



US Army Corps
of Engineers®
Portland District
Walla Walla District

Annual Fish Passage Report 2007



Columbia and Snake River Projects

2007

**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**

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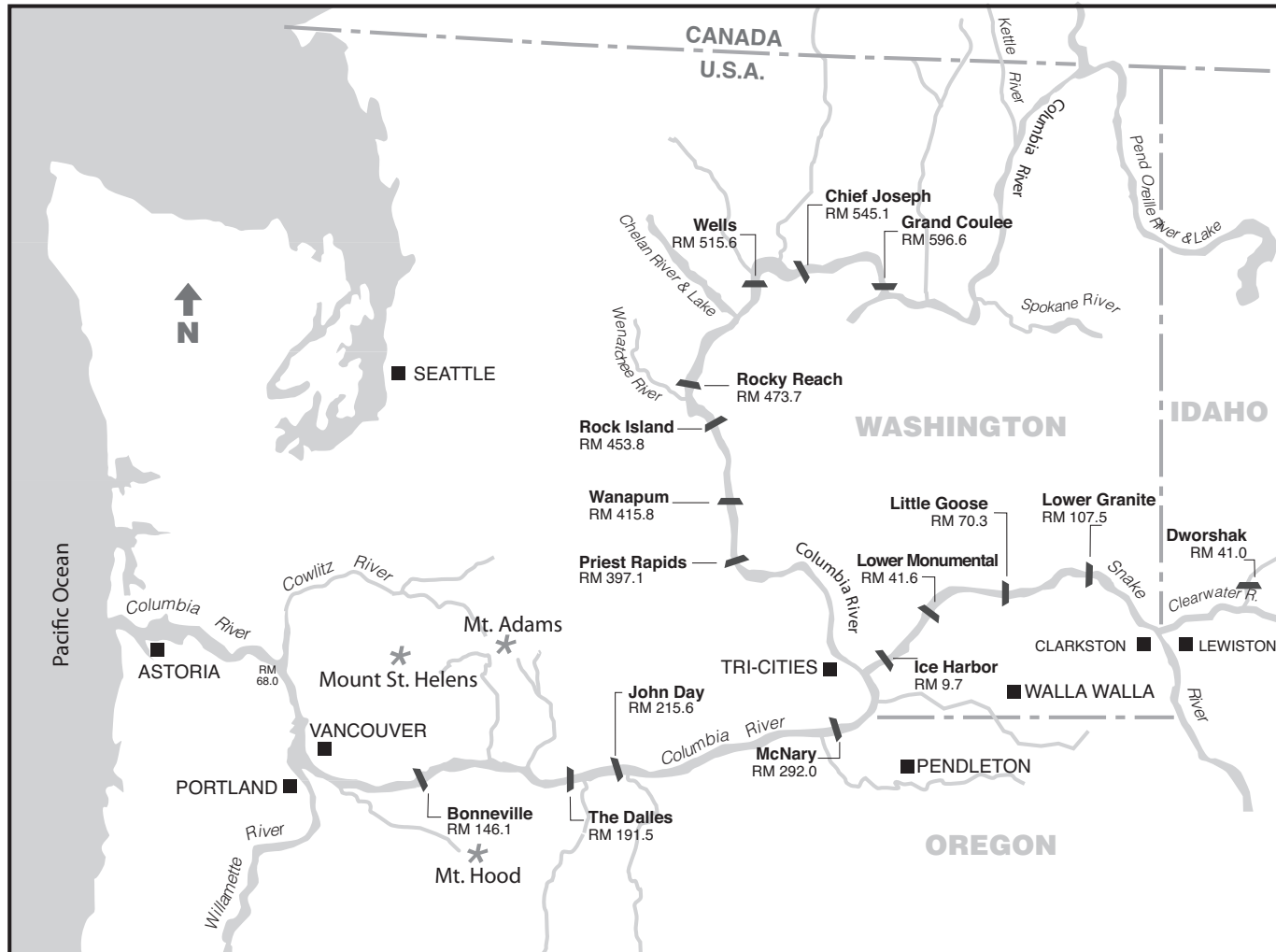
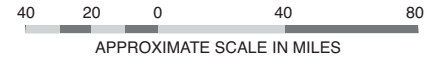


TABLE 1

FISH ESCAPEMENT AT MAIN STEM DAMS ON THE COLUMBIA AND SNAKE RIVERS: 2003-2007

SPECIES	BONNEVILLE	THE DALLES	JOHN DAY	M McNARY	ICE HARBOR	LOWER MONUMENTAL	LITTLE GOOSE	LOWER GRANITE
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	**	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
2007								
CHINOOK*	357,375	252,215	214,329	178,802	69,105	73,333	60,398	62,530
Spring*	83,230	68,201	57,042	51,104	35,355	35,064	31,187	31,455
Summer*	61,568	52,062	47,908	42,436	10,599	13,362	10,759	11,096
Fall*	212,577	131,952	109,379	85,262	23,151	24,907	18,452	19,979
Jacks	83,054	65,200	61,316	49,740	19,635	17,371	18,120	22,146
STEELHEAD	320,931	241,898	227,198	208,788	153,619	154,104	135,414	157,345
SOCKEYE	24,376	19,124	24,277	18,175	55	44	37	52
COHO*	96,058	32,749	39,226	22,587	2,147	2,231	2,141	2,798
Adults	91,994	30,661	33,017	20,217	1,994	2,092	1,963	2,532
Jacks	4,064	2,088	6,209	2,370	153	139	178	266
SHAD	2,575,277	3,591,988	227,198	985,466	202,818	**	**	21,386
LAMPREY	19,313	6,085	5,744	3,454	290	138	72	34

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: 2003 - 2007

SPECIES	PRIEST RAPIDS	ROCK ISLAND	ROCKY REACH	WELLS
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
2007				
CHINOOK*	65,962	47,659	34,581	22,280
Spring*	5,884	9,577	3,805	2,793
Summer*	33,045	34,352	27,829	16,817
Fall*	27,033	3,730	2,947	2,670
Jacks	5,960	9,974	7,450	5,362
STEELHEAD	15,183	13,296	10,146	7,500
SOCKEYE	24,645	25,122	20,683	22,273
COHO*	12,310	17,152	4,738	2,432
Adults	11,488	16,604	4,634	2,432
Jacks	822	548	104	**
SHAD	1,015	**	**	**
LAMPREY	6,593	1,299	541	35

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

SPRING	15 APR -	14 APR -	14 APR -	1 MAY -
	31 MAY	23 JUN	23 JUN	28 JUN
SUMMER	1 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	15 NOV	15 NOV	15 NOV

*Includes jack counts.

TABLE 3 and TABLE 4

STEELHEAD OVER COLUMBIA AND SNAKE RIVER DAMS 1953-2007

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 - 2007
 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
2006-07	250,603	233,841	210,672	127,216	135,029	124,052	148,982
Total	8,275,317	6,153,696	6,461,160	4,097,205	3,334,755	2,312,438	3,064,007
10-Year Average	255,422	258,010	202,600	154,467	149,233	137,733	147,058

*Partial year

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

Note: Extended video counts from participating projects included for 1996 - 2007.

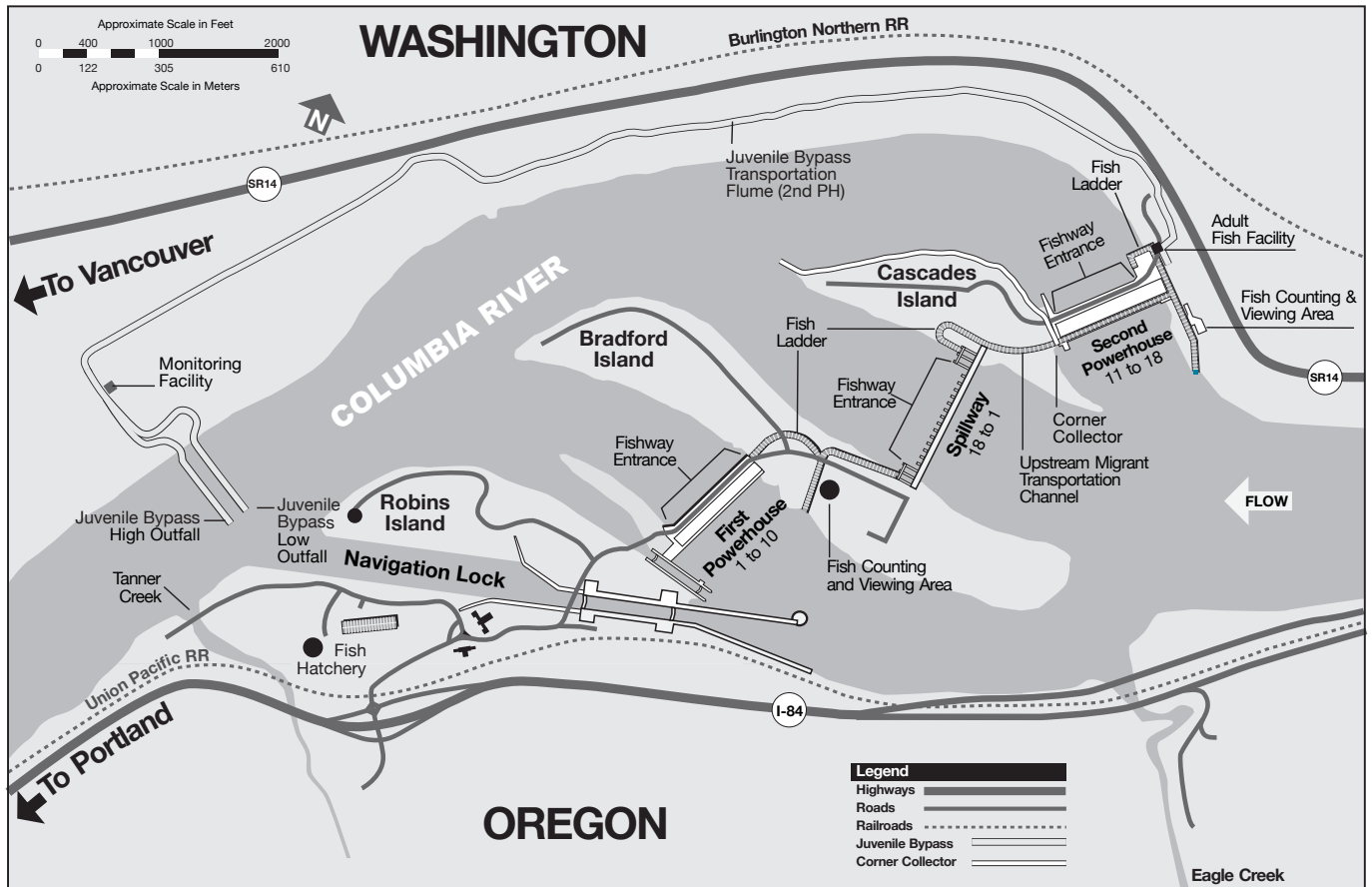
TABLE 4

STEELHEAD OVER MID COLUMBIA RIVER DAMS 1959 - 2007
 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
2006-07	10,415	9,371	8,141	6,691
Total	533,898	342,863	242,994	220,351
10-Year Average	13,967	13,232	10,433	7,768

*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>Out of Service</i>	<i>In Service</i>	<i>Reason for Outage</i>
Washington Shore Ladder	01 Jan	22 Feb	Winter Maintenance
Cascades Island Ladder	01 Jan	25 Feb	Winter Maintenance
BI Lamprey Ramp	01 Jan	23 Mar	Winter Maintenance
BI Lamprey Ramp	24 Oct	31 Dec	Winter Maintenance
WA Shore Lamprey Ramp	NA	18 Jun	Installation complete
WA Shore Lamprey Ramp	24 Oct	31 Dec	Winter Maintenance
Cascades Island exit	01 Jan	01 Oct	UMT closed for VBS modifications
UMT	01 Jan	09 Mar	VBS modifications to PH2 gatewells
UMT	01 Oct	31 Dec	VBS modifications to PH2 gatewells
AFF	01 Jan	26 Mar	Winter Maintenance
DSM1	01 Jan	13 Sep	Open and running for Kelt passage.
DSM2	01 Jan	16 Feb	Winter Maintenance
DSM2	23 May	24 May	ERG tripped due to high debris loads clogging dewatering screens
DSM2	27 Jun	27 Jun	ERG was intentionally tripped so screens could be inspected. Screen #3 was found to be completely occluded with debris. The screen was hand cleaned.
SMF	31 Oct	31 Dec	System in bypass
B2 Corner Collector	01 Jan	01 Mar	Open to flush debris. Closed until fish passage season begins.
B2 Corner Collector	23 Mar	23 Mar	Plunge pool dive.
B2 Corner Collector	29 Mar	29 Mar	Facilitate arrival and departure of VBS delivery barge.
B2 Corner Collector	31 Aug	31 Dec	Winter maintenance.

Fishway Auxiliary Water Supply Turbines

Fish Unit 1

01 Jan - 21 Feb	OOS due to Washington shore ladder going to orifice flow.
26 Feb	On standby to facilitate ROV inspection.
23 Mar	On standby to facilitate the staff gauge replacement activities in the PH2 monoliths.
16 Apr	OOS to facilitate N. Bonneville substation maintenance by BPA.
03 Jun - 04 Jun	OOS due to water in the turbine bearing.
31 Jul	OOS for Slip ring maintenance and ROV inspection.
06 Aug	OOS for governor calibrations.
13 Aug	OOS for model testing.
03 Oct	OOS due to loss of governor pressure.
07 Nov	OOS due to loose wire on metering.
29 Nov	Reduced load due to trashrack raking.
30 Nov	Reduced load due to stab plate installation.

Fish Unit 2

01 Jan - 21 Feb	OOS due to Washington shore ladder going to orifice flow.
26 Feb	On standby to facilitate ROV inspection.
23 Mar	On standby to facilitate the staff gauge replacement activities in the PH2 monoliths.
16 Apr	OOS to facilitate N. Bonneville substation maintenance by BPA.
31 Jul	OOS for Slip ring maintenance and ROV inspection.
7-Aug-	OOS for governor calibrations.
13 Aug	OOS for model testing.
03 Oct	OOS due to loss of governor pressure.
29 Nov	Reduced load due to trashrack raking.
30 Nov	Reduced load due to stab plate installation.

Fish units 1 and 2 were placed on standby at other times during the year to “float” trash away from the trash racks. When drawdown measured one foot or greater, fish units were shut down. An adjacent unit was then operated to pull trash away from the fish unit trashracks. This procedure helped prevent debris and silt from accumulating in front of the fish units. Most of the unit outages associated with the floating of trash and debris occurred between 2400 and 0300 to minimize impact on adult fish passage.

Fish units 1 and 2 were run at reduced loading for lamprey passage studies during the hours of approximately 2200 to 0400 from 01 June until 30 September. This was done to decrease entrance velocities at PH2 and bring the differential to 0.5’ to test the efficiency of lamprey entry into the fishway. This treatment was alternated with a normal treatment, with a targeted entrance differential of 1.5’.

FISH PASSAGE PLAN VIOLATIONS

The results of 314 daily fishway inspections, 9 conducted by National Oceanic and Atmospheric Administration (NOAA) Fisheries, or Fish Passage Center (FPC), are shown in the following table. Project Fisheries and the control room operators conduct inspections each day. Shown are the FPP violations and the percentage of days the item was **in** criteria based on Project Biologist's inspections only. Items **in** criteria 100% of the time are not listed.

<u>VIOLATION</u>	<u>% IN criteria</u>
<u>PH1</u>	
Head at PH1 South collection channel	98.1%
Head at PH1 North collection channel	99.4%
Gate position: PH1 weir gate 64	97.8%
PH1 ITS chain gate depth 6C	97.5%
PH1 ITS chain gates	95.0%
Head at Bradford Island picket leads	97.8%
Depth over weir at Bradford Island	86.7%
Position or Head at FV3-7	99.4%
Position or Head at FV3-9	94.1%
Depth over weir at A-branch	84.5%
A-branch diffusers FG3-3, FG3-4, FG3-5, FG3-6	3.1%
PH1 collection channel diffusers	3.1%
Depth over weir at B-branch	85.1%
B-branch diffusers	77.7%
B branch entrance gates	96.3%
B branch differential	89.5%
<u>PH2</u>	
Cascades Island entrance gates	95.7%
Cascades Island diffusers	24.1%
cascades Island differential	93.5%
Depth over weir at Upstream Migrant Transportation channel	94.7%
Head or depth: PH2 North Upstream Entrance	98.5%
Head or depth: PH2 North Downstream Entrance	99.1%
Head or depth: PH2 South Upstream Entrance	98.8%
Head or depth: PH2 South Downstream Entrance	99.1%
PH2 velocity meter/collection channel velocity	91.0%
PH2 floating orifice gate position	71.8%
Depth over PH2 weir 67	93.2%
Depth over PH2 weir 38	88.2%
Depth over PH2 weir 37	94.7%
DSM 2 Add in valve	99.4%
PH2 JBS channel elevation	99.7%
PH2 JBS orifices	91.0%
DSM 2 Airburst system	46.4%
PH2 fish unit F1	98.1%
PH2 fish unit F2	98.5%
Smolt Monitoring Facility	99.7%
calibration once a week	92.9%
Inspections by Project Bios (3 inspections/week during winter maintenance, 7/week during fish passage season)	98.7%

TABLE 5

MONTHLY TOTALS OF SALMONID, SHAD, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER BONNEVILLE DAM.
2007

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV**	DEC	TOTAL
CHINOOK*	1	1	75	31,919	51,256	39,619	21,949	53,174	136,977	21,707	851	33	357,562
STEELHEAD	601	387	1,514	1,020	1,666	6,789	58,362	185,281	54,543	11,734	1,332	688	323,917
SOCKEYE					36	18,742	5,487	107	4				24,376
COHO*	-2						6	8,888	55,968	28,712	2,947	57	96,576
CHUM							4	0	0	24	93		121
PINK								16	11				27
TOTAL	600	388	1,589	32,939	52,958	65,150	85,808	247,466	247,503	62,177	5,223	778	802,579
SHAD				56	695,605	1,763,670	112,508	3,438					2,575,277
LAMPREY					297	2,397	12,948	2,884	818	-26	-9		19,309
STURGEON						3	3	4	4	18	10		42
BULL TROUT													0

*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.

TABLE 6

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

BONNEVILLE PROJECT
JANUARY 2007

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
Jan 1	0				0			12		4				138.0	0.5	5.5	41.0
Jan 2	0				0			38		13				129.9	0.6	6.0	41.0
Jan 3	0				0			60		20				157.3	0.5	4.0	41.0
Jan 4	0				0			70		24				177.8	0.6	4.0	42.0
Jan 5	0				0			24		6				190.5	9.6	2.5	41.0
Jan 6	0				0			64		20				189.3	1.7	3.0	41.0
Jan 7	0				0			42		14				170.6	0.6	3.5	42.0
Jan 8	0				0			41		13				174.7	0.5	3.2	42.0
Jan 9	0				0			42		13				172.2	0.5	4.5	42.0
Jan 10	0				0			40		11				178.9	0.5	4.0	42.0
Jan 11	0				0			14		6				165.0	0.5	5.0	42.0
Jan 12	0				-1			16		4				196.6	0.5	5.0	41.0
Jan 13	0				0			11		5				190.9	0.6	4.0	40.0
Jan 14	0				-1			2		1				195.1	2.0	4.0	39.0
Jan 15	0				0			4		2				213.1	23.6	3.5	39.0
Jan 16	0				0			7		2				214.4	15.4	3.1	38.0
Jan 17	0				0			17		-2				200.5	0.5	3.0	39.0
Jan 18	0				0			9		1				196.7	0.6	3.5	39.0
Jan 19	1				0			11		4				199.2	0.5	4.0	39.0
Jan 20	0				0			13		2				182.2	0.6	4.0	39.0
Jan 21	0				0			12		1				158.9	0.6	5.0	39.0
Jan 22	0				0			7		2				178.0	0.6	5.0	39.0
Jan 23	0				0			1		1				173.2	0.6	5.0	39.0
Jan 24	0				0			14		4				183.2	0.6	5.0	38.0
Jan 25	0				0			2		1				176.5	0.5	3.0	38.0
Jan 26	0				0			2		0				192.3	0.5	3.0	38.0
Jan 27	0				0			9		2				193.4	0.6	2.5	38.0
Jan 28	0				0			3		1				163.6	0.6	2.5	37.0
Jan 29	0				0			9		2				165.3	0.6	3.1	37.0
Jan 30	0				0			2		0				165.2	0.6	4.0	37.0
Jan 31	0				0			3		1				159.0	0.6	4.5	37.0
TOTAL	1				-2			601		178							
AVG	0				0			19		6				178.8	2.2	3.9	39.6

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.

TABLE 7

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

BONNEVILLE PROJECT
FEBRUARY 2007

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
Feb 1	0							7		1					174.1	0.6	5.0	37.0
Feb 2	0							9		2					159.0	0.6	5.8	37.0
Feb 3	0							8		2					163.2	0.6	7.0	37.0
Feb 4	0							5		0					143.7	0.6	7.0	37.0
Feb 5	0							8		4					148.7	0.6	7.0	37.0
Feb 6	0							2		1					147.4	0.6	7.0	38.0
Feb 7	0							-1		0					150.6	0.6	7.0	38.0
Feb 8	0							1		1					148.0	0.5	7.0	38.0
Feb 9	0							7		2					149.7	0.6	7.0	38.0
Feb 10	0							12		4					151.6	0.6	5.0	38.0
Feb 11	0							7		1					147.5	0.6	7.0	38.0
Feb 12	0							8		1					146.6	0.6	7.0	38.0
Feb 13	0							5		1					147.4	0.6	7.0	39.0
Feb 14	0							4		0					152.7	0.6	7.0	39.0
Feb 15	0							35		11					157.4	0.5	7.0	38.0
Feb 16	0							88		29					162.9	0.6	6.0	39.0
Feb 17	0							19		8					161.1	0.6	6.0	40.0
Feb 18	0							31		11					124.6	0.6	5.0	40.0
Feb 19	0							11		5					157.6	0.7	6.0	40.0
Feb 20	0							22		10					162.4	0.6	5.0	41.0
Feb 21	0							9		2					157.0	0.6	6.0	41.0
Feb 22	0							23		6					134.3	0.6	6.0	41.0
Feb 23	0							10		2					133.8	0.6	6.0	41.0
Feb 24	0							8		2					141.2	0.6	3.0	41.0
Feb 25	0							15		3					136.2	0.7	5.5	41.0
Feb 26	0							17		3					135.8	0.6	6.0	41.0
Feb 27	0							12		4					150.4	0.6	6.0	41.0
Feb 28	1							5		2					133.1	0.6	6.5	41.0
TOTAL	1							387		118								
AVG	0							14		4					149.2	0.6	6.2	39.1

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.

TABLE 8

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

BONNEVILLE PROJECT
MARCH 2007

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
Mar 1	0							13	6					185.5	0.6	5.0	41.0
Mar 2	0							25	10					172.8	0.7	6.5	40.0
Mar 3	0							23	6					162.4	0.7	7.0	41.0
Mar 4	2							14	6					143.4	0.7	7.0	41.0
Mar 5	0							21	4					138.4	0.7	7.0	41.0
Mar 6	1							34	12					144.5	0.7	7.0	42.0
Mar 7	4							38	12					147.3	0.7	6.0	42.0
Mar 8	5							41	12					164.3	0.7	6.4	42.0
Mar 9	2							24	7					190.2	0.8	6.0	42.0
Mar 10	0							78	20					142.4	1.3	6.0	42.0
Mar 11	0							124	38					145.2	1.4	6.0	43.0
Mar 12	0							90	25					162.6	1.3	3.0	43.0
Mar 13	2							87	34					201.8	1.4	5.0	44.0
Mar 14	4							77	29					214.1	1.4	4.5	44.0
Mar 15	2							37	12					228.2	1.4	5.0	43.0
Mar 16	0							23	6					228.3	1.4	4.0	43.0
Mar 17	1							21	5					218.9	1.4	5.0	43.0
Mar 18	3							35	9					206.6	2.1	5.0	44.0
Mar 19	3							34	9					215.2	1.3	5.0	44.0
Mar 20	5							40	19					240.6	5.8	5.0	45.0
Mar 21	1							43	15					264.7	25.3	3.5	45.0
Mar 22	2							49	21					270.1	34.7	2.5	45.0
Mar 23	3							59	21					184.5	8.0	3.0	46.0
Mar 24	5							60	21					251.7	30.7	3.5	46.0
Mar 25	6							55	22					252.6	31.3	3.5	46.0
Mar 26	8							53	12					286.3	58.2	3.0	46.0
Mar 27	10							55	12					248.7	48.9	4.0	46.0
Mar 28	3							67	19					249.2	49.3	3.0	46.0
Mar 29	1							59	11					278.4	58.4	4.0	47.0
Mar 30	0							78	21					266.0	35.6	3.0	47.0
Mar 31	2							57	20					293.1	55.5	4.0	47.0
TOTAL	75							1,514	476								
AVG	2							49	15					209.6	14.9	4.8	43.8

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. 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 10

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

BONNEVILLE PROJECT
MAY 2007

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	
May 1	2,387			345			0	33	11			11	0		268.6	92.7	4.0	53.0	
May 2	2,361			378			0	24	4			10	0		267.3	92.8	5.5	53.0	
May 3	1,606			428			0	36	6			12	0		271.8	93.3	5.0	53.0	
May 4	1,835			457			0	33	4			18	0		284.8	94.1	4.0	53.0	
May 5	1,412			469			0	28	5			28	0		294.4	95.9	4.0	53.0	
May 6	1,079			425			0	33	2			343	0		278.5	97.5	4.0	53.0	
May 7	2,433			919			0	48	7			1,362	0		265.4	97.2	5.2	54.0	
May 8	2,928			1,249			0	37	4			2,604	0		261.5	97.1	5.5	54.0	
May 9	1,881			871			0	43	4			1,380	0		281.0	94.4	4.0	56.0	
May 10	1,182			661			0	38	9			800	0		284.2	92.5	4.0	55.0	
May 11	1,437			870			0	33	5			2,383	1		285.2	94.6	5.0	55.0	
May 12	998			610			0	40	4			3,321	0		283.8	97.3	4.0	55.0	
May 13	811			494			0	25	1			1,161	0		257.5	97.7	4.0	55.0	
May 14	931			1,024			0	46	2			5,569	1		301.0	98.9	4.0	55.0	
May 15	1,077			841			0	50	5			17,455	-1		292.0	98.2	5.0	56.0	
May 16	845			488			0	65	5			15,996	1		274.3	99.0	4.0	56.0	
May 17	1,277			615			0	55	7			11,164	2		268.2	98.4	5.0	57.0	
May 18	998			451			0	50	4			46,970	5		269.4	98.1	3.0	57.0	
May 19	792			347			0	40	9			44,333	18		278.2	98.0	4.5	57.0	
May 20	585			300			0	32	7			37,973	17		266.1	98.2	3.5	58.0	
May 21	498			270			0	33	6			20,336	6		256.5	97.8	5.0	58.0	
May 22	595			288			0	43	6			11,582	8		270.7	98.1	4.0	58.0	
May 23	539			301			0	49	10			24,629	22		269.0	98.6	4.0	57.0	
May 24	589			362			0	67	9			51,736	16		267.5	99.0	6.0	58.0	
May 25	573			357			0	96	12			71,238	5		272.7	98.0	5.2	58.0	
May 26	711			349			1	97	19			60,187	3		253.6	95.6	5.8	59.0	
May 27	749			204			1	96	9			30,385	13		221.4	92.2	5.0	59.0	
May 28	909			304			2	118	18			30,992	20		269.5	92.5	4.0	59.0	
May 29	644			176			5	89	13			43,375	15		248.8	96.6	5.0	59.0	
May 30	571			202			14	98	12			56,751	15		244.5	97.7	5.0	59.0	
May 31	721			247			13	91	21			101,501	130		250.3	98.3	5.5	60.0	
TOTAL	35,954			15,302			36	1,666	240			695,605	297						
AVG	1,160			494			1	54	8			22,439	10		269.6	96.5	4.6	56.2	
RUN YEAR TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK				SOCKEYE	STEELHEAD	WILD STEELHEAD			SHAD	LAMPREY						
SPRING		66,624	16,606				36	3,511	825			695,661	297						

TABLE 11

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

BONNEVILLE PROJECT
JUNE 2007

DATE	FISH COUNTS											RIVER CONDITIONS						
	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
Jun 1		858		254			25	89	14			148,119	131	0	223.2	96.9	5.0	61.0
Jun 2		784		238			28	102	18			55,938	116	0	230.9	94.8	5.5	61.0
Jun 3		909		247			44	79	12			96,149	128	0	219.4	96.4	7.0	62.0
Jun 4		647		240			48	90	18			28,584	179	0	240.7	97.5	5.0	62.0
Jun 5		1,194		241			60	111	32			49,807	171	0	223.4	98.5	6.0	62.0
Jun 6		1,096		204			72	77	14			31,651	127	0	250.3	98.9	6.0	62.0
Jun 7		795		139			87	88	13			38,819	116	0	240.9	98.6	6.0	61.0
Jun 8		878		201			164	71	10			28,808	64	0	249.3	98.8	5.0	61.0
Jun 9		1,015		216			176	116	18			94,273	124	0	282.6	99.3	4.0	62.0
Jun 10		797		201			237	120	18			76,883	132	0	254.1	98.5	5.0	62.0
Jun 11		1,088		271			345	162	16			112,974	132	0	268.5	98.2	5.0	62.0
Jun 12		1,100		279			385	159	9			82,895	77	0	237.5	98.0	6.0	62.0
Jun 13		1,079		289			511	190	22			69,254	54	0	236.9	98.7	5.0	62.0
Jun 14		984		338			600	144	14			40,710	113	0	247.2	99.6	4.0	62.0
Jun 15		959		275			600	119	10			101,543	43	0	237.2	99.2	6.0	62.0
Jun 16		948		289			712	171	28			54,703	27	0	214.7	98.4	3.5	62.0
Jun 17		1,117		306			757	166	22			29,873	34	0	194.4	98.3	5.0	61.0
Jun 18		900		259			856	199	25			22,120	21	0	221.2	98.2	5.0	61.0
Jun 19		1,070		274			829	191	26			62,255	57	0	229.4	98.2	6.0	61.0
Jun 20		1,202		329			1,273	223	31			83,635	51	0	201.3	102.8	5.8	62.0
Jun 21		1,414		384			1,334	249	47			121,519	104	0	194.8	92.3	5.0	62.0
Jun 22		1,293		349			1,606	204	47			66,378	95	1	210.2	91.7	5.2	63.0
Jun 23		1,176		398			1,424	304	64			45,654	37	0	209.6	91.3	6.6	63.0
Jun 24		1,322		460			1,398	356	73			89,609	12	1	184.5	78.8	3.5	63.0
Jun 25		1,190		361			951	350	86			24,074	28	0	166.8	92.3	5.0	63.0
Jun 26		967		276			869	255	60			19,980	33	0	191.3	94.2	4.5	63.0
Jun 27		1,376		265			951	472	120			23,481	50	1	176.6	93.3	4.0	63.0
Jun 28		1,301		341			843	624	180			23,504	12	0	170.0	93.5	5.0	64.0
Jun 29		1,097		230			815	714	179			22,459	36	0	172.5	91.4	6.0	64.0
Jun 30		707		202			742	594	164			18,019	93	0	205.8	89.4	4.5	64.0
TOTAL		31,263		8,356			18,742	6,789	1,390			1,763,670	2,397	3				
AVG		1,042		279			625	226	46			58,789	80	0	219.5	95.9	5.2	62.2
RUN YEAR TOTALS TO DATE		CHINOOK ADULT		CHINOOK JACK			SOCKEYE	STEELHEAD	WILD STEELHEAD			SHAD	LAMPREY	STURGEON				
SPRING		66,624		16,606			18,778	10,300	2,215			2,459,331	2,694	3				
SUMMER		31,263		8,356														
TOTAL		97,887		24,962														

TABLE 12

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

BONNEVILLE PROJECT
JULY 2007

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
Jul 1		849		197	0		778	690	213		0	21,125	59	1	161.9	89.2	5.3	65.0
Jul 2		925		154	0		572	576	190		0	11,190	89	0	131.8	89.0	4.0	65.0
Jul 3		823		301	0		504	600	234		0	11,432	117	0	172.6	88.4	3.5	65.0
Jul 4		990		437	0		411	745	275		0	10,084	240	0	149.8	86.7	5.0	65.0
Jul 5		917		377	0		409	821	313		0	10,071	390	0	168.1	86.8	7.0	66.0
Jul 6		899		264	0		384	932	359		0	7,185	760	0	187.0	87.3	6.0	67.0
Jul 7		747		236	0		259	1,062	439		0	5,704	524	0	162.1	88.0	6.0	67.0
Jul 8		757		232	0		256	1,151	480		0	4,526	500	0	165.9	88.8	7.0	67.0
Jul 9		589		157	0		228	1,003	416		0	3,273	599	0	184.1	90.2	7.0	67.0
Jul 10		545		150	0		194	1,090	467		0	3,701	745	0	181.2	91.1	7.0	68.0
Jul 11		546		177	0		232	1,400	604		0	3,748	975	0	175.3	92.3	5.5	68.0
Jul 12		505		180	0		131	1,303	624		0	2,640	979	0	190.7	94.1	7.0	69.0
Jul 13		489		283	0		207	1,536	677		0	2,072	816	0	203.5	94.2	5.0	70.0
Jul 14		453		205	0		128	1,610	701		0	2,124	414	0	208.8	95.2	5.0	70.0
Jul 15		559		208	0		120	1,794	845		0	1,839	640	0	190.5	97.9	6.0	70.0
Jul 16		464		173	0		115	1,873	855		0	1,118	772	0	210.3	91.1	5.0	71.0
Jul 17		440		118	0		107	1,682	710		0	943	517	1	199.6	90.1	5.0	71.0
Jul 18		400		102	1		93	1,514	627		1	1,025	228	0	166.9	93.1	7.0	70.0
Jul 19		503		139	0		65	2,331	986		0	1,195	297	1	166.0	96.4	6.0	70.0
Jul 20		402		86	0		52	2,673	1,169		1	1,442	319	0	165.8	98.8	6.3	70.0
Jul 21		422		101	1		41	3,062	1,314		0	1,113	279	0	159.8	98.8	7.0	70.0
Jul 22		455		113	0		27	2,457	996		0	1,073	288	0	171.2	98.2	5.0	70.0
Jul 23		382		128	0		28	3,114	1,253		0	706	471	0	183.6	96.6	6.0	70.0
Jul 24		444		167	0		32	3,384	1,318		0	491	307	0	163.7	93.6	7.0	70.0
Jul 25		290		116	1		20	3,035	1,143		0	514	247	0	160.0	95.0	6.0	71.0
Jul 26		402		137	0		15	3,261	1,151		1	380	293	0	165.2	95.1	6.0	71.0
Jul 27		309		88	0		19	2,558	813		0	247	239	0	182.2	95.4	6.0	71.0
Jul 28		356		111	0		13	2,409	754		0	417	270	0	171.5	94.9	7.0	71.0
Jul 29		315		75	0		21	3,272	1,095		1	618	240	0	151.5	95.3	6.0	71.0
Jul 30		239		65	1		16	3,021	1,071		0	186	123	0	169.6	95.0	7.0	71.0
Jul 31		203		53	2		10	2,403	882		0	326	211	0	173.3	96.6	6.0	71.0
TOTAL		16,619		5,330	6		5,487	58,362	22,974		4	112,508	12,948	3				
AVG		536		172	0		177	1,883	741		0	3,629	418	0	174.0	93.0	6.0	69.0

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	66,624	16,606
SUMMER	47,882	13,686
TOTAL	114,506	30,292

COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD
6	24,265	68,662	25,189

CHUM	SHAD	LAMPREY	STURGEON
4	2,571,839	15,642	6

TABLE 13

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

BONNEVILLE PROJECT
AUGUST 2007

DATE	FISH COUNTS													RIVER CONDITIONS						
	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	STEELHEAD								SECCHI	DEG F
Aug 1			388	107	0	1	22	5,927	2,015	0			334	312	0	176.6	98.4	6.5	71.0	
Aug 2			343	62	0	0	14	6,888	2,143	0			356	483	0	194.7	100.4	7.0	71.0	
Aug 3			378	96	4	0	11	6,666	1,856	1			296	356	0	167.3	95.2	6.0	71.0	
Aug 4			328	89	4	3	8	7,833	2,101	0			324	295	1	135.5	88.7	6.0	72.0	
Aug 5			282	53	9	1	8	7,403	1,815	0			328	125	0	142.4	92.8	6.0	71.0	
Aug 6			235	60	4	2	8	6,057	1,571	0			254	168	1	140.5	93.0	5.0	71.0	
Aug 7			347	60	0	1	6	5,385	1,348	0			215	65	0	137.4	91.0	6.5	71.0	
Aug 8			373	86	0	2	4	4,000	1,089	0			148	63	0	151.0	93.4	6.0	71.0	
Aug 9			389	74	1	0	2	4,400	1,213	0			85	63	0	152.8	97.7	4.5	70.0	
Aug 10			350	49	1	1	3	4,004	1,099	0			66	41	0	162.3	97.2	5.0	70.0	
Aug 11			412	42	2	0	7	4,823	1,365	0			85	95	0	163.8	98.4	7.0	70.0	
Aug 12			514	87	2	0	0	5,496	1,474	0			122	63	0	154.2	94.8	6.5	70.0	
Aug 13			616	110	4	1	2	6,165	1,522	0			72	75	0	131.3	86.4	7.0	70.0	
Aug 14			642	117	20	3	0	7,572	1,805	0			44	97	0	164.8	94.7	7.0	70.0	
Aug 15			859	134	19	6	0	7,217	1,668	1			38	150	0	165.8	97.3	7.0	70.0	
Aug 16			996	126	44	8	2	7,379	1,710	0			50	95	0	160.2	101.4	7.0	71.0	
Aug 17			1,395	146	29	3	4	8,893	1,886	2			43	35	0	149.7	96.9	7.0	70.0	
Aug 18			1,338	163	56	17	0	9,906	2,092	0			68	3	0	128.5	84.1	6.0	70.0	
Aug 19			1,174	126	71	11	1	11,039	2,132	0			90	19	1	117.1	75.2	5.0	70.0	
Aug 20			1,103	112	69	13	0	9,354	1,717	0			31	16	0	118.4	76.1	7.0	70.0	
Aug 21			861	90	83	6	0	6,256	1,147	0			44	60	0	125.7	82.3	7.0	69.0	
Aug 22			1,374	88	91	14	0	4,709	917	1			27	41	0	146.0	94.7	6.0	69.0	
Aug 23			1,807	142	185	14	0	4,237	882	0			23	-10	0	138.4	92.8	7.0	70.0	
Aug 24			1,728	138	222	20	1	4,759	919	1			78	11	0	134.8	86.8	5.0	70.0	
Aug 25			1,709	220	268	28	0	5,879	1,236	1			35	26	0	126.9	83.6	5.0	70.0	
Aug 26			2,497	267	372	20	0	5,705	1,169	4			35	38	1	118.0	75.9	4.5	70.0	
Aug 27			2,377	314	420	23	1	4,159	850	3			21	21	0	119.0	76.2	7.0	70.0	
Aug 28			3,370	332	578	18	1	3,152	588	1			42	6	0	131.9	80.1	7.0	70.0	
Aug 29			6,103	689	1,327	56	0	2,852	556	1			19	31	0	142.5	84.5	7.0	70.0	
Aug 30			6,670	888	2,186	83	1	3,384	662	0			25	17	0	153.8	86.6	7.0	70.0	
Aug 31			6,259	890	2,358	104	1	3,782	678	0			40	24	0	132.2	84.9	7.0	70.0	
TOTAL			47,217	5,957	8,429	459	107	185,281	43,225	16			3,438	2,884	4					
AVG			1,523	192	272	15	3	5,977	1,394				111	93	0	144.6	89.7	6.3	70.3	
RUN YEAR																				
TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK			COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON						
SPRING	66,624	16,606			8,435	459	24,372	253,943	68,414	16	4	2,575,277	18,526	10						
SUMMER	47,882	13,686																		
FALL	47,217	5,957																		
TOTAL	161,723	36,249																		

TABLE 14

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

BONNEVILLE PROJECT
SEPTEMBER 2007

DATE	FISH COUNTS													RIVER CONDITIONS						
	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	STEELHEAD								SECCHI	DEG F
Sep 1			4,961	1,063	2,429	130	0	3,526	644	3				48	0	125.4	3.0	7.0	70.0	
Sep 2			4,416	819	2,055	77	1	2,653	567	1				174	0	101.1	1.5	6.0	71.0	
Sep 3			4,491	885	1,983	101	0	2,600	537	1				76	0	102.2	1.5	7.0	71.0	
Sep 4			5,906	1,117	2,151	50	2	2,664	583	1				142	0	100.8	1.5	6.0	71.0	
Sep 5			4,156	1,062	2,361	56	0	2,304	448	0				83	0	111.5	1.5	7.0	71.0	
Sep 6			5,369	1,335	1,892	53	0	2,224	430	1				47	0	116.8	1.5	6.0	70.0	
Sep 7			4,842	1,526	1,632	95	0	1,727	333	0				13	0	91.1	1.5	7.0	70.0	
Sep 8			4,953	1,433	1,774	85	0	1,834	405	0				17	0	85.5	1.5	7.0	70.0	
Sep 9			4,515	1,577	2,175	90	0	1,611	340	0				7	0	80.9	1.5	6.5	70.0	
Sep 10			5,021	1,646	4,741	137	0	1,940	408	1				2	0	77.8	1.5	7.0	69.0	
Sep 11			2,386	1,155	3,485	121	0	1,607	281	0				60	0	96.6	1.5	7.0	68.0	
Sep 12			4,141	1,805	3,832	84	0	2,367	422	2				6	0	99.8	1.5	7.0	69.0	
Sep 13			2,926	1,621	2,273	120	1	1,886	312	0				14	0	90.0	1.5	7.0	69.0	
Sep 14			2,367	1,405	1,358	73	0	1,973	378	0				43	0	95.4	1.5	7.0	69.0	
Sep 15			2,207	1,250	1,422	42	0	1,620	312	0				28	1	86.2	1.5	7.0	69.0	
Sep 16			1,685	811	1,238	28	0	1,254	243	0				21	0	77.4	1.5	7.0	69.0	
Sep 17			2,439	1,014	1,357	31	0	1,277	227	1				11	0	81.7	1.4	7.0	68.0	
Sep 18			2,499	908	1,333	44	0	1,433	261	0				24	-1	86.5	1.4	7.0	68.0	
Sep 19			3,204	1,654	1,253	34	0	1,647	279	0				-3	0	91.3	1.4	6.0	67.0	
Sep 20			5,125	3,052	2,268	58	0	2,571	380	0				1	1	96.8	1.5	7.0	67.0	
Sep 21			4,724	3,620	2,422	73	0	2,932	472	0				10	0	93.2	1.4	7.0	67.0	
Sep 22			3,154	2,289	2,057	113	0	2,464	354	0				1	0	93.3	1.4	6.0	67.0	
Sep 23			2,093	1,344	1,401	96	0	1,842	298	0				8	0	81.1	1.4	6.0	66.0	
Sep 24			1,898	1,380	920	67	0	1,320	194	0				6	1	80.2	1.4	7.0	66.0	
Sep 25			1,602	1,101	896	63	0	1,192	196	0				8	0	80.0	1.4	7.0	65.0	
Sep 26			1,429	1,064	789	82	0	1,139	205	0				2	0	94.8	1.3	6.0	65.0	
Sep 27			1,134	866	647	59	0	899	163	0				4	0	85.8	1.4	7.0	65.0	
Sep 28			1,136	627	534	52	0	711	161	0				-27	1	73.6	1.4	7.0	65.0	
Sep 29			1,199	627	659	76	0	728	98	0				-6	1	73.3	1.4	7.0	65.0	
Sep 30			589	354	382	59	0	598	106	0				-2	0	72.2	1.4	7.0	64.0	
TOTAL			96,567	40,410	53,719	2,249	4	54,543	10,037	11				818	4					
AVG			3,219	1,347	1,791	75	0	1,818	335	0				27	0	90.7	1.5	6.8	68.0	
RUN YEAR			CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON						
TOTALS TO DATE																				
SPRING			66,624	16,606	62,154	2,708	24,376	308,486	78,451	27	4	2,575,277	19,344	14						
SUMMER			47,882	13,686																
FALL			143,784	46,367																
TOTAL			258,290	76,659																

TABLE 15

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

BONNEVILLE PROJECT
OCTOBER 2007

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
Oct 1			1,077	484	646	61		973	173		0		-4	1	72.0	1.5	7.0	64.0
Oct 2			880	428	725	75		831	132		0		-12	0	83.7	1.3	7.0	63.0
Oct 3			673	364	489	74		666	109		0		-1	1	82.9	1.6	7.0	63.0
Oct 4			892	330	563	65		593	104		0		0	0	108.0	1.5	7.0	63.0
Oct 5			594	276	550	36		518	102		0		0	1	100.4	1.3	7.0	62.0
Oct 6			621	307	590	45		594	127		0		-1	1	90.5	1.2	7.0	62.0
Oct 7			964	410	691	58		754	170		0		2	2	79.6	1.3	7.0	61.0
Oct 8			1,279	601	864	69		832	152		0		-2	1	89.1	1.4	7.0	61.0
Oct 9			888	439	780	62		714	128		1		-2	1	103.7	1.3	7.0	61.0
Oct 10			842	370	729	58		599	107		0		0	-1	103.9	1.3	7.0	61.0
Oct 11			711	336	928	67		541	96		0		-1	1	109.6	1.4	7.0	61.0
Oct 12			553	280	1,047	53		444	77		0		4	-1	116.5	1.3	7.0	61.0
Oct 13			522	287	1,153	38		362	73		0		2	0	104.2	1.3	7.0	61.0
Oct 14			470	266	1,252	37		362	72		1		1	0	83.9	1.2	7.0	61.0
Oct 15			575	153	1,124	47		301	79		1		1	0	82.5	1.3	7.0	61.0
Oct 16			419	145	834	28		230	44		0		0	1	98.8	1.3	7.0	60.0
Oct 17			260	102	902	51		279	55		0		0	0	90.2	1.3	7.0	60.0
Oct 18			405	105	1,659	49		254	64		0		-2	1	137.0	1.4	7.0	60.0
Oct 19			358	68	1,634	42		225	52		2		-2	1	84.7	1.3	7.0	59.0
Oct 20			355	85	1,927	21		225	31		4		-4	0	87.7	1.3	6.0	58.0
Oct 21			360	136	1,377	34		160	31		3		-2	0	106.8	1.2	5.0	57.0
Oct 22			206	50	1,018	31		180	32		0		1	-1	103.5	1.2	7.0	57.0
Oct 23			275	75	1,250	34		203	58		3		1	1	108.5	1.2	7.0	58.0
Oct 24			263	53	1,017	41		190	33		0		-2	0	103.0	1.2	7.0	58.0
Oct 25			225	36	814	42		143	35		0		0	2	110.2	0.6	7.0	58.0
Oct 26			90	32	482	22		99	24		1		0	1	99.5	0.6	6.0	58.0
Oct 27			70	31	601	19		96	29		2		-1	0	102.6	1.3	7.0	57.0
Oct 28			115	36	436	8		138	32		2		0	1	85.5	1.3	7.0	56.0
Oct 29			129	19	602	11		72	12		4		0	1	100.0	0.6	7.0	56.0
Oct 30			161	23	406	4		74	17		0		0	0	90.7	0.7	7.0	56.0
Oct 31			136	12	333	7		82	18		0		-2	3	106.5	1.2	7.0	56.0
TOTAL			15,368	6,339	27,423	1,289		11,734	2,268		24		-26	18				
AVG			496	204	885	42		379	73		1		-1	1	97.6	1.2	6.9	59.7

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON
TOTALS TO DATE	66,624	16,606	89,577	3,997	24,376	320,220	80,719	27	28	2,575,277	19,318	32
SPRING	66,624	16,606										
SUMMER	47,882	13,686										
FALL	159,152	52,706										
TOTAL	273,658	82,998										

TABLE 16

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

BONNEVILLE PROJECT
NOVEMBER 2007

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
Nov 1			119	21	526	9		84	32		1		-1	0	100.5	1.1	7.0	55.0
Nov 2			32	2	93	3		8	1		0		0	0	107.2	1.1	7.0	55.0
Nov 3			25	1	46	3		15	6		0		0	0	92.5	1.1	7.0	54.0
Nov 4			22	2	93	3		12	3		1		0	2	80.5	1.1	7.0	54.0
Nov 5			78	6	236	5		75	25		5		1	0	105.1	1.2	7.0	55.0
Nov 6			33	4	197	6		60	22		3		-1	1	112.0	1.1	7.0	54.0
Nov 7			31	3	187	2		44	15		5		-1	0	113.5	1.1	7.0	54.0
Nov 8			35	3	197	4		74	16		5		0	3	85.1	1.1	7.0	54.0
Nov 9			43	6	214	12		57	28		5		-1	-1	88.2	1.1	7.0	54.0
Nov 10			68	3	116	4		42	14		5		-3	2	123.0	1.1	7.0	54.0
Nov 11			51	2	95	6		32	12		5		0	0	121.4	1.1	7.0	54.0
Nov 12			36	1	118	3		60	14		9		1	0	119.7	1.1	7.0	54.0
Nov 13			34	-1	143	-1		61	14		11		0	2	119.9	1.1	5.8	53.1
Nov 14			36	1	90	5		41	18		4		0	0	130.6	1.1	4.0	53.1
Nov 15			20	2	66	3		46	14		8		0	0	125.7	1.1	7.0	52.0
Nov 16			21	1	45	3		53	15		6		-4	0	122.2	1.1	6.0	52.0
Nov 17			18	-1	93	1		48	13		7		0	0	118.9	1.1	4.0	52.0
Nov 18			15	0	109	1		53	11		1		0	0	124.8	1.1	1.5	52.0
Nov 19			5	0	63	1		44	13		3		0	-1	118.4	1.1	5.0	52.0
Nov 20			8	1	45	1		47	12		1		0	2	119.4	1.1	7.0	50.0
Nov 21			11	0	21	0		39	11		0		0	0	122.8	1.1	5.0	51.1
Nov 22			2	1	21	-1		55	26		2		0	0	124.3	1.1	6.0	50.0
Nov 23			5	0	14	1		55	23		1		0	0	127.0	1.2	5.0	48.9
Nov 24			3	0	4	3		52	21		0		0	0	119.8	1.1	7.0	48.0
Nov 25			8	0	6	1		52	25		2		0	0	121.2	1.1	7.0	48.0
Nov 26			3	0	7	1		18	8		3		0	0	129.3	1.1	7.0	48.0
Nov 27			9	0	2	0		24	11		0		0	0	116.6	1.1	7.0	46.9
Nov 28			6	1	9	0		22	11		0		0	0	128.7	1.1	7.0	48.0
Nov 29			8	0	-1	0		34	12		0		0	0	127.9	1.1	7.0	48.0
Nov 30			7	0	12	1		25	10		0		0	0	131.6	1.1	7.0	46.9
TOTAL			792	59	2,867	80		1,332	456		93		-9	10				
AVG			26	2	96	3		44	15		3		0	0	115.9	1.1	6.3	51.7

RUN YEAR	CHINOOK		COHO		WILD							
	ADULT	JACK	ADULT	JACK	SOCKEYE	STEELHEAD	STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON
TOTALS TO DATE												
SPRING	66,624	16,606			24,376	320,931	80,953	27	121	2,575,277	19,313	42
SUMMER	47,882	13,686										
FALL	159,815	52,762										
TOTAL	274,321	83,054										

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 disruption occurred resulting in 15 hours of loss on 11/2 and 2 hour loss on 11/5 at Washington Shore ladder Official Fall Chinook run ended November 15. Counts on November 16-30 are not included in fall totals. Pink, chum, and sturgeon counts are totals for the entire calendar year.

TABLE 17

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

BONNEVILLE PROJECT
DECEMBER 2007

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
Dec 1			5		6	1		28	10						131.4	1.1	7.0	46.9
Dec 2			9		-1	-1		21	10						130.4	1.1	5.0	46.0
Dec 3			5		17	0		21	1						122.3	1.1	1.0	46.0
Dec 4			5		9	0		20	0						144.9	1.1	1.0	45.0
Dec 5			0		7	0		30	4						169.0	1.1	1.5	46.0
Dec 6			3		6	0		34	10						131.6	1.1	2.0	46.0
Dec 7			1		5	0		36	14						110.9	1.4	5.0	46.0
Dec 8			0		2	0		21	7						131.5	1.1	6.0	46.0
Dec 9			0		3	0		39	19						132.5	1.1	4.0	45.0
Dec 10			0		0	0		30	10						143.8	1.1	7.0	45.0
Dec 11			1		1	0		33	14						182.2	1.1	5.0	44.1
Dec 12			1		0	0		39	11						128.4	1.0	7.0	44.1
Dec 13			1		0	0		38	12						135.9	1.1	7.0	44.1
Dec 14			1		0	0		39	18						136.9	0.6	7.0	44.1
Dec 15			0		0	0		19	11						135.4	0.5	6.0	44.1
Dec 16			0		0	0		31	13						137.1	0.5	7.0	44.1
Dec 17			0		0	0		18	8						123.7	0.6	7.0	44.1
Dec 18			0		0	0		12	3						122.7	0.5	7.0	44.1
Dec 19			0		1	0		32	18						113.4	0.5	7.0	44.1
Dec 20			1		0	0		37	15						119.8	0.5	7.0	44.1
Dec 21			0		1	0		31	10						128.8	0.5	7.0	45.0
Dec 22			0		0	0		7	5						143.4	0.6	6.0	43.0
Dec 23			0		0	0		26	10						143.5	0.5	5.0	43.0
Dec 24			0		0	0		6	3						139.4	0.5	6.0	43.0
Dec 25			0		0	0		8	5						136.1	0.6	7.0	43.0
Dec 26			0		0	0		4	1						120.7	0.5	7.0	42.1
Dec 27			0		0	0		4	1						169.9	0.5	7.0	42.1
Dec 28			0		0	0		3	1						171.6	0.5	7.0	42.0
Dec 29			0		0	0		10	5						156.2	0.5	7.0	41.0
Dec 30			0		0	0		6	2						115.7	0.5	7.0	41.0
Dec 31			0		0	0		5	2						120.3	0.5	7.0	41.0
TOTAL			33		57	0		688	253									
AVG			1		2	0		22	8						136.4	0.8	5.8	44.0

RUN YEAR	CHINOOK		COHO		WILD							
	ADULT	JACK	ADULT	JACK	SOCKEYE	STEELHEAD	STEELHEAD	PINK	CHUM	SHAD	LAMPREY	STURGEON
TOTALS TO DATE												
SPRING	66,624	16,606			24,376	320,931	80,953	27	121	2,575,277	19,313	42
SUMMER	47,882	13,686										
FALL	159,815	52,762										
TOTAL	274,321	83,054										

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 disruption occurred resulting in a 15 hour loss on 12/8, a 16 hour loss on 12/9, and a 2 hour loss on 12/10 at Bradford Island fish ladder. Official Fall Chinook run ended November 15. December counts were not added to fall totals. Pink, chum, and sturgeon counts are totals for the entire calendar year.

TABLE 18

YEARLY TOTALS OF SALMONIDS COUNTED OVER BONNEVILLE DAM
1938 - 2007

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
1938 - 2007

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	164	6	1,012,964
2007	357,562	323,917	24,376	96,576	121	27	802,579
Total	27,755,446	13,728,817	5,631,053	2,939,389	40,016	2,956	50,097,677
10-Year Average	639,467	343,364	58,603	110,246	110	73	1,151,863

*Jacks included

TABLE 19

MONTHLY COUNT OF CHINOOK SALMON													SPRING			SUMMER			FALL		
BONNEVILLE DAM - 1938 - 2007													Jan 1 - May 31			Jun 1 - Jul 31			Aug 1 - Dec 31		
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	8,221	6,556	34,765	197,294	2,302	263	27	271,799	22,371	14,777	234,651					
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 - 1938-2007												Jan 1 - May 31	Jun 1 - Jul 31	Aug 1 - Dec 31		
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*			
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
2007	1	1	75	31,919	51,256	39,619	21,949	53,174	136,977	21,707	851	33	357,562	83,252	61,568	212,742
TOTAL	124	398	97,959	4,032,741	2,933,337	2,229,484	1,631,973	3,198,630	13,022,469	683,134	39,792	1,359	27,871,400	7,063,532	3,860,672	16,937,188
10-Year Average			4,267	94,391	67,082	51,344	30,290	85,050	292,296	22,249	1,763		648,872	165,680	81,555	400,636

*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 - 2007 counts include 16 hour video counts 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 - 2007

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 - 2007

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	
2007					36	18,742	5,487	107	4				24,376	
TOTAL				76	541	8,316	2,464,933	3,127,953	44,438	2,670	137	37	1	5,649,102
10-Year Average					42	45,559	14,374	131						60,107

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.

2003-2007 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 - 2007

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 - 2007

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
2007	-2						6	8,888	55,968	28,712	2,947	57	96,576	12,125
TOTAL	35	31	6	1	0	179	5,523	263,660	2,132,300	505,038	54,082	461	2,961,316	590,845
10 Year Average							27	10,176	72,937	27,420	1,693		112,287	7,157

*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.

2003-07 counts include 16 hour video counts between 0400-2000 PST January 1 through March 31 and November 1 through December 31.

TABLE 22

MONTHLY COUNT OF STEELHEAD
BONNEVILLE DAM 1938 -2007

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 - 2007

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	Jan 1-	Aug 26-
														Aug 25	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
2007	601	387	1,514	1,020	1,666	6,789	58,362	185,281	54,543	11,734	1,332	688	323,917	232,586	91,331
TOTAL	8,157	8,256	72,127	191,033	171,907	481,280	3,962,473	4,918,025	3,617,348	356,011	56,680	13,030	13,856,327	8,874,968	4,884,796
10-Year Average			1,377	1,446	2,043	12,038	83,691	141,442	92,803	14,582	2,389		353,766	214,566	129,239

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 - 2007 counts include 16 hour video counts 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 - 2007

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 - 2007

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
2007				56	695,605	1,763,670	112,508	3,438					2,575,277
TOTAL			14	457	7,112,149	52,088,743	7,760,352	139,464	4,136	593	36		67,105,944
10 Year - Average					390,667	2,587,645	112,209	2,771					3,093,298

TABLE 24

**MONTHLY COUNT OF LAMPREY at
BONNEVILLE DAM 1939¹ - 1969, 1997 - 2007**

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 flashboard 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.

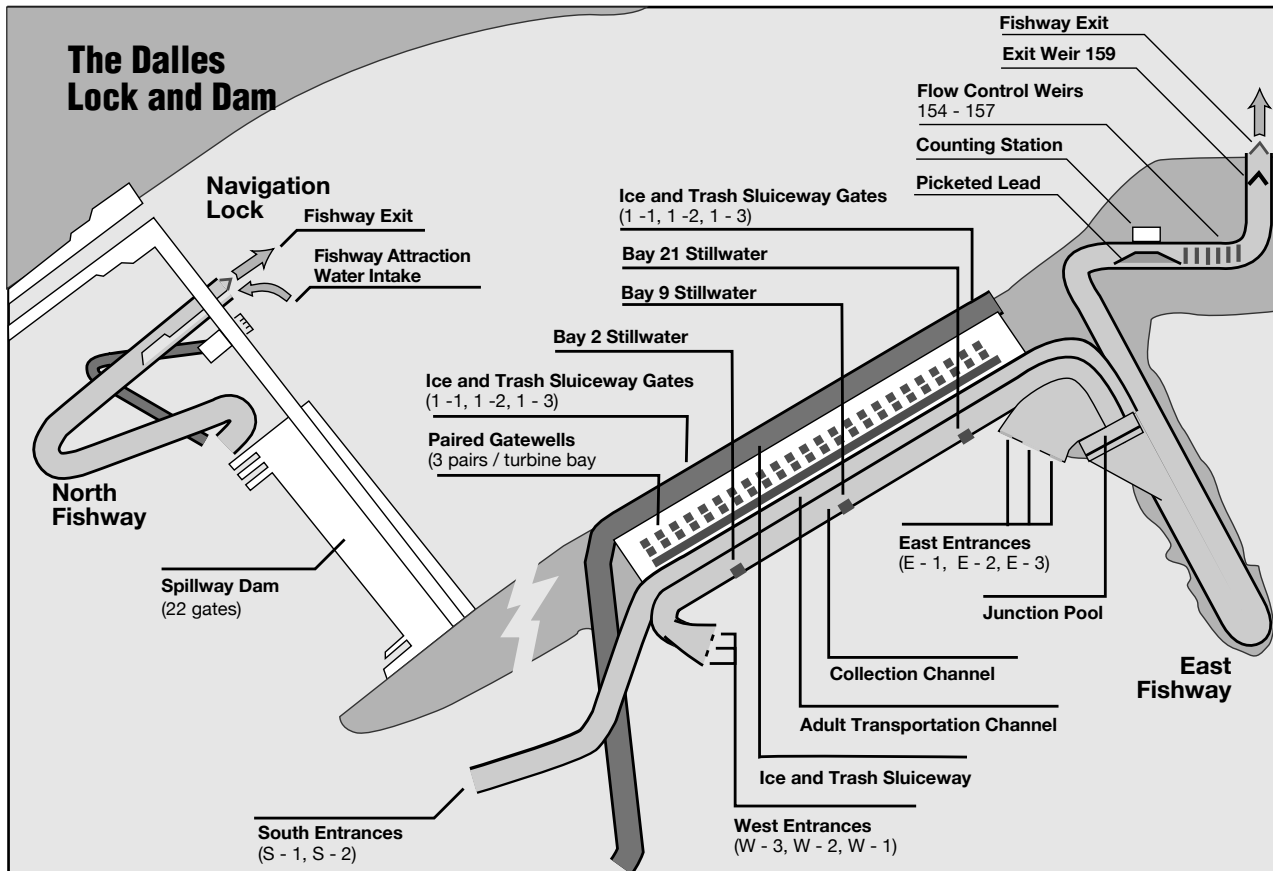
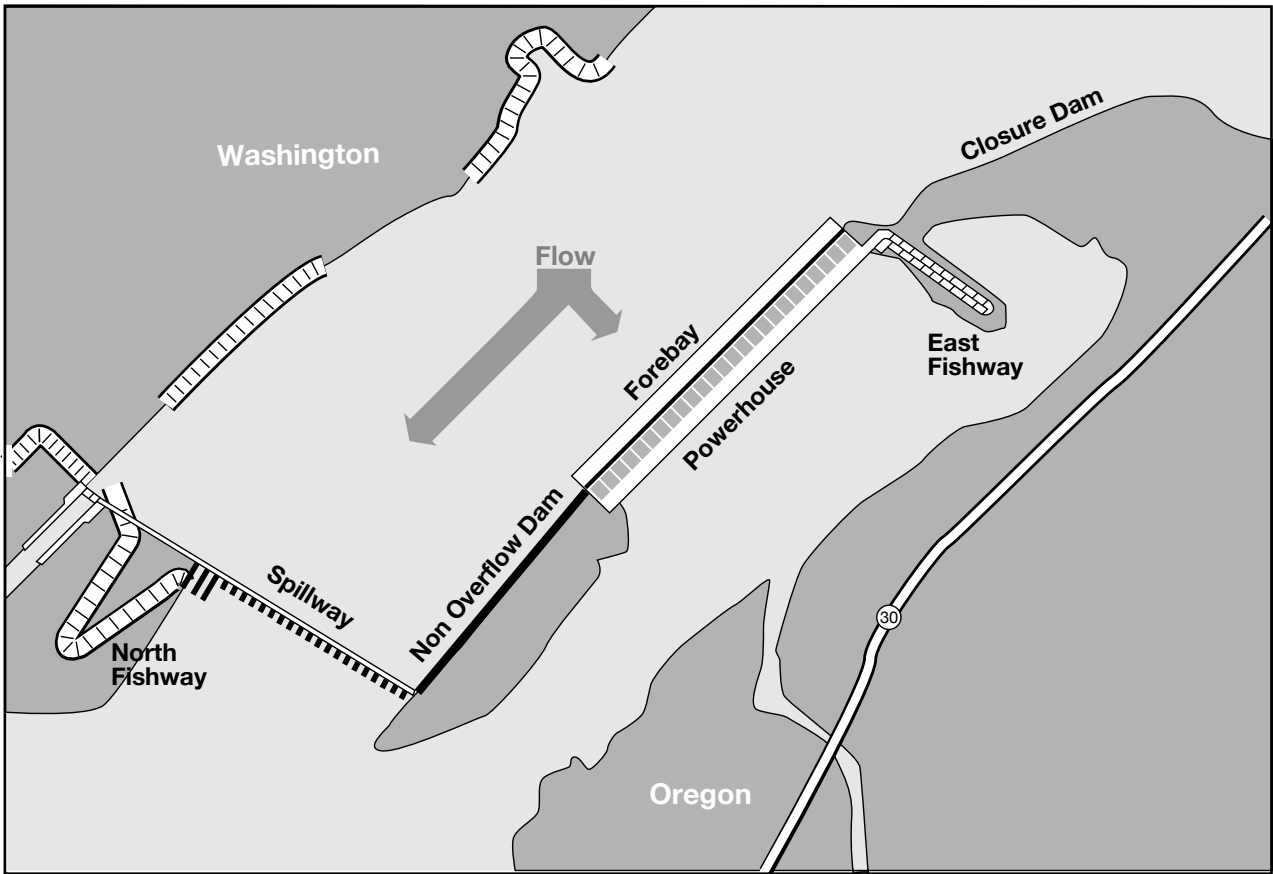
Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1939				732	9,027	95,814	103,726	14,403	3,349	71	0		227,122
1940				338	24,551	40,642	67,760	20,554	2,217	40	0		156,102
1941				1,428	7,449	6,960	34,952	12,801	1,305	57	2		64,954
1942				13	1,302	3,457	28,641	16,270	2,619	40	19		52,361
1943				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					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
2007				0	297	2,397	12,948	2,884	818	-26	-9		19,309
TOTAL				3	4,085	164,927	764,786	1,764,330	868,374	143,421	11,986	1,262	3,723,193
10-Year Average				30	1,861	17,519	19,337	6,976	2,691	185			48,596

¹No data are available for 1938.

²Because of changes in the Washington shore counting station, lamprey counts from 1939-1949 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 7	Video counting daily 0400-2000 hours Pacific Standard Time.

FISHWAY OPERATING SCHEDULE

The following information includes fishway operation for calendar year 2007. Total length of time for annual fishway outages can be determined by referring to previous years' annual reports.

East Adult Fishway

- Jan 1-Jan 2: in full operation with attraction water
- Jan 3: ladder flow only
- Jan 4 – Feb 22: dewatered for maintenance
- Feb 23-Feb28: ladder flow only
- Mar 1-Dec 4: in full operation with attraction water
- Aug 9: Attraction water off half day for required ROV grating inspection
- Dec 5 – Dec 31: dewatered for maintenance

North Adult Fishway

- Jan 1-Jan 3: ladder flow only
- Jan 4 – Dec 31: in full operation with attraction water
- Aug 9: attract water off half day for required ROV grating inspection

Ice/Trash Sluiceway (Juvenile)

- Jan 1-Apr 1: endgate closed
- Apr 2-Nov 30: open with sluiceways 1-1, 1-2, 1-3, 5-3, 182, 18-3
- Dec 1-Dec 31: endgate closed

Spillway

- Jan 1-Apr 9: closed
 - Apr 10-Aug 31: spill 40%, 24 hrs/day
 - Sept 1-Dec 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

East ladder (Jan 6) – Seventeen adult steelhead released to river.

West entrance (Jan 6) – Three adult steelhead released to river.

South entrance (Jan 6) – Two adult steelhead and 2 juvenile steelhead and 25 lamprey released to river.

East entrance, junction pool, collection and transportation channels (Feb 1) – Four adult steelhead, 244 lamprey, 7 small sturgeon and 4 carp released to river.

East ladder (Dec 5) – Annual inspection and maintenance. One adult steelhead, 12 juvenile steelhead and 6 large sturgeon (5'-7') released to river. Three lamprey given to Nez Perce and 1 to Umatilla Tribe restocking efforts.

South entrance (Dec 17) – One adult steelhead released to river. Seventeen lamprey given to Nez Perce tribe for restocking efforts.

Junction pool (Dec 17) – Five adult steelhead released to river.

Transportation channel (Dec 17) – Five adult steelhead, 14 small sturgeon released to river. Two lamprey given to Nez Perce for restocking efforts.

East entrance (Dec 17) – Two adult steelhead released to river.

Collection channel and west entrance (Dec 17) – no fish found.

Fishway Dives

North and east fishway ROV(Aug 9) – Annual mid season inspection. No problems found.

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

Fish unit 1 scroll case, draft tube (Jan 5) – No fish found

Main turbine unit 17 (May 22) – Routine maintenance. No fish in scroll case or draft tube.

Main turbine unit 18 (Jun 1) – One perch in scroll released to river. Five sturgeon and 4 catfish in draft tube released to river.

Main turbine unit 21 (Sep 13) – Routine maintenance. No fish in scroll case. One hundred twenty sturgeon (largest 5') and 40 catfish in draft tube released to river.

Main turbine unit 18 (Oct 17) – Routine maintenance. No fish in scroll case. One sturgeon and 2 catfish in draft tube released to river.

Main turbine unit 5 (Nov 13) – One sturgeon in scroll case and one catfish in draft tube released to river.

NAVLOCK DEWATERINGS

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

FISHWAY INSPECTION COMPARISON

Two 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 red. Values are rounded to the nearest whole percent.

<u>Criteria Item</u>	<u>2007</u>	<u>2006</u>	<u>2005</u>	<u>2004</u>
East Fishway				
Exit differential	0	0	0	0
Weir 158	1	1	2	3
Weirs 154 – 157	2	5	9	2
<i>Count station differential</i>	0	1	1	2
<i>Weir crest depth</i>	1	1	1	7
<i>JP2 junction pool</i>	pulled	pulled	1	1
<i>JP4 junction pool</i>	pulled	pulled	0	1
<i>JP6 junction pool</i>	0	3	5	21
East entrance differential	1	2	1	10
E1 entrance depth	0	closed	closed	closed
E2 entrance depth	0	0	2	19
E3 entrance depth	0	0	1	2
<i>Collection channel velocity</i>	2	12	42	32
West entrance differential	0	1	7	7
W1 entrance depth	0	2	1	4
W2 entrance depth	0	1	8	3
W3 entrance depth	0	closed	closed	closed
South entrance differential	2	1	4	9
S1 entrance depth	19	1	1	7
S2 entrance depth	3	1	1	7
North Fishway				
Exit differential	0	0	0	0
<i>Count station differential</i>	0	0	1	0
<i>Weir crest depth</i>	2	3	1	0
North entrance differential	5	0	1	1
N1 entrance depth	0	0	1	2

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

Discussion

Collection channel velocity was similar to previous years. The velocity meter at bay 20 was abandoned due to accuracy problems. Surface measurements of the entire channel were taken with timed float. Overall collection channel velocity was within criteria, with the exception of bay 20-21 which continued to be slow area.

S1 entrance weir was out of service for most of spring due to mechanical problems. A bulkhead was installed and the adjacent entrance S2 was operated at approx 15' depth to maintain criteria differential. S1 was reinstalled after repair. Another weir is being constructed that will provide a spare for south and north spillway entrances.

WATER QUALITY

Temperature was read from station service penstock at The Dalles. Water clarity was read by secchi dish at count stations. This data was provided in '07 per regional request to maintain historical data base. Temperature monitoring by temperature data loggers in each fishway was provided biweekly in the fishway status reports for more representative water temperatures. The data loggers have been proven more accurate and pertinent to fish passage concerns.

TABLE 25

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

2007

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*		1	51	19,338	46,147	34,405	19,510	21,415	93,517	17,883	1,326	20	253,613
STEELHEAD		195	1,948	1,033	255	2,155	25,008	66,310	121,058	26,079	2,776	143	246,960
SOCKEYE					10	13,475	5,540	99					19,124
COHO*								596	17,545	14,608	198	14	32,961
CHUM										4	5	2	11
PINK									1				1
TOTAL	196	1,999	20,371	46,412	50,035	50,058	88,420	232,121	58,574	4,305	179	552,670	
SHAD				8	887,302	2,538,574	164,262	1,842					3,591,988
LAMPREY				1	1	319	4,468	1,062	227	7			6,085
STURGEON					5	10	22	18	13				68
BULL TROUT													0

*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.

Shad are not counted after August 31.

TABLE 26

DISCHARGE AND WATER QUALITY DATA
THE DALLES PROJECT 2007

JANUARY

DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI *DEG F
Jan 1	118.5	0.0	
Jan 2	116.9	0.0	
Jan 3	121.0	0.0	
Jan 4	146.5	0.0	
Jan 5	167.6	0.0	
Jan 6	146.9	0.0	
Jan 7	160.6	0.0	
Jan 8	146.3	0.0	
Jan 9	132.0	0.0	
Jan 10	161.6	0.0	
Jan 11	153.6	0.0	
Jan 12	196.2	0.0	
Jan 13	173.7	0.0	
Jan 14	185.7	0.0	
Jan 15	198.7	0.0	
Jan 16	188.5	0.0	
Jan 17	169.9	0.0	
Jan 18	197.3	0.0	
Jan 19	170.4	0.0	
Jan 20	162.7	0.0	
Jan 21	146.2	0.0	
Jan 22	174.6	0.0	
Jan 23	162.2	0.0	
Jan 24	172.2	0.0	
Jan 25	175.9	0.0	
Jan 26	177.5	0.0	
Jan 27	173.3	0.0	
Jan 28	141.0	0.0	
Jan 29	182.2	0.0	
Jan 30	145.3	0.0	
Jan 31	159.3	0.0	

AVG. 162.1 0.0

*Data Unavailable

TABLE 27

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

THE DALLES PROJECT
FEBRUARY 2007

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
Feb 1													165.5	0.0		
Feb 2													147.3	0.0		
Feb 3													153.6	0.0		
Feb 4													116.9	0.0		
Feb 5													140.0	0.0		
Feb 6													136.7	0.0		
Feb 7													135.9	0.0		
Feb 8													138.8	0.0		
Feb 9													129.9	0.0		
Feb 10													155.5	0.0		
Feb 11													132.2	0.0		
Feb 12													129.1	0.0		
Feb 13													137.0	0.0		
Feb 14													164.7	0.0		
Feb 15													143.5	0.0		
Feb 16													137.2	0.0		
Feb 17													136.0	0.0		
Feb 18													119.9	0.0		
Feb 19													144.5	0.0		
Feb 20	0							5	1				140.2	0.0		
Feb 21	0							9	2				140.4	0.0		
Feb 22	0							9	2				116.7	0.0		
Feb 23	0							12	4				113.5	0.0		
Feb 24	0							16	4				130.2	0.0		
Feb 25	0							20	5				120.8	0.0		
Feb 26	0							14	3				121.0	0.0		
Feb 27	0							33	11				138.4	0.0		
Feb 28	1							77	25				118.3	0.0		
TOTAL	1							195	57							
AVG.	0							22	6				135.8	0.0		

*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 2007

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							29	11				157.7	0.0	*	*
Mar 2	0							31	13				161.5	0.0	*	*
Mar 3	1							34	10				155.1	0.0	*	*
Mar 4	0							38	11				127.4	0.0	*	*
Mar 5	1							26	6				125.0	0.0	*	*
Mar 6	0							31	10				135.0	0.0	*	*
Mar 7	0							28	7				132.6	0.0	*	*
Mar 8	0							32	7				149.2	0.0	*	*
Mar 9	2							51	15				163.2	0.0	*	*
Mar 10	1							32	7				145.2	0.0	*	*
Mar 11	0							35	7				116.7	0.0	*	*
Mar 12	3							56	14				136.7	0.0	*	*
Mar 13	1							57	24				163.4	0.0	*	*
Mar 14	1							46	23				195.6	2.1	*	*
Mar 15	0							42	19				210.5	0.0	*	*
Mar 16	0							30	10				209.5	0.0	*	*
Mar 17	1							45	20				202.0	0.0	*	*
Mar 18	2							44	9				179.9	0.0	5.5	42.0
Mar 19	2							51	27				200.2	0.8	4.5	45.0
Mar 20	1							40	20				218.9	0.0	4.0	45.0
Mar 21	2							44	20				256.1	0.0	4.5	45.0
Mar 22	-1							44	20				248.2	0.0	4.0	44.0
Mar 23	1							53	22				191.1	0.0	3.0	45.0
Mar 24	2							61	26				238.2	0.0	3.0	45.0
Mar 25	4							55	23				227.5	0.0	3.0	45.0
Mar 26	1							77	29				265.3	4.1	3.0	46.0
Mar 27	3							127	42				214.9	18.3	3.5	46.0
Mar 28	3							127	30				219.7	15.6	4.0	45.0
Mar 29	2							169	33				255.3	20.7	4.0	45.0
Mar 30	13							230	70				268.9	7.2	4.0	45.0
Mar 31	5							183	44				276.2	3.3	5.5	45.0
TOTAL	51							1,948	629							
AVG.	2							63	20				191.8	2.3	4.0	44.9

*Data unavailable

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 occurred resulting in a loss of 7 hours at the north ladder. Official Spring Chinook run started April 1. February and March Chinook counts were not added to spring totals.

TABLE 29

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

THE DALLES PROJECT
APRIL 2007

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	3			0				184	69	0	0		269.0	25.5	4.5	45.0
Apr 2	1			0				108	33	0	0		231.3	0.0	4.0	46.0
Apr 3	0			0				178	65	0	0		265.8	17.2	*	*
Apr 4	4			0				69	17	0	0		234.8	8.5	*	*
Apr 5	2			0				69	22	0	0		243.7	0.0	*	*
Apr 6	1			0				37	9	0	0		230.6	0.0	3.5	46.0
Apr 7	2			0				28	16	0	0		209.3	0.0	3.5	46.9
Apr 8	8			0				37	12	0	0		197.3	0.0	4.0	46.9
Apr 9	16			1				40	19	0	0		192.8	0.0	4.0	46.0
Apr 10	18			0				22	8	0	0		207.3	82.0	4.5	46.9
Apr 11	10			1				25	7	0	0		227.6	90.9	4.0	46.9
Apr 12	44			2				21	5	0	0		185.0	74.2	4.0	46.9
Apr 13	81			2				13	6	0	0		245.1	98.1	4.0	46.9
Apr 14	111			1				22	10	0	0		207.7	83.3	4.0	46.9
Apr 15	288			2				20	10	0	0		230.4	94.5	4.0	48.0
Apr 16	256			2				27	13	0	0		210.2	84.1	4.0	48.0
Apr 17	190			2				10	5	0	0		226.2	90.8	4.5	48.0
Apr 18	547			0				18	8	0	0		208.7	83.6	4.5	48.9
Apr 19	714			3				14	3	0	0		211.8	83.8	4.5	48.9
Apr 20	1,136			8				18	11	0	0		214.6	86.3	5.0	48.9
Apr 21	1,574			13				11	6	0	0		213.4	85.8	4.0	50.0
Apr 22	1,066			19				7	2	0	0		214.9	85.9	4.5	52.0
Apr 23	721			13				5	4	0	0		216.4	86.3	5.0	52.0
Apr 24	884			13				3	2	0	0		193.7	77.2	5.0	51.1
Apr 25	1,430			40				11	10	0	1		207.0	81.9	5.0	51.1
Apr 26	1,303			34				5	4	1	0		216.7	86.8	5.0	50.0
Apr 27	2,125			84				12	2	0	0		226.3	90.6	5.0	50.0
Apr 28	2,078			119				9	4	1	0		216.8	86.2	5.0	50.0
Apr 29	2,066			120				8	1	5	0		225.4	90.4	5.0	53.1
Apr 30	2,040			140				2	1	1	0		223.1	89.6	5.0	52.0

TOTAL	18,719			619				1,033	384	8	1					
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AVG.	624			21				34	13	0	0					
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220.1	62.1	4.4	48.7
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*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.

TABLE 30

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

THE DALLES PROJECT
MAY 2007

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	2,662			266			0	10	4	0	0	0	247.6	98.9	5.0	51.0	
May 2	1,859			269			0	2	1	2	0	0	255.1	101.3	5.0	52.0	
May 3	1,553			263			0	7	5	0	0	0	262.9	104.4	4.5	51.0	
May 4	1,913			342			0	4	0	1	0	0	274.7	108.6	5.0	51.0	
May 5	1,302			385			0	9	4	1	0	0	273.2	109.1	5.0	51.0	
May 6	1,181			434			0	2	2	4	0	0	269.9	108.2	3.0	54.0	
May 7	1,127			468			0	7	1	1	0	0	235.1	93.8	5.0	53.0	
May 8	1,059			353			0	2	0	4	0	0	247.1	95.6	4.0	54.0	
May 9	1,723			936			0	6	0	18	0	0	273.0	108.2	4.5	53.0	
May 10	2,769			1,290			0	6	1	49	0	0	267.3	106.0	5.0	54.0	
May 11	1,564			790			0	7	-1	350	0	0	270.2	107.9	5.0	54.0	
May 12	946			611			0	7	0	175	0	0	263.9	105.2	4.0	54.0	
May 13	952			775			0	6	1	259	0	0	245.8	98.5	5.0	54.0	
May 14	635			540			0	7	2	126	0	0	283.2	113.5	4.0	55.0	
May 15	543			455			0	9	1	498	0	0	269.4	107.2	4.0	55.0	
May 16	786			814			0	11	0	677	0	0	251.4	100.4	4.0	55.0	
May 17	789			794			0	12	0	2,950	0	0	252.1	101.1	4.0	56.0	
May 18	689			445			0	16	2	2,231	0	0	253.9	101.6	3.0	57.0	
May 19	998			479			0	5	0	2,718	0	0	254.8	102.4	3.5	57.0	
May 20	726			432			0	2	0	3,719	0	0	259.1	102.9	5.0	56.0	
May 21	842			338			0	5	0	5,243	0	1	255.6	100.5	4.5	56.0	
May 22	520			294			0	6	0	62,099	0	0	254.3	101.6	4.5	56.0	
May 23	459			265			0	5	-1	96,766	0	1	258.1	103.9	4.0	56.0	
May 24	521			286			0	10	2	67,985	0	1	245.6	97.6	4.5	56.0	
May 25	529			262			0	9	1	73,382	0	0	252.0	101.0	5.0	57.0	
May 26	557			324			0	7	4	114,782	0	0	239.3	96.3	5.0	57.0	
May 27	556			304			0	15	1	82,891	0	1	206.7	82.4	5.0	58.0	
May 28	542			259			1	24	4	52,475	0	0	256.3	102.0	5.0	57.0	
May 29	514			148			0	8	1	67,072	0	0	233.6	93.6	6.0	58.0	
May 30	659			307			2	20	1	125,671	0	0	225.7	89.4	5.5	58.0	
May 31	580			164			7	9	1	125,153	1	1	232.1	91.7	5.0	59.0	
TOTAL	32,055			14,092			10	255	37	887,302	1	5					
AVG.	1,034			455			0	8	1	28,623	0	0	253.8	101.1	4.6	55.0	
RUN YEAR																	
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK				SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON					
SPRING		50,774	14,711				10	1,288	421	887,310	2	5					

TABLE 31

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

THE DALLES PROJECT
JUNE 2007

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	680			228			16	29	1	134,023	2	0	221.6	82.8	5.0	59.0
Jun 2	486			185			25	16	2	165,704	1	0	204.9	81.2	5.0	60.0
Jun 3	855			282			23	13	6	153,187	2	0	222.0	85.8	4.0	60.0
Jun 4		729		161			32	20	5	121,651	4	0	226.0	84.1	5.0	61.0
Jun 5		723		208			21	22	1	114,222	12	0	208.1	82.9	4.5	60.0
Jun 6		490		140			41	20	2	60,922	7	0	243.9	97.5	5.5	60.0
Jun 7		1,058		243			46	25	1	62,244	7	0	210.4	84.6	5.5	60.0
Jun 8		1,017		220			62	20	1	65,998	1	0	252.5	100.4	5.0	61.0
Jun 9		1,162		196			77	28	5	80,059	3	0	277.0	106.9	5.5	61.0
Jun 10		850		211			169	30	6	47,016	22	3	222.3	89.8	6.0	60.0
Jun 11		597		102			106	12	2	89,750	9	0	252.1	99.7	5.0	60.0
Jun 12		792		270			240	49	5	106,949	2	1	230.1	92.0	4.0	60.0
Jun 13		1,109		355			307	43	7	153,907	12	1	239.0	95.7	4.5	61.0
Jun 14		1,064		230			414	62	4	101,106	10	0	235.4	94.2	4.0	60.0
Jun 15		858		281			238	81	12	57,002	6	1	230.7	92.2	3.0	61.0
Jun 16		1,153		274			619	98	11	148,758	9	0	201.4	80.8	3.0	61.0
Jun 17		1,187		318			543	74	17	93,648	26	0	177.7	71.2	4.5	60.0
Jun 18		587		336			355	48	16	49,786	6	1	223.2	89.2	4.5	61.0
Jun 19		687		210			471	24	6	79,928	15	0	219.1	87.0	5.0	62.0
Jun 20		714		253			815	102	11	70,291	12	0	185.8	74.6	4.5	61.0
Jun 21		911		263			975	74	8	80,706	27	1	169.1	67.1	5.0	61.0
Jun 22		1,176		373			1,213	116	21	126,210	15	1	194.1	77.3	5.0	61.0
Jun 23		1,297		207			924	75	13	96,723	11	0	191.5	76.5	4.0	60.0
Jun 24		1,205		282			1,257	139	16	57,401	11	0	162.0	65.4	4.0	61.0
Jun 25		1,102		192			905	73	24	59,739	6	0	187.3	74.7	5.0	62.0
Jun 26		1,349		362			868	165	40	65,311	21	0	187.6	75.0	5.0	63.0
Jun 27		727		288			731	132	33	26,690	16	0	163.7	65.7	4.5	63.0
Jun 28		704		247			647	161	43	23,504	23	1	160.9	64.5	4.5	64.0
Jun 29		892		250			756	196	46	20,437	13	0	163.0	65.3	3.0	64.0
Jun 30		913		164			579	208	82	25,702	8	0	176.3	71.3	3.0	64.0
TOTAL	2,021	25,053		7,331			13,475	2,155	447	2,538,574	319	10				
AVG.	674	928		244			449	72	15	84,619	11	0	208.0	82.5	4.5	61.1
RUN YEAR																
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK				SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON				
SPRING		52,795	15,406				13,485	3,443	868	3,425,884	321	15				
SUMMER		25,053	6,636													
TOTAL		77,848	22,042													

TABLE 32

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

THE DALLES PROJECT
JULY 2007

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		920		270			882	359	87	22,758	5	1	143.1	57.5	4.5	65.0
Jul 2		600		168			645	331	128	35,670	22	0	131.1	52.4	5.0	64.0
Jul 3		806		207			547	453	129	15,680	1	2	171.2	68.4	5.0	65.0
Jul 4		620		144			403	293	105	21,126	29	0	144.3	57.8	4.5	66.0
Jul 5		699		221			417	404	148	12,619	47	0	161.9	65.2	5.0	65.0
Jul 6		646		391			370	537	171	11,738	56	0	176.3	70.3	3.5	64.0
Jul 7		840		287			326	579	206	8,439	67	0	145.4	58.3	3.5	65.0
Jul 8		706		224			205	544	207	5,812	82	0	154.2	61.8	5.0	67.0
Jul 9		570		192			228	621	197	6,051	106	0	174.1	69.8	5.0	67.0
Jul 10		425		111			195	466	203	3,503	209	0	165.5	66.1	5.5	69.0
Jul 11		538		147			219	797	370	2,668	274	3	172.4	68.6	5.0	67.0
Jul 12		510		90			144	524	209	2,140	353	2	174.4	69.8	5.5	69.0
Jul 13		496		153			109	839	353	2,634	318	0	199.7	80.2	3.0	69.0
Jul 14		443		163			127	751	348	1,861	451	0	201.1	80.9	3.5	70.0
Jul 15		491		145			126	1,047	419	2,382	266	0	183.9	73.8	4.0	70.0
Jul 16		286		111			82	557	211	1,986	215	0	200.3	80.2	4.0	70.0
Jul 17		551		184			106	1,164	560	1,420	420	3	158.5	63.1	4.0	69.0
Jul 18		421		108			58	860	394	1,152	298	3	158.4	62.8	5.0	70.0
Jul 19		352		133			75	695	321	783	233	1	162.7	64.8	4.0	70.0
Jul 20		533		150			60	1,007	402	735	138	0	152.7	61.0	4.0	70.0
Jul 21		378		86			50	764	319	764	109	1	154.8	62.2	3.5	71.0
Jul 22		360		94			31	938	389	260	85	0	166.4	66.7	4.0	71.0
Jul 23		350		79			21	1,199	468	295	85	1	154.9	62.1	4.5	71.0
Jul 24		386		107			20	1,280	523	281	51	1	157.3	62.5	5.0	70.0
Jul 25		293		90			14	842	333	179	51	0	151.5	60.0	5.0	71.0
Jul 26		350		100			16	1,318	574	450	79	0	161.1	64.6	5.0	71.0
Jul 27		338		79			21	1,208	466	198	96	1	171.3	68.5	4.0	72.0
Jul 28		264		123			15	1,365	540	234	48	1	153.7	61.2	4.0	72.0
Jul 29		265		87			10	1,376	535	167	108	0	135.3	54.1	4.5	71.0
Jul 30		248		82			12	978	345	180	92	2	165.0	65.8	4.5	71.0
Jul 31		243		56			6	912	336	97	74	0	150.3	59.8	4.5	72.0
TOTAL		14,928		4,582			5,540	25,008	9,996	164,262	4,468	22	163.0	65.2	4.4	68.8
AVG		482		148			179	807	322	5,299	144	1	163.0	65.2	4.4	68.8
RUN YEAR																
TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK			COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON				
SPRING	52,795	15,406			0	0	19,025	28,451	10,864	3,590,146	4,789	37				
SUMMER	39,981	11,218														
TOTAL	92,776	26,624														

TABLE 33

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

THE DALLES PROJECT
AUGUST 2007

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		197		49	0	0	8	1,205	464	126	44	4	169.6	67.7	5.0	71.0
Aug 2		207		54	0	0	2	835	259	58	57	1	182.1	73.0	5.0	72.0
Aug 3		268		88	0	0	11	1,290	531	128	65	0	137.9	55.1	3.5	71.0
Aug 4			199	70	2	0	4	1,237	441	54	40	0	136.6	54.4	3.0	71.0
Aug 5			228	59	0	0	2	1,873	681	157	82	1	129.5	52.1	4.5	71.0
Aug 6			185	179	0	0	29	1,115	375	127	48	0	123.6	49.7	5.0	71.0
Aug 7			152	49	0	0	8	1,726	600	134	62	1	129.7	52.2	4.5	70.0
Aug 8			163	118	0	0	6	1,203	357	64	54	0	145.6	57.9	4.5	72.0
Aug 9			237	45	0	0	6	1,690	538	57	88	1	144.3	57.8	5.0	72.0
Aug 10			235	59	0	0	17	1,378	384	69	33	1	154.8	61.8	5.0	71.0
Aug 11			388	53	4	0	2	1,751	487	58	23	0	138.4	55.5	4.5	70.0
Aug 12			313	49	0	0	1	2,153	665	30	8	0	129.5	51.6	5.0	70.0
Aug 13			261	39	0	-1	1	1,855	539	24	31	2	149.5	59.8	5.5	70.0
Aug 14			350	46	0	0	0	1,597	416	57	27	0	151.5	60.8	5.0	71.0
Aug 15			436	84	0	0	1	1,815	482	158	36	0	147.6	59.1	4.5	70.0
Aug 16			472	61	0	0	0	2,496	674	84	27	1	150.4	60.3	5.0	71.0
Aug 17			497	55	1	0	0	2,945	731	22	29	1	122.2	49.3	5.0	71.0
Aug 18			562	54	5	1	0	2,955	789	28	25	0	112.9	45.3	5.0	71.0
Aug 19			539	65	10	0	1	3,314	823	23	37	1	108.6	43.4	6.0	71.0
Aug 20			566	81	14	6	0	2,651	647	18	19	1	116.1	45.8	6.0	71.0
Aug 21			544	60	6	0	0	2,245	507	57	39	0	114.2	45.7	6.0	70.0
Aug 22			729	73	7	2	0	3,162	730	83	19	0	140.1	55.9	6.0	70.0
Aug 23			373	69	10	0	0	2,384	567	51	34	0	127.6	51.4	5.0	71.0
Aug 24			439	64	20	1	0	2,500	545	18	35	1	120.2	48.7	4.0	71.0
Aug 25			961	74	25	8	0	2,218	470	32	16	0	101.7	41.0	4.0	71.0
Aug 26			819	106	64	7	0	2,638	539	19	16	-1	112.4	44.9	6.0	70.0
Aug 27			1,332	148	40	13	0	2,664	510	8	5	0	112.6	45.1	6.0	70.0
Aug 28			1,254	143	72	8	0	3,308	752	9	14	0	123.8	49.7	5.0	70.0
Aug 29			1,079	177	52	3	0	2,698	494	5	27	3	131.2	52.5	5.0	70.0
Aug 30			1,414	217	77	1	0	2,398	478	49	15	0	136.9	54.7	6.0	70.0
Aug 31			2,951	577	128	10	0	3,011	559	35	7	0	129.5	51.9	4.0	70.0
TOTAL		672	17,678	3,065	537	59	99	66,310	17,034	1,842	1,062	18				
AVG.		224	631	99	17	2	3	2139	549	59	34	1	133.2	53.4	5.0	70.7

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	52,795	15,406
SUMMER	40,653	11,409
FALL	17,678	2,874
TOTAL	111,126	29,689

COHO ADULTS	COHO JACKS	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
537	59	19,124	94,761	27,898	3,591,988	5,851	55

TABLE 34

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

THE DALLES PROJECT
SEPTEMBER 2007

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			2,788	701	171	13		2,429	490	0	11	0	115.9	0.0	6.0	70.0
Sep 2			3,351	703	170	9		2,638	570	0	8	0	91.5	0.0	6.0	70.0
Sep 3			1,962	625	186	25		2,000	411	0	2	1	93.9	0.0	6.0	70.0
Sep 4			1,830	563	152	15		1,144	259	0	13	0	92.9	0.0	6.0	71.0
Sep 5			1,126	568	115	35		859	181	0	15	1	105.3	0.0	6.0	71.0
Sep 6			2,185	728	214	17		2,562	469	0	13	0	108.7	0.0	6.0	70.0
Sep 7			1,456	575	269	18		2,937	534	0	21	0	81.4	0.0	6.0	70.0
Sep 8			2,722	1,032	525	133		6,949	1,443	0	10	0	77.2	0.0	6.0	70.0
Sep 9			3,144	1,028	452	21		7,341	1,427	0	14	3	64.4	0.0	6.0	70.0
Sep 10			2,944	1,100	259	70		4,060	782	0	18	1	81.7	0.0	6.0	70.0
Sep 11			3,068	1,047	235	50		3,372	665	0	12	0	90.2	0.0	6.0	70.0
Sep 12			2,483	1,001	403	89		3,931	876	0	14	1	93.2	0.0	6.0	69.0
Sep 13			1,302	930	237	64		4,246	973	0	11	1	85.1	0.0	6.0	70.0
Sep 14			1,894	1,357	620	52		4,317	939	0	6	2	88.6	0.0	5.5	70.0
Sep 15			2,045	1,144	899	192		7,059	1,603	0	9	0	81.3	0.0	5.5	70.0
Sep 16			2,711	1,267	1,062	120		7,988	1,806	0	6	0	67.4	0.0	5.0	67.0
Sep 17			1,725	779	602	65		4,671	1,091	0	2	1	79.6	0.0	5.0	67.0
Sep 18			1,323	732	566	34		4,427	977	0	10	0	77.8	0.0	6.0	67.0
Sep 19			1,577	713	332	9		3,694	764	0	8	0	83.9	0.0	6.0	68.0
Sep 20			1,830	714	594	81		4,738	1,001	0	2	0	89.1	0.0	5.5	68.0
Sep 21			3,203	1,335	490	26		5,424	1,034	0	2	1	86.9	0.0	5.0	68.0
Sep 22			3,444	2,412	959	92		5,624	1,302	0	2	0	72.1	0.0	5.5	68.0
Sep 23			3,853	2,548	1,088	54		5,559	1,108	0	0	1	58.3	0.0	5.0	67.0
Sep 24			2,351	1,981	1,331	188		6,512	1,483	0	2	0	72.7	0.0	5.0	67.0
Sep 25			2,182	1,333	1,857	64		5,536	1,199	0	2	0	82.6	0.0	6.0	65.5
Sep 26			1,093	948	446	31		2,442	546	0	2	0	88.9	0.0	6.0	67.0
Sep 27			1,163	805	444	24		2,432	566	1	5	0	79.8	0.0	6.0	67.0
Sep 28			884	619	270	12		1,943	368	0	5	0	65.0	0.0	6.0	66.0
Sep 29			1,013	708	462	17		2,769	609	0	1	0	64.7	0.0	6.0	65.0
Sep 30			528	341	502	13		1,455	332	0	1	0	63.1	0.0	6.0	65.0
TOTAL			63,180	30,337	15,912	1,633		121,058	25,808	1	227	13				
AVG.			2,106	1,011	530	54		4,035	860	0	8	0	82.8	0.0	5.8	68.5

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	52,795	15,406
SPRING	40,653	11,409
FALL	80,858	33,211
TOTAL	174,306	60,026

COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	PINK
16,449	1,692	19,124	215,819	53,706	3,591,988	6,078	68	1

TABLE 35

MONTHLY FISH PASSAGE SUMMARY REPORT

THE DALLES PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

OCTOBER 2007

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			693	222	301	32		1,364	309	0	5		74.9	0.0	6.0	63.0
Oct 2			814	345	1,396	19		3,275	680	0	0		88.2	0.0	6.0	63.5
Oct 3			917	419	2,119	43		2,648	663	0	0		80.0	0.0	6.0	63.5
Oct 4			804	336	1,966	21		1,401	328	0	0		99.9	0.0	6.0	63.0
Oct 5			533	235	2,241	28		2,030	585	0	1		90.9	0.0	6.0	63.0
Oct 6			434	232	652	74		1,279	293	0	0		87.9	0.0	5.5	62.0
Oct 7			468	261	259	23		1,010	224	0	1		64.5	0.0	5.5	62.0
Oct 8			328	168	186	1		708	162	0	0		81.3	0.0	6.0	62.0
Oct 9			511	252	99	7		743	200	0	0		98.5	0.0	6.0	62.0
Oct 10			793	410	130	6		932	185	0	0		95.9	0.0	6.0	61.0
Oct 11			673	338	182	18		1,017	231	0	0		107.1	0.0	5.5	61.0
Oct 12			825	329	169	16		866	179	0	0		110.8	0.0	6.0	60.0
Oct 13			639	302	144	6		852	186	0	0		90.9	0.0	6.0	60.0
Oct 14			359	144	115	7		645	114	0	0		79.3	0.0	6.0	59.0
Oct 15			482	229	135	4		596	120	0	0		79.7	0.0	6.0	59.0
Oct 16			458	183	126	5		605	157	0	0		89.7	0.0	6.0	59.0
Oct 17			349	107	117	0		482	137	0	0		83.0	0.0	6.0	60.0
Oct 18			420	129	295	1		476	120	0	0		122.5	0.0	6.0	60.0
Oct 19			231	66	703	8		366	88	0	0		77.6	0.0	6.0	60.0
Oct 20			306	79	1,717	24		846	284	0	0		82.8	0.0	6.0	60.0
Oct 21			283	57	556	23		742	228	0	0		94.7	0.0	6.0	59.0
Oct 22			177	61	252	21		723	208	0	0		87.8	0.0	6.0	57.0
Oct 23			194	69	96	0		462	100	0	0		100.1	0.0	6.0	59.0
Oct 24			198	46	77	0		514	150	0	0		93.6	0.0	6.0	59.0
Oct 25			182	17	45	0		305	61	0	0		100.2	0.0	6.0	58.0
Oct 26			160	36	35	0		293	94	0	0		94.6	0.0	6.0	58.0
Oct 27			133	29	23	5		259	66	0	0		95.9	0.0	6.0	58.0
Oct 28			66	19	21	0		154	52	0	0		69.2	0.0	6.0	58.0
Oct 29			94	14	10	2		170	35	2	0		99.3	0.0	6.0	57.0
Oct 30			68	31	24	1		187	59	0	0		91.5	0.4	6.0	57.0
Oct 31			117	9	21	1		129	30	2	0		94.1	0.0	6.0	57.0
TOTAL			12,709	5,174	14,212	396		26,079	6,328	4	7					

AVG.			410	167	458	13		841	204	0	0		90.5	0.0	6.0	60.0
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	PINK	CHUM
TOTALS TO DATE												
SPRING	52,795	15,406	30,661	2,088	19,124	241,898	60,034	3,591,988	6,085	68	1	4
SUMMER	40,653	11,409										
FALL	93,567	38,385										
TOTAL	187,015	65,200										

Note: Visual counts ended October 31.

TABLE 36

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

THE DALLES PROJECT
NOVEMBER 2007

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			131	17	22	1		146	41	0	0		94.8	0.0	6.0	56.0
Nov 2			118	15	16	0		138	33	0	-1		94.4	0.0	6.0	56.0
Nov 3			78	7	21	0		99	21	0	1		88.6	0.0	6.0	55.0
Nov 4			41	3	8	0		99	17	0	0		68.4	0.0	6.0	55.0
Nov 5			47	3	8	0		117	17	0	0		107.4	0.0	6.0	55.0
Nov 6			77	6	8	1		102	24	0	0		105.8	0.0	6.0	56.0
Nov 7			75	5	7	0		102	24	0	0		99.4	0.0	6.0	55.0
Nov 8			51	10	8	1		83	23	0	0		76.7	0.0	6.0	55.0
Nov 9			59	3	7	0		86	26	2	0		76.6	0.0	6.0	55.0
Nov 10			52	2	2	1		90	30	0	0		113.8	0.0	6.0	54.0
Nov 11			47	3	3	0		70	17	0	0		116.9	0.0	6.0	55.0
Nov 12			55	0	7	0		41	5	1	0		114.6	0.0	6.0	54.0
Nov 13			49	0	6	0		61	13	0	0		118.7	0.0	6.0	55.0
Nov 14			41	3	5	0		65	12	0	0		117.6	0.0	6.0	54.0
Nov 15			49	4	11	1		79	18	0	0		114.5	0.0	6.0	53.0
Nov 16			23	0	4	0		73	21	0	0		120.9	0.0	6.0	53.0
Nov 17			22	2	7	0		101	27	1	0		106.7	0.0	6.0	53.0
Nov 18			25	1	12	1		137	38	0	0		103.1	0.0	6.0	53.0
Nov 19			25	1	5	0		98	26	0	0		102.2	0.0	6.0	52.0
Nov 20			19	0	2	0		110	30	0	0		94.4	0.0	6.0	52.0
Nov 21			19	3	2	0		89	25	0	0		123.9	0.0	6.0	51.0
Nov 22			16	1	2	0		156	41	0	0		108.2	0.0	6.0	51.0
Nov 23			14	1	4	0		152	32	0	0		116.4	0.0	5.5	50.0
Nov 24			17	2	2	0		113	35	0	0		116.8	0.0	6.0	50.0
Nov 25			12	4	6	1		97	34	0	0		108.7	0.0	6.0	48.0
Nov 26			17	2	0	0		85	30	0	0		121.4	0.0	6.0	48.0
Nov 27			9	1	4	0		62	25	0	0		124.5	0.0	6.0	49.0
Nov 28			9	1	0	0		48	21	1	0		113.1	0.0	6.0	49.0
Nov 29			13	0	-1	0		36	14	0	0		125.1	0.0	6.0	49.0
Nov 30			14	2	3	0		41	14	0	0		123.3	0.0	6.0	50.0
TOTAL			1,224	102	191	7		2,776	734	5	0					

AVG.			41	3	6	0		93	24	0	0		107.2	0.0	6.0	52.7
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	PINK	CHUM
TOTALS TO DATE												
SPRING	52,795	15,406	30,661	2,088	19,124	241,898	60,034	3,591,988	6,085	68	1	9
SUMMER	40,653	11,409										
FALL	93,567	38,385										
TOTAL	187,015	65,200										

Note: Video counts occurred from November 1 through December 7. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Video disruption occurred resulting in a 1 hour loss on 11/5 at the east ladder. Official Fall chinook run ended October 31st. November and December totals were not added to fall totals. Pink, chum, and sturgeon counts are totals for entire calendar year.

TABLE 37

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

THE DALLES PROJECT
DECEMBER 2007

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
Dec 1			5	0	1	0		31	10	0	0		120.6	0.0	6.0	48.0
Dec 2			2	1	1	0		35	10	1	0		105.9	0.0	6.0	46.9
Dec 3			4	2	1	0		20	4	0	0		99.6	0.0	6.0	46.9
Dec 4			2	1	4	1		38	14	1	-1		102.4	0.0	6.0	46.9
Dec 5			3	0	6	0		5	1	0	-1		134.2	0.0	5.5	48.0
Dec 6			-1	0	2	0		-8	0	0	0		115.9	0.0	5.5	46.0
Dec 7			1	0	-1	0		22	6	0	0		103.3	0.0	5.5	46.9
Dec 8													113.4	0.0	6.0	45.0
Dec 9													134.4	0.0	6.0	45.0
Dec 10													136.1	0.0	6.0	45.0
Dec 11													156.7	0.0	5.5	45.0
Dec 12													130.5	0.0	5.5	45.0
Dec 13													108.4	0.0	5.5	45.0
Dec 14													145.9	0.0	6.0	45.0
Dec 15													125.1	0.0	6.0	45.0
Dec 16													105.4	0.0	6.0	45.0
Dec 17													109.4	0.0	6.0	44.1
Dec 18													118.3	0.0	5.5	45.0
Dec 19													104.8	0.0	5.5	45.0
Dec 20													109.8	0.0	6.0	46.0
Dec 21													132.4	0.0	6.0	45.0
Dec 22													127.3	0.0	5.5	43.0
Dec 23													142.4	0.0	5.5	42.0
Dec 24													112.5	0.0	6.0	42.0
Dec 25													126.5	0.0	6.0	42.0
Dec 26													104.3	0.0	5.5	42.0
Dec 27													163.5	0.0	5.5	43.0
Dec 28													159.6	0.0	6.0	43.0
Dec 29													137.9	0.0	6.0	42.0
Dec 30													108.8	0.0	6.0	42.0
Dec 31													109.4	0.0	6.0	42.0
TOTAL			16	4	14			143	45	2	-2					
AVG.			2	1	2			20	6	0	0		122.7	0.0	5.8	44.6

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	PINK	CHUM
TOTALS TO DATE												
SPRING	52,795	15,406	30,661	2,088	19,124	241,898	60,034	3,591,988	6,085	68	1	11
SUMMER	40,653	11,409										
FALL	93,567	38,385										
TOTAL	187,015	65,200										

Note: Video counts occurred from November 1 through December 7. 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 totals were not added to fall totals. Pink, chum, and sturgeon counts are totals for entire calendar year.

TABLE 38

**YEARLY TOTALS OF SALMONIDS COUNTED OVER THE DALLES DAM
1957 - 2007**

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
2007	253,613	246,960	19,124	32,961	11	1	552,670
Totals	13,477,795	8,509,443	2,921,455	760,161	244	356	25,669,454
10-Year Average	403,873	262,474	49,511	32,134			748,013

*Jacks included

TABLE 39

MONTHLY COUNT OF CHINOOK SALMON
THE DALLES DAM 1957 - 2007

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	50,527	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			100	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	280,091	33,070	3,085	84	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	28	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	9	389,905	64,219	73,136	252,520	24,991	
2006				9	1,006	61,711	58,394	26,404	24,419	141,212	26,060	2,140	16	341,371	64,012	84,839	192,520	27,212
2007			1	51	19,338	46,147	34,405	19,510	21,415	93,517	17,883	1,326	20	253,613	68,253	52,062	133,298	65,306
Total				9,800	1,893,334	1,749,524	1,286,262	1,067,329	1,312,948	5,535,292	620,675	12,780	13,488,114	3,730,721	2,343,888	7,411,143	2,661,143	
10-Year Average				57,954	53,355	44,008	26,618	36,663	163,324	21,252			404,905	115,083	68,638	220,970	45,657	

*Jacks included

TABLE 40

MONTHLY COUNT OF SOCKEYE SALMON
THE DALLES DAM
1957 - 2007

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	0				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					0	8,887	66,841	369	6				76,103
1972					0	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	0				28,827
1975					0	7,679	35,291	225	2	1			43,198
1976					1	10,988	16,637	121	0				27,747
1977					5	60,049	26,146	52	0				86,252
1978					24	7,158	4,559	104	0				11,845
1979					0	14,750	17,734	307	0				32,791
1980					0	11,096	30,046	927	19				42,088
1981					0	17,692	17,686	68	1				35,447
1982					0	11,430	21,742	144	15				33,331
1983					1	34,684	49,302	197	19	1			84,204
1984					0	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					0	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					0	6,752	2,594	8	2				9,356
1995					1	4,195	2,890	61	15	4			7,166
1996					0	17,013	7,983	44	15				25,055
1997					4	11,707	20,292	395	29	3			32,430
1998					0	4,777	3,978	65	6				8,826
1999					0	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	0				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
2007					10	13,475	5,540	99	0				19,124
Total				1	1,572	1,302,195	1,593,675	22,937	1,046	28		1	2,921,459
10-Year Average				17	35,895	13,511	85	3					49,511

TABLE 41
MONTHLY COUNT OF COHO SALMON
THE DALLES DAM: 1957-2007

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								565	29,591	10,408	1,072	10	41,645	1,919
2005			-1				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
2007								596	17,545	14,608	198	14	32,961	2,095
Total							1,570	29,489	547,314	176,527	5,950	39	760,888	198,324
10-Year Average							814	19,461	11,365				32,207	2,329

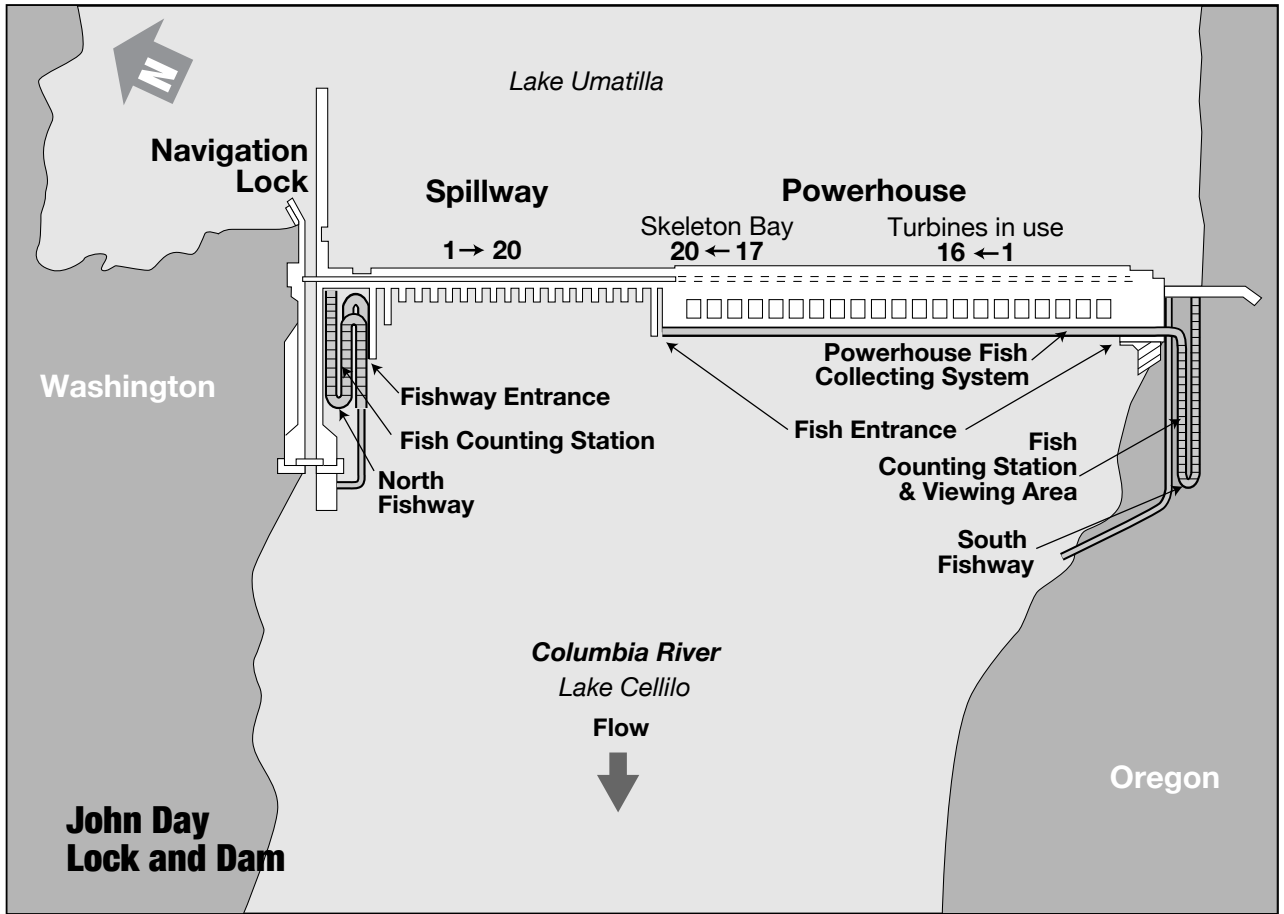
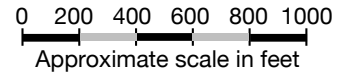
*Includes Jacks

TABLE 42

MONTHLY COUNT OF STEELHEAD
THE DALLES DAM 1957 - 2007

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
2007		195	1,948	1,033	255	2,155	25,008	66,310	121,058	26,079	2,776	143	246,960
Total			12,149	47,478	33,552	155,783	1,653,413	1,915,447	3,845,943	820,516	32,727		8,518,846
10-Year Average			891	419	5,149	37,550	50,674	131,367	33,884				263,414

Plate 4 John Day Lock and Dam



JOHN DAY DAM

FISH COUNTING SCHEDULE

Feb 21 – 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 7	Video counting daily 0400-2000 hours Pacific Standard Time.

FISHWAY OPERATING SCHEDULE

The following information includes fishway operation for calendar year 2007. Total length of time for annual fishway outages can be determined by referring to previous years' annual reports.

North Adult Fishway

Jan 1-Dec 31: in full operation with attraction water

South Adult Fishway

Jan 1-Jan 2: ladder flow only

Jan 3-Feb 28: dewatered for maintenance

Mar 1-Dec 1: in full operation with attraction water

Dec 2- Dec 3: ladder flow only

Dec 4 – Dec 31: dewatered for maintenance

Smolt Monitoring Facility

Jan 1-Apr 2: dewatered

Apr 3-Sept 15: in full operation with juvenile sampling

Sept 16-Dec 31: dewatered

Juvenile Bypass System

Jan 1-Apr 1: 1/3 gatewell orifice open, rotated twice weekly

Apr 1-Dec 31: full operation (submersible travelling screens removed 2 weeks late)

Spillway

Jan 1-Apr 9: closed (except for a few tests):

Apr 10-Aug 31: 0% day, 60% night spring - 30% 24hr/day summer.

Sept 1-Nov 31: Bay 2 only, 1.5 KCFS daylight hours only (attraction water for north fishway)

Dec 1-Dec 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 (Dec 4) – Annual inspection and maintenance. Twenty-nine juvenile steelhead released to tailwater. One lamprey given to Nez Perce tribe for restocking efforts.

Collection channel (Dec 6) – Annual inspection and maintenance dewatering. Forty-seven juvenile steelhead, 20 catfish, 2 walleye and 5 suckers released to tailwater. Two lamprey given to Nez Perce tribe for restocking efforts.

South entrance (SE1) pool - Three adult steelhead, 102 juvenile steelhead and 28 catfish released to tailwater. Eight previously dead juvenile steelhead removed.

Smolt Monitor Facility (9/15) – Dewatered for winter. Fifty adult Chinook, 12 adult steelhead, 2 sturgeon 12 catfish, 12 lamprey and about 300 shad pushed to tailwater via fish evacuation pipe. Twelve lamprey were given to Umatilla tribe for restocking efforts.

Fishway Dives

South collection channel ROV (Aug 10) – Annual mid season inspection. No problems found.

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 6 (Feb 23) – Routine maintenance. No fish in scroll case or draft tube.

Main turbine unit 7 (Apr 3) – Routine maintenance. No fish in scroll case. One sturgeon in draft tube released to river.

FISHWAY INSPECTION COMPARISON

Two 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 red. Values are rounded to the nearest whole percent.

FISHWAY INSPECTION RESULTS

<u>Criteria Item</u>	<u>2007</u>	<u>2006</u>	<u>2005</u>	<u>2004</u>
South Fishway				
Exit differential	0	0	0	
<i>Count station differential</i>	0	0	0	
<i>Weir crest depth</i>	0	1	0	
SE1 differential	0	1	1	0
SE1 entrance depth	4	1	4	4
<i>Collection channel velocity</i>	30	14	23	26
NE1/NE2 differential	1	1	3	0
NE1 entrance depth	2	4	3	0
NE2 entrance depth	1	3	5	2
North Fishway				
Exit differential	1	1	0	0
<i>Count station differential</i>	0	0	0	1
<i>Weir crest depth</i>	0	0	0	6
EW1/EW2 differential	3	4	6	0
EW1 entrance depth	8	2	7	4
EW2 entrance depth	0	2	1	closed
<i>JBS Conduit differential</i>	2	1	1	1
<i>Spill Pattern</i>	1	0	0	0
Turbine operation priority	3	37	0	6
<i>Turbine 1% operation</i>	0	0	0	0

Discussion

Poor collection channel velocity continues. Correction cannot be obtained by adjustment. Surface float measurements were used more towards the end of the season. EW1 weir had periodic automation problems throughout the year. Automation upgrades may improve criteria operation.

TABLE 43

MONTHLY TOTALS OF SALMONIDS, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER JOHN DAY DAM

2007

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*
CHINOOK*			3	13,080	40,896	30,282	19,378	12,140	81,091	17,462	1,256	288	215,876
STEELHEAD	400		3,584	1,592	641	2,450	16,497	43,710	119,499	42,809	5,509	826	237,517
SOCKEYE					6	16,083	7,994	141	53				24,277
COHO*						1	1	248	21,179	17,799	193		39,421
CHUM													0
PINK													0
TOTAL			3,587	14,672	41,543	48,816	43,870	56,239	221,822	78,070	6,958	1,114	517,091
LAMPREY				4	64	112	3,604	1,563	377	20			5,744
STURGEON							25	28	13	4			70
BULL TROUT													0

*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.

TABLE 44
DISCHARGE AND WATER QUALITY DATA
JOHN DAY PROJECT 2007
JANUARY

DATE	DISCH	SPILL	*TURBIDITY	
	KCFS	KCFS	SECCHI	*DEG F
Jan 1	115.5	0.0		
Jan 2	114.8	0.0		
Jan 3	115.9	0.0		
Jan 4	142.2	0.0		
Jan 5	162.6	0.0		
Jan 6	141.9	0.0		
Jan 7	150.9	0.0		
Jan 8	143.9	0.0		
Jan 9	128.6	0.0		
Jan 10	160.1	0.0		
Jan 11	151.1	0.0		
Jan 12	199.7	0.0		
Jan 13	172.9	0.0		
Jan 14	185.6	0.0		
Jan 15	198.7	0.0		
Jan 16	184.3	0.0		
Jan 17	169.3	0.0		
Jan 18	197.7	0.0		
Jan 19	171.1	0.0		
Jan 20	162.2	0.0		
Jan 21	144.6	0.0		
Jan 22	170.0	0.0		
Jan 23	168.7	0.0		
Jan 24	171.4	0.0		
Jan 25	174.7	0.0		
Jan 26	184.1	0.0		
Jan 27	170.8	0.0		
Jan 28	144.8	0.0		
Jan 29	180.7	0.0		
Jan 30	150.3	0.0		
Jan 31	160.5	0.0		

AVG.

161.0	0.0
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*Data unavailable

TABLE 45

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

JOHN DAY PROJECT
FEBRUARY 2007

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI	DEG F
Feb 1												163.1	0.0		
Feb 2												146.5	0.0		
Feb 3												154.2	0.0		
Feb 4												112.6	0.0		
Feb 5												137.0	0.0		
Feb 6												136.4	0.0		
Feb 7												138.3	0.0		
Feb 8												138.9	0.0		
Feb 9												128.0	0.0		
Feb 10												149.6	0.0		
Feb 11												134.6	0.0		
Feb 12												132.0	0.0		
Feb 13												137.2	0.0		
Feb 14												166.9	0.0		
Feb 15												142.2	0.0		
Feb 16												134.2	0.0		
Feb 17												131.6	0.0		
Feb 18												118.2	0.0		
Feb 19												141.5	0.0		
Feb 20												140.1	0.0		
Feb 21								47	9			136.9	0.0		
Feb 22								54	10			113.0	0.0		
Feb 23								57	6			112.9	0.0		
Feb 24								48	3			125.2	0.0		
Feb 25								46	8			118.1	0.0		
Feb 26								26	6			116.8	0.0		
Feb 27								40	5			134.9	0.0		
Feb 28								82	7			116.7	0.0		
TOTAL								400	54						
AVG.								50	7			134.2	0.0		

*Data unavailable

Note: From February 21 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
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JOHN DAY PROJECT
MARCH 2007

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL											SECCHI	DEG F	
Mar 1	0			0				67	11			155.6	0.0	*	*	
Mar 2	0			0				60	20			160.1	0.0	*	*	
Mar 3	0			0				138	40			154.9	0.0	*	*	
Mar 4	0			0				173	69			124.0	0.0	*	*	
Mar 5	0			0				93	28			129.0	0.0	*	*	
Mar 6	0			0				105	36			130.1	0.0	*	*	
Mar 7	0			0				70	27			132.0	0.0	*	*	
Mar 8	0			0				82	25			146.5	0.0	*	*	
Mar 9	0			0				103	42			163.3	0.0	*	*	
Mar 10	0			0				98	33			148.8	0.0	*	*	
Mar 11	0			0				133	48			105.6	0.0	*	*	
Mar 12	0			0				85	23			142.4	0.0	*	*	
Mar 13	0			1				124	41			163.1	0.0	*	*	
Mar 14	0			0				63	22			192.1	0.0	*	*	
Mar 15	0			0				66	22			209.3	0.0	*	*	
Mar 16	0			0				121	50			205.2	0.0	*	*	
Mar 17	0			0				114	39			207.9	0.0	*	*	
Mar 18	0			0				180	63			181.3	0.0	6.0	43.0	
Mar 19	0			0				137	25			193.5	3.1	6.0	45.0	
Mar 20	0			0				146	38			225.9	31.7	6.0	45.0	
Mar 21	0			0				160	36			263.3	61.2	4.5	46.0	
Mar 22	0			0				107	31			237.3	28.6	6.0	45.0	
Mar 23	0			0				85	28			200.3	2.7	4.0	45.0	
Mar 24	0			0				123	39			236.1	11.6	3.0	46.0	
Mar 25	0			0				105	41			225.4	2.7	3.5	46.0	
Mar 26	0			0				171	65			272.3	61.0	5.0	46.0	
Mar 27	0			0				178	47			215.1	17.1	5.0	46.0	
Mar 28	0			0				129	48			218.4	15.4	5.5	46.0	
Mar 29	0			0				107	36			256.6	48.5	6.0	45.0	
Mar 30	1			0				115	41			273.4	55.1	6.0	45.0	
Mar 31	1			0				146	58			281.9	62.0	5.5	45.0	
TOTAL	2			1				3,584	1,172							
AVG.	0			0				116	38			192.0	12.9	5.1	45.3	

*Data unavailable

Note: From February 21 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. 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 2007

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	WILD			LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL					STEELHEAD	STEELHEAD	STEELHEAD					SECCHI	DEG F
Apr 1	1			0				165	48	0		274.1	53.2	5.5	45.0	
Apr 2	0			0				123	44	1		225.1	4.7	4.0	45.0	
Apr 3	5			0				172	48	0		277.0	61.1	4.0	45.0	
Apr 4	8			0				90	42	0		238.8	31.4	4.5	46.0	
Apr 5	2			0				122	32	0		250.5	35.0	5.0	46.0	
Apr 6	6			0				55	7	0		227.4	11.7	6.0	45.0	
Apr 7	3			0				75	31	0		211.4	0.0	4.5	47.0	
Apr 8	1			0				69	27	0		198.9	0.0	4.0	46.0	
Apr 9	1			0				102	53	0		190.8	0.0	4.0	47.0	
Apr 10	8			0				57	33	0		212.9	47.3	5.0	47.0	
Apr 11	12			0				112	68	0		233.8	47.0	5.0	47.0	
Apr 12	22			0				60	25	0		193.9	46.8	6.0	48.0	
Apr 13	12			0				81	48	0		246.2	50.7	6.0	49.0	
Apr 14	50			5				39	13	1		214.7	49.8	5.5	49.0	
Apr 15	81			1				49	24	0		229.6	54.5	5.5	48.0	
Apr 16	138			4				26	20	0		219.9	60.4	5.5	48.0	
Apr 17	230			0				26	10	0		224.0	71.0	5.0	49.0	
Apr 18	172			1				26	11	0		215.8	63.3	5.5	49.0	
Apr 19	332			4				17	19	0		217.0	63.3	6.0	49.0	
Apr 20	593			2				8	3	0		220.6	71.1	4.0	49.0	
Apr 21	831			3				3	-11	0		217.3	65.3	4.5	50.0	
Apr 22	1,054			8				29	18	0		215.8	63.9	5.0	52.0	
Apr 23	694			4				12	12	0		219.8	63.9	5.0	51.0	
Apr 24	728			21				22	12	0		198.2	55.2	5.0	51.0	
Apr 25	700			19				13	14	0		206.1	59.9	5.0	50.0	
Apr 26	1,413			66				10	8	0		222.5	60.9	5.0	49.0	
Apr 27	1,000			62				10	2	0		229.2	60.4	4.5	50.0	
Apr 28	1,451			65				-1	-1	0		222.8	60.5	4.5	50.0	
Apr 29	1,656			131				6	0	1		227.4	59.5	5.0	53.0	
Apr 30	1,373			107				14	5	1		227.3	62.6	5.0	53.0	
TOTAL	12,577			503				1,592	665	4						
AVG.	419			17				53	22	0		223.6	47.8	5.0	48.4	

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 2007

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	WILD			LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL				SOCKEYE	STEELHEAD	STEELHEAD					SECCHI	DEG F
May 1	1,354			124			0	18	2	0		247.9	64.5	4.5	52.0
May 2	2,200			186			0	18	9	0		256.0	64.6	5.0	53.0
May 3	1,468			225			0	2	-4	0		269.4	67.4	5.0	54.0
May 4	1,493			258			0	52	37	0		278.9	71.1	4.5	54.0
May 5	1,795			421			0	6	2	0		276.7	70.6	5.0	53.0
May 6	1,211			436			0	2	0	-1		276.8	70.6	4.0	53.0
May 7	1,087			436			0	1	1	2		243.7	63.3	5.0	54.0
May 8	993			424			0	3	5	0		250.6	67.2	5.5	53.0
May 9	971			564			0	3	-2	6		278.1	69.4	5.0	54.0
May 10	1,385			661			0	55	18	0		273.1	71.4	5.5	55.0
May 11	2,257			926			0	1	-4	2		278.0	72.9	5.0	55.0
May 12	1,352			649			0	1	0	4		259.6	72.1	5.0	55.0
May 13	1,095			540			0	5	1	0		259.0	68.8	5.0	55.0
May 14	900			595			0	-3	-2	4		283.3	73.8	5.0	55.0
May 15	788			731			0	11	2	7		278.7	67.0	5.0	55.0
May 16	524			463			0	14	7	1		244.6	65.5	5.0	56.0
May 17	662			665			0	24	4	14		265.1	67.2	5.0	56.0
May 18	694			630			0	21	16	12		252.8	59.9	4.0	56.0
May 19	633			559			0	211	41	1		258.3	63.9	4.0	57.0
May 20	572			316			0	13	5	4		264.9	66.7	5.0	56.0
May 21	509			307			0	30	6	1		262.1	61.1	5.5	56.0
May 22	474			262			0	-3	-2	2		261.0	66.9	5.5	56.0
May 23	579			233			0	-5	-5	6		255.9	63.8	5.0	57.0
May 24	350			190			0	36	8	0		254.1	58.8	5.0	57.0
May 25	599			336			2	10	0	-1		251.9	70.4	5.0	57.0
May 26	278			203			0	2	1	0		244.0	64.0	5.0	58.0
May 27	456			268			2	5	-1	2		218.5	61.1	5.0	57.0
May 28	410			273			0	7	-1	2		254.7	67.4	5.0	57.0
May 29	551			240			1	8	-2	0		227.3	62.5	6.0	59.0
May 30	433			144			1	42	11	-4		233.1	60.9	6.0	58.0
May 31	416			142			0	51	7	0		238.7	61.9	4.0	60.0
TOTAL	28,489			12,407			6	641	160	64					
AVG.	919			400			0	21	5	2		258.0	66.3	5.0	55.6
RUN YEAR															
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK					WILD STEELHEAD	WILD STEELHEAD	LAMPREY					
SPRING		41,066	12,910					2,233	825	68					

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 2007

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Jun 1	404			140	0		1	41	2	2		228.0	51.3	5.0	60.0
Jun 2	422			95	0		16	9	2	4		209.0	56.9	5.0	62.0
Jun 3	349			125	0		24	15	-1	4		221.6	55.1	5.0	62.0
Jun 4	565			196	0		13	15	1	4		222.8	48.2	5.5	61.0
Jun 5	573			197	1		32	31	6	7		219.2	51.7	6.0	60.0
Jun 6		626		201	0		25	19	3	0		246.3	61.2	5.5	61.0
Jun 7		701		140	0		35	29	0	1		218.4	59.8	6.0	60.0
Jun 8		566		115	0		39	42	7	2		257.1	67.0	6.0	61.0
Jun 9		575		100	0		44	20	1	5		275.2	70.5	5.5	61.0
Jun 10		942		192	0		115	31	0	3		229.7	59.5	6.0	60.0
Jun 11		564		158	0		118	15	2	2		245.2	58.4	5.5	60.0
Jun 12		666		108	0		160	44	19	-1		233.4	56.6	5.0	60.0
Jun 13		756		132	0		210	28	1	2		243.3	64.1	5.0	61.0
Jun 14		635		177	0		322	69	1	2		238.1	66.4	4.5	60.0
Jun 15		923		216	0		367	93	4	2		224.2	53.1	4.0	61.0
Jun 16		907		256	0		472	72	12	1		214.2	49.8	4.0	61.0
Jun 17		1,252		313	0		679	135	22	6		180.0	51.8	4.5	60.0
Jun 18		768		293	0		579	66	4	3		222.3	57.1	4.5	61.0
Jun 19		768		161	0		635	64	8	2		219.5	55.9	4.5	62.0
Jun 20		847		200	0		871	128	26	8		188.6	48.9	5.0	62.0
Jun 21		758		289	0		808	107	19	2		177.7	45.5	5.0	61.0
Jun 22		1,339		203	0		1,483	109	18	2		192.2	44.6	4.0	61.0
Jun 23		1,141		286	0		1,243	114	11	3		196.5	48.5	3.5	60.0
Jun 24		1,500		208	0		1,479	129	14	3		161.2	41.6	5.0	61.0
Jun 25		987		206	0		1,305	82	12	1		192.7	48.2	4.5	62.0
Jun 26		1,345		378	0		1,438	136	33	5		189.4	48.4	5.5	64.0
Jun 27		839		274	0		993	175	39	11		165.3	43.9	4.5	64.0
Jun 28		509		400	0		875	216	82	13		163.9	42.9	4.5	64.0
Jun 29		851		201	0		976	206	64	13		169.9	40.0	3.5	64.0
Jun 30		915		329	0		726	210	64	0		182.0	42.7	3.0	64.0
TOTAL	2,313	21,680		6,289	1		16,083	2,450	476	112					
AVG.	463	867		210	0		536	82	16	4		210.9	53.0	4.8	61.4

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	43,379	13,663
SUMMER	21,680	5,536
TOTAL	65,059	19,199

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
16,089	4,683	1,301	180

TABLE 50

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

JOHN DAY PROJECT
JULY 2007

DATE	FISH COUNTS					RIVER CONDITIONS									
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Jul 1		307		211	0		644	169	66	6	0	143.8	43.8	5.0	66.0
Jul 2		576		267	0		912	372	90	12	0	135.7	41.2	5.5	65.0
Jul 3		1,017		180	0		936	332	91	16	0	168.9	50.4	5.0	68.0
Jul 4		411		133	0		576	332	70	15	0	148.9	44.3	5.0	68.0
Jul 5		517		163	0		638	308	69	29	0	162.3	48.7	5.0	65.0
Jul 6		1,264		394	0		630	499	209	40	0	184.1	55.3	4.5	67.0
Jul 7		452		346	0		445	470	140	26	0	147.4	44.2	3.5	65.0
Jul 8		975		366	0		417	551	211	84	0	157.7	47.1	5.0	67.0
Jul 9		590		283	0		326	585	216	123	0	181.7	54.5	5.0	67.0
Jul 10		254		107	0		268	251	116	91	1	166.0	49.7	5.5	69.0
Jul 11		694		299	0		323	580	205	95	2	178.1	54.0	5.5	69.0
Jul 12		406		192	0		276	561	218	105	1	177.9	52.9	5.0	70.0
Jul 13		539		195	0		243	490	168	144	1	203.3	61.0	3.5	71.0
Jul 14		393		118	0		152	445	209	230	0	204.3	61.4	3.5	69.0
Jul 15		421		205	0		168	738	286	166	1	189.8	57.1	3.5	70.0
Jul 16		473		174	0		137	540	197	181	1	206.1	61.8	4.5	71.0
Jul 17		363		175	0		153	771	346	165	4	160.5	48.4	5.0	70.0
Jul 18		158		102	0		120	399	172	170	2	169.2	50.1	5.0	70.0
Jul 19		243		162	0		86	444	168	217	1	164.7	49.4	5.0	70.0
Jul 20		442		139	0		109	573	235	145	0	153.6	46.2	5.0	70.0
Jul 21		262		118	0		51	369	125	132	1	166.3	49.9	5.0	71.0
Jul 22		290		92	0		64	593	265	117	2	173.8	51.8	5.0	71.0
Jul 23		484		158	0		36	561	216	208	0	160.3	48.1	5.0	70.0
Jul 24		219		178	0		46	511	181	125	1	163.8	49.2	4.5	70.0
Jul 25		331		118	1		17	980	386	130	1	151.1	45.3	5.5	70.0
Jul 26		282		167	0		50	656	228	80	1	168.2	50.9	4.5	71.0
Jul 27		492		122	0		40	821	397	130	1	179.8	54.1	5.0	71.0
Jul 28		244		210	0		21	600	220	126	0	162.5	48.6	4.0	70.0
Jul 29		227		113	0		23	718	249	144	0	140.0	42.4	4.5	71.0
Jul 30		176		173	0		42	695	275	106	2	174.5	51.9	4.5	71.0
Jul 31		121		95	0		45	583	245	246	2	154.1	47.2	5.5	72.0
TOTAL		13,623		5,755	1		7,994	16,497	6,269	3,604	25				
AVG		439		186	0		258	532	202	116	1	167.7	50.4	4.8	69.2
RUN YEAR															
TOTALS TO DATE															
SPRING		43,379		13,663			24,083	21,180	7,570	3,784	25				
SUMMER		35,303		11,291											
TOTAL		78,682		24,954											

TABLE 51

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

JOHN DAY PROJECT
AUGUST 2007

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Aug 1		360		134	0	0	20	734	260	62	1	174.8	52.1	6.0	73.0
Aug 2		162		52	0	0	2	469	182	68	1	187.5	56.2	5.5	71.0
Aug 3		179		66	0	1	9	770	259	54	1	144.1	43.4	5.5	70.0
Aug 4		102		57	0	0	1	523	166	54	1	136.8	41.1	6.0	70.0
Aug 5		85		117	-1	0	14	615	208	54	0	136.9	41.2	4.5	71.0
Aug 6			208	66	1	0	12	815	264	72	0	125.1	37.6	5.0	70.0
Aug 7			146	132	1	0	12	986	344	82	0	135.9	40.6	4.5	71.0
Aug 8			130	45	-1	0	8	824	325	58	3	145.4	43.6	4.5	70.0
Aug 9			95	53	0	0	15	1,351	497	84	3	147.4	44.5	6.0	70.0
Aug 10			225	74	0	0	9	1,087	306	59	0	167.2	49.9	4.5	70.0
Aug 11			92	70	0	0	3	796	266	83	1	140.7	42.2	4.5	69.0
Aug 12			108	49	0	0	5	1,017	362	39	1	132.4	39.5	5.0	70.0
Aug 13			68	36	0	0	2	759	249	49	0	158.2	47.1	5.0	70.0
Aug 14			136	23	0	0	1	1,207	337	75	2	158.3	47.7	5.5	71.0
Aug 15			131	42	0	0	0	1,040	333	80	1	150.8	45.1	5.5	70.0
Aug 16			524	122	1	0	5	1,784	534	57	1	152.1	45.5	5.0	70.0
Aug 17			123	62	1	1	0	1,865	623	64	1	124.3	37.2	4.5	70.0
Aug 18			463	59	7	0	-1	2,029	587	38	2	119.2	36.1	4.5	71.0
Aug 19			370	54	2	0	1	1,728	498	45	0	113.7	34.2	5.5	71.0
Aug 20			322	46	1	0	1	1,781	500	4	1	121.0	36.1	6.0	70.0
Aug 21			174	26	0	0	0	1,267	412	26	0	114.0	34.3	6.0	70.0
Aug 22			177	74	1	0	3	1,500	367	54	1	146.8	44.1	6.0	70.0
Aug 23			225	51	0	-1	0	1,437	378	42	2	137.4	41.0	5.0	70.0
Aug 24			281	67	1	0	1	2,472	570	33	0	124.8	37.7	5.0	70.0
Aug 25			780	105	18	0	0	2,203	505	58	0	107.6	32.3	5.0	70.0
Aug 26			774	110	21	7	-1	3,096	810	44	0	112.5	33.9	5.5	71.0
Aug 27			184	30	17	1	2	1,523	293	14	1	115.1	34.5	5.0	71.0
Aug 28			547	109	31	14	0	2,016	426	24	1	126.8	38.7	5.0	71.0
Aug 29			744	157	19	5	2	1,696	465	25	0	139.0	41.8	5.0	71.0
Aug 30			650	115	57	13	5	1,538	440	31	2	142.7	42.8	5.0	72.0
Aug 31			1,141	231	23	7	10	2,782	680	31	1	141.0	42.5	5.5	70.0
TOTAL		888	8,818	2,434	200	48	141	43,710	12,446	1,563	28				
AVG.		178	339	79	6	2	5	1,410	401	50	1	138.0	41.4	5.2	70.5
RUN YEAR															
TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	STURGEON						
SPRING	43,379	13,663													
SUMMER	36,191	11,717													
FALL	8,818	2,008													
TOTAL	88,388	27,388													

TABLE 52

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

JOHN DAY PROJECT
SEPTEMBER 2007

FISH COUNTS											RIVER CONDITIONS				
DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Sep 1			1,972	340	106	45	3	3,703	853	24	0	114.0	0.9	5.0	71.0
Sep 2			1,871	660	209	117	2	3,371	829	12	1	91.0	0.9	5.0	71.0
Sep 3			1,470	310	111	53	1	1,797	378	12	-1	93.1	0.9	5.5	70.0
Sep 4			1,451	567	207	54	1	1,933	436	17	4	90.7	1.0	6.0	71.0
Sep 5			425	272	78	29	0	794	154	19	0	106.2	0.9	6.5	71.0
Sep 6			1,075	677	140	62	0	882	222	15	0	108.5	1.1	6.0	71.0
Sep 7			1,351	705	117	44	4	866	217	24	2	79.8	0.9	6.0	70.0
Sep 8			1,032	645	212	75	7	1,258	282	3	0	75.5	0.9	6.0	70.0
Sep 9			1,277	733	142	47	6	2,619	679	12	0	63.2	0.8	6.0	70.0
Sep 10			1,842	1129	322	122	4	3,986	912	48	0	79.1	0.9	5.5	70.0
Sep 11			3,084	1247	566	107	5	2,857	757	8	0	90.8	0.8	6.0	70.0
Sep 12			2,026	1440	286	152	0	3,930	844	28	0	88.5	0.8	6.0	70.0
Sep 13			2,014	1046	530	118	0	2,932	834	12	2	85.0	0.8	4.5	71.0
Sep 14			841	689	347	114	1	4,928	1,099	17	0	88.8	0.8	6.0	70.0
Sep 15			2,859	1448	874	278	2	7,273	1,694	5	0	80.4	0.8	5.5	70.0
Sep 16			1,833	679	857	132	1	6,303	1,612	11	0	65.3	0.7	5.0	68.0
Sep 17			2,132	981	1,006	168	-1	7,898	1,733	28	2	77.4	0.8	5.5	70.0
Sep 18			1,233	545	619	118	2	5,149	1,147	30	1	78.0	0.7	6.0	69.0
Sep 19			1,265	659	494	69	8	4,464	1,148	6	0	82.1	0.9	6.0	69.0
Sep 20			1,249	409	432	52	2	3,167	630	13	0	89.2	0.9	6.0	69.0
Sep 21			1,521	749	519	122	0	4,332	1,063	16	0	85.1	0.8	6.0	69.0
Sep 22			2,710	1110	586	166	0	6,085	1,231	9	0	69.1	0.8	6.0	69.0
Sep 23			4,254	2162	1,369	385	0	7,164	1,652	3	0	56.2	0.9	4.5	67.0
Sep 24			2,840	2442	931	400	0	5,780	1,269	6	0	66.5	0.8	6.0	67.0
Sep 25			3,103	2618	1,793	583	0	7,021	1,609	0	0	84.0	0.7	6.0	68.0
Sep 26			2,028	1079	1,462	372	0	5,548	1,267	-5	0	88.4	0.7	5.5	67.0
Sep 27			1,436	858	939	263	0	3,761	875	5	0	77.0	0.7	5.5	68.0
Sep 28			1,410	882	709	115	6	3,796	1,024	-5	2	62.8	0.8	6.0	66.0
Sep 29			901	936	609	93	-1	3,918	965	3	0	63.9	0.7	5.5	65.0
Sep 30			305	264	139	13	0	1,984	485	1	0	60.2	0.8	6.0	63.0
TOTAL			52,810	28,281	16,711	4,468	53	119,499	27,900	377	13				
AVG.			1,760	943	557	149	2	3,983	930	13	0	81.3	0.8	5.7	69.0
RUN YEAR															
TOTALS TO DATE			CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	STURGEON				
SPRING			43,379	13,663			16,911	4,516	24,277	184,389	47,916	5,724	66		
SUMMER			36,191	11,717											
FALL			61,628	30,289											
TOTAL			141,198	55,669											

TABLE 53

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

JOHN DAY PROJECT
OCTOBER 2007

DATE	FISH COUNTS									RIVER CONDITIONS					
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Oct 1			931	581	539	62		3,134	799	9	1	70.6	0.7	5.5	64.0
Oct 2			828	602	844	118		2,501	663	1	0	89.4	0.7	6.0	64.0
Oct 3			1,113	528	1,465	209		4,554	1,157	2	0	77.5	0.7	6.0	64.0
Oct 4			487	268	1,612	215		2,550	767	2	0	98.9	0.7	6.0	64.0
Oct 5			593	272	1,692	125		2,219	534	1	0	89.0	0.7	5.5	64.0
Oct 6			519	222	2,015	180		2,775	712	-6	0	85.9	0.7	6.0	63.0
Oct 7			304	178	942	121		1,870	550	-2	0	63.5	0.8	5.5	63.0
Oct 8			540	285	638	76		1,549	371	1	0	79.5	0.9	6.0	62.0
Oct 9			287	250	328	58		1,329	421	2	0	96.9	0.8	6.0	62.0
Oct 10			364	129	184	41		922	213	-3	0	95.5	0.8	5.5	62.0
Oct 11			443	306	247	52		1,076	302	2	0	104.6	0.7	6.0	61.0
Oct 12			407	149	287	66		979	258	1	0	108.2	0.7	6.0	61.0
Oct 13			516	331	179	38		1,138	256	-1	0	89.7	0.8	6.0	61.0
Oct 14			623	214	293	9		914	268	1	1	78.2	0.8	6.0	59.0
Oct 15			483	227	189	25		1,173	289	4	0	78.8	0.7	5.5	59.0
Oct 16			359	95	166	15		845	211	2	0	87.3	0.7	6.0	60.0
Oct 17			227	159	79	6		863	232	2	0	81.7	0.8	6.0	60.0
Oct 18			275	109	136	14		699	215	1	0	120.1	0.8	6.0	61.0
Oct 19			370	114	251	12		881	294	1	2	76.1	0.7	6.0	61.0
Oct 20			413	136	648	33		1,236	418	1	0	80.7	0.7	6.0	61.0
Oct 21			391	111	1,563	67		2,236	824	0	0	92.9	0.6	6.0	59.0
Oct 22			215	70	927	95		2,286	885	-1	0	84.0	0.7	6.0	59.0
Oct 23			159	61	423	18		1,368	456	0	0	97.2	0.6	6.0	59.0
Oct 24			122	53	142	14		1,125	399	1	0	92.1	0.7	6.0	59.0
Oct 25			184	62	141	7		865	282	0	0	96.9	0.8	6.0	59.0
Oct 26			54	26	37	2		335	124	0	0	91.4	0.8	6.0	58.0
Oct 27			207	35	40	4		469	134	0	0	94.9	0.8	6.0	58.0
Oct 28			41	19	26	1		231	54	1	0	66.9	0.0	6.0	57.0
Oct 29			237	21	45	5		240	45	0	0	96.4	0.7	6.0	57.0
Oct 30			54	16	3	3		241	72	-1	0	90.0	0.8	6.0	57.0
Oct 31			69	18	25	2		206	54	-1	0	91.5	0.7	6.0	57.0
TOTAL			11,815	5,647	16,106	1,693		42,809	12,259	20	4				
AVG.			381	182	520	55		1,381	395	1	0	88.6	0.7	5.9	60.5

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	43,379	13,663
SUMMER	36,191	11,717
FALL	73,443	35,936
TOTAL	153,013	61,316

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	STURGEON
33,017	6,209	24,277	227,198	60,175	5,744	70

Note: Visual counts ended October 31.

TABLE 54

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

JOHN DAY PROJECT
NOVEMBER 2007

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Nov 1			61	17	20	0		166	55	15		92.5	0.0	6.0	57.0
Nov 2			73	27	15	0		164	26	2		91.6	0.6	6.0	57.0
Nov 3			36	17	11	0		155	38	0		89.5	0.7	6.0	56.0
Nov 4			50	26	16	1		145	43	0		68.6	0.6	5.0	56.0
Nov 5			37	13	21	0		106	45	-12		103.0	0.6	6.0	56.0
Nov 6			34	6	15	0		108	24	-1		105.7	0.6	5.5	55.0
Nov 7			33	21	10	0		165	46	3		96.6	0.8	6.0	55.0
Nov 8			42	16	1	0		193	29	0		75.5	0.6	5.5	54.0
Nov 9			41	12	2	0		182	17	0		75.6	0.8	6.0	55.0
Nov 10			28	12	7	1		81	19	-1		112.5	0.6	6.0	55.0
Nov 11			43	17	5	0		171	36	-1		114.2	0.6	6.0	55.0
Nov 12			31	10	10	0		130	24	0		117.4	0.7	6.0	55.0
Nov 13			32	6	8	0		123	37	0		117.2	0.7	5.5	54.0
Nov 14			29	6	3	0		91	13	0		115.1	0.6	5.5	54.0
Nov 15			25	6	10	0		177	29	0		115.2	0.7	6.0	53.0
Nov 16			47	17	3	0		202	28	0		121.8	0.6	6.0	53.0
Nov 17			38	11	4	2		134	21	-1		103.6	0.7	6.0	53.0
Nov 18			49	13	1	0		145	26	0		100.5	0.5	6.0	53.0
Nov 19			25	11	-1	0		441	149	0		97.4	0.6	6.0	52.0
Nov 20			22	0	5	0		698	254	0		92.4	0.6	6.0	52.0
Nov 21			16	1	5	0		516	156	0		122.8	0.7	6.0	52.0
Nov 22			3	1	3	0		321	93	0		102.3	0.6	6.0	51.0
Nov 23			8	3	4	0		144	55	0		115.1	0.6	6.0	51.0
Nov 24			34	9	7	0		224	37	0		116.6	0.6	6.0	51.0
Nov 25			17	4	1	1		99	15	4		108.0	0.6	6.0	48.0
Nov 26			33	4	1	0		103	35	0		122.5	0.7	6.0	49.0
Nov 27			32	5	0	1		98	21	0		121.1	0.6	6.0	49.0
Nov 28			20	2	0	0		104	17	0		113.9	0.6	6.0	49.0
Nov 29			15	4	0	0		59	10	0		123.2	0.0	6.0	49.0
Nov 30			3	2	0	0		64	16	1		128.4	0.6	6.0	49.0
TOTAL			957	299	187	6		5,509	1,414	9					

AVG.			32	10	6	0		184	47	0		106.0	0.6	5.9	52.9
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RUN YEAR	CHINOOK		COHO		WILD				
	ADULT	JACK	ADULT	JACK	SOCKEYE	STEELHEAD	STEELHEAD	LAMPREY	STURGEON
TOTALS TO DATE									
SPRING	43,379	13,663	33,017	6,209	24,277	227,198	60,175	5,744	70
SUMMER	36,191	11,717							
FALL	73,443	35,936							
TOTAL	153,013	61,316							

Note: From November 1 to December 7, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Video disruption occurred resulting in 2 hours of loss on 11/25, 3 hours of loss on 11/26, and 1 hour of loss on 11/27. 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 2007

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Dec 1			15	1				29	10			119.2	0.0	6.0	48.0
Dec 2			2	2				17	1			102.6	0.0	6.0	46.9
Dec 3			1	1				9	0			98.1	0.0	6.0	46.9
Dec 4			-1	-1				-1	0			99.5	0.0	6.0	46.9
Dec 5			29	0				137	41			126.5	0.0	5.5	46.9
Dec 6			21	2				88	25			116.1	0.0	5.5	46.9
Dec 7			183	33				547	161			99.4	0.0	5.5	46.0
Dec 8												112.3	0.0	5.5	46.0
Dec 9												131.2	0.0	5.5	46.0
Dec 10												135.3	0.0	6.0	46.0
Dec 11												159.7	0.0	6.0	46.0
Dec 12												122.3	0.0	6.0	45.0
Dec 13												110.5	0.0	6.0	45.0
Dec 14												146.3	0.0	5.0	45.0
Dec 15												122.4	0.0	6.0	45.0
Dec 16												99.9	0.0	6.0	44.1
Dec 17												105.5	0.0	6.0	44.1
Dec 18												116.8	0.0	6.0	44.1
Dec 19												103.5	0.0	6.0	44.1
Dec 20												113.8	0.0	6.0	44.1
Dec 21												135.1	0.0	6.0	44.1
Dec 22												125.5	0.0	6.0	44.1
Dec 23												139.6	0.0	5.5	42.0
Dec 24												110.7	0.0	6.0	42.0
Dec 25												123.2	0.0	5.0	42.0
Dec 26												102.2	0.0	6.0	43.0
Dec 27												161.7	0.0	6.0	43.0
Dec 28												161.4	0.0	6.0	43.0
Dec 29												136.2	0.0	6.0	42.0
Dec 30												104.7	0.0	6.0	42.0
Dec 31												108.0	0.0	6.0	41.0
TOTAL			250	38				826	238						
AVG.			36	5				118	34			120.9	0.0	5.8	44.6
RUN YEAR															
TOTALS TO DATE															
SPRING			43,379	13,663				33,017	6,209	24,277	227,198	60,175	5,744	70	
SUMMER			36,191	11,717											
FALL			73,443	35,936											
TOTAL			153,013	61,316											

Note: From November 1 to December 7, 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 56

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
JOHN DAY DAM
1968 - 2007**

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
2007	215,876	237,517	24,277	39,421	517,091
TOTALS	8,941,115	6,366,130	2,180,272	544,462	18,031,996
10-Year Average	326,543	263,848	54,115	29,425	673,933

*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 - 2007

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
2007			3	13,080	40,896	30,282	19,378	12,140	81,091	17,462	1,256	288	215,876	57,042	47,908	109,379	61,316
TOTAL				4,123	1,030,259	1,326,320	814,085	686,778	672,055	3,816,613	585,616	10,066	8,946,339	2,447,642	1,465,748	5,022,404	1,976,737
10-Year Average				43,561	47,584	39,936	26,732	22,245	125,862	20,092			327,066	95,241	64,274	166,496	41,553

*Jacks included

TABLE 58

**MONTHLY COUNT OF SOCKEYE SALMON
JOHN DAY DAM
1968 - 2007**

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
2007					6	16,083	7,994	141	53	0			24,277
TOTAL						83	982,781	1,180,784	15,947	607	69	1	2,180,272
10-Year Average						36,486	17,478	126	18				54,115

TABLE 59

**MONTHLY COUNT OF COHO SALMON
JOHN DAY DAM 1968 - 2007**

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
2007						1	1	248	21,179	17,799	193		39,421
TOTAL					2	1	98	11,016	365,917	159,323	8,231		544,650
10-Year Average								313	16,859	11,491			29,444

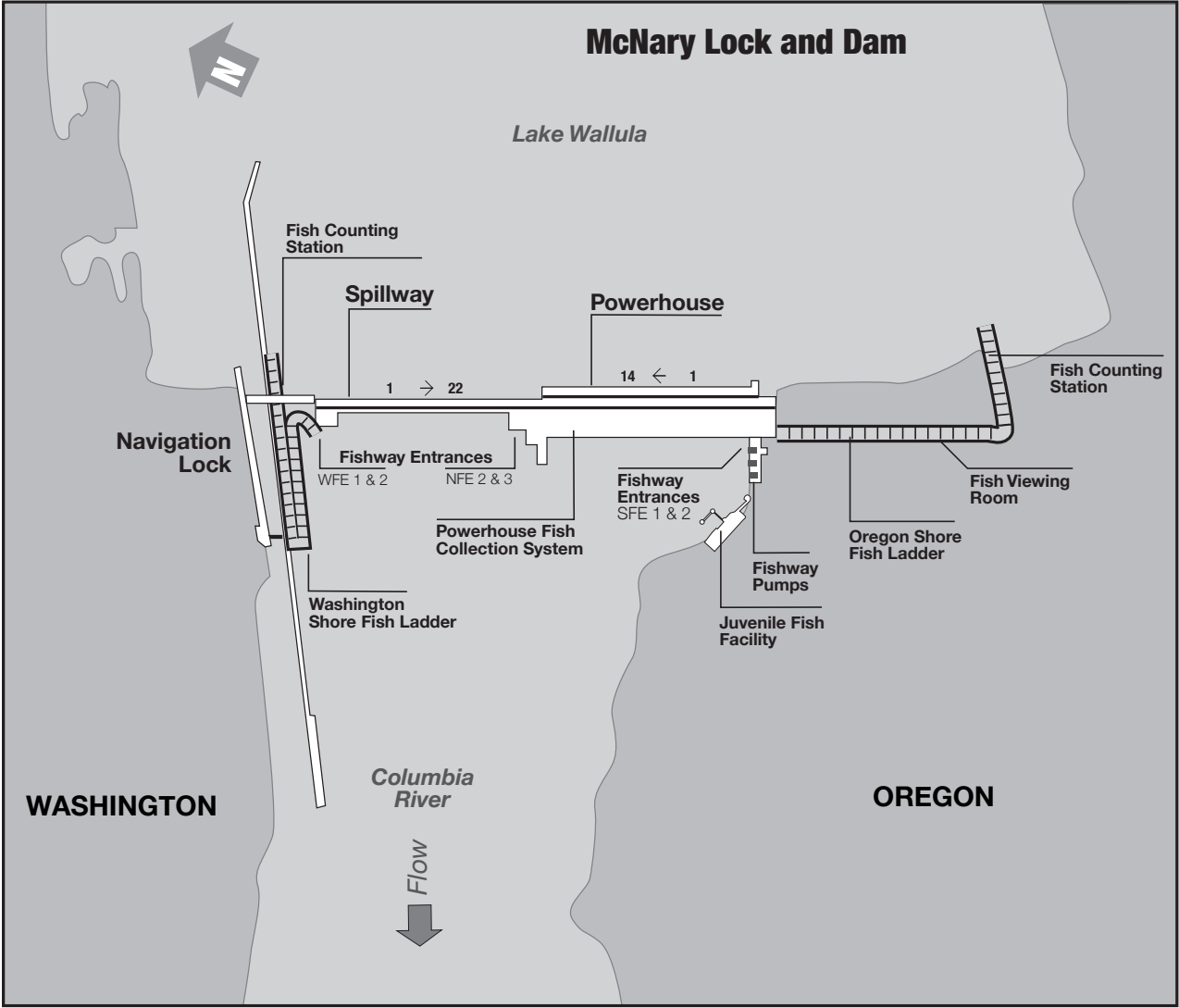
*Jacks included

TABLE 60

**MONTHLY COUNT OF STEELHEAD
JOHN DAY DAM 1968 - 2007**

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
2007		400	3,584	1,592	641	2,450	16,497	43,710	119,499	42,809	5,509	826	237,517
TOTAL			23,715	105,880	38,800	90,393	649,010	959,156	3,150,353	1,315,638	48,905		6,384,996
10-YR Average				2,626	629	4,602	25,071	34,364	133,881	58,705			265,735

Plate 5 McNary Lock and Dam



McNARY DAM

FISH COUNTING SCHEDULE

1 Jan – 28 Feb No Counting.

Washington Ladder Schedule

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

Oregon Ladder Schedule

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

FISH LADDER OPERATING SCHEDULE

Washington Ladder

1 Jan – 31 Dec Ladder in service.

Oregon Ladder

1 Jan – 4 Mar Ladder dewatered for annual maintenance
5 Mar - 31 Dec Ladder in service.

FISHWAY ACTIVITIES

Delay of the Oregon ladder waterup was due to a broken fish viewing window in the visitor building. Washington ladder was not serviced this year.

Pump #3 of the AWS system for the Oregon shore fishway, continued out of service all year, due to bearing failure. This caused significant damage to the guide bearings and pump shaft. Pump #1 and #2 operated from 5 March to 31 December 2007

The Juvenile bypass channel was operated for both juvenile and adult fallback passage, from 20 March to 27 December.

TABLE 61

MONTHLY TOTALS OF SALMONIDS, SHAD, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER McNARY DAM
2007

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*
CHINOOK*			3	7,073	38,622	27,760	18,036	8,565	60,291	18,455	1,538	92	180,435
STEELHEAD			6,155	1,693	241	1,616	13,232	32,652	109,015	50,339	4,805	1,786	221,534
SOCKEYE					1	11,087	6,974	105	6	2			18,175
COHO*								9	11,263	11,315	238		22,825
CHUM													0
PINK													0
TOTAL				8,766	38,864	40,463	38,242	41,331	180,575	80,111	6,581	1,878	442,969
SHAD					51,541	686,903	238,661	8,361	269	41			985,776
LAMPREY			1		3	40	1,195	1,735	471	9			3,454
STURGEON							1						1
BULL TROUT						1							1

*Jacks Included

TABLE 62

DISCHARGE AND WATER QUALITY DATA

MCNARY PROJECT 2007

JANUARY					FEBRUARY				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI	*TURBIDITY *DEG F	DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI	*TURBIDITY *DEG F
Jan 1	107.6	0.0			Feb 1	150.6	0.0		
Jan 2	117.9	0.0			Feb 2	142.8	0.0		
Jan 3	108.3	0.0			Feb 3	151.5	0.0		
Jan 4	142.6	0.0			Feb 4	105.2	0.0		
Jan 5	162.5	0.0			Feb 5	123.5	0.0		
Jan 6	142.2	0.0			Feb 6	125.2	0.0		
Jan 7	137.8	0.0			Feb 7	120.8	0.0		
Jan 8	143.3	0.0			Feb 8	146.3	0.0		
Jan 9	133.5	0.0			Feb 9	123.3	0.0		
Jan 10	146.2	0.0			Feb 10	142.3	0.0		
Jan 11	155.1	0.0			Feb 11	133.3	0.0		
Jan 12	201.7	0.0			Feb 12	131.6	0.0		
Jan 13	170.8	0.0			Feb 13	145.6	0.0		
Jan 14	184.1	0.0			Feb 14	158.7	0.0		
Jan 15	193.4	0.0			Feb 15	140.4	0.0		
Jan 16	175.0	0.0			Feb 16	125.3	0.0		
Jan 17	179.0	0.0			Feb 17	124.2	0.0		
Jan 18	181.3	0.0			Feb 18	115.8	0.0		
Jan 19	179.0	0.0			Feb 19	124.5	0.0		
Jan 20	157.8	0.0			Feb 20	129.4	0.0		
Jan 21	136.2	0.0			Feb 21	124.4	0.0		
Jan 22	168.2	0.0			Feb 22	107.4	0.0		
Jan 23	169.6	0.0			Feb 23	110.7	0.0		
Jan 24	167.8	0.0			Feb 24	119.9	0.0		
Jan 25	165.0	0.0			Feb 25	107.0	0.0		
Jan 26	173.3	0.0			Feb 26	112.5	0.0		
Jan 27	164.7	0.0			Feb 27	127.8	0.0		
Jan 28	138.4	0.0			Feb 28	117.1	0.0		
Jan 29	166.1	0.0							
Jan 30	165.2	0.0							
Jan 31	164.9	0.0							
AVG.	158.0	0.0			AVG.	128.1	0.0		

*Data unavailable.

TABLE 63

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

MCNARY PROJECT
MARCH 2007

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
	SPRING	SUMMER	FALL													
Mar 1	0							0	0				142.3	0.0	4.5	40.0
Mar 2	0							14	2				156.7	0.0	5.8	40.0
Mar 3	0							16	6				146.9	0.0	6.0	40.0
Mar 4	0							20	2				113.1	0.0	6.0	40.0
Mar 5	0							399	80				127.0	0.0	6.0	40.0
Mar 6	0							197	42				125.9	0.0	5.5	40.0
Mar 7	0							66	15				124.1	0.0	6.0	39.0
Mar 8	0							109	18				132.1	0.4	6.0	40.0
Mar 9	0							134	26				156.4	0.0	6.0	40.0
Mar 10	0							124	31				136.9	0.0	6.0	40.0
Mar 11	0							98	17				105.0	0.0	6.0	41.0
Mar 12	0							186	37				132.1	0.0	5.0	41.0
Mar 13	0							203	26				161.6	0.0	4.0	41.0
Mar 14	0							214	36				185.3	0.3	3.9	41.0
Mar 15	0							238	37				197.1	5.8	3.8	42.0
Mar 16	0							378	89				188.4	6.7	3.9	42.0
Mar 17	0							399	73				201.0	7.1	3.4	43.0
Mar 18	0							324	68				167.6	6.9	3.3	44.0
Mar 19	0							267	51				200.7	7.1	3.4	44.0
Mar 20	1							330	70				186.1	5.7	3.4	45.0
Mar 21	0							373	63				235.7	22.5	4.0	45.0
Mar 22	0							320	65				228.6	12.3	3.6	44.0
Mar 23	0							224	58				224.6	12.8	4.0	44.0
Mar 24	1							226	47				235.0	12.2	3.5	43.0
Mar 25	0							265	59				216.3	5.9	3.4	43.0
Mar 26	0							307	57				238.9	13.5	3.8	43.0
Mar 27	0							131	33				224.0	36.2	3.8	45.0
Mar 28	0							159	40				231.9	39.8	3.5	45.0
Mar 29	0							179	42				256.2	52.3	4.2	45.0
Mar 30	0							116	28				270.4	59.6	4.2	45.0
Mar 31	1							139	35				282.4	71.1	*	45.0
TOTAL	3							6,155	1,253							
AVG.	0							199	40				184.8	12.2	4.5	42.3

*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 2007

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
Apr 1	0			0				152	31		0		254.9	84.1	4.0	45.0
Apr 2	0			0				206	36		0		231.4	59.5	*	45.0
Apr 3	0			0				119	35		0		274.7	98.4	*	45.0
Apr 4	0			0				128	31		0		236.1	68.2	4.0	45.0
Apr 5	-1			0				82	26		0		245.9	75.8	5.0	45.0
Apr 6	0			0				101	27		0		235.9	60.5	5.0	45.0
Apr 7	4			1				85	24		0		193.0	25.8	5.6	45.0
Apr 8	0			0				80	24		0		194.3	26.7	5.2	46.0
Apr 9	0			0				83	21		0		189.7	33.1	5.0	46.0
Apr 10	2			0				111	36		0		221.5	89.1	5.0	46.0
Apr 11	2			0				47	24		0		219.5	88.3	5.1	46.0
Apr 12	1			0				33	15		0		216.1	86.1	5.2	46.0
Apr 13	1			0				55	22		1		223.5	89.1	4.4	47.0
Apr 14	6			1				48	20		0		234.7	93.8	5.2	47.0
Apr 15	-7			0				33	12		0		223.9	90.1	5.8	48.0
Apr 16	4			0				42	10		0		231.3	92.8	5.4	48.0
Apr 17	16			1				30	12		0		229.6	92.4	5.3	48.0
Apr 18	65			4				27	12		0		222.4	89.8	5.6	48.0
Apr 19	100			2				30	13		0		231.2	92.5	5.6	48.0
Apr 20	148			0				19	7		0		218.5	87.9	5.6	48.0
Apr 21	186			2				26	13		0		216.8	87.4	5.5	48.0
Apr 22	275			2				14	5		0		221.7	88.9	5.0	49.0
Apr 23	365			2				19	6		0		217.8	87.7	5.0	49.0
Apr 24	687			7				19	7		0		208.7	83.4	6.0	49.0
Apr 25	566			20				18	12		0		216.0	87.0	5.2	49.0
Apr 26	561			12				17	13		0		230.5	92.7	6.0	50.0
Apr 27	670			12				17	12		0		235.3	94.5	6.0	50.0
Apr 28	821			31				17	10		0		233.6	93.8	6.0	50.0
Apr 29	975			35				23	12		0		228.5	91.9	6.0	50.0
Apr 30	1,429			65				12	8		0		235.4	94.5	6.0	51.0
TOTAL	6,876			197				1,693	536		1					
AVG.	229			7				56	18		0		225.7	80.9	5.3	47.4

*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 2007

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL		SHAD	LAMPREY	STURGEON	RIVER CONDITIONS			
	SPRING	SUMMER	FALL					STEELHEAD	WILD STEELHEAD				DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
May 1	1,204			57			0	1	1	0	2		259.2	104.1	5.8	52.0
May 2	1,485			92			0	6	2	0	0		266.1	106.8	5.6	52.0
May 3	1,160			113			0	14	7	0	0		270.6	108.0	6.0	52.0
May 4	2,012			170			0	10	8	0	0		290.5	116.5	6.0	52.0
May 5	1,451			147			0	10	5	0	0		284.4	113.8	6.0	52.0
May 6	1,462			198			0	11	6	0	0		269.9	108.8	6.0	51.0
May 7	1,541			279			0	4	1	0	0		256.1	101.8	5.8	52.0
May 8	1,164			286			0	7	4	0	0		261.1	104.3	6.0	55.0
May 9	1,010			247			0	6	2	0	0		291.6	116.4	6.0	53.0
May 10	988			319			0	2	1	0	0		274.7	110.6	6.0	54.0
May 11	960			347			0	1	1	0	0		281.5	112.4	6.0	54.0
May 12	1,444			670			0	7	1	0	0		272.6	109.4	6.0	54.0
May 13	1,753			771			0	6	0	2	0		270.3	108.3	5.3	54.0
May 14	1,210			659			0	13	2	4	0		280.2	112.3	5.5	54.0
May 15	858			510			0	5	0	6	1		280.9	112.4	5.6	54.0
May 16	737			507			0	11	1	8	0		268.8	107.2	5.5	55.0
May 17	656			416			0	7	2	22	0		271.0	108.0	*	55.0
May 18	829			626			0	12	4	41	0		257.0	103.0	6.0	55.0
May 19	634			545			0	6	1	29	0		272.3	109.7	6.0	55.0
May 20	586			584			0	7	0	27	0		268.2	107.1	6.0	56.0
May 21	569			531			0	17	1	23	0		279.5	111.4	6.0	56.0
May 22	403			394			0	5	0	63	0		265.9	106.2	5.5	56.0
May 23	547			408			0	6	-1	172	0		264.4	105.7	6.0	55.0
May 24	506			306			0	6	2	206	0		263.6	105.2	6.0	55.0
May 25	402			332			0	6	0	1196	0		265.9	106.6	5.6	55.0
May 26	623			211			0	24	2	4508	0		255.7	102.1	6.0	57.0
May 27	511			234			0	4	1	4962	0		235.2	93.7	6.0	58.0
May 28	392			182			0	12	2	3587	0		252.9	101.1	6.0	58.0
May 29	179			178			0	6	0	11688	0		236.6	94.3	6.0	58.0
May 30	333			221			0	6	0	12052	0		244.8	97.7	6.0	57.0
May 31	311			162			1	3	1	12945	0		245.6	98.3	6.0	58.0
TOTAL	27,920			10,702			1	241	57	51,541	3					

AVG.	901			345			0	8	2	1,663	0	
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266.4	106.6	5.9	54.6
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*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	TOTAL		WILD	
	ADULT	JACK	SOCKEYE	STEELHEAD	STEELHEAD	SHAD LAMPREY
TOTALS TO DATE						
SPRING	34,796	10,899	1	1,934	593	51,541 4

TABLE 66

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

MCNARY PROJECT
 JUNE 2007
 RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL		WILD STEELHEAD	SHAD	LAMPREY	STURGEON	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL					STEELHEAD	WILD							SECCHI	DEG F
Jun 1	432			172			0	7	1	18,260	2		237.5	95.2	5.7	60.0	
Jun 2	402			185			2	18	0	16,078	0		235.3	94.1	5.4	60.0	
Jun 3	551			142			6	10	0	28,008	2		217.2	86.9	6.0	59.0	
Jun 4	489			165			8	21	2	24,047	8		239.4	95.7	6.0	60.0	
Jun 5	559			188			22	26	2	22,842	1		231.2	92.4	6.0	60.0	
Jun 6	470			151			24	19	1	11,759	0		252.7	100.9	5.0	60.0	
Jun 7	462			159			36	16	1	9,736	1		240.7	96.1	5.8	60.0	
Jun 8	691			191			20	19	1	14,197	1		260.3	106.7	5.5	59.0	
Jun 9		645		141			31	16	1	12,431	4		277.4	110.5	5.5	59.0	
Jun 10		572		146			36	24	3	17,215	0		244.9	98.1	5.0	60.0	
Jun 11		494		115			52	28	1	8,876	1		249.0	99.3	5.1	60.0	
Jun 12		617		141			60	41	1	25,329	1		245.6	98.8	5.0	60.0	
Jun 13		685		152			115	23	1	7,140	0		267.6	106.8	6.0	60.0	
Jun 14		719		168			183	101	2	22,560	2		234.7	94.2	6.0	60.0	
Jun 15		936		151			166	22	7	16,785	0		233.8	93.8	5.4	60.0	
Jun 16		734		184			267	36	1	27,869	1		247.2	99.0	5.8	60.0	
Jun 17		1,183		195			285	64	2	25,652	1		196.5	78.9	5.7	60.0	
Jun 18		698		164			299	55	1	30,810	0		221.9	88.8	5.9	60.0	
Jun 19		672		200			554	68	2	29,789	1		222.4	89.0	5.2	60.0	
Jun 20		797		195			441	84	7	34,933	1		206.6	82.8	5.3	60.0	
Jun 21		601		156			502	40	4	37,143	0		201.0	80.5	6.0	61.0	
Jun 22		803		161			550	70	6	22,989	1		200.2	109.6	6.0	61.0	
Jun 23		899		200			725	84	8	25,561	1		215.4	125.9	6.0	61.0	
Jun 24		1,389		223			951	113	11	27,079	1		183.3	82.7	6.0	62.0	
Jun 25		1,218		263			972	95	5	25,858	2		185.2	73.8	6.0	62.0	
Jun 26		1,020		251			1,046	80	12	16,796	0		196.9	106.5	6.0	63.0	
Jun 27		963		203			954	103	8	10,833	2		172.9	103.6	5.2	63.0	
Jun 28		915		247			1,092	102	6	59,372	1		186.0	83.5	5.5	66.0	
Jun 29		1,135		263			991	144	20	41,010	4		183.8	72.7	5.5	66.0	
Jun 30		552		185			697	87	9	15,946	1		185.7	104.1	5.2	66.0	
TOTAL	4,056	18,247		5,457			11,087	1,616	126	686,903	40						

AVG.	507	829		182			370	54	4	22,897	1		222.4	95.0	5.6	60.9
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*Data unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	38,852	12,252
SUMMER	18,247	4,104
TOTAL	57,099	16,356

	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
	11,088	3,550	719	738,444	44	0

Note: 1 Bull trout seen on the June 18.

TABLE 67

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

MCNARY PROJECT
JULY 2007

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
Jul 1		686		220			766	128	20	20,794	0	0	156.1	93.8	5.4	65.0
Jul 2		638		190			832	124	22	10,381	5	0	168.8	101.1	5.6	66.0
Jul 3		722		216			674	228	48	35,268	6	0	171.9	103.0	*	66.0
Jul 4		406		181			634	236	38	30,153	6	0	155.1	69.6	*	66.0
Jul 5		509		242			606	136	20	21,590	12	0	172.5	69.1	6.0	65.0
Jul 6		459		166			401	162	30	22,509	14	0	197.3	76.8	6.0	66.0
Jul 7		250		198			257	181	44	11,306	19	0	155.6	62.3	6.0	66.0
Jul 8		765		335			335	238	47	10,388	15	0	173.2	96.4	6.0	68.0
Jul 9		478		312			276	323	80	8,871	14	0	188.4	112.5	6.0	68.0
Jul 10		922		317			288	454	105	10,797	25	0	177.5	78.3	6.0	70.0
Jul 11		581		220			210	367	103	9,780	18	0	187.4	74.8	6.0	68.0
Jul 12		283		106			141	317	83	5,122	17	0	189.7	106.5	6.0	68.0
Jul 13		559		162			180	385	112	5,530	23	0	215.2	127.9	6.0	68.0
Jul 14		436		192			245	405	120	7,995	14	0	214.4	95.0	6.0	68.0
Jul 15		441		136			144	448	180	6,380	45	0	206.7	82.6	6.0	68.0
Jul 16		421		132			136	380	136	2,917	25	0	203.5	110.5	6.0	68.0
Jul 17		419		150			104	520	202	1,819	36	0	182.0	109.1	6.0	68.0
Jul 18		333		131			98	456	191	2,330	34	0	188.6	113.3	6.0	68.0
Jul 19		322		150			90	416	171	1,267	39	0	169.6	101.9	5.4	68.0
Jul 20		200		88			102	482	191	2,510	25	0	161.3	73.2	5.6	68.0
Jul 21		239		100			85	508	212	1,925	62	0	180.0	72.1	6.0	67.0
Jul 22		257		105			62	421	169	1,038	60	0	174.7	97.4	6.0	70.0
Jul 23		263		82			65	452	179	945	62	0	182.3	109.4	5.7	68.0
Jul 24		300		98			87	490	200	1,166	72	0	175.7	77.6	6.0	70.0
Jul 25		426		98			58	664	244	1,190	115	0	160.2	64.2	6.0	70.0
Jul 26		348		126			20	611	229	879	128	0	177.6	100.5	6.0	70.0
Jul 27		299		67			14	632	268	589	57	0	192.0	114.6	5.5	69.0
Jul 28		303		70			9	862	354	762	67	0	178.2	79.7	5.0	69.0
Jul 29		458		116			23	799	337	950	80	0	150.6	60.4	5.0	69.0
Jul 30		266		98			13	667	278	912	61	1	172.1	96.2	5.4	69.0
Jul 31		181		62			19	740	311	598	39	0	175.7	105.3	6.0	69.0
TOTAL		13,170		4,866			6,974	13,232	4,724	238,661	1,195	1				
AVG.		425		157			225	427	152	7,699	39	0	179.2	91.5	5.8	67.9

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	38,852	12,252
SUMMER	31,417	8,970
TOTAL	70,269	21,222

SOCKEYE	TOTAL		SHAD	LAMPREY	STURGEON
	STEELHEAD	WILD STEELHEAD			
18,062	16,782	5,443	977,105	1,239	1

TABLE 68

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

MCNARY PROJECT
AUGUST 2007

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		205		76	0	0	18	840	274	969	37		189.1	85.3	6.0	69.0
Aug 2		136		47	0	0	8	627	209	768	102		197.1	79.0	*	69.0
Aug 3		295		90	0	0	14	529	204	485	91		159.2	87.9	6.0	69.0
Aug 4		185		63	0	0	10	830	333	454	86		143.5	86.2	6.0	69.0
Aug 5		223		54	0	0	9	685	224	642	105		143.5	64.2	6.0	69.0
Aug 6		126		74	0	0	2	622	220	488	78		146.6	58.6	6.0	*
Aug 7		142		48	0	0	1	781	300	295	141		142.4	80.7	6.0	69.0
Aug 8		213		72	0	0	3	830	357	357	54		154.7	92.7	5.5	69.0
Aug 9			96	33	0	0	5	682	262	583	61		159.4	70.3	5.4	69.0
Aug 10			137	32	0	0	3	720	258	633	93		181.0	72.6	5.4	69.0
Aug 11			114	42	0	0	2	808	296	482	78		146.9	81.1	6.0	69.0
Aug 12			162	39	0	0	9	765	276	296	48		135.4	81.1	5.9	69.0
Aug 13			143	25	0	0	3	899	311	426	48		168.6	74.5	5.6	69.0
Aug 14			154	42	0	0	0	912	297	134	70		166.6	66.8	5.7	69.0
Aug 15			92	36	0	0	6	700	219	101	56		163.2	92.8	6.0	70.0
Aug 16			120	39	-1	0	0	755	236	170	32		162.5	97.7	6.0	70.0
Aug 17			144	31	0	0	0	1,015	355	243	28		128.4	58.9	6.0	70.0
Aug 18			408	69	0	0	0	1,017	325	171	57		130.6	52.3	6.0	70.0
Aug 19			213	49	0	0	1	1,377	393	103	47		139.8	77.6	6.0	70.0
Aug 20			248	51	0	0	1	1,376	426	88	22		117.5	60.5	6.0	69.0
Aug 21			278	19	1	0	5	1,520	484	119	54		119.8	48.1	6.0	70.0
Aug 22			334	43	0	0	1	1,480	437	66	35		149.2	59.6	5.5	70.0
Aug 23			237	32	1	0	1	1,368	385	68	32		139.1	77.9	6.0	70.0
Aug 24			88	22	0	0	0	1,284	352	35	32		144.9	87.0	6.0	68.0
Aug 25			108	23	0	0	2	1,176	312	28	48		119.9	55.0	6.0	68.0
Aug 26			280	80	1	0	1	1,243	308	27	41		117.0	46.8	6.0	68.0
Aug 27			602	99	0	0	0	1,955	503	39	59		116.7	46.2	5.5	69.0
Aug 28			626	76	0	0	0	1,740	434	24	28		132.4	52.5	6.0	69.0
Aug 29			292	47	1	1	1	1,512	348	32	36		140.3	56.1	6.0	69.0
Aug 30			229	55	2	0	0	1,356	351	20	32		139.9	79.1	6.0	69.0
Aug 31			360	67	4	-1	-1	1,248	330	15	4		177.3	105.2	6.0	69.0
TOTAL		1,525	5,465	1,575	9	0	105	32,652	10,019	8,361	1,735					

AVG.	191	238	51	0	0	3	1,053	323	270	56
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147.5	72.1	5.9	69.2
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*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	38,852	12,252
SUMMER	32,942	9,494
FALL	5,465	1,051
TOTAL	77,259	22,797

COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
9	0	18,167	49,434	15,462	985,466	2,974	1

TABLE 69

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

MCNARY PROJECT
SEPTEMBER 2007
RIVER CONDITIONS

FISH COUNTS

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			558	92	12	5	0	2,275	553	37	27		107.7	0.2	6.0	70.0
Sep 2			1,038	79	24	3	0	1,760	439	15	22		94.8	0.0	6.0	70.0
Sep 3			2,165	197	84	3	0	1,673	414	11	28		97.1	0.0	6.0	71.0
Sep 4			2,132	530	42	7	0	3,170	810	13	45		97.7	0.0	6.0	71.0
Sep 5			1,850	534	129	14	0	3,977	896	12	20		107.8	0.0	6.0	70.0
Sep 6			565	411	96	11	1	2,878	603	21	49		103.9	6.1	6.0	70.0
Sep 7			426	248	90	21	0	1,691	350	13	23		82.4	0.0	6.0	70.0
Sep 8			633	400	49	9	0	1,045	216	10	28		71.0	0.0	6.0	70.0
Sep 9			754	482	58	11	0	733	169	6	22		72.1	0.0	*	70.0
Sep 10			1,296	673	66	8	0	874	202	2	15		79.1	0.0	6.0	70.0
Sep 11			1,220	504	67	16	0	1,242	268	6	19		88.5	0.0	6.0	70.0
Sep 12			1,732	767	91	13	0	2,006	414	4	4		83.5	0.0	6.0	70.0
Sep 13			1,073	749	118	16	0	2,486	522	11	6		90.2	0.0	6.0	70.0
Sep 14			1,066	682	158	28	1	2,327	495	8	12		95.0	0.0	*	70.0
Sep 15			931	661	205	30	2	2,625	559	4	12		87.8	0.0	6.0	69.0
Sep 16			986	613	319	53	0	5,183	1,100	14	10		66.5	0.0	6.0	69.0
Sep 17			2,149	1,115	569	79	3	5,352	1,260	4	10		79.0	0.0	6.0	69.0
Sep 18			1,332	815	568	140	1	5,410	1,237	0	14		79.2	0.0	6.0	69.0
Sep 19			807	566	432	51	0	4,778	998	9	8		79.1	0.0	6.0	69.0
Sep 20			758	571	398	50	0	4,238	877	5	9		91.3	0.0	6.0	68.0
Sep 21			662	411	482	56	-1	4,155	792	6	14		89.6	0.0	6.0	68.0
Sep 22			703	571	387	48	0	5,367	1,137	0	9		69.0	0.0	6.0	66.0
Sep 23			1,442	697	595	74	0	5,697	1,164	2	9		60.3	0.0	6.0	66.0
Sep 24			2,562	1,386	601	63	-1	6,736	1,378	4	11		61.7	0.0	6.0	65.0
Sep 25			2,695	1,667	700	74	0	5,350	1,019	10	12		85.9	0.0	6.0	65.0
Sep 26			2,212	1,658	824	90	0	6,631	1,278	12	9		88.2	0.0	6.0	65.0
Sep 27			1,380	1,440	732	62	0	5,577	1,055	14	5		78.3	0.0	6.0	63.0
Sep 28			1,096	849	620	59	0	3,220	766	7	11		70.0	0.0	6.0	63.0
Sep 29			1,631	1,183	1,203	115	2	6,232	1,361	4	7		66.2	0.0	6.0	63.0
Sep 30			1,556	330	303	32	-2	4,327	973	5	1		62.5	0.0	6.0	*
TOTAL			39,410	20,881	10,022	1,241	6	109,015	23,305	269	471					

AVG.	1,314	696	334	41	0	3,634	777	9	16
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82.8	0.2	6.0	68.2
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*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	38,852	12,252
SUMMER	32,942	9,494
FALL	44,875	21,932
TOTAL	116,669	43,678

COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
10,031	1,241	18,173	158,449	38,767	985,466	3,445	1

TABLE 70

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

MCNARY PROJECