6	5.0	65.5
Aug 18			10	6				36	12	16	0	27.0	15.1	5.0	65.0
Aug 19			20	7				34	12	1	0	26.6	14.9	5.0	66.7
Aug 20			17	1				56	13	11	0	27.0	14.9	5.0	64.9
Aug 21			14	4				37	8	6	1	29.3	17.6	5.0	65.4
Aug 22			31	2				59	22	17	2	30.2	18.3	5.0	65.4
Aug 23			35	6				44	8	13	0	30.5	18.3	5.0	65.6
Aug 24			67	6				159	38	10	0	28.7	17.0	5.0	65.6
Aug 25			59	16				175	56	0	1	24.9	13.2	*	66.4
Aug 26			36	8				180	47	10	1	23.3	11.4	5.0	65.7
Aug 27			44	4				152	36	10	0	21.7	9.7	5.0	66.3
Aug 28			17	6				95	23	0	0	21.6	9.8	5.0	67.5
Aug 29			30	7				43	6	0	0	23.2	16.3	5.0	68.0
Aug 30			43	10				153	47	4	2	25.8	20.2	5.0	65.1
Aug 31			44	13				262	60	1	1	27.2	21.9	5.0	65.8
TOTAL		435	467	151				2,063	529	2,025	18				
AVG		26	33	5				67	17	65	1	27.5	15.9	5.0	66.0

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	22,530	973
SUMMER	7,058	662
FALL	467	96
TOTAL	30,055	1,731

SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
14	10,432	3,039	7,923	33

TABLE 126

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER GRANITE PROJECT
SEPTEMBER 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
														SECCHI	DEG F
Sep 1			102	34	0	0	0	575	144		0	24.3	17.3	5.0	66.1
Sep 2			158	20	0	0	0	554	112		0	20.9	0.0	5.0	66.3
Sep 3			137	32	0	0	0	485	133		0	24.5	0.0	5.0	66.7
Sep 4			91	16	0	0	0	472	100		0	21.9	0.0	5.0	66.0
Sep 5			60	10	0	0	0	272	61		0	25.5	0.0	5.0	65.4
Sep 6			73	23	0	0	0	264	59		0	25.6	0.0	5.0	64.9
Sep 7			107	36	0	0	0	250	47		1	28.2	0.0	5.0	64.3
Sep 8			134	34	1	0	0	324	65		0	24.8	0.0	5.0	64.6
Sep 9			199	70	1	0	0	370	86		0	21.0	0.0	5.0	65.0
Sep 10			385	116	0	0	0	972	205		0	22.0	0.0	5.0	64.7
Sep 11			170	71	0	0	0	597	130		0	24.6	0.0	5.0	65.2
Sep 12			364	167	0	0	0	925	182		0	23.2	0.0	5.0	66.1
Sep 13			238	122	0	0	0	1,298	268		0	23.9	0.0	5.0	66.5
Sep 14			281	164	5	1	0	2,542	539		0	20.2	0.0	5.0	66.3
Sep 15			293	115	6	1	0	2,064	439		1	19.5	0.0	5.0	66.0
Sep 16			355	179	5	6	0	2,924	618		1	14.1	0.0	5.0	65.4
Sep 17			354	126	7	2	0	2,594	541		0	15.7	0.0	5.0	65.1
Sep 18			226	125	5	4	0	2,125	414		1	15.7	0.0	5.0	64.7
Sep 19			226	150	18	8	0	2,178	416		0	18.0	0.0	5.0	64.9
Sep 20			120	112	14	8	0	3,008	580		0	20.3	0.0	5.0	64.3
Sep 21			208	170	22	14	0	3,517	673		-1	19.8	0.0	*	*
Sep 22			172	90	18	11	0	3,128	620		-1	22.0	0.0	*	*
Sep 23			240	91	20	5	0	2,125	403		1	21.9	0.0	*	*
Sep 24			226	103	11	1	0	2,597	449		1	20.0	0.0	*	64.7
Sep 25			91	107	12	1	0	2,815	534		0	18.5	0.0	5.0	64.9
Sep 26			164	80	43	6	0	2,695	464		0	21.5	0.0	5.0	64.3
Sep 27			182	110	56	11	1	2,562	520		0	20.7	0.0	5.0	63.7
Sep 28			173	104	54	6	0	1,917	386		0	22.9	0.0	*	*
Sep 29			113	112	20	10	0	2,695	522		0	20.6	0.0	5.0	64.4
Sep 30			149	150	26	12	0	2,114	390		0	21.2	0.0	5.0	64.4
TOTAL			5,791	2,839	344	107	1	50,958	10,100		4				
AVG.			193	95	11	4	0	1,699	337		0	21.4	0.6	5.0	65.2

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	22,530	973
SUMMER	7,058	662
FALL	6,258	2,935
TOTAL	35,846	4,570

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
344	107	15	61,390	13,139	7,923	37

TABLE 127

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER GRANITE PROJECT
OCTOBER 2006

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Oct 1			161	224	28	10	0	2,809	601		0	19.6	0.0	5.0	64.2
Oct 2			137	197	42	19	0	3,166	656		0	21.4	0.0	5.0	64.1
Oct 3			101	179	26	6	0	3,662	682		0	18.3	0.0	5.0	64.3
Oct 4			108	115	23	5	0	3,156	571		0	22.0	0.0	5.0	64.3
Oct 5			96	192	29	2	0	4,211	823		0	21.2	0.0	*	*
Oct 6			74	204	23	5	0	3,593	660		0	20.2	0.0	5.0	63.6
Oct 7			125	252	29	16	0	5,399	1,063		0	19.9	0.0	4.8	64.0
Oct 8			127	392	25	25	0	4,138	844		-1	21.3	0.0	4.4	63.9
Oct 9			47	113	20	5	0	1,786	370		0	17.1	0.0	3.8	63.7
Oct 10			86	316	31	13	0	3,176	582		0	19.3	0.0	*	*
Oct 11			60	274	42	13	0	3,830	706		0	25.9	0.0	*	*
Oct 12			47	161	29	7	0	2,799	598		0	22.6	0.0	5.0	62.7
Oct 13			92	109	30	13	0	2,780	571		-1	23.2	0.0	*	*
Oct 14			77	114	16	4	1	2,503	481		0	22.3	0.0	3.8	62.3
Oct 15			23	74	24	4	0	1,498	268		-1	22.2	0.0	*	*
Oct 16			46	64	19	0	0	2,031	409		0	15.6	0.0	5.0	61.1
Oct 17			22	56	25	7	0	783	149		0	21.5	0.0	4.5	60.4
Oct 18			53	53	25	4	0	1,739	361		0	15.4	0.0	4.3	61.1
Oct 19			20	56	17	4	0	1,568	304		0	15.2	0.0	*	*
Oct 20			38	50	46	1	0	1,338	308		0	17.4	0.0	5.0	61.0
Oct 21			14	52	14	0	0	1,356	265		0	16.5	0.0	5.0	60.8
Oct 22			25	52	18	1	0	1,158	253		0	18.4	0.0	5.0	59.9
Oct 23			20	50	17	2	0	1,014	216		0	18.0	0.0	*	*
Oct 24			14	37	11	2	0	698	130		0	18.2	0.0	*	*
Oct 25			20	40	22	6	0	1,631	324		0	16.1	0.0	4.0	59.1
Oct 26			17	38	20	0	0	1,076	226		1	16.2	0.0	3.7	59.0
Oct 27			17	31	23	1	0	1,044	262		0	17.0	0.0	5.0	*
Oct 28			13	34	8	1	0	1,082	242		0	16.8	0.0	*	*
Oct 29			14	35	17	1	0	1,069	218		0	16.7	0.0	*	*
Oct 30			6	28	7	0	0	1,043	223		0	14.3	0.0	5.0	54.3
Oct 31			16	24	19	4	0	927	244		0	16.9	0.2	*	*
TOTAL			1,716	3,616	725	181	1	68,063	13,610		-2				
AVG.			55	117	23	6	0	2,196	439		0	18.9	0.0	4.7	61.8

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	22,530	973
SUMMER	7,058	662
FALL	7,974	6,551
TOTAL	37,562	8,186

COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
1,069	288	16	129,453	26,749	7,923	35

Note: Visual counts ended October 31.

TABLE 128

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER GRANITE PROJECT
NOVEMBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Nov 1			0	9	12	2	0	355	71			16.0	0.0	5.0	*
Nov 2			3	20	16	1	0	495	95			26.8	0.0	*	*
Nov 3			1	3	6	1	0	451	80			15.6	0.0	*	*
Nov 4			6	10	2	1	0	418	65			12.8	0.0	*	*
Nov 5			4	12	2	0	0	367	73			12.0	0.0	*	*
Nov 6			7	16	2	0	0	366	63			12.6	0.0	5.0	*
Nov 7			2	4	0	0	0	232	31			22.1	0.0	5.0	*
Nov 8			1	3	0	0	0	305	49			29.8	0.0	5.0	*
Nov 9			4	4	2	0	0	305	93			56.2	0.0	*	*
Nov 10			3	13	2	0	0	298	80			47.3	0.0	*	*
Nov 11			1	4	5	0	0	474	150			37.9	0.0	*	*
Nov 12			8	7	6	0	0	570	119			30.2	0.0	*	*
Nov 13			3	2	4	0	0	324	105			28.8	0.0	4.2	*
Nov 14			3	2	5	0	0	597	136			28.2	0.0	3.9	*
Nov 15			0	0	3	0	0	572	129			21.5	0.0	3.9	*
Nov 16			1	2	3	0	0	586	80			28.0	0.0	3.8	*
Nov 17			1	4	1	0	0	593	102			23.7	0.0	*	*
Nov 18			3	2	0	0	0	790	138			24.2	0.0	*	*
Nov 19			0	0	0	0	0	1,043	202			25.9	0.0	*	*
Nov 20			1	0	0	0	0	394	81			22.8	0.0	4.5	*
Nov 21			5	14	0	0	0	586	157			23.9	0.0	5.0	*
Nov 22			3	21	0	0	0	697	113			24.0	0.0	5.0	*
Nov 23			4	3	0	0	0	631	103			27.2	0.0	*	*
Nov 24			8	5	0	0	0	690	106			23.2	0.0	*	*
Nov 25			-2	3	0	0	0	709	136			26.7	0.0	*	*
Nov 26			-2	1	0	0	0	659	58			27.3	0.0	*	*
Nov 27			1	0	1	0	1	374	65			23.5	0.0	5.0	*
Nov 28			0	1	0	0	0	383	76			22.2	0.0	5.0	*
Nov 29			1	3	0	0	0	290	44			23.1	0.0	*	*
Nov 30			1	1	0	0	0	404	74			22.1	0.0	5.0	*
TOTAL			71	169	72	5	1	14,958	2,874						
AVG.			2	6	2	0	0	499	96			25.5	0.0	4.7	

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
TOTALS TO DATE									
SPRING	22,530	973	1,141	293	17	144,411	29,623	7,923	35
SUMMER	7,058	662							
FALL	8,045	6,720							
TOTAL	37,633	8,355							

Note: From November 1 to December 15, counts were from video tape. The counts are 10-hour counts and occurred between 0600-1600 PST.

TABLE 129

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER GRANITE PROJECT

DECEMBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL											SECCHI	DEG F	
Dec 1			0	1				250	43			24.3	0.0	*	*	
Dec 2			-2	0				184	36			25.6	0.0	*	*	
Dec 3			5	0				220	50			23.5	0.0	*	*	
Dec 4			0	0				53	7			18.2	7.1	5.0	*	
Dec 5			0	0				20	4			15.2	9.8	*	*	
Dec 6			0	0				15	5			15.2	9.9	5.0	*	
Dec 7			0	0				28	3			18.7	5.0	5.0	*	
Dec 8			0	0				103	11			18.2	0.0	*	*	
Dec 9			0	0				49	4			20.5	0.0	*	*	
Dec 10			0	0				114	10			22.8	0.0	*	*	
Dec 11			0	0				50	3			24.1	0.0	*	*	
Dec 12			0	0				25	3			20.6	0.0	*	*	
Dec 13			0	0				40	4			22.5	0.0	*	*	
Dec 14			0	0				93	4			36.8	0.0	5.0	*	
Dec 15			0	0				336	26			29.9	0.0	*	*	
Dec 16												40.1	0.0	*	*	
Dec 17												31.7	0.0	*	*	
Dec 18												30.5	0.0	4.5	42.6	
Dec 19												28.6	0.0	5.0	41.5	
Dec 20												25.6	0.0	*	*	
Dec 21												24.0	0.0	4.7	41.0	
Dec 22												26.0	0.0	*	*	
Dec 23												25.8	0.0	*	*	
Dec 24												28.9	0.0	*	*	
Dec 25												23.5	0.0	*	*	
Dec 26												19.4	0.0	4.4	40.0	
Dec 27												29.9	0.0	5.0	40.0	
Dec 28												32.2	0.0	5.0	*	
Dec 29												39.0	0.0	*	39.0	
Dec 30												37.1	0.0	*	*	
Dec 31												27.1	0.0	*	*	
TOTAL			3	1				1,580	213							
AVG.			0	0				105	14			26.0	1.0	4.9	40.7	

*Data unavailable.

RUN YEAR	CHINOOK		COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
	ADULT	JACK							
TOTALS TO DATE									
SPRING	22,530	973	1,141	293	17	145,991	29,836	7,923	35
SUMMER	7,058	662							
FALL	8,048	6,721							
TOTAL	37,636	8,356							

Note: From November 1 to December 15, counts were from video tape. The counts are 10-hour counts and occurred between 0600-1600 PST. Official Fall Chinook run ended December 15.

TABLE 130

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
LOWER GRANITE DAM
1975 - 2006**

YEAR	CHINOOK*	STEELHEAD	SOCKEYE	COHO*	TOTALS
1975	28,460	17,311	209	921	46,901
1976	31,667	23,017	531	900	56,115
1977	49,123	53,037	458	268	102,886
1978	54,246	30,068	123	152	84,589
1979	12,548	25,046	25	158	37,777
1980	10,986	40,454	96	43	51,579
1981	19,198	40,234	218	17	59,667
1982	19,476	72,840	211	59	92,586
1983	16,200	86,234	122	51	102,607
1984	16,517	98,923	49	0	115,489
1985	36,567	118,463	35	2	155,067
1986	43,023	134,519	15	1	177,558
1987	37,677	70,151	29	0	107,857
1988	37,882	87,040	23	0	124,945
1989	19,557	132,579	2	0	152,138
1990	23,345	56,859	0	0	80,204
1991	13,618	100,381	8	0	114,007
1992	26,193	121,459	15	0	147,667
1993	30,446	66,699	12	0	97,157
1994	5,077	47,550	5	0	52,632
1995	3,702	80,853	3	0	84,558
1996	11,129	86,072	3	0	97,204
1997	46,727	85,917	11	92	132,747
1998	18,557	72,017	2	12	90,588
1999	15,884	74,370	14	262	90,530
2000	62,659	113,211	299	925	177,094
2001	210,381	262,568	36	1,087	474,072
2002	119,304	218,718	55	395	338,472
2003	119,676	180,672	11	1,265	301,624
2004	109,061	154,389	113	3,904	267,467
2005	49,530	155,783	18	2,183	207,514
2006	45,992	145,991	17	1,434	193,434
Total	1,344,408	3,053,425	2,768	14,131	4,414,732
10-Year Average	79,777	146,364	58	1,156	227,354

*Jacks included

TABLE 131

**MONTHLY COUNT OF CHINOOK SALMON
LOWER GRANITE DAM
1975 -2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS*
1975				1	11,693	8,722	4,854	1,183	1,462	474	71		28,460
1976				149	14,358	10,438	5,074	428	605	535	80		31,667
1977				12,824	22,892	6,718	4,622	203	961	776	125	2	49,123
1978				3,329	29,983	11,464	6,976	1,234	698	519	42	1	54,246
1979				234	4,461	4,455	1,794	256	1,003	302	43		12,548
1980				328	5,227	2,558	1,916	241	345	343	28		10,986
1981				1,380	10,730	2,713	2,561	92	1,008	677	37		19,198
1982				42	9,121	4,650	3,217	329	1,399	650	62	6	19,476
1983				113	7,676	3,551	3,167	234	828	552	79		16,200
1984				134	4,915	5,602	4,274	303	719	522	48		16,517
1985				1,429	20,384	10,466	1,971	281	1,285	697	53	1	36,567
1986				3,623	26,434	7,472	2,796	137	1,250	1,136	172	3	43,023
1987			1	4,836	22,217	5,578	3,532	216	664	508	116	9	37,677
1988				4,722	20,615	8,771	2,654	212	429	371	104	4	37,882
1989				577	10,597	5,771	1,511	225	478	338	60		19,557
1990				2,808	12,925	4,902	2,094	64	248	264	40		23,345
1991				250	4,698	5,177	2,397	72	524	465	35		13,618
1992				6,205	12,170	4,783	1,998	110	576	288	63		26,193
1993				638	15,627	9,728	3,095	281	736	300	41		30,446
1994				99	2,283	1,180	436	73	422	539	45		5,077
1995				22	870	936	438	113	757	539	27		3,702
1996				38	3,415	4,260	1,557	210	1,133	471	45		11,129
1997				222	22,323	18,376	3,690	274	1,159	631	52		46,727
1998			1	942	6,330	5,398	1,877	175	1,495	2,200	138	1	18,557
1999				36	3,358	4,886	2,214	396	3,017	1,832	143	2	15,884
2000				5,984	30,609	12,074	3,032	564	5,719	4,435	240	2	62,659
2001				90,165	63,007	31,721	7,392	760	11,596	5,319	414	7	210,381
2002			1	1,050	56,456	35,129	8,223	1,102	12,774	4,336	229	4	119,304
2003			10	29,379	30,358	31,808	7,467	817	12,616	6,990	228	3	119,676
2004			1	20,189	42,777	19,382	3,991	410	17,277	4,512	522	0	109,061
2005				327	17,557	11,709	5,320	445	11,295	2,767	105	5	49,530
2006				4	14,325	12,477	3,927	1,053	8,630	5,332	240	4	45,992
Total	14		192,079	560,391	312,855	110,067	12,493	103,108	49,620	3,727	54		1,344,408
10-Year Average			14,830	28,710	18,296	4,713	600	8,558	3,835	231			79,777

*Jacks included

TABLE 132

MONTHLY COUNT OF STEELHEAD

LOWER GRANITE DAM

1975 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1975				1,724	1,065	104	102	3,337	6,396	3,584	703	296	17,311
1976	173	21	181	1,120	575	120	527	3,816	8,720	6,837	860	67	23,017
1977		9	142	1,235	229	59	1,538	2,652	16,296	27,492	2,950	435	53,037
1978	354	716	2,276	2,009	252	9	478	2,721	10,829	9,528	788	108	30,068
1979	12	44	802	962	192	16	1,197	2,602	5,143	11,323	2,487	266	25,046
1980			1,149	3,403	1,172	36	517	3,378	13,291	15,455	2,053		40,454
1981			1,052	1,610	604	98	1,422	1,609	9,391	20,714	3,096	638	40,234
1982			1,778	2,202	1,472	66	817	9,118	20,219	32,850	3,945	373	72,840
1983			3,336	1,416	244	7	1,676	8,899	32,063	34,028	4,425	140	86,234
1984			2,647	3,914	961	40	1,886	3,458	34,709	46,445	4,841	22	98,923
1985			2,474	9,686	856	146	706	5,027	63,074	33,137	3,230	127	118,463
1986			8,179	2,358	163	62	3,031	2,323	39,780	71,426	6,671	526	134,519
1987			2,962	2,951	251	51	783	2,342	16,644	34,235	8,809	1,123	70,151
1988			2,108	4,562	623	173	768	1,806	27,071	43,066	6,307	556	87,040
1989			2,172	4,789	429	99	2,026	4,199	49,256	55,766	13,308	535	132,579
1990			2,728	3,329	174	27	444	364	8,250	26,117	13,872	1,554	56,859
1991			2,422	3,530	285	43	1,009	454	24,610	58,803	7,892	1,333	100,381
1992			1,925	2,789	194	76	725	2,009	47,058	56,284	9,709	690	121,459
1993			3,232	8,118	364	191	2,621	5,298	10,374	32,618	3,702	181	66,699
1994			1,644	3,007	132	97	888	1,693	7,089	25,913	6,772	315	47,550
1995			3,176	1,166	193	33	1,216	3,540	27,585	37,260	5,176	1,508	80,853
1996			1,720	1,017	71	52	1,068	4,218	38,109	34,267	4,607	943	86,072
1997			2,043	1,408	183	65	1,423	5,975	22,424	42,544	9,305	547	85,917
1998			2,390	1,837	107	94	1,001	731	10,295	46,326	7,071	2,165	72,017
1999			2,091	855	92	35	1,333	5,577	35,954	23,694	4,044	695	74,370
2000			1,453	932	94	275	2,907	5,081	57,412	39,501	5,217	339	113,211
2001			3,200	2,365	193	1,087	6,772	11,315	101,289	105,685	24,287	6,375	262,568
2002			4,064	7,992	415	272	4,866	14,234	83,239	93,223	9,360	1,053	218,718
2003			13,038	2,583	182	398	3,169	5,108	71,337	77,100	7,157	600	180,672
2004			4,802	2,662	154	421	2,492	3,227	78,020	55,626	6,480	505	154,389
2005			3,479	1,204	180	433	2,156	3,315	57,231	79,926	6,882	977	155,783
2006			3,467	3,924	200	87	691	2,063	50,958	68,063	14,958	1,580	145,991
Total	539	790	88,132	92,659	12,301	4,772	52,255	131,489	1,084,116	1,348,836	210,964	26,572	3,053,425
10-Yr Average			4,003	2,576	180	317	2,681	5,663	56,816	63,169	9,476	1,484	146,364

PRIEST RAPIDS AND WANAPUM DAMS

FISH COUNTING SCHEDULE – PRIEST RAPIDS DAM

Jan 1 – Apr 14	No adult fish counting.
Apr 12-14	Fish counter orientation and training
Apr 15 – Nov 15	Daily counting 0000-2400 hours via Video Fish-Counting System
Nov 16 – Dec 31	No adult fish counting.

FISH COUNTING SCHEDULE – WANAPUM DAM

Jan 1 – April 14	No adult fish counting.
April 15 – Nov 15	Counting attempted; no counts reported due to VFC system malfunction.
Nov 16 – Dec 31	No adult fish counting.

FISH LADDER OPERATING AND MAINTENANCE SCHEDULE – PRIEST RAPIDS DAM

Left Bank Ladder

01 Jan – 02 Jan	In service.
03 Jan – 29 Mar	Out of criteria for annual inspection, maintenance and repairs.
30 Mar – 13 Nov	In service.
14 Nov – 31 Dec	Out of service for maintenance and OLAF construction.

Right Bank Ladder

01 Jan – 28 Mar	Out of criteria for annual inspection, maintenance and repairs.
29 Mar – 13 Nov	In service.
14 Nov – 31 Dec	In service but out of criteria during left-bank outage.

FISH LADDER OPERATING AND MAINTENANCE SCHEDULE – WANAPUM DAM

Left Bank Ladder

02 Feb – 06 Mar	Out of criteria for annual inspection, maintenance and repairs.
07 Mar – 30 Nov	In service.
01 Dec – 31 Dec	Out of criteria for annual inspection, maintenance and repairs.

Right Bank Ladder

01 Jan – 31 Dec	In service.
-----------------	-------------

Note: Out of criteria dates provided above reflect those periods of time when the adult fishway was out of operational flow and/or head differential criteria. Upstream fish passage is possible for one to several days before and after the indicated dates.

FISHWAY ACTIVITIES

Grant PUD conducted 24-hour fish counts at Priest Rapids Dam via the Video Fish Count (VFC) system. This system involves the use of recorded digital video and does not require 24-hour staffing. Digital video data from the fishways are streamed to processing computers in the fish counting room. These computers filter the data into segments that contain some form of movement, called clips. Fish counters view these clips on computer workstations and count the passing fish. Fish counters were on site seven days per week, 8 hours per day, yet counted 24 hours worth of daily fish passage.

Fish count data from Priest Rapids Dam, 2006, are likely incomplete and should be used with caution. Due to system development and usage issues the data are known to contain inaccuracies; namely posted fish counts are likely underrepresented. Adult counts were attempted at Wanapum Dam but the VFC system issues experienced there were severe and fish counts were not posted as a result. Because of the problems experienced with the VFC system, Grant PUD is implementing a digital video recorder (DVR)-based fish counting system for the 2007 fish counting season. This system is much less reliant on complex technology and is much simpler in form and function than the previous VFC system. The use of the motion filtering-based VFC system will be discontinued until it can be proven to be accurate, reliable, and effective.

All fish passage at both dams will still be captured via streaming digital video from the in-ladder video cameras, but the video data stream will be fed to DVRs rather than processing computers. The recorded data will then be reviewed by fish counters in its entirety. Simply put, all fish passage will be recorded and all fish passage will be reviewed and counted. There will be no filtering of any kind and no manipulation or transferring of data in this improved fish counting process. The DVRs will record and store data until fish counters review the data via PC workstations. Fish counting will be done with a stand-alone Excel-based program developed by Grant PUD.

The PIT-tag detection array at Priest Rapids dam operated continuously when the ladder was operational.

Water velocities in the collection channel at Priest Rapids Dam have been improved and now run consistently at levels within criteria. LEW-5 is being used to manipulate flow through LSE-4 and increase water volumes and velocities through the collection channel. A deployable/removable water velocity meter has been installed at the collection channel at Priest Rapids Dam. Water velocities were verified at each monthly fishway inspection conducted by NOAA Fisheries during the fish passage season.

Washington Department of Fish and Wildlife trapped and examined steelhead at the Priest Rapids Dam coded wire tag trapping facility from 10 July through 12 October. The trap was operated approximately 8 hours per day, usually every Tuesday and Thursday.

An off-ladder adult fish trap is being constructed at Priest Rapids Dam. Its construction is scheduled for completion in May, 2007. The old in-ladder trapping facility will be permanently removed in February, 2007.

TABLE 133

MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER PRIEST RAPIDS DAM
2006

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				20	6,690	18,220	37,061	8,234	11,115	4,794	952		87,086
STEELHEAD				18	26	87	983	2,934	5,583	723	54		10,408
SOCKEYE						6,184	20,430	90	5	1			26,710
COHO*								73	1,420	2,144	176		3,813
PINK													
TOTAL				38	6,716	24,491	58,474	11,331	18,123	7,662	1,182		128,017
SHAD						12	248	26	-5				281
LAMPREY					1	134	752	1,812	1,454	228			4,381

*Jacks included

TABLE 134

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

PRIEST RAPIDS PROJECT
APRIL 2006

DATE	FISH COUNTS										RIVER CONDITIONS					
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY			
	SPRING	SUMMER	FALL										SECCHI	DEG F		
Apr 1	BEGIN COUNTING APRIL 15										94.4	0.0	*	0.0		
Apr 2											94.2	0.0	*	0.0		
Apr 3											107.8	0.0	*	0.0		
Apr 4											117.3	0.0	*	0.0		
Apr 5											121.3	0.0	*	42.6		
Apr 6											123.7	0.0	*	42.5		
Apr 7											125.3	0.0	*	42.4		
Apr 8											113.9	0.0	*	42.4		
Apr 9											151.9	12.1	*	42.1		
Apr 10											138.8	0.0	*	42.2		
Apr 11											135.4	0.0	*	42.2		
Apr 12											152.9	0.0	*	42.5		
Apr 13											165.5	8.6	*	42.7		
Apr 14											175.2	4.4	*	42.7		
Apr 15	1								2			181.8	7.7	*	42.6	
Apr 16	1								1			173.0	0.0	*	42.5	
Apr 17	0								2			180.0	31.3	*	42.1	
Apr 18	1								0			175.7	55.6	*	42.1	
Apr 19	0								-1			198.0	121.4	*	42.4	
Apr 20	0								5			174.7	107.1	*	42.9	
Apr 21	1								4			172.0	103.4	*	43.5	
Apr 22	2								0			191.2	111.6	*	43.8	
Apr 23	0								2			186.7	107.5	*	44.5	
Apr 24	0								0			174.6	100.1	*	44.8	
Apr 25	3								0			183.2	107.3	*	45.2	
Apr 26	0								1			178.7	103.1	*	45.6	
Apr 27	0								2			172.4	98.8	*	46.3	
Apr 28	1								0			165.1	95.0	*	46.9	
Apr 29	3								0			172.1	97.2	*	47.2	
Apr 30	7								0			182.4	102.3	*	47.1	
TOTAL	20										18		156.0	45.8	*	37.8
AVG.	1										1		* Data unavailable			

TABLE 135

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

PRIEST RAPIDS PROJECT
MAY 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL										SECCHI	DEG F	
May 1	4			0				0		0	184.0	28.1	*	47.3	
May 2	4			0				0		0	195.6	44.9	*	47.6	
May 3	4			0				0		0	195.4	52.8	*	47.9	
May 4	5			0				1		0	176.9	21.5	*	48.6	
May 5	5			0				0		0	155.8	12.2	*	49.4	
May 6	18			0				0		0	182.2	32.8	*	49.3	
May 7	23			0				0		0	172.7	14.3	*	49.3	
May 8	32			0				0		0	155.8	17.9	*	49.1	
May 9	41			0				0		0	169.0	27.4	*	49.3	
May 10	61			0				0		0	157.5	13.1	*	50.2	
May 11	132			0				0		0	149.4	12.4	*	50.1	
May 12	207			0				0		0	176.1	16.2	*	50.2	
May 13	184			0				0		0	163.9	12.9	*	50.5	
May 14	509			0				0		0	161.4	11.0	*	51.1	
May 15	544			0				1		0	130.8	10.2	*	51.5	
May 16	715			0				0		0	122.7	11.0	*	52.2	
May 17	642			1				0		0	140.4	22.0	*	53.1	
May 18	36			1				1		0	192.1	41.0	*	53.5	
May 19	579			0				0		0	194.3	43.7	*	54.0	
May 20	536			1				2		0	145.5	12.1	*	54.3	
May 21	544			3				2		1	145.3	13.2	*	54.2	
May 22	426			4				0		0	154.5	13.4	*	54.0	
May 23	329			5				0		0	164.4	13.1	*	53.9	
May 24	104			1				0		0	175.6	13.7	*	53.4	
May 25	97			0				0		0	176.4	21.7	*	53.1	
May 26	110			2				1		0	231.6	69.0	*	52.6	
May 27	153			1				13		0	241.3	83.1	*	52.4	
May 28	137			2				5		0	280.2	121.6	*	52.8	
May 29	202			3				0		0	266.0	109.6	*	53.3	
May 30	132			2				0		0	265.6	103.7	*	53.8	
May 31	145			4				0		0	196.9	27.4	*	54.4	
TOTAL	6,660			30				26		1					

AVG.	215			1				1		0	181.3	33.8	*	51.5
------	-----	--	--	---	--	--	--	---	--	---	-------	------	---	------

* Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	6,680	30

STEELHEAD	LAMPREY
44	1

TABLE 136

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

PRIEST RAPIDS PROJECT
JUNE 2006

DATE	FISH COUNTS							RIVER CONDITIONS						
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Jun 1	230			16			0	0	0	0	183.9	14.5	*	55.0
Jun 2	157			8			0	3	0	0	211.8	49.9	*	55.1
Jun 3	185			11			0	-1	0	0	232.3	77.2	*	55.3
Jun 4	132			4			0	0	0	0	215.5	63.6	*	55.5
Jun 5	105			2			0	0	0	0	226.4	76.6	*	55.6
Jun 6	116			4			0	1	0	0	232.0	92.3	*	55.8
Jun 7	85			1			0	0	0	0	233.7	90.7	*	56.0
Jun 8	87			2			0	1	0	1	218.9	67.5	*	56.5
Jun 9	94			2			0	0	0	0	221.7	72.5	*	56.8
Jun 10	116			0			0	2	0	0	211.6	95.0	*	57.4
Jun 11	203			1			2	1	0	3	236.1	91.4	*	57.5
Jun 12	191			0			10	0	0	4	246.9	98.8	*	57.2
Jun 13	154			0			11	1	0	-1	231.4	88.9	*	57.0
Jun 14		176		0			17	1	0	2	248.1	96.8	*	56.7
Jun 15		130		3			30	1	0	2	234.9	83.5	*	56.6
Jun 16		138		0			16	3	0	7	248.1	101.3	*	57.1
Jun 17		250		1			24	8	0	0	230.4	84.2	*	57.1
Jun 18		330		2			51	9	0	7	204.3	56.9	*	57.8
Jun 19		535		0			31	7	0	8	220.6	69.7	*	57.7
Jun 20		482		4			82	1	1	1	214.9	60.8	*	57.6
Jun 21		739		1			106	3	0	1	192.4	43.3	*	57.8
Jun 22		1,295		3			234	6	0	0	247.5	93.5	*	58.1
Jun 23		977		1			258	4	0	8	208.3	48.5	*	58.5
Jun 24		781		2			255	5	0	4	183.7	37.7	*	59.0
Jun 25		934		2			403	2	0	7	201.7	45.1	*	59.5
Jun 26		1,924		3			734	2	4	18	189.9	38.2	*	59.8
Jun 27		1,874		5			907	8	4	14	183.0	40.3	*	60.2
Jun 28		1,936		15			1,223	5	2	25	189.1	46.5	*	60.7
Jun 29		1,825		27			1,137	13	0	14	172.7	39.1	*	60.8
Jun 30		1,917		2			653	1	1	9	165.0	34.1	*	61.0
TOTAL	1,855	16,243		122			6,184	87	12	134				
AVG.	143	955		4			206	3	0	4	214.6	66.6	*	57.6

* Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	8,535	81
SPRING	16,243	71
SUMMER		
TOTAL	24,778	152

SOCKEYE	STEELHEAD	SHAD	LAMPREY
6,184	131	12	135

TABLE 137

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

PRIEST RAPIDS PROJECT
JULY 2006

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Jul 1		1,715		5			730	12	0	20	161.4	36.4	*	61.5
Jul 2		2,789		7			1,515	19	3	39	111.2	23.2	*	62.0
Jul 3		2,764		2			2,206	8	16	25	155.0	33.1	*	62.9
Jul 4		2,545		7			2,018	5	15	43	86.3	17.6	*	63.3
Jul 5		2,981		11			2,146	8	32	34	158.5	32.4	*	64.1
Jul 6		2,601		10			1,518	16	30	11	149.6	30.4	*	63.7
Jul 7		1,555		1			1,021	9	13	10	162.2	25.5	*	63.4
Jul 8		1,752		3			1,047	15	27	1	160.4	22.5	*	64.0
Jul 9		1,437		2			1,202	12	22	32	133.6	21.7	*	64.4
Jul 10		1,307		-1			951	9	16	13	161.2	22.9	*	64.2
Jul 11		1,513		4			1,004	12	14	8	144.6	20.2	*	63.2
Jul 12		2,105		-1			916	28	19	17	137.9	22.5	*	62.9
Jul 13		1,145		0			557	26	2	19	129.5	23.2	*	63.3
Jul 14		1,220		2			481	32	6	15	144.0	26.8	*	63.4
Jul 15		797		7			605	16	6	40	155.1	32.2	*	63.5
Jul 16		461		0			410	18	8	23	138.4	22.6	*	63.9
Jul 17		927		11			537	23	1	22	121.8	21.3	*	63.8
Jul 18		1,136		31			420	36	3	17	127.3	23.3	*	63.5
Jul 19		246		11			254	30	0	8	149.5	22.3	*	63.7
Jul 20		753		15			165	24	0	21	136.9	23.2	*	64.1
Jul 21		695		25			117	60	0	24	121.3	21.2	*	64.7
Jul 22		504		18			63	39	1	29	131.3	22.5	*	0.0
Jul 23		537		7			106	56	2	38	120.7	24.1	*	65.8
Jul 24		555		9			104	88	0	54	125.7	20.7	*	65.6
Jul 25		400		23			49	50	0	45	139.5	24.8	*	65.9
Jul 26		186		6			51	37	3	21	131.9	20.2	*	66.6
Jul 27		535		15			106	80	4	14	134.1	21.9	*	67.1
Jul 28		522		9			64	52	2	38	137.5	22.6	*	67.2
Jul 29		372		14			45	66	2	36	127.9	21.0	*	67.2
Jul 30		549		9			12	47	1	19	99.6	21.0	*	66.7
Jul 31		184		11			10	50	0	16	81.6	21.0	*	66.7
TOTAL		36,788		273			20,430	983	248	752				

AVG.	1,187	9	659	32	8	24	134.7	24.0	*	62.3
------	-------	---	-----	----	---	----	-------	------	---	------

* Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	8,535	81
SUMMER	53,031	344
TOTAL	61,566	425

SOCKEYE	STEELHEAD	SHAD	LAMPREY
26,614	1,114	260	887

TABLE 138

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

PRIEST RAPIDS PROJECT
AUGUST 2006

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL											
Aug 1		506		23	0	0	7	69	1	34	113.4	23.6	*	66.7
Aug 2		216		8	0	0	15	41	1	36	103.3	22.4	*	67.0
Aug 3		407		15	0	0	10	82	0	32	115.9	24.6	*	66.8
Aug 4		441		16	0	0	16	95	-1	22	114.5	20.9	*	67.0
Aug 5		232		12	0	0	6	63	2	59	83.1	22.6	*	67.3
Aug 6		257		11	0	0	25	64	-1	37	90.1	24.0	*	68.0
Aug 7		424		20	0	0	5	70	1	55	120.2	22.2	*	68.4
Aug 8		354		25	0	0	2	85	0	29	115.6	23.5	*	67.9
Aug 9		469		26	0	0	3	67	0	35	129.3	21.7	*	67.4
Aug 10		457		22	0	0	0	74	0	58	88.8	23.7	*	67.3
Aug 11		243		14	0	0	0	40	-1	32	82.0	22.2	*	67.3
Aug 12		43		4	0	0	0	17	0	16	74.0	22.7	*	67.6
Aug 13		156		16	0	0	0	44	0	43	64.0	7.0	*	68.1
Aug 14			367	16	0	0	0	88	0	64	103.2	1.0	*	68.0
Aug 15			402	22	0	0	0	102	0	94	115.7	1.0	*	68.2
Aug 16			137	20	0	0	0	85	0	103	95.1	0.8	*	67.6
Aug 17			167	25	0	0	0	64	0	79	105.6	1.0	*	67.7
Aug 18			88	34	0	0	0	90	0	57	112.7	0.8	*	68.3
Aug 19			140	40	0	0	0	109	0	67	96.6	0.9	*	69.0
Aug 20			128	13	1	0	0	92	0	49	77.0	0.8	*	68.8
Aug 21			157	15	9	0	2	106	0	78	93.3	0.8	*	68.8
Aug 22			235	16	0	0	0	93	0	71	116.9	1.1	*	69.1
Aug 23			102	67	7	0	0	101	1	71	118.6	1.1	*	68.5
Aug 24			138	39	4	1	0	137	22	86	122.0	1.1	*	67.8
Aug 25			176	62	5	0	0	93	1	71	124.9	1.1	*	68.2
Aug 26			169	34	2	0	0	128	1	92	108.9	0.8	*	68.6
Aug 27			120	41	0	1	0	148	-2	80	84.4	1.0	*	68.7
Aug 28			183	46	6	0	0	174	0	97	118.2	0.9	*	69.1
Aug 29			223	67	3	0	-1	216	1	64	132.7	1.0	*	68.9
Aug 30			143	36	1	1	0	156	0	53	115.4	0.8	*	67.9
Aug 31			124	25	28	4	0	141	0	48	80.7	0.9	*	67.0
TOTAL		4,205	3,199	830	66	7	90	2,934	26	1,812				

AVG.	323	178	27	2	0	3	95	1	58	103.7	9.6	*	68.0
------	-----	-----	----	---	---	---	----	---	----	-------	-----	---	------

* Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	8,535	81
SUMMER	57,236	556
FALL	3,199	618
TOTAL	68,970	1,255

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
66	7	26,704	4,048	286	2,699

TABLE 139

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

PRIEST RAPIDS PROJECT
SEPTEMBER 2006

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Sep 1			149	15	21	2	0	160	0	78	67.1	0.9	*	67.4
Sep 2			243	21	48	3	0	176	0	54	69.7	1.1	*	67.7
Sep 3			101	32	14	5	0	178	0	53	64.5	1.0	*	68.1
Sep 4			182	28	7	2	0	159	0	45	65.7	1.0	*	68.1
Sep 5			294	44	31	0	0	212	0	55	96.7	1.1	*	68.3
Sep 6			218	49	33	1	0	233	0	84	78.6	0.9	*	68.2
Sep 7			413	58	26	0	0	267	-1	44	55.8	0.9	*	68.1
Sep 8			527	34	31	3	1	228	0	45	70.4	1.0	*	68.3
Sep 9			622	33	35	1	0	240	0	28	69.1	0.8	*	68.2
Sep 10			381	43	33	3	0	286	1	31	47.5	0.8	*	67.9
Sep 11			346	13	19	1	0	294	0	57	60.6	0.9	*	67.8
Sep 12			499	-3	56	3	1	371	-1	66	73.1	1.1	*	68.2
Sep 13			622	31	33	4	0	366	0	52	95.9	1.1	*	68.0
Sep 14			368	38	40	7	0	386	0	61	87.0	0.5	*	66.8
Sep 15			247	27	46	17	1	203	0	54	61.1	0.8	*	66.1
Sep 16			195	17	58	11	0	274	0	59	43.8	0.5	*	65.7
Sep 17			277	18	51	9	0	159	0	78	44.2	0.8	*	65.6
Sep 18			735	42	124	18	0	231	0	69	68.4	1.0	*	66.0
Sep 19			264	33	29	9	0	137	0	30	80.4	1.0	*	66.0
Sep 20			302	37	89	2	0	151	-1	51	66.0	0.9	*	65.1
Sep 21			263	37	39	3	0	75	-4	36	67.1	1.0	*	64.7
Sep 22			225	37	16	0	1	121	0	47	61.7	0.7	*	64.1
Sep 23			224	21	17	4	0	85	0	30	51.4	0.9	*	63.9
Sep 24			293	50	29	9	0	75	0	34	41.5	0.6	*	64.5
Sep 25			297	58	58	-3	0	78	0	43	54.9	0.9	*	64.4
Sep 26			265	34	72	10	0	103	1	42	82.0	1.0	*	64.8
Sep 27			565	49	55	11	0	83	0	27	74.4	1.0	*	65.1
Sep 28			253	38	37	14	1	89	0	19	67.7	1.0	*	65.3
Sep 29			399	29	38	23	0	77	0	39	73.2	1.1	*	65.4
Sep 30			360	23	53	10	0	86	0	43	67.5	1.1	*	65.2
TOTAL			10,129	986	1,238	182	5	5,583	-5	1,454				
AVG.			338	33	41	6	0	186	0	48	66.9	0.9	*	66.4

* Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	8,535	81
SUMMER	57,236	556
FALL	13,328	1,604
TOTAL	79,099	2,241

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
1,304	189	26,709	9,631	281	4,153

TABLE 140

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

PRIEST RAPIDS PROJECT
OCTOBER 2006

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL											
Oct 1			765	33	82	29	0	76		31	56.0	0.9	*	64.8
Oct 2			325	16	56	26	0	58		25	69.2	0.8	*	64.4
Oct 3			302	43	81	14	0	62		26	70.1	0.9	*	64.0
Oct 4			191	34	37	5	0	33		33	63.4	0.9	*	64.2
Oct 5			196	20	43	6	0	63		13	64.8	1.0	*	64.2
Oct 6			135	22	32	7	0	26		8	68.8	1.0	*	64.2
Oct 7			114	21	66	17	0	37		6	68.5	0.9	*	63.7
Oct 8			317	-28	61	20	0	35		9	57.2	0.7	*	63.1
Oct 9			204	16	63	21	0	27		6	68.6	0.3	*	63.0
Oct 10			146	7	61	31	0	34		8	72.0	0.2	*	62.4
Oct 11			98	-3	41	22	0	10		8	96.0	0.8	*	62.1
Oct 12			105	12	125	41	1	32		10	84.0	0.9	*	62.1
Oct 13			87	6	65	21	0	14		2	56.6	0.8	*	61.7
Oct 14			50	1	59	10	0	16		4	44.3	0.8	*	61.5
Oct 15			111	-1	93	13	0	21		11	48.2	0.7	*	61.5
Oct 16			105	6	73	21	0	28		1	66.2	0.9	*	61.0
Oct 17			214	-4	49	16	0	17		3	69.0	0.8	*	60.6
Oct 18			87	1	33	13	0	16		12	69.5	0.9	*	60.6
Oct 19			77	-1	42	7	0	13		2	66.7	0.9	*	60.3
Oct 20			61	3	46	4	0	15		1	66.6	1.1	*	59.7
Oct 21			30	2	46	7	0	8		0	63.1	1.1	*	59.7
Oct 22			33	-2	53	8	0	14		2	54.1	1.1	*	59.4
Oct 23			70	2	84	10	0	3		3	76.7	0.8	*	59.4
Oct 24			166	2	88	5	0	14		2	75.9	1.0	*	59.2
Oct 25			97	-1	67	4	0	7		0	73.8	1.0	*	58.5
Oct 26			82	0	57	5	0	7		1	73.4	0.8	*	57.7
Oct 27			41	1	42	0	0	10		1	71.8	0.7	*	57.4
Oct 28			56	5	39	2	0	4		0	48.2	0.9	*	57.4
Oct 29			68	1	23	2	0	7		0	45.5	1.0	*	57.2
Oct 30			113	0	26	4	0	10		0	83.8	0.9	*	56.7
Oct 31			134	0	18	2	0	6		0	94.5	3.9	*	56.3
TOTALS			4,580	214	1,751	393	1	723		228				

AVG.			148	7	56	13	0	23		7	67.3	0.9	*	60.9
------	--	--	-----	---	----	----	---	----	--	---	------	-----	---	------

* Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	8,535	81
SUMMER	57,236	556
FALL	17,908	1,818
TOTAL	83,679	2,455

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
3,055	582	26,710	10,354	281	4,381

TABLE 141

MONTHLY FISH PASSAGE SUMMARY REPORT

PRIEST RAPIDS PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

NOVEMBER 2006

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Nov 1			117	4	12	6		3			100.0	4.2	*	56.5
Nov 2			71	1	11	1		3			93.0	0.9	*	56.1
Nov 3			101	-2	28	7		2			91.4	2.0	*	55.8
Nov 4			103	-1	7	0		4			92.8	0.9	*	55.4
Nov 5			55	1	13	0		9			55.4	0.7	*	55.0
Nov 6			36	0	5	1		3			51.7	0.6	*	55.2
Nov 7			123	2	9	4		6			97.8	2.4	*	55.6
Nov 8			130	0	32	4		1			81.3	7.4	*	55.2
Nov 9			62	2	0	0		5			80.5	0.9	*	55.0
Nov 10			15	0	4	2		2			102.4	5.3	*	32.0
Nov 11			35	-2	4	1		0			83.1	4.2	*	32.0
Nov 12			17	1	12	-2		2			96.1	4.5	*	32.0
Nov 13			37	1	-1	0		4			104.1	10.1	*	52.0
Nov 14			10	1	8	0		5			97.5	8.6	*	52.0
Nov 15			31	1	6	2		5			99.1	3.3	*	52.3
Nov 16											96.1	2.5	*	52.3
Nov 17											99.0	4.3	*	52.0
Nov 18											61.0	0.0	*	51.4
Nov 19											63.4	0.0	*	51.3
Nov 20											74.6	3.0	*	51.4
Nov 21											69.2	0.0	*	51.4
Nov 22											79.1	0.0	*	51.1
Nov 23											70.0	0.0	*	50.5
Nov 24											63.7	0.0	*	32.0
Nov 25											62.9	0.0	*	50.2
Nov 26											67.3	0.0	*	49.6
Nov 27											90.4	0.0	*	49.1
Nov 28											128.6	0.0	*	*
Nov 29											155.1	0.0	*	*
Nov 30											98.3	0.0	*	*
TOTALS			943	9	150	26		54						
AVG.			63	1	10	2		4			86.8	2.2	*	49.8

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	8,535	81
SUMMER	57,236	556
FALL	18,851	1,827
TOTAL	84,622	2,464

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
3,205	608	26,710	10,408	281	4,381

*Data unavailable.

Note: 1 sturgeon counted on Nov 9.

TABLE 142

**YEARLY TOTALS OF SALMONIDS COUNTED OVER PRIEST RAPIDS DAM
1982 - 2006**

YEAR	CHINOOK*	STEELHEAD	SOCKEYE	COHO*	TOTALS
1982	32,051	11,160	40,461	1,810	85,482
1983	31,008	31,809	90,008	502	153,327
1984	41,425	26,213	114,761	173	182,572
1985	62,164	34,589	118,542	219	215,514
1986	68,703	22,401	43,084	83	134,271
1987	73,214	14,011	76,578	108	163,911
1988	53,963	10,208	51,135	68	115,374
1989	49,246	10,730	45,301	32	105,309
1990	36,257	7,830	46,331	31	90,449
1991	31,482	13,939	71,245	22	116,688
1992	37,752	13,733	80,857	1	132,343
1993	54,552	5,460	82,963	0	142,975
1994	32,892	6,706	12,385	0	51,983
1995	30,548	4,358	9,186	3	44,095
1996	27,325	8,324	29,422	5	65,076
1997	33,036	8,948	45,412	26	87,422
1998	29,415	5,837	10,769	18	46,039
1999	57,054	8,277	16,432	55	81,818
2000	91,223	11,331	89,547	378	192,479
2001	139,929	30,090	111,326	11,189	292,534
2002	161,510	15,895	47,883	1,555	226,843
2003	160,433	17,652	36,551	5,216	219,852
2004	134,620	18,727	124,943	5,624	283,914
2005	109,429	12,472	74,563	1,260	197,724
2006	87,086	10,408	26,710	3,813	128,017
Totals	1,666,317	361,108	1,496,395	32,191	3,556,011
10-Year Average	100,374	13,964	58,414	2,913	175,664

*Jacks included

TABLE 143

MONTHLY COUNT OF STEELHEAD
PRIEST RAPIDS DAM: 1960 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1960				159	651	25	318	2,255	3,190	1,229			7,827
1961				52	208	43	381	1,480	4,650	1,753			8,567
1962				133	530	74	329	2,027	4,925	1,306			9,324
1963				183	564	109	336	2,922	3,344	1,816			9,274
1964				85	196	44	261	1,986	2,649	770			5,991
1965				129	298	91	649	2,498	3,868	1,508			9,041
1966				189	252	296	1,194	2,775	5,549	2,751			13,006
1967				213	381	62	411	1,686	2,109	2,492			7,354
1968				530	1,112	24	185	1,954	4,950	1,769			10,524
1969				120	670	105	566	1,598	2,544	1,047			6,650
1970				85	195	27	197	1,129	3,053	872			5,558
1971				46	440	61	185	2,043	6,241	2,086			11,102
1972				163	552	42	318	1,992	2,190	1,172			6,429
1973				132	160	56	788	1,738	3,254	871			6,999
1974				45	129	229	504	845	945	392			3,089
1975				3	37	99	214	670	1,187	252			2,462
1976				3	133	246	531	1,873	5,462	1,000			9,248
1977				178	200	209	1,029	1,963	4,519	1,706			9,804
1978				72	134	214	532	1,143	1,869	581			4,545
1979				13	127	30	585	3,082	3,174	1,398			8,409
1980				232	203	17	179	1,815	4,721	1,263	94		8,524
1981				75	144	105	445	2,414	4,127	1,545	133	24	9,012
1982	5	32	70	136	86	46	331	3,126	5,345	1,805	163	15	11,160
1983	5	9	52	40	11	12	599	8,660	18,272	3,534	602	13	31,809
1984	28	4	92	142	145	224	2,534	8,840	11,907	2,030	256	11	26,213
1985	2	11	74	351	326	856	5,319	11,063	14,693	1,659	235		34,589
1986				82	100	262	3,637	10,584	5,647	1,856	233		22,401
1987				42	71	124	1,954	5,741	4,311	1,495	273		14,011
1988				48	108	239	1,234	3,119	4,016	1,176	268		10,208
1989				36	50	133	1,361	3,499	4,581	872	198		10,730
1990				24	52	130	1,282	2,616	3,060	551	115		7,830
1991				31	73	66	1,406	4,041	6,301	1,768	253		13,939
1992				60	152	313	2,328	3,261	6,265	1,227	127		13,733
1993				34	41	125	993	1,733	2,013	471	40		5,450
1994				7	13	78	902	1,286	3,087	1,269	64		6,706
1995				4	20	30	540	1,316	2,062	363	23		4,358
1996				9	14	35	546	3,234	3,810	627	49		8,324
1997				5	17	39	574	2,822	4,176	1,224	91		8,948
1998				7	9	40	806	935	2,976	1,005	59		5,837
1999				6	19	72	588	3,361	3,543	633	55		8,277
2000				2	13	155	1,895	3,786	4,825	598	57		11,331
2001				14	11	326	4,426	10,368	12,136	2,607	202		30,090
2002				22	15	134	3,225	7,442	4,101	874	82		15,895
2003				7	2	95	2,924	5,198	8,009	1,362	55		17,652
2004				7	79	516	3,438	2,687	10,905	1,042	53		18,727
2005				7	7	150	1,691	2,986	5,715	1,805	111		12,472
2006				18	26	87	983	2,934	5,583	723	54		10,408
TOTAL	40	56	288	3,981	8,776	6,495	55,653	156,526	235,859	62,155	3,945	63	533,837
10-Year Average				10	20	161	2,055	4,252	6,197	1,187	82		13,964

ROCK ISLAND DAM

FISH COUNTING SCHEDULE

Jan 1 – Apr 13	Video recording 24 hours per day/7 days a week (except during annual maintenance period). Video counting daily 0700 to 1530 hours Pacific Standard Time, starting March 15.
Apr 14 – Nov 14	Video recording 24 hours per day/7 days a week. Video counting daily 0700 to 1530 hours Pacific Standard Time.
Nov 15 – Dec 31	Video recording 24 hours per day/7 days a week (except during annual maintenance period). No counting during this period.

FISH LADDER OPERATION SCHEDULE

Left Bank Ladder

Jan 1 – Jan 20	Fishway out of service for 2005/2006 annual maintenance.
Jan 21 – Dec 31	Fishway in service.

Middle Ladder

Jan 1 – Jan 22	Fishway in service.
Jan 23 – Feb 6	Fishway out of service for 2005/2006 annual maintenance.
Feb 7 – Dec 31	Fishway in service.

Right Bank Ladder

Jan 1 – Jan 30	Fishway in service.
Jan 31 – Feb 8	Fishway out of service for 2005/2006 annual maintenance.
Feb 9 – Dec 3	Fishway in service.
Dec 4 – Dec 31	Fishway out of service for 2006/2007 annual maintenance.

FISHWAY ACTIVITIES

The Rock Island Bypass Trap was operated by the Washington Department of Fish and Wildlife from April 1 through August 31, 2006. Juvenile fish were sampled daily during this time period.

The adult fish PIT tag system was operational throughout the 2006 adult fish migration. PIT tag detections from all three fishways were uploaded daily to PTAGIS.

In 2006, the Chelan County PUD tagged and monitored passage of radio-tagged adult bull trout at the Rock Island Project, and in the tributaries. The purpose of the bull trout study is to assess the behavior of the fish as they migrate through the dam, associated pool and tributaries. Tagging and monitoring will occur through 2009.

TABLE 144

MONTHLY TOTALS OF SALMONIDS AND LAMPREY COUNTED OVER ROCK ISLAND DAM
2006

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				5	7,477	15,178	45,008	8,481	3,331	1,851	446		81,777
STEELHEAD				44	19	23	693	2,332	5,175	1,032	64		9,382
SOCKEYE						2,780	31,853	477	19	0	3		35,132
COHO								1	1,998	3,336	262		5,597
PINK													
TOTAL				49	7,496	17,981	77,554	11,291	10,523	6,219	775		131,888
LAMPREY						16	129	692	432	57			1,326
BULL TROUT				1	11	11	10	2					35

TABLE 145

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROCK ISLAND PROJECT
APRIL 2006

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Apr 1												89.0	0.0	*	*
Apr 2												93.8	0.0	*	*
Apr 3												116.3	0.0	*	*
Apr 4												122.9	0.0	*	*
Apr 5												115.0	0.0	*	*
Apr 6												108.7	0.0	*	*
Apr 7												124.6	0.0	*	*
Apr 8												124.9	0.0	*	*
Apr 9												112.2	0.0	*	*
Apr 10												135.9	0.0	*	52.1
Apr 11												148.1	0.0	*	41.2
Apr 12												154.1	0.0	*	41.5
Apr 13												165.4	0.0	*	41.6
Apr 14	1							3	3	0		168.3	0.0	10.4	*
Apr 15	1							4	3	0		165.6	0.0	10.6	*
Apr 16	0							3	2	0		168.6	0.0	8.6	*
Apr 17	0							3	0	0		165.8	34.9	8.6	42.0
Apr 18	0							4	3	0		167.6	36.1	8.2	42.6
Apr 19	0							1	0	0		160.2	35.7	9.8	43.0
Apr 20	0							1	1	0		170.2	35.1	9.6	43.6
Apr 21	0							4	1	0		178.6	34.0	9.8	44.1
Apr 22	0							5	3	0		173.3	32.0	9.8	44.3
Apr 23	0							2	1	0		160.7	29.1	9.0	44.7
Apr 24	0							1	0	0		172.7	35.7	9.0	45.2
Apr 25	1							3	3	1		174.5	36.5	9.0	45.6
Apr 26	1							2	2	0		163.3	34.7	9.0	45.7
Apr 27	0							2	2	0		152.5	35.0	7.8	46.1
Apr 28	0							1	1	0		159.9	33.3	7.8	46.8
Apr 29	0							5	5	0		173.0	34.0	7.6	47.2
Apr 30	1							0	0	0		168.2	33.3	8.0	47.3
TOTAL	5							44	30	1					
AVG.	0							3	2	0		148.5	16.0	9.0	44.7

*Data unavailable

TABLE 146

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROCK ISLAND PROJECT
MAY 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
May 1	0			0				1	0	0		172.5	36.0	7.0	47.5
May 2	2			0				0	0	0		185.5	36.6	7.0	47.5
May 3	1			0				3	3	0		188.2	36.2	6.6	47.7
May 4	0			1				1	1	0		158.0	37.0	6.6	48.1
May 5	2			3				0	0	0		165.8	36.2	7.0	48.9
May 6	6			3				0	0	0		174.1	31.7	7.0	49.3
May 7	0			0				3	1	0		150.2	29.7	7.2	49.1
May 8	14			0				0	0	0		167.0	31.5	7.2	49.5
May 9	16			1				1	1	0		157.6	29.1	7.2	49.5
May 10	12			0				1	0	0		147.3	26.2	7.0	48.9
May 11	10			0				1	1	0		149.7	26.1	7.0	49.0
May 12	26			0				3	2	0		167.4	28.1	7.6	49.2
May 13	95			0				1	1	0		156.1	28.1	7.4	49.3
May 14	129			2				0	0	0		106.2	20.4	7.8	49.8
May 15	232			2				0	0	1		147.3	29.2	7.8	50.6
May 16	207			1				0	0	0		142.2	28.5	7.8	51.4
May 17	387			2				1	0	0		155.2	28.0	7.0	52.0
May 18	466			65				0	0	1		184.9	38.9	6.6	52.1
May 19	430			23				0	0	1		173.0	39.4	4.0	52.3
May 20	390			15				0	0	0		140.7	32.7	3.0	52.2
May 21	491			5				0	0	1		140.7	30.1	3.0	52.2
May 22	418			6				0	0	1		149.5	33.5	3.0	51.9
May 23	446			3				0	0	1		152.5	31.9	2.0	51.4
May 24	671			12				0	0	0		165.9	31.2	2.0	51.5
May 25	601			17				0	0	1		180.0	34.7	2.0	51.7
May 26	402			10				0	0	2		218.7	43.0	2.0	52.1
May 27	328			18				0	0	0		227.1	42.2	2.0	52.2
May 28	279			6				0	0	1		248.8	46.6	3.0	52.4
May 29	292			22				1	0	1		243.0	45.8	4.0	53.0
May 30	473			29				1	1	0		239.6	48.1	4.2	53.6
May 31	388			17				1	1	0		183.5	30.5	5.0	54.2
TOTAL	7,214			263				19	12	11					
AVG.	233			8				1	0			172.2	33.8	5.4	50.6
RUN YEAR															
TOTALS TO DATE															
SPRING				7,219				63	42	12					

TABLE 147

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROCK ISLAND PROJECT
JUNE 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jun 1	163			12			0	0	0	0	0	180.9	32.8	5.0	54.2
Jun 2	172			15			0	0	0	1	0	200.3	36.5	6.4	54.3
Jun 3	183			27			0	1	1	0	0	214.0	37.0	6.4	54.3
Jun 4	253			20			0	0	0	0	0	199.4	33.9	6.4	54.4
Jun 5	222			30			0	1	0	0	0	200.7	41.1	6.0	54.5
Jun 6	190			19			0	0	0	1	0	218.2	40.8	6.0	54.9
Jun 7	153			18			0	0	0	0	0	218.3	46.5	6.4	55.4
Jun 8	118			7			0	0	0	0	0	204.7	47.8	5.2	55.8
Jun 9	192			17			0	0	0	1	1	211.5	46.2	5.6	56.0
Jun 10	115			3			0	0	0	0	0	195.6	42.1	5.6	55.9
Jun 11	103			8			1	0	0	0	0	216.4	39.9	6.4	55.9
Jun 12	121			8			0	0	0	0	0	223.8	45.5	6.4	55.7
Jun 13	105			4			0	0	0	1	0	215.9	44.0	5.5	55.4
Jun 14	55			4			0	0	0	0	2	223.8	43.5	5.0	55.5
Jun 15	93			8			5	0	0	0	0	217.4	39.9	6.2	55.9
Jun 16	109			13			6	1	0	2	0	228.9	40.1	6.2	56.3
Jun 17	78			7			11	1	1	0	0	210.9	40.3	6.2	56.3
Jun 18	88			8			9	0	0	0	0	189.7	39.9	6.8	56.3
Jun 19	162			4			7	1	0	0	0	200.0	40.0	6.8	56.4
Jun 20	281			10			21	0	0	0	1	201.2	41.9	7.0	56.7
Jun 21	240			11			20	0	0	0	0	185.6	38.1	7.2	56.7
Jun 22	359			10			27	1	0	1	1	223.6	41.1	9.0	57.3
Jun 23	938			16			39	0	0	0	1	185.2	44.3	9.0	57.5
Jun 24		758		9			96	1	0	1	0	181.0	33.9	9.4	57.7
Jun 25		875		14			123	1	0	1	0	179.9	33.5	9.8	58.1
Jun 26		1,632		18			263		0	0	0	180.8	36.3	9.0	58.3
Jun 27		1,486		30			294	2	1	0	2	177.5	34.6	9.0	59.2
Jun 28		1,566		16			430	3	2	0	0	182.1	35.1	9.0	59.7
Jun 29		2,292		19			656	5	4	1	4	164.8	35.3	9.0	59.8
Jun 30		1,671		20			772	5	4	1	4	156.6	31.0	9.0	60.1
TOTAL	4,493	10,280		405			2,780	23	13	11	16				
AVG.	195	1,469		14			93	1	0		1	199.6	39.4	7.0	56.5
RUN YEAR															
TOTALS TO DATE															
SPRING															
SUMMER															
TOTALS															

TABLE 148

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROCK ISLAND PROJECT
JULY 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Jul 1		1,255		26			661	2	1	0	3	149.9	25.2	10.6	60.7
Jul 2		2,999		48			741	9	6	0	2	106.9	23.7	10.4	61.1
Jul 3		2,392		26			1,468	7	5	3	0	125.6	29.2	10.2	61.3
Jul 4		2,503		34			1,888	6	5	0	2	101.7	25.0	10.2	61.7
Jul 5		3,259		51			1,739	7	4	0	0	151.1	31.2	10.2	62.3
Jul 6		2,868		37			2,584	11	9	1	2	150.6	32.3	10.0	62.4
Jul 7		2,605		44			2,062	8	5	0	4	155.7	30.9	10.2	61.9
Jul 8		1,794		45			2,234	11	7	0	0	157.4	29.0	10.4	61.6
Jul 9		2,551		47			2,258	5	4	2	3	121.9	21.9	10.0	61.8
Jul 10		2,365		47			2,026	12	7	1	2	159.7	31.0	10.6	62.3
Jul 11		1,817		63			2,208	11	9	0	3	141.6	30.0	10.6	62.5
Jul 12		1,747		52			1,474	10	9	0	1	132.1	27.9	10.6	62.4
Jul 13		1,514		51			1,345	11	7	0	5	132.1	25.1	10.6	62.7
Jul 14		884		28			999	12	11	0	4	142.3	25.3	10.8	62.7
Jul 15		1,460		58			993	10	7	0	2	151.3	23.0	12.2	62.7
Jul 16		1,180		31			919	13	13	0	0	119.7	19.2	10.2	62.8
Jul 17		1,174		46			869	22	14	0	4	125.2	28.7	10.2	63.3
Jul 18		1,063		50			1,089	30	22	0	1	131.2	30.1	10.6	63.2
Jul 19		941		49			849	18	15	0	2	144.4	27.9	10.6	63.2
Jul 20		675		26			701	23	15	0	4	125.0	27.4	11.0	63.2
Jul 21		520		33			485	13	7	0	6	129.0	26.7	11.0	63.5
Jul 22		620		47			376	27	18	1	4	131.7	21.6	11.4	63.6
Jul 23		892		47			412	26	18	0	9	104.7	15.9	11.4	64.2
Jul 24		964		25			351	40	31	0	9	136.4	25.0	11.4	64.7
Jul 25		673		31			312	48	31	0	9	136.7	25.6	11.2	65.3
Jul 26		491		35			234	54	32	0	9	115.1	24.8	11.6	65.7
Jul 27		443		42			153	42	33	0	10	135.1	26.0	12.0	65.9
Jul 28		619		53			129	46	26	0	11	142.0	25.3	12.2	66.1
Jul 29		582		36			128	70	34	1	6	100.7	24.6	12.2	65.8
Jul 30		540		46			106	56	26	1	7	75.9	20.2	12.2	65.7
Jul 31		325		39			60	33	22	0	5	116.2	26.7	12.0	65.6
TOTAL		43,715		1,293			31,853	693	453	10	129				
AVG.		1,410		42			1,028	22	15		4	130.6	26.0	10.9	63.3

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	11,712	542
SUMMER	53,995	1,419
TOTALS	65,707	1,961

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
34,633	779	508	33	145

TABLE 149

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROCK ISLAND PROJECT
AUGUST 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Aug 1		382		54	0		61	41	27	0	8	115.7	25.1	12.2	65.5
Aug 2		382		36	0		52	43	27	1	8	114.8	23.1	12.4	65.5
Aug 3		273		31	0		34	38	24	0	7	115.3	23.2	13.0	65.7
Aug 4		487		37	0		34	53	29	0	6	90.4	22.5	13.4	65.8
Aug 5		267		36	0		32	45	26	0	15	103.0	19.4	13.4	65.8
Aug 6		367		49	0		27	45	26	0	11	82.7	15.1	13.6	65.7
Aug 7		296		22	0		33	47	20	0	20	124.9	24.0	13.6	66.2
Aug 8		307		47	0		27	76	37	0	19	113.1	23.4	13.6	66.4
Aug 9		432		48	0		20	53	33	0	17	115.0	21.5	13.6	66.5
Aug 10		337		40	0		17	72	37	0	11	85.8	17.7	15.6	66.5
Aug 11		380		36	0		20	40	23	0	12	92.5	15.9	15.6	66.3
Aug 12		403		29	0		17	44	25	0	10	70.1	0.1	15.4	66.3
Aug 13		242		22	0		6	49	27	0	12	68.8	0.0	14.6	66.5
Aug 14		285		18	0		18	48	18	0	18	109.2	0.0	14.2	66.9
Aug 15		247		48	0		18	80	42	0	19	103.4	0.0	14.2	67.3
Aug 16		337		35	0		5	72	31	0	17	97.0	0.0	13.6	67.4
Aug 17		334		20	0		9	70	31	0	18	107.9	0.0	13.6	67.5
Aug 18		187		27	0		9	73	30	0	21	100.5	0.0	14.0	67.4
Aug 19		138		19	0		7	88	40	1	22	87.4	0.0	14.0	67.0
Aug 20		112		22	0		4	67	27	0	8	73.2	0.0	15.0	66.9
Aug 21		165		17	0		2	87	31	0	28	105.5	0.0	15.0	67.3
Aug 22		136		26	0		1	95	34	0	42	116.0	0.0	15.4	67.6
Aug 23		143		18	0		4	97	42	0	35	123.2	0.0	15.4	67.4
Aug 24		134		28	0		3	109	37	0	51	122.5	0.0	15.6	67.5
Aug 25		160		15	0		7	85	26	0	53	110.4	0.0	15.6	67.7
Aug 26		115		17	0		1	67	21	0	50	102.3	0.0	15.4	67.9
Aug 27		99		24	0		1	79	22	0	31	96.6	0.0	15.4	67.8
Aug 28		123		23	0		2	91	29	0	48	120.3	0.0	15.6	68.2
Aug 29		100		29	0		2	180	60	0	37	117.9	0.0	15.6	68.0
Aug 30		93		29	0		1	147	59	0	20	95.4	0.0	15.6	67.4
Aug 31		86		30	1		3	151	47	0	18	95.6	0.0	15.8	67.3
TOTAL		7,549		932	1		477	2,332	988	2	692				
AVG.		244		30	0		15	75	32		22	102.5	7.5	14.5	66.9
RUN YEAR		CHINOOK ADULT	CHINOOK JACK		COHO ADULT		SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY				
TOTALS TO DATE															
SPRING		11,712	542		1		35,110	3,111	1,496	35	837				
SUMMER		61,544	2,351												
TOTALS		73,256	2,893												

TABLE 150

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCK ISLAND PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

SEPTEMBER 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Sep 1		58		9	2		0	101	30		25	79.1	0.0	15.8	67.1
Sep 2			48	9	0		0	122	49		21	70.6	0.0	16.0	67.0
Sep 3			84	23	0		2	143	42		32	61.6	0.0	16.0	67.0
Sep 4			128	28	5		2	115	43		13	60.3	0.0	16.0	67.4
Sep 5			89	30	6		0	136	49		17	89.9	0.0	16.0	67.8
Sep 6			74	14	5		1	183	91		5	63.8	0.0	16.6	67.9
Sep 7			78	27	3		0	137	45		11	76.9	0.0	16.8	67.9
Sep 8			85	16	13		1	134	52		15	70.6	0.0	16.8	67.8
Sep 9			64	25	17		1	221	101		9	46.0	0.0	16.8	67.8
Sep 10			84	39	13		0	195	71		6	45.6	0.0	16.4	67.7
Sep 11			117	36	25		0	184	75		29	84.6	0.0	16.8	67.7
Sep 12			89	36	30		2	170	68		18	80.4	0.0	16.8	67.8
Sep 13			160	42	30		2	247	89		28	88.0	0.0	16.8	67.4
Sep 14			142	62	50		1	326	141		9	72.5	0.0	16.6	66.7
Sep 15			90	60	39		0	331	112		7	51.3	0.0	16.4	66.3
Sep 16			47	30	28		0	141	44		10	56.5	0.0	16.6	65.8
Sep 17			93	43	48		3	207	85		17	50.2	0.0	16.8	65.6
Sep 18			74	40	78		1	230	71		10	74.5	0.0	16.6	65.5
Sep 19			85	29	137		0	297	138		10	70.1	0.0	16.8	65.1
Sep 20			82	41	104		0	229	80		14	73.8	0.0	16.8	64.8
Sep 21			104	33	110		0	165	66		9	63.5	0.0	16.8	64.8
Sep 22			70	17	107		0	192	109		4	52.0	0.0	16.8	64.6
Sep 23			36	36	102		0	122	54		15	40.2	0.0	16.8	64.9
Sep 24			32	32	84		0	76	36		5	40.6	0.0	16.6	64.7
Sep 25			52	29	107		1	124	57		22	84.4	0.0	16.6	64.6
Sep 26			80	41	252		0	162	80		18	80.2	0.0	16.6	64.8
Sep 27			59	27	164		1	164	66		8	72.2	0.0	16.6	65.0
Sep 28			60	34	141		1	103	35		20	78.1	0.0	17.0	65.1
Sep 29			57	17	151		0	99	52		12	74.8	0.0	17.0	65.1
Sep 30			83	22	147		0	119	63		13	59.5	0.0	17.0	65.1
TOTAL		58	2,346	927	1,998		19	5,175	2,094		432				
AVG.			81	31	67		1	173	70		14	67.1	0.0	16.6	66.2

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	11,712	542
SUMMER	61,602	2,360
FALL	2,346	918
TOTALS	75,660	3,820

COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
1,999	35,129	8,286	3,590	35	1,269

TABLE 151

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCK ISLAND PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

OCTOBER 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Oct 1			106	50	139			101	43		13	49.8	0.0	17.0	65.8
Oct 2			127	16	268			124	52		5	61.7	0.0	17.0	65.8
Oct 3			125	24	206			93	42		7	85.7	0.0	17.0	65.8
Oct 4			99	30	209			88	35		4	62.8	0.0	17.0	65.5
Oct 5			65	6	142			66	26		11	69.8	0.0	17.0	65.5
Oct 6			51	12	154			61	32		3	64.2	0.0	17.0	65.5
Oct 7			83	11	147			60	35		0	56.0	0.0	17.0	64.9
Oct 8			57	16	117			35	19		0	47.3	0.0	17.0	64.8
Oct 9			23	10	107			24	13		2	90.0	0.0	17.0	64.2
Oct 10			24	14	98			37	19		1	75.2	0.0	17.0	64.0
Oct 11			44	24	111			29	18		0	84.1	0.0	17.0	64.0
Oct 12			22	22	127			47	11		0	73.0	0.0	18.0	63.7
Oct 13			40	16	133			25	9		0	56.0	0.0	18.0	63.5
Oct 14			20	11	125			14	4		0	48.9	0.0	18.4	63.3
Oct 15			40	9	68			16	11		0	44.6	0.0	18.4	63.3
Oct 16			43	7	83			18	6		0	76.7	0.0	18.4	62.6
Oct 17			53	5	62			12	7		2	64.8	0.0	18.4	62.6
Oct 18			40	7	120			23	13		2	73.6	0.0	18.4	62.6
Oct 19			30	3	103			20	8		3	85.5	0.0	18.4	62.1
Oct 20			36	3	104			16	7		1	70.3	0.0	18.6	61.9
Oct 21			27	7	82			12	8		2	52.4	0.0	18.6	61.5
Oct 22			35	6	50			9	2		0	48.3	0.0	18.6	61.5
Oct 23			20	3	58			8	6		0	84.0	0.0	18.6	61.2
Oct 24			21	3	58			10	5		1	80.4	0.0	18.6	61.2
Oct 25			38	4	68			9	4		0	63.2	0.0	18.6	64.4
Oct 26			40	7	100			19	9		0	70.9	0.0	18.8	60.1
Oct 27			45	4	77			9	6		0	58.4	0.0	19.0	60.3
Oct 28			38	6	54			11	4		0	53.8	0.0	19.0	59.9
Oct 29			27	3	71			6	1		0	60.6	0.0	19.0	60.1
Oct 30			34	5	52			16	10		0	78.6	0.0	19.0	59.2
Oct 31			53	1	43			14	8		0	113.2	0.0	19.2	58.5
TOTAL			1,506	345	3,336			1,032	473		57				
AVG.			49	11	108			33	15		2	67.9	0.0	18.0	62.9

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	11,712	542
SUMMER	61,602	2,360
FALL	3,852	1,263
TOTALS	77,166	4,165

COHO ADULT
5,335

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
35,129	9,318	4,063	35	1,326

TABLE 152

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROCK ISLAND PROJECT
NOVEMBER 2006

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Nov 1			37	0	43		0	9	3			93.5	0.0	19.2	57.7
Nov 2			42	0	58		0	9	6			99.7	0.0	19.2	57.4
Nov 3			31	1	32		0	6	3			97.5	0.0	19.2	57.2
Nov 4			39	0	14		0	3	2			59.1	0.0	19.0	58.6
Nov 5			38	4	22		0	3	1			50.6	0.0	19.2	56.8
Nov 6			59	2	19		2	2	1			79.2	0.0	19.0	56.3
Nov 7			15	0	11		0	1	0			107.9	0.0	0.0	55.8
Nov 8			30	0	11		0	2	0			82.1	0.0	3.0	54.9
Nov 9			34	1	14		0	7	2			82.8	0.0	2.6	54.5
Nov 10			37	0	16		0	6	2			100.6	0.0	2.0	55.2
Nov 11			35	0	8		0	7	2			72.8	0.0	3.4	55.2
Nov 12			25	2	8		0	7	4			98.7	0.0	3.6	55.0
Nov 13			7	1	4		1	1	1			101.5	0.0	3.6	54.1
Nov 14			6	0	2		0	1	0			99.9	0.0	3.6	54.1
Nov 15												98.0	0.0	*	*
Nov 16												88.6	0.0	*	*
Nov 17												84.7	0.0	*	*
Nov 18												71.6	0.0	*	*
Nov 19												54.9	0.0	*	*
Nov 20												72.0	0.0	*	*
Nov 21												68.1	0.0	*	*
Nov 22												82.4	0.0	*	*
Nov 23												57.1	0.0	*	*
Nov 24												53.3	0.0	*	*
Nov 25												79.1	0.0	*	*
Nov 26												70.4	0.0	*	*
Nov 27												112.3	0.0	*	*
Nov 28												117.2	0.0	*	*
Nov 29												116.8	0.0	*	*
Nov 30												93.5	0.0	*	*
TOTAL			435	11	262		3	64	27						
AVG.			31	1	19		0	5	2			84.9	0.0	9.8	55.9

*Data unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
TOTALS TO DATE	11,712	542	5,597	35,132	9,382	4,090	35	1,326
SPRING								
SUMMER	61,602	2,360						
FALL	4,287	1,274						
TOTALS	77,601	4,176						

TABLE 153

MONTHLY COUNT OF STEELHEAD
ROCK ISLAND DAM 1981 - 2006

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1981						30	282	1,886	2,338	2,493	347		7,376
1982				118	113	8	157	2,246	4,260	2,785	192		9,879
1983				53	36	18	579	5,811	16,942	5,619	608		29,666
1984				88	220	180	1,962	7,925	10,507	3,687	527		25,096
1985				106	393	729	4,886	6,588	16,089	2,889	319		31,999
1986				145	168	192	3,383	10,036	5,883	2,731	347		22,885
1987				100	94	112	1,242	4,900	4,095	1,842	347		12,732
1988				193	156	173	737	2,813	3,446	1,523	200		9,241
1989				135	73	66	847	2,685	3,999	1,355	191		9,351
1990				55	46	99	953	2,385	2,577	736	93		6,944
1991				30	51	45	916	3,322	4,194	2,165	204		10,927
1992				86	193	315	1,603	2,821	5,714	1,599	145		12,476
1993				97	88	87	1,427	546	1,930	597	57		4,829
1994				29	16	50	631	1,151	2,181	1,437	125		5,620
1995				23	35	44	421	951	2,153	510	38		4,175
1996				17	34	27	303	2,224	3,701	920	79		7,305
1997				19	22	7	300	2,343	3,461	1,466	108		7,726
1998				20	13	29	449	726	2,486	1,141	98		4,962
1999				17	22	37	377	2,429	2,900	540	40		6,362
2000				18	5	74	1,356	3,299	4,974	727	63		10,516
2001				49	23	185	3,094	9,380	12,129	3,461	292		28,613
2002				53	20	85	2,327	6,374	5,144	1,200	79		15,282
2003				17	17	51	1,664	4,233	9,339	2,061	127		17,509
2004				50	108	363	2,518	2,983	11,794	1,658	73		19,547
2005				30	29	135	1,423	3,362	5,925	1,422	83		12,409
2006				44	19	23	693	2,332	5,175	1,032	64		9,382
Total				1,592	1,994	3,164	34,530	95,751	153,336	47,596	4,846		342,809
10-Year Average				32	28	99	1,420	3,746	6,333	1,471	103		13,231

ROCKY REACH DAM

FISH COUNTING SCHEDULE

Jan 1 - Apr 13	Video recording 24 hours per day/7 days a week (except during annual maintenance period). Video counting daily 0700 to 1530 hours Pacific Standard Time, starting March 15.
Apr 14 - Nov 14	Video recording 24 hours per day/7 days a week. Video counting daily 0700 to 1530 hours Pacific Standard Time.
Nov 15 - Dec 31	Video recording 24 hours per day/7 days a week (except during annual maintenance period). No counting during this period.

FISH LADDER OPERATING SCHEDULE

Jan 1 to Feb 1	Fishway out of service for 2005/2006 annual maintenance.
Feb 2 to Dec 3	Fishway in service.
Dec 4 to Dec 31	Fishway out of service for 2006/2007 annual maintenance.

FISHWAY ACTIVITIES

During the 2005/2006 annual maintenance period, four adult fish PIT tag coils were installed in the upper fishway. On 2 February 2006, the adult fish PIT tag system began its first year of operation at Rocky Reach Dam.

The juvenile fish bypass system was operated for fish passage from April 1 to August 31, 2006. Juvenile fish sampling occurred over the same time frame. The annual bypass (biological) evaluation included an acoustic tag survival study and collection of data on species composition and fish condition.

In 2006, the Chelan County PUD tagged and monitored passage of radio-tagged adult bull trout at the Rocky Reach Project, and in the tributaries. The purpose of the bull trout study is to assess the behavior of the fish as they migrate through the dam, associated pool and tributaries. Tagging and monitoring will occur through 2009.

TABLE 154

MONTHLY TOTALS OF SALMONIDS AND LAMPREY COUNTED OVER ROCKY REACH DAM
2006

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*					3,767	7,380	30,818	8,257	2,517	1,384	477		54,600
STEELHEAD				117	34	14	401	1,774	4,557	1,028	199		8,124
SOCKEYE						1,350	23,542	473	10	2			25,377
COHO									350	1,101	72		1,523
PINK													
TOTAL				117	3,801	8,744	54,761	10,504	7,434	3,515	748		89,624
LAMPREY							23	175	156	16			370
BULL TROUT					58	49	14	1	1	2	7		125

TABLE 155

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROCKY REACH PROJECT
APRIL 2006

DATE	FISH COUNTS										RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK	COHO	COHO	SOCKEYE	STEELHEAD	WILD	BULL	LAMPREY	DISCH	SPILL	TURBIDITY				
SPRING	SUMMER	FALL	JACK	ADULT	JACK	STEELHEAD			TROUT	KCFS		KCFS	SECCHI	DEG F				
Apr 1	BEGIN COUNTING 14 APRIL										87.8	0.0	*	*				
Apr 2											89.3	0.0	*	*				
Apr 3											115.1	0.0	*	*				
Apr 4											119.6	0.0	*	*				
Apr 5											112.5	0.0	*	*				
Apr 6											105.9	0.0	*	*				
Apr 7											120.7	0.0	*	*				
Apr 8											126.0	1.5	*	*				
Apr 9											104.9	0.1	*	*				
Apr 10											129.1	0.0	*	50.0				
Apr 11											147.6	0.0	*	41.1				
Apr 12											151.3	0.0	*	41.3				
Apr 13											165.2	4.5	*	41.4				
Apr 14											168.2	10.4	15.0	0.0				
Apr 15											166.3	8.4	15.0	0.0				
Apr 16											174.0	24.9	15.0	0.0				
Apr 17											164.5	12.8	15.0	42.1				
Apr 18											166.8	13.1	15.0	42.5				
Apr 19											156.4	2.3	14.0	43.0				
Apr 20											167.4	14.8	13.0	43.5				
Apr 21											177.9	14.7	13.0	44.1				
Apr 22											169.4	6.6	13.0	44.3				
Apr 23											155.4	6.9	13.0	44.7				
Apr 24											164.9	10.8	12.0	45.1				
Apr 25											171.2	10.0	10.5	45.4				
Apr 26											155.9	0.5	10.5	45.7				
Apr 27											147.8	0.0	9.5	46.1				
Apr 28											154.5	0.3	8.5	46.6				
Apr 29											167.5	23.9	8.5	47.0				
Apr 30											159.7	21.0	8.5	47.4				
TOTAL											117		102					
AVG.											7		6		145.4	6.2	12.3	38.2

*Data Unavailable

TABLE 156

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROCKY REACH PROJECT
MAY 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
May 1	0			0				1	1	0		165.3	23.5	8.5	47.6
May 2	1			0				2	2	0		180.4	44.6	8.5	47.6
May 3	0			0				1	1	0		184.9	43.2	8.5	47.7
May 4	0			0				2	2	0		154.4	43.4	8.5	47.9
May 5	3			0				2	2	0		164.9	43.1	8.5	0.0
May 6	1			0				0	0	0		169.6	40.3	8.5	0.0
May 7	1			0				3	3	0		144.2	36.1	8.5	0.0
May 8	4			0				0	0	0		164.3	10.9	8.5	0.0
May 9	6			0				1	1	0		152.5	2.1	8.5	48.8
May 10	5			0				3	3	0		136.7	0.0	8.5	48.9
May 11	6			0				3	2	1		148.1	9.2	8.5	49.0
May 12	13			0				2	2	1		162.0	36.4	8.5	49.2
May 13	4			0				2	2	1		150.7	33.1	10.5	49.3
May 14	48			0				1	1	0		97.9	24.2	10.5	49.9
May 15	70			0				0	0	0		145.3	34.0	12.0	50.6
May 16	120			0				1	1	1		133.9	0.1	12.0	51.6
May 17	115			1				1	1	5		141.5	0.0	12.0	52.0
May 18	193			0				2	2	1		170.7	41.0	5.0	52.4
May 19	236			3				0	0	2		151.0	38.0	5.0	52.9
May 20	288			5				3	2	1		118.5	0.0	4.0	53.1
May 21	245			2				1	1	2		120.7	0.0	2.0	52.9
May 22	181			0				0	0	2		133.9	0.0	2.0	52.4
May 23	293			5				0	0	1		137.1	0.8	2.0	51.9
May 24	266			0				0	0	5		153.4	36.9	3.0	52.1
May 25	337			2				0	0	9		173.6	41.8	4.0	52.3
May 26	263			8				0	0	3		209.7	35.7	4.0	52.3
May 27	218			7				1	1	3		224.0	44.8	4.0	52.5
May 28	203			13				1	1	2		251.1	67.5	5.5	52.7
May 29	230			7				0	0	4		244.7	66.2	5.5	53.2
May 30	143			7				0	0	8		242.8	64.1	6.0	53.8
May 31	199			15				1	0	6		177.4	35.6	6.0	54.2
TOTAL	3,692			75				34	31	58					
AVG.	119			2				1	1			164.7	28.9	7.0	44.5
RUN YEAR															
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK					STEELHEAD	WILD STEELHEAD	BULL TROUT					
SPRING		3,692	75					151	133	58					

TABLE 157

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROCKY REACH PROJECT
JUNE 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	TEMP DEG F
Jun 1	201			24			0	0	0	5		179.5	37.8	6.0	54.6
Jun 2	135			10			0	2	2	6		192.4	27.2	6.0	54.7
Jun 3	97			10			0	0	0	3		204.9	32.3	5.0	54.6
Jun 4	87			17			0	0	0	4		187.3	30.2	6.0	54.9
Jun 5	151			16			0	1	1	2		189.9	37.8	6.0	55.0
Jun 6	86			19			0	0	0	1		211.8	41.8	6.0	55.1
Jun 7	93			11			0	0	0	0		206.9	43.3	6.0	55.8
Jun 8	94			11			0	1	0	3		195.8	39.4	6.0	56.2
Jun 9	116			11			0	0	0	1		207.3	35.6	6.0	56.3
Jun 10	98			17			0	0	0	1		190.5	50.0	6.0	56.2
Jun 11	86			3			0	0	0	2		216.1	66.3	6.0	56.0
Jun 12	58			6			0	1	1	3		221.4	56.7	7.0	55.9
Jun 13	76			5			0	0	0	0		210.2	48.6	2.0	55.8
Jun 14	55			7			1	0	0	1		217.2	40.4	5.0	55.9
Jun 15	53			6			0	0	0	0		215.8	39.8	6.0	56.1
Jun 16	46			5			2	0	0	3		226.5	53.3	6.0	56.6
Jun 17	41			8			8	0	0	0		205.8	35.4	6.0	56.4
Jun 18	66			8			8	0	0	1		185.0	25.4	6.0	56.4
Jun 19	45			5			6	0	0	1		198.7	28.9	6.0	56.7
Jun 20	59			5			12	0	0	2		197.9	27.1	6.0	56.8
Jun 21	128			6			15	1	1	1		186.1	24.7	6.0	56.8
Jun 22	104			1			7	0	0	1		224.4	49.3	6.0	57.5
Jun 23	275			4			19	0	0	0		182.4	24.3	11.5	57.5
Jun 24		500		4			25	1	1	1		182.6	17.6	11.5	57.8
Jun 25		372		6			70	1	0	1		176.7	17.9	11.5	58.4
Jun 26		514		7			80	0	0	1		175.7	15.7	11.5	58.5
Jun 27		871		5			149	1	0	2		172.2	16.7	11.5	59.2
Jun 28		740		11			204	3	1	0		173.9	16.9	13.0	59.8
Jun 29		864		18			356	1	0	1		155.9	16.4	13.0	60.0
Jun 30		987		16			388	1	0	2		151.4	12.6	13.0	60.2
TOTAL	2,250	4,848		282			1,350	14	7	49					
AVG.	98	693		9			45	0	0	2		194.7	33.6	7.5	56.7

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	5,942	290
SPRING	4,848	67
SUMMER	1,094	223
TOTALS	10,790	357

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT
1,350	165	140	107

TABLE 158

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROCKY REACH PROJECT
JULY 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	TEMP DEG F
Jul 1		955		13			442	3	2	1	0	141.9	12.1	13.0	60.7
Jul 2		733		28			599	2	2	1	1	99.2	10.8	13.0	60.9
Jul 3		1,604		30			423	6	3	0	0	121.2	12.5	13.0	61.1
Jul 4		1,234		29			833	3	1	2	0	95.3	10.3	13.0	61.8
Jul 5		1,375		23			1,123	1	1	0	0	146.1	14.3	14.0	62.3
Jul 6		1,823		27			1,193	1	1	0	1	143.6	14.1	14.0	62.3
Jul 7		1,385		33			1,440	3	1	0	0	149.3	13.3	14.0	61.6
Jul 8		1,436		34			1,241	5	3	0	1	155.1	12.6	14.0	61.5
Jul 9		1,409		69			1,577	8	4	0	0	116.1	9.5	14.0	61.7
Jul 10		1,472		47			1,535	2	0	0	0	155.8	13.8	14.0	62.3
Jul 11		1,581		49			2,437	9	6	1	0	138.7	13.0	14.0	62.4
Jul 12		1,236		64			1,471	8	5	0	0	128.7	11.7	16.0	62.5
Jul 13		1,027		43			923	6	6	0	0	131.7	11.6	18.0	62.6
Jul 14		999		35			1,177	5	1	0	0	141.5	11.2	18.0	62.4
Jul 15		729		18			704	11	6	0	0	148.6	9.6	18.0	62.5
Jul 16		1,058		52			688	4	1	0	0	113.7	8.5	18.0	62.8
Jul 17		984		29			799	10	7	0	0	125.5	12.0	18.0	63.1
Jul 18		911		26			587	8	6	0	0	131.3	13.3	18.0	63.1
Jul 19		789		47			758	14	4	0	0	142.4	12.3	18.0	63.1
Jul 20		644		39			620	12	5	1	1	123.3	12.3	18.0	63.0
Jul 21		643		34			618	19	15	0	0	129.9	11.9	18.0	63.1
Jul 22		527		30			401	13	5	0	2	128.1	9.5	18.0	63.7
Jul 23		546		25			335	11	6	0	1	100.3	6.7	18.0	63.9
Jul 24		802		56			369	28	13	1	3	137.3	10.6	17.5	64.7
Jul 25		772		40			318	25	15	2	0	132.5	11.7	17.5	65.2
Jul 26		572		28			217	29	16	1	4	114.4	11.2	17.0	65.4
Jul 27		492		20			225	26	13	1	2	135.3	11.7	17.0	65.8
Jul 28		441		44			183	34	16	2	3	141.4	10.1	17.0	65.9
Jul 29		526		39			136	31	16	1	3	98.2	10.5	17.0	65.8
Jul 30		579		28			79	35	14	0	1	74.5	8.1	15.0	65.7
Jul 31		419		36			91	29	12	0	0	118.5	10.7	15.0	65.5
TOTALS		29,703		1,115			23,542	401	206	14	23				
AVG.		958		36			759	13	7		1	127.7	11.3	16.0	63.2

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	5,942	290
SUMMER	34,551	1,182
TOTAL	40,493	1,472

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
24,892	566	346	121	23

TABLE 159

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROCKY REACH PROJECT
AUGUST 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
SPRING	SUMMER	FALL	SECCHI											DEG F	
Aug 1		316		30			68	36	15	0	2	112.7	8.7	16.0	65.5
Aug 2		436		53			49	29	14	0	0	112.6	9.0	16.0	65.5
Aug 3		423		35			49	32	13	0	2	117.0	10.0	16.0	65.8
Aug 4		282		36			31	27	9	0	1	89.3	9.1	16.0	65.7
Aug 5		428		47			34	37	15	0	5	101.8	7.9	16.0	65.6
Aug 6		231		25			16	25	9	0	3	80.8	6.5	17.5	65.7
Aug 7		269		32			26	25	10	0	6	125.4	9.0	17.5	66.2
Aug 8		250		17			23	36	15	0	2	111.9	9.4	17.5	66.4
Aug 9		346		38			17	37	14	0	3	112.6	9.8	18.0	66.4
Aug 10		391		25			21	56	26	1	3	86.4	7.2	18.0	66.4
Aug 11		484		34			15	65	26	0	6	90.5	7.2	18.0	66.2
Aug 12		427		29			15	44	20	0	5	68.1	0.0	18.0	66.2
Aug 13		396		24			15	53	30	0	4	66.9	0.0	18.0	66.6
Aug 14		209		20			15	35	18	0	6	109.6	0.0	18.0	67.0
Aug 15		248		16			4	35	12	0	2	101.9	0.0	18.0	67.3
Aug 16		207		20			11	39	19	0	4	95.7	0.0	18.0	67.4
Aug 17		294		27			10	56	19	0	2	107.7	0.0	18.0	67.3
Aug 18		299		24			10	46	24	0	8	106.4	0.0	18.0	67.1
Aug 19		181		14			2	38	13	0	9	87.0	0.0	18.0	67.1
Aug 20		187		23			6	60	19	0	8	70.9	0.0	18.0	67.1
Aug 21		122		10			5	78	24	0	3	105.9	0.0	18.0	67.1
Aug 22		98		21			7	60	15	0	7	115.0	0.0	18.0	67.4
Aug 23		65		14			5	81	28	0	6	124.4	0.0	18.0	67.6
Aug 24		153		16			3	114	38	0	4	122.0	0.0	19.0	67.6
Aug 25		145		20			4	95	34	0	9	111.8	0.0	19.5	67.8
Aug 26		163		18			1	77	26	0	14	101.7	0.0	20.5	67.8
Aug 27		88		11			3	57	30	0	13	95.4	0.0	20.5	67.9
Aug 28		89		17			2	77	24	0	10	120.2	0.0	20.5	68.1
Aug 29		99		18			2	81	24	0	8	115.9	0.0	23.0	68.0
Aug 30		103		18			2	120	29	0	7	94.9	0.0	23.0	67.6
Aug 31		84		12			2	123	35	0	13	95.5	0.0	23.0	67.1
TOTAL		7,513		744			473	1,774	647	1	175				
AVG.		242		24			15	57	21	0	6	101.9	3.0	18.4	66.8

RUN YEAR		CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		5,942	290
SPRING		42,064	1,926
SUMMER		48,006	2,216

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
25,365	2,340	993	122	198

TABLE 160

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCKY REACH PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

SEPTEMBER 2006

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL											SECCHI	DEG F	
Sep 1		69		18	0		0	70	11	0	6	79.0	0.0	23.0	66.9	
Sep 2			49	10	0		1	96	24	0	15	70.9	0.0	23.0	67.0	
Sep 3			51	16	0		2	90	24	0	5	60.6	0.0	23.0	67.4	
Sep 4			70	25	0		2	92	28	0	11	59.0	0.0	23.0	67.6	
Sep 5			82	14	0		1	146	47	0	8	89.8	0.0	23.0	67.8	
Sep 6			83	41	0		0	90	32	0	9	65.6	0.0	23.0	67.9	
Sep 7			58	17	0		0	151	51	0	14	72.2	0.0	24.0	67.7	
Sep 8			77	17	0		0	137	47	0	2	69.6	0.0	24.0	67.9	
Sep 9			81	28	0		1	176	64	0	6	47.5	0.0	24.0	67.9	
Sep 10			65	27	0		1	129	48	0	5	44.8	0.0	24.0	68.0	
Sep 11			52	19	0		0	153	41	0	10	83.2	0.0	24.0	67.7	
Sep 12			76	19	2		0	170	62	0	2	82.6	0.0	24.0	67.6	
Sep 13			98	39	2		0	199	55	0	4	86.5	0.0	24.0	67.5	
Sep 14			105	17	3		2	218	75	0	4	73.4	0.0	24.0	66.9	
Sep 15			100	39	6		0	231	82	1	9	50.4	0.0	24.0	66.4	
Sep 16			26	20	2		0	152	47	0	6	55.0	0.0	24.0	66.2	
Sep 17			101	24	7		0	239	80	0	4	49.6	0.0	24.0	65.9	
Sep 18			58	31	7		0	191	62	0	3	76.0	0.0	24.0	65.6	
Sep 19			34	33	13		0	183	62	0	4	67.7	0.0	24.0	65.3	
Sep 20			58	22	12		0	234	68	0	1	73.1	0.0	24.0	65.3	
Sep 21			38	19	15		0	151	50	0	5	62.8	0.0	24.0	65.2	
Sep 22			75	26	25		0	243	75	0	2	51.7	0.0	24.0	65.0	
Sep 23			68	29	16		0	183	67	0	0	39.1	0.0	24.0	64.9	
Sep 24			56	23	27		0	108	38	0	2	40.4	0.0	24.0	62.1	
Sep 25			12	10	12		0	81	30	0	0	83.7	0.0	24.0	64.9	
Sep 26			33	15	24		0	95	41	0	1	79.8	0.0	24.0	64.9	
Sep 27			60	28	48		0	164	61	0	3	70.8	0.0	24.0	64.9	
Sep 28			36	17	34		0	132	50	0	6	78.0	0.0	24.0	64.8	
Sep 29			48	13	52		0	136	58	0	5	72.4	0.0	24.0	65.8	
Sep 30			24	18	43		0	117	49	0	4	58.8	0.0	24.0	65.7	
TOTAL		69	1,774	674	350		10	4,557	1,529	1	156					
AVG.			61	22	12		0	152	51	0	5	66.5	0.0	23.8	66.3	

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	5,942	290
SUMMER	42,133	1,944
FALL	1,774	656
TOTALS	49,849	2,890

COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
350	25,375	6,897	2,522	123	354

TABLE 161

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCKY REACH PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

OCTOBER 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Oct 1			74	9	49		0	122	42	0	3	48.9	0.3	24.0	65.7
Oct 2			70	17	39		0	76	28	0	5	65.6	0.0	24.0	64.9
Oct 3			40	11	29		0	70	24	0	2	82.3	0.0	24.0	64.9
Oct 4			47	14	55		0	79	29	0	1	63.7	0.0	24.0	64.9
Oct 5			52	19	79		0	76	27	0	1	69.7	0.0	24.0	64.8
Oct 6			74	12	67		0	59	22	0	1	62.2	0.0	24.0	64.6
Oct 7			44	9	43		0	61	19	0	1	54.7	0.0	24.0	64.4
Oct 8			39	10	38		0	48	21	0	1	48.2	0.0	24.0	64.2
Oct 9			42	7	61		0	42	20	0	0	88.1	0.0	24.0	64.0
Oct 10			26	4	54		0	29	12	1	0	74.0	0.0	23.0	63.5
Oct 11			12	10	31		0	30	12	0	0	85.5	0.0	23.0	63.0
Oct 12			15	7	35		0	25	8	0	0	70.5	0.0	23.0	63.0
Oct 13			26	6	47		0	37	13	0	0	55.3	0.0	23.0	63.0
Oct 14			33	9	54		1	25	12	0	1	46.5	0.0	23.0	63.0
Oct 15			60	15	46		0	11	2	0	0	43.4	0.0	23.0	63.0
Oct 16			38	6	44		0	18	6	0	0	77.9	0.0	23.0	62.1
Oct 17			45	9	43		0	26	15	0	0	64.2	0.0	23.0	62.1
Oct 18			38	5	32		0	22	9	0	0	72.2	0.0	23.0	61.7
Oct 19			41	8	31		1	29	16	0	0	83.8	0.0	23.0	61.7
Oct 20			35	7	31		0	23	8	0	0	70.0	0.0	23.0	61.3
Oct 21			32	10	28		0	18	8	0	0	50.3	0.0	23.0	61.3
Oct 22			30	9	21		0	15	6	0	0	50.7	0.0	23.0	60.8
Oct 23			8	8	14		0	4	2	1	0	84.3	0.0	23.0	60.8
Oct 24			14	2	19		0	10	4	0	0	79.7	0.0	23.0	60.8
Oct 25			32	5	16		0	6	3	0	0	62.8	0.0	23.0	59.0
Oct 26			27	3	11		0	7	1	0	0	69.2	0.0	23.0	59.7
Oct 27			18	4	17		0	16	5	0	0	56.9	0.0	23.0	59.5
Oct 28			28	6	23		0	10	6	0	0	54.0	0.0	23.0	59.5
Oct 29			29	8	16		0	15	2	0	0	59.0	0.0	23.0	59.4
Oct 30			32	5	12		0	5	0	0	0	77.5	0.0	23.0	58.5
Oct 31			26	3	16		0	14	9	0	0	112.5	0.0	23.0	57.9
TOTAL			1,127	257	1,101		2	1,028	391	2	16				
AVG.			36	8	36		0	33	13	0	1	67.2	0.0	23.3	62.2

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	5,942	290
SUMMER	42,133	1,944
FALL	2,901	913
TOTALS	50,976	3,147

COHO ADULT
1,451

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
25,377	7,925	2,913	125	370

TABLE 162

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCKY REACH PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

NOVEMBER 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Nov 1			62	1	10			16	9	0		95.4	0.0	23.0	57.0
Nov 2			23	2	6			11	6	1		100.3	0.0	23.0	57.0
Nov 3			32	1	14			13	3	0		94.5	0.0	23.0	51
Nov 4			35	0	7			10	5	1		55.7	0.0	23.0	51
Nov 5			63	4	8			23	10	0		46.5	0.0	23.0	57
Nov 6			53	4	7			27	14	3		74.0	0.0	23.0	57
Nov 7			48	2	8			26	11	1		80.1	0.0	19.0	57
Nov 8			29	0	1			10	4	0		55.4	0.0	15.0	56
Nov 9			34	1	1			14	7	0		67.5	0.0	15.0	56
Nov 10			21	0	3			13	5	0		91.4	0.0	15.0	56
Nov 11			26	2	1			11	3	0		66.4	0.0	15.0	56
Nov 12			15	2	2			8	4	0		96.0	0.0	15.0	55
Nov 13			9	1	1			10	7	0		97.3	0.0	2.0	54
Nov 14			5	2	3			7	4	1		96.2	0.0	3.0	54
Nov 15												94.4	0.0	*	*
Nov 16												85.0	0.1	*	*
Nov 17												78.5	0.0	*	*
Nov 18												69.9	0.0	*	*
Nov 19												50.3	0.0	*	*
Nov 20												68.7	0.0	*	*
Nov 21												62.9	0.0	*	*
Nov 22												78.9	0.0	*	*
Nov 23												53.4	0.0	*	*
Nov 24												49.6	0.0	*	*
Nov 25												76.0	0.0	*	*
Nov 26												66.0	0.0	*	*
Nov 27												112.2	0.0	*	*
Nov 28												115.1	0.0	*	*
Nov 29												114.7	0.0	*	*
Nov 30												92.5	0.0	*	*
TOTAL			455	22	72			199	92	7					
AVG.			33	2	5			14	7	1		79.5	0.0	16.9	*

*Data unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
TOTALS TO DATE			1,523	25,377	8,124	3,005	132	370
SPRING	5,942	290						
SUMMER	42,133	1,944						
FALL	3,356	935						
TOTALS	51,431	3,169						

TABLE 163

**MONTHLY COUNT OF STEELHEAD
ROCKY REACH DAM: 1981 - 2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1981						14	173	1,309	1,827	1,691	300		5,314
1982				137	116	5	73	1,192	2,863	1,735	120		6,241
1983				31	18	2	334	3,525	11,329	4,048	411		19,698
1984				41	174	127	1,032	5,564	7,263	2,589	438		17,228
1985				63	273	523	3,547	4,152	11,133	2,646	381		22,718
1986				61	178	160	2,003	6,072	4,225	2,222	236		15,157
1987				67	75	80	567	2,574	2,361	1,210	244		7,178
1988				99	108	108	493	1,498	2,439	820	112		5,677
1989				62	41	30	458	1,442	2,721	1,134	151		6,039
1990				24	31	33	534	1,809	1,889	646	67		5,033
1991				19	26	63	584	2,346	2,996	1,473	138		7,645
1992				50	138	203	1,026	1,861	3,051	1,093	94		7,516
1993				49	52	24	346	869	1,066	379	31		2,816
1994				12	11	30	301	578	1,002	821	63		2,818
1995				18	12	9	147	398	827	315	32		1,758
1996				23	26	12	179	1,585	2,868	969	112		5,774
1997				40	15	1	192	1,789	2,901	1,576	208		6,722
1998				71	18	23	281	671	2,025	1,127	226		4,442
1999				35	16	46	198	1,518	2,361	557	84		4,815
2000				62	22	34	679	2,276	4,289	835	78		8,275
2001				83	33	83	1,861	6,843	9,827	3,025	290		22,045
2002				152	33	49	1,441	4,631	4,103	1,332	112		11,853
2003				46	4	40	1,154	3,393	6,649	2,211	153		13,650
2004				177	142	244	1,847	2,571	7,748	1,650	201		14,580
2005				278	85	60	762	2,430	4,589	1,423	83		9,710
2006				117	34	14	401	1,774	4,557	1,028	199		8,124
Total				1,817	1,681	2,017	20,613	64,670	108,909	38,555	4,564		242,826
10-Year Average				106	40	59	882	2,790	4,905	1,476	163		10,422

WELLS DAM

FISH COUNTING SCHEDULE

Adult counting schedules at Wells are from May 1 through November 15. Fish passage is assessed by reviewing a videotape record made the previous day. Passage by species and ladder is made for each hour of the day. Counts between 1967 and 1997 were reported for 16 hours (0500 – 2100 PST). Starting in 1998, as per the request of the Wells Coordinating Committee, counts were reported in a 24 hour (0000 – 2400) format. Either format is available upon request from Douglas PUD. Chinook are separated into three populations based upon date of passage through the ladders. Spring Chinook pass from May 1 through June 28, Summer Chinook between June 29 and August 28, and Fall Chinook from August 29 through November 15.

ADULT PASSAGE FACILITIES

The two fish ladders at Wells Dam are conventional staircase type fish ladders with 73 pools. The ladders are located at the east and west endwalls of the dam. The lower 56 pools discharge a constant 48 cfs dropping one foot at each pool into the attraction chamber in the lower ladder. Discharge from pool 73 through pool 57 is through two 30 inch by 16 1/2 inch submerged orifices. Discharge from pool 56 to pool 1 is over a seven foot wide overflow section in the wall between pools with additional flow through two 18 inch by 15 inch submerged orifices. Pools 67 and 68 have adult PIT-tag detection weirs that interrogate passage of all adults just prior to the ladder exit. Information on PIT-tag detection of adults using both east and west ladders is found on the PTAGIS web page (<http://www.pittag.org/>). Pool No. 64 of both fishways contains facilities for counting fish. The main features of this facility are a counting room with an observation window adjacent to the fish ladder, a telescoping gate and light panel are used to guide the fish closer to the observation window. At pool 40 are provisions for sorting and trapping various species of fish. The fisheries agencies and tribes develop broodstock collection protocols at the beginning of each season for collection of spring and summer chinook, sockeye and coho salmon and summer steelhead. These plans are submitted for review by the fisheries agencies and tribes that serve on the Wells Habitat Conservation Plan Coordinating Committee.

At the bottom of the fish ladder, projecting downstream from the line of the hydrocombine is the portion of the endwall structure which incorporates the functions of fish attraction and collection. Two-turbine pumps deliver attraction flow to the water supply chamber located adjacent to the ladder. The total flow from the turbine pump(s) plus the 48 cfs coming down the ladder from the reservoir is discharged to the tailwater through a single fish attraction opening per ladder. These openings are eight-foot wide vertical slot openings with vertical miter gates. Originally an additional set of side gates were provided. Ladder entrances were designed to have the side gate be open at 2 – 4' and the end gate would automatically adjust its width to maintain a one foot differential in the collection chamber. Since July 1970, the side gate has been set at a four foot opening with the end gate fixed at six feet. A 1.5 foot differential is maintained as the two turbine pumps adjust output. On June 29, 2000, the joint fisheries

parties agreed to have the side entrances permanently closed. This decision was based upon several years of radio telemetry studies with various species of anadromous fish that showed improved passage times with the side gates closed. The 1.5 foot differential remains in affect for the entrance to the ladder.

FISH LADDER OPERATING SCHEDULE

Annual maintenance is performed on the ladders at Wells to clean the ladder of debris and service the attraction flow pumps. During this time the ladders are taken out of service and de-watered. The dates of this work in 2006 were as follows:

East Ladder

January 1 - 10 Inspection and Maintenance

December 20 – 31 (Outage will extend into 2007)

West Ladder

January 16 – February 23 Inspection and Maintenance

JUVENILE PASSAGE FACILITES

The juvenile bypass at Wells Dam uses the hydrocombine design of the dam by modifying five of the eleven spill bays. The even numbered spill bays are partially constricted with barriers that improve the attraction flow from the forebay into the spill bay area. Up to 11,000 cfs of water is made available for bypass flow during the juvenile migration.

The operation of the bypass in 2006 was coordinated with the Wells Habitat Conservation Plan Coordinating Committee. In the past, hydroacoustics and fyke netting have provided information on real time data of the fish migration. The fixed dates agreed to by the HCP Coordinating Committee were established from 21 years of hydroacoustic and 14 years of species composition information collected on juvenile run patterns at Wells Dam. The spring period ran from April 12 through June 13 for a total of 63 days and a total discharge of 1.3 MAF, or 5.8% of total project discharge. The summer bypass started on June 14 and ran through August 26 for a total of 75 days and a project discharge of 1.2 MAF or 6.3% of the total discharge.

MISCELLANEOUS

In 2006, radio telemetry receivers were located at Wells Dam to monitor bull trout radio-tagged by the USFWS. Antenna and receiving units were installed at Wells Dam as well as in neighboring tributaries.

The digital recording system for records of fish passage at both ladders at Wells Dam continued to be improved in 2006. The system has a redundant factor where two digital

recording devices are archiving both ladders at the same time. The storage is capable of achieving twelve months of records from both ladders. This system also allows for a live digital view from any Douglas PUD desktop computer hooked into the District's network. This allows for questions with identification to be shared with staff biologists in a real time review. At the end of 2006, an uninterruptible power source (UPS) was purchased to provide full coverage records of fish passing. This will be in place for the 2007 count season.

The District talked with fisheries agencies and tribes that serve on the HCP Coordinating Committee for a way to reduce delay of ascending adults through the Fish Collection Gallery at the base of the fish ladder at Wells Dam. To help with the discussions, a model of the lower portion of the Wells ladder was made by Northwest Hydraulic Consultants in Vancouver B.C. Initial tests showed flows through the diffusion grates were balanced, without any "hot spots" of flow. During a demonstration, a partially constricting baffle was placed in the model showing a dramatic improvement in attraction flow over 20 feet further into the collection gallery. This concept has been successfully applied at several Snake River dams. In 2007, a single ladder will be fitted with a baffle to focus attraction flow waters from the ladder and improve passage of ascending adult salmon. The feature will be assessed with a radio telemetry study schedule for the summer of 2007.

TABLE 164

MONTHLY TOTALS OF SALMONIDS AND LAMPREY COUNTED OVER WELLS DAM
2006

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*					1,879	3,019	18,579	8,454	2,903	1,520	261		36,615
STEELHEAD					28	16	138	922	4,017	1,248	305		6,674
SOCKEYE						316	20,164	1,526	47	22			22,075
COHO									45	336	28		409
TOTAL					1,907	3,351	38,881	10,902	7,012	3,126	594		65,773
LAMPREY					6	0	3	2	10				21
BULL TROUT					41	47	11	0	0	1			100

*Jacks included

TABLE 165

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

WELLS PROJECT
MAY 2006

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
May 1	0			0				3	2	0	0	168.0	19.7	9.0	48.0
May 2	0			0				0	0	0	0	180.3	15.1	7.0	47.9
May 3	0			0				7	5	0	0	178.3	14.2	7.0	48.0
May 4	0			0				3	2	0	1	158.3	10.0	8.0	48.3
May 5	0			0				1	1	0	0	171.0	27.4	7.0	48.4
May 6	0			0				1	1	0	0	167.9	23.0	7.0	48.6
May 7	1			0				0	0	0	0	146.0	9.4	7.0	49.1
May 8	0			0				0	0	0	0	170.7	29.2	7.0	49.1
May 9	0			0				0	0	0	0	151.6	22.9	7.0	49.0
May 10	1			0				0	0	0	0	140.2	10.5	7.0	49.3
May 11	0			0				1	1	0	0	157.7	13.6	12.0	49.5
May 12	3			0				1	0	0	0	161.1	10.0	9.0	49.7
May 13	3			0				1	1	0	0	141.2	10.0	8.0	50.2
May 14	0			0				0	0	0	0	103.8	19.9	8.0	51.0
May 15	0			0				1	1	0	0	149.2	11.6	7.0	51.6
May 16	13			0				1	1	2	0	132.3	20.4	5.0	51.8
May 17	17			0				1	0	0	2	149.0	29.2	4.0	52.4
May 18	8			0				1	1	1	1	172.7	70.6	3.0	53.0
May 19	45			1				0	0	2	1	135.9	30.2	2.0	53.1
May 20	64			0				0	0	0	1	121.2	15.0	4.0	52.8
May 21	51			1				0	0	1	0	117.0	11.8	4.0	52.6
May 22	215			3				0	0	0	0	135.2	12.1	4.0	52.3
May 23	201			0				4	4	0	0	134.4	14.1	4.0	52.4
May 24	219			1				1	1	4	0	144.9	15.7	5.0	52.7
May 25	143			0				0	0	4	0	178.2	27.8	4.0	52.7
May 26	190			2				1	0	4	0	216.1	72.8	5.0	53.0
May 27	205			2				0	0	5	0	229.6	93.1	6.0	53.0
May 28	123			2				0	0	6	0	250.3	119.1	6.0	53.4
May 29	95			4				0	0	1	0	246.9	115.1	6.0	54.0
May 30	185			5				0	0	4	0	241.4	105.0	6.0	54.4
May 31	74			2				0	0	7	0	174.7	29.8	5.0	55.0
TOTAL	1,856			23				28	21	41	6				
AVG.	60			1				1	1	1	0	165.3	33.2	6.1	51.2
RUN YEAR															
TOTALS TO DATE															
SPRING	1,856			23				28	21	41	6				

TABLE 166

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

WELLS PROJECT
JUNE 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jun 1	23			3			0	1	0	1		174.3	44.9	5.0	55.1
Jun 2	67			7			0	1	0	2		193.1	59.8	7.0	54.9
Jun 3	196			7			0	1	0	3		208.5	72.0	7.0	55.1
Jun 4	99			9			0	1	1	4		191.4	67.0	7.0	55.3
Jun 5	36			9			0	2	2	1		192.9	60.3	7.0	55.3
Jun 6	25			5			0	0	0	0		212.6	63.9	7.0	55.8
Jun 7	93			8			0	1	1	2		210.2	73.6	7.0	56.1
Jun 8	44			7			0	1	1	2		196.0	49.5	7.0	56.3
Jun 9	181			19			0	1	1	0		207.4	52.7	5.0	56.3
Jun 10	25			17			0	2	2	0		186.4	58.4	7.0	56.1
Jun 11	99			14			0	0	0	0		214.3	81.0	5.0	55.9
Jun 12	38			4			0	1	0	0		219.5	81.1	7.0	56.0
Jun 13	40			17			0	0	0	2		210.1	66.4	7.0	56.1
Jun 14	45			7			0	0	0	1		213.6	72.3	7.0	56.0
Jun 15	35			7			0	0	0	2		216.3	75.3	7.0	56.6
Jun 16	68			6			0	0	0	2		224.0	87.1	7.0	56.5
Jun 17	48			5			2	0	0	1		205.1	69.8	7.0	56.3
Jun 18	5			1			0	0	0	0		182.9	37.7	7.0	56.6
Jun 19	44			10			1	0	0	4		198.0	50.2	5.0	56.8
Jun 20	48			7			5	0	0	2		199.2	50.0	7.0	56.9
Jun 21	48			8			7	0	0	0		194.7	41.3	7.0	57.7
Jun 22	10			1			7	0	0	3		226.2	88.7	9.0	57.5
Jun 23	42			4			3	0	0	4		180.5	21.9	9.0	57.8
Jun 24	30			2			2	0	0	3		188.2	38.0	9.0	58.5
Jun 25	118			3			14	0	0	3		173.6	20.3	10.0	59.1
Jun 26	43			1			10	1	1	2		176.5	11.2	10.0	59.3
Jun 27	293			4			34	0	0	0		175.6	18.9	10.0	59.8
Jun 28	460			2			60	1	1	0		173.5	16.5	10.0	60.0
Jun 29		325		12			72	0	0	1		152.0	10.1	10.0	60.3
Jun 30		176		9			99	2	2	2		156.1	15.9	12.0	60.5
TOTAL	2,303	501		215			316	16	12	47					
AVG.	82	251		7			11	1	0	2		195.1	51.9	7.6	57.0
RUN YEAR															
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK				SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY				
SPRING		4,159	217				316	44	33	88	6				
SUMMER		501	21												
TOTAL		4,660	238												

TABLE 167

MONTHLY FISH PASSAGE SUMMARY REPORT

WELLS PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

JULY 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jul 1		105		11			145	0	0	2	0	132.9	9.8	10.0	60.4
Jul 2		310		9			140	0	0	0	0	100.0	7.2	10.0	60.8
Jul 3		795		26			292	1	0	0	0	114.5	7.8	10.0	61.6
Jul 4		1,507		21			390	3	2	2	0	97.8	7.7	10.0	62.0
Jul 5		682		9			442	0	0	0	0	145.0	9.0	10.0	61.7
Jul 6		960		26			639	1	0	1	0	145.5	10.0	10.0	61.3
Jul 7		1,024		14			648	0	0	2	0	148.0	10.0	12.0	61.1
Jul 8		697		30			763	0	0	1	0	150.2	9.4	13.0	61.6
Jul 9		1,107		57			1,307	4	4	0	0	117.9	8.9	13.0	61.9
Jul 10		262		15			941	0	0	1	1	158.8	10.0	13.0	62.2
Jul 11		1,384		38			1,277	3	2	1	0	138.8	10.0	12.0	62.5
Jul 12		1,319		38			1,276	5	1	1	0	129.5	10.0	12.0	62.4
Jul 13		886		35			1,387	5	1	0	0	132.9	8.5	13.0	62.3
Jul 14		221		9			1,155	1	1	0	0	144.7	8.5	13.0	62.4
Jul 15		803		36			741	3	3	0	0	151.8	22.3	13.0	62.8
Jul 16		195		20			767	4	3	0	0	103.6	7.3	12.0	62.8
Jul 17		458		21			1,032	5	5	0	0	131.0	8.3	12.0	63.0
Jul 18		406		32			650	7	3	0	0	133.6	10.0	14.0	62.8
Jul 19		414		41			770	6	2	0	0	139.7	9.9	14.0	62.8
Jul 20		187		28			773	4	2	0	0	127.6	8.5	12.0	62.9
Jul 21		932		34			899	5	2	0	0	133.4	8.0	12.0	63.4
Jul 22		241		26			553	9	2	0	0	127.6	8.3	12.0	63.9
Jul 23		440		16			820	7	5	0	1	106.4	7.9	12.0	64.5
Jul 24		638		20			535	4	1	0	0	136.7	8.8	12.0	65.1
Jul 25		340		9			430	7	5	0	0	127.8	9.2	12.0	65.2
Jul 26		338		20			336	15	11	0	0	115.8	7.5	12.0	65.5
Jul 27		233		18			241	6	6	0	0	139.7	8.4	12.0	65.6
Jul 28		346		13			289	12	7	0	0	140.6	12.4	12.0	65.7
Jul 29		233		23			217	10	7	0	1	102.6	8.0	12.0	65.8
Jul 30		222		27			128	6	5	0	0	67.8	5.9	12.0	65.7
Jul 31		152		20			181	5	2	0	0	123.8	8.6	12.0	65.5
TOTAL		17,837		742			20,164	138	82	11	3				
AVG.		575		24			650	4	3	0	0	127.9	9.2	11.9	63.1

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	4,159	217
SUMMER	18,338	763
TOTAL	22,497	980

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
20,480	182	115	99	9

TABLE 168

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

WELLS PROJECT
AUGUST 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Aug 1		221		14			213	13	4		1	110.0	7.8	12.0	65.8
Aug 2		160		16			139	8	3		0	117.5	9.4	12.0	65.5
Aug 3		164		25			99	10	3		0	117.3	9.7	12.0	65.2
Aug 4		39		3			82	8	2		0	89.1	6.5	12.0	65.5
Aug 5		539		41			144	13	6		0	104.6	6.9	11.0	65.9
Aug 6		251		19			87	21	9		0	81.4	6.5	11.0	66.2
Aug 7		560		36			95	13	8		0	125.8	8.3	11.0	66.3
Aug 8		125		23			77	11	2		0	116.5	7.7	11.0	66.3
Aug 9		110		22			45	14	5		0	105.5	7.6	11.0	66.1
Aug 10		102		33			62	28	12		0	95.0	6.9	15.0	66.3
Aug 11		144		28			38	17	8		0	91.8	7.1	15.0	66.9
Aug 12		1,609		65			68	29	10		0	70.1	6.5	14.0	66.9
Aug 13		741		43			58	23	10		0	71.8	6.7	15.0	67.3
Aug 14		281		34			60	30	15		0	113.7	8.3	16.0	67.4
Aug 15		212		27			42	23	7		1	102.4	7.0	15.0	67.4
Aug 16		276		22			31	23	9		0	99.8	6.9	16.0	67.1
Aug 17		84		30			22	27	12		0	114.1	7.2	16.0	66.7
Aug 18		69		12			16	31	10		0	100.7	6.4	15.0	67.0
Aug 19		79		37			25	43	15		0	92.8	6.6	15.0	67.5
Aug 20		173		29			7	24	13		0	73.2	5.6	15.0	67.6
Aug 21		266		28			18	30	9		0	114.7	7.4	15.0	67.8
Aug 22		254		33			20	30	10		0	120.7	7.9	14.0	68.0
Aug 23		118		26			13	26	7		0	123.6	8.5	14.0	68.1
Aug 24		344		30			16	50	12		0	121.7	8.4	14.0	67.8
Aug 25		132		35			13	60	25		0	116.7	7.2	15.0	68.0
Aug 26		71		19			14	45	10		0	102.5	7.3	14.0	68.2
Aug 27		34		17			7	62	23		0	97.4	0.0	15.0	68.1
Aug 28		175		15			3	34	14		0	120.8	0.0	15.0	68.2
Aug 29			218	11			6	61	29		0	112.2	0.0	14.0	68.2
Aug 30			57	15			3	49	14		0	93.2	0.0	14.0	67.8
Aug 31			29	29			3	66	23		0	103.3	0.0	14.0	67.5
TOTAL		7,333	304	817			1,526	922	339		2				
AVG.		262	101	26			49	30	11		0	103.9	6.2	13.8	67.1
RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK					SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY				
SPRING	4,159	217					22,006	1,104	454	99	11				
SUMMER	25,671	1,525													
FALL	304	55													
TOTAL	30,134	1,797													

TABLE 169

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

WELLS PROJECT
SEPTEMBER 2006

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Sep 1			47	40	0		0	65	20		0	79.9	0.0	14.0	67.9
Sep 2			318	76	0		2	129	39		1	68.7	0.0	14.0	67.9
Sep 3			181	35	0		5	130	43		0	60.5	0.0	13.0	67.9
Sep 4			91	34	0		2	85	28		0	60.9	0.0	13.0	67.7
Sep 5			32	34	0		1	44	14		0	86.3	0.0	14.0	67.8
Sep 6			60	25	0		1	55	17		0	66.2	0.0	14.0	68.2
Sep 7			80	37	0		1	122	36		0	73.0	0.0	14.0	68.2
Sep 8			49	28	0		1	120	28		0	69.6	0.0	14.0	68.3
Sep 9			81	42	0		5	109	36		0	47.9	0.0	12.0	68.1
Sep 10			192	57	0		1	151	48		0	46.4	0.0	12.0	67.9
Sep 11			101	50	0		2	89	28		0	86.6	0.0	11.0	68.0
Sep 12			88	45	0		1	117	39		0	84.6	0.0	10.0	68.1
Sep 13			41	20	0		0	143	42		0	83.7	0.0	10.0	68.0
Sep 14			27	25	0		1	141	50		1	71.9	0.0	10.0	67.3
Sep 15			50	36	0		0	87	22		0	54.5	0.0	12.0	66.6
Sep 16			49	38	0		3	146	36		0	53.0	0.0	12.0	66.3
Sep 17			53	32	0		2	206	84		1	48.7	0.0	12.0	66.4
Sep 18			12	16	0		0	106	37		0	77.3	0.0	12.0	66.4
Sep 19			15	15	0		0	121	35		1	63.4	0.0	12.0	66.3
Sep 20			13	15	1		1	234	89		1	72.9	0.0	12.0	66.0
Sep 21			55	34	0		4	273	114		0	59.5	0.0	15.0	65.7
Sep 22			8	14	2		3	119	46		1	50.3	0.0	15.0	65.6
Sep 23			85	47	1		1	158	74		0	43.3	0.0	15.0	65.5
Sep 24			39	30	7		2	182	64		1	38.7	0.0	15.0	65.6
Sep 25			17	30	3		1	89	33		2	81.6	0.0	15.0	65.8
Sep 26			65	34	0		0	184	66		0	77.7	0.0	15.0	66.0
Sep 27			17	13	1		0	91	30		0	70.8	0.0	15.0	66.0
Sep 28			7	12	4		3	116	41		0	78.8	0.0	13.0	66.1
Sep 29			54	28	11		0	241	120		1	73.6	0.3	13.0	66.2
Sep 30			16	18	15		4	164	68		0	57.8	0.0	13.0	66.1
TOTAL			1,943	960	45		47	4,017	1,427		10				
AVG.			65	32	2		2	134	48		0	66.3	0.0	13.0	66.9

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	4,159	217
SUMMER	25,671	1,525
FALL	2,247	1,015
TOTAL	32,077	2,757

COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
45	22,053	5,121	1,881	99	21

TABLE 170

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

WELLS PROJECT
OCTOBER 2006

DATE	FISH COUNTS					RIVER CONDITIONS									
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Oct 1			33	26	37		4	171	77	0		44.8	0.0	13.0	66.0
Oct 2			8	19	12		0	46	26	0		62.9	0.0	14.0	65.7
Oct 3			46	21	11		1	102	43	0		81.5	0.0	14.0	65.4
Oct 4			23	14	8		1	62	31	0		65.7	0.0	12.0	65.4
Oct 5			11	33	5		0	62	18	0		71.5	0.0	12.0	65.4
Oct 6			26	33	10		0	67	22	0		57.6	0.0	13.0	65.2
Oct 7			50	45	26		0	142	38	0		54.4	0.0	12.0	64.8
Oct 8			43	43	21		0	66	19	0		45.7	0.0	13.0	64.4
Oct 9			14	25	4		0	34	21	0		84.1	0.0	13.0	64.0
Oct 10			18	21	4		0	38	21	0		77.4	0.0	13.0	63.9
Oct 11			20	32	3		1	35	23	0		80.1	0.0	14.0	63.9
Oct 12			9	24	10		2	48	17	0		71.2	0.0	11.0	63.7
Oct 13			19	18	10		2	39	17	0		55.4	0.0	13.0	63.5
Oct 14			21	13	7		1	35	18	0		43.6	0.0	13.0	63.3
Oct 15			52	21	9		0	31	17	0		43.6	0.0	13.0	63.2
Oct 16			10	20	12		0	15	5	0		76.2	0.0	12.0	62.9
Oct 17			16	45	18		1	24	12	0		67.7	0.0	13.0	62.7
Oct 18			65	26	6		1	17	7	0		69.1	0.0	12.0	62.6
Oct 19			52	45	23		1	41	22	0		81.0	0.0	12.0	62.6
Oct 20			54	26	15		1	23	9	0		67.3	0.0	13.0	62.2
Oct 21			79	14	8		1	9	4	0		52.3	0.0	13.0	61.8
Oct 22			52	18	8		2	20	11	0		47.3	0.0	13.0	61.5
Oct 23			22	8	8		0	12	7	0		82.7	0.0	13.0	61.3
Oct 24			24	5	4		1	11	7	0		79.7	0.0	13.0	61.3
Oct 25			24	9	4		1	17	6	0		63.9	0.0	14.0	61.0
Oct 26			16	10	5		0	12	9	0		65.2	0.0	13.0	60.7
Oct 27			17	6	2		1	13	10	0		55.2	0.0	12.0	60.4
Oct 28			10	8	10		0	16	9	0		56.0	0.0	12.0	60.2
Oct 29			19	3	9		0	11	5	0		52.5	0.0	13.0	60.0
Oct 30			19	4	11		0	16	9	0		86.1	0.0	13.0	59.2
Oct 31			7	6	16		0	13	6	1		113.2	0.0	13.0	58.8
TOTAL			879	641	336		22	1,248	546	1					

AVG.			28	21	11		1	40	18			66.3	0.0	12.8	62.8
------	--	--	----	----	----	--	---	----	----	--	--	------	-----	------	------

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	4,159	217
SUMMER	25,671	1,525
FALL	3,126	1,656
TOTAL	32,956	3,398

COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
381	22,075	6,369	2,427	100	21

TABLE 171

MONTHLY FISH PASSAGE SUMMARY REPORT
U.S. ARMY ENGINEER DISTRICT, PORTLAND

WELLS PROJECT
NOVEMBER 2006

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Nov 1			11	5	4			4	3			88.9	0.0	13.0	58.8
Nov 2			37	1	3			12	7			99.6	0.1	7.0	58.4
Nov 3			18	2	3			13	8			86.4	0.0	13.0	58.2
Nov 4			16	9	2			10	3			56.7	0.0	13.0	58.1
Nov 5			7	4	5			8	6			45.8	0.0	13.0	58.0
Nov 6			22	2	1			7	5			72.0	0.0	13.0	57.6
Nov 7			15	3	3			15	7			74.9	0.0	6.0	58.0
Nov 8			7	10	4			34	9			54.8	0.0	4.0	57.7
Nov 9			14	1	1			30	14			68.4	1.0	4.0	56.8
Nov 10			4	1	0			29	14			85.9	1.0	3.0	55.5
Nov 11			19	2	1			54	22			66.9	0.0	3.0	56.1
Nov 12			13	1	0			38	19			93.5	0.0	3.0	56.1
Nov 13			4	2	0			22	12			91.2	0.0	3.0	56.0
Nov 14			4	2	1			9	5			96.8	0.1	13.0	55.7
Nov 15			23	2	0			20	12			91.2	0.0	13.0	55.5
Nov 16												80.0	0.0	*	*
Nov 17												81.2	0.0	*	*
Nov 18												65.8	0.0	*	*
Nov 19												48.6	0.0	*	*
Nov 20												68.2	0.0	*	*
Nov 21												63.3	0.0	*	*
Nov 22												74.2	0.0	*	*
Nov 23												48.0	0.0	*	*
Nov 24												52.3	0.0	*	*
Nov 25												74.3	0.0	*	*
Nov 26												65.4	0.0	*	*
Nov 27												109.4	0.0	*	*
Nov 28												108.5	0.0	*	*
Nov 29												112.1	0.0	*	*
Nov 30												89.4	0.0	*	*

TOTALS			214	47	28			305	146						
AVG.			14	3	2			20	10			77.1	0.1	8.3	57.1

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
TOTALS TO DATE			409					
SPRING	4,159	217		22,075	6,674	2,573	100	21
SUMMER	25,671	1,525						
FALL	3,340	1,703						
TOTAL	33,170	3,445						

TABLE 172

**MONTHLY COUNT OF STEELHEAD
WELLS DAM: 1976 - 2006**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1976					44	37	56	530	1964	1856	156		4,643
1977					37	22	38	1,034	818	2,849	526		5,324
1978					177	32	12	399	432	528			1,580
1979					72	2	22	1,212	938	1,040	355		3,641
1980					202	24	15	382	1,032	1,358	413		3,426
1981					139	23	107	212	1,702	1,401	513		4,097
1982					149	7	67	814	2,428	3,733	730		7,928
1983					26	2	145	1,891	10,728	5,294	1,327		19,413
1984					153	32	766	5,024	6,545	3,298	778		16,596
1985					220	401	2,675	3,387	9,822	2,821	541		19,867
1986					65	102	1,515	4,994	3,833	2,391	403		13,303
1987					13	29	413	1,897	1,668	1,236	237		5,493
1988					85	103	357	1,273	1,797	785			4,400
1989					43	11	351	1,168	2,223	804			4,600
1990					20	16	283	1,093	1,630	702	104		3,848
1991					14	8	361	2,054	3,078	1,923	313		7,751
1992					86	168	892	1,448	2,946	1,346	181		7,067
1993					48	10	240	706	883	490	23		2,400
1994					7	8	240	442	670	695	121		2,183
1995					5	6	77	160	509	188	**		945
1996					11	7	79	764	2,099	921	246		4,127
1997					38	6	82	868	1,758	1,199	156		4,107
1998					5	3	161	363	1,031	995	110		2,668
1999					13	33	106	903	1,941	446	62		3,504
2000					23	6	309	1,338	3,661	857	86		6,280
2001					30	34	947	5,404	8,326	3,339	403		18,483
2002					66	33	957	3,630	3,388	1,244	157		9,475
2003					21	10	456	2,346	4,618	2,320	192		9,963
2004					74	56	916	1,709	5,039	1,401	122		9,317
2005					63	14	366	1,590	3,287	1,738	145		7,203
2006					28	16	138	922	4,017	1,248	305		6,674
TOTAL					1,977	1,261	13,149	49,957	94,811	50,446	8,705		220,306
10-Year Average					36	21	444	1,907	3,707	1,479	174		7,767

**Wells Dam did not count in November of 1995.

ADDENDUM
Corrections to previous reports

DATE	PROJECT	FISH SPECIES	COUNT	TABLES AFFECTED
2003	Lower Granite	Steelhead	180,672	See https://www.nwp.usace.army.mil/op/fishdata/home.asp for data Table 132 - "Yearly Totals of Salmonids Counted Over Lower Granite Dam".
2005	Bonneville	Chinook	78,341	See https://www.nwp.usace.army.mil/op/fishdata/home.asp for data Table 19 - "Monthly Count of Chinook Salmon" number corrected for Spring (Jan 1 – Mar 31).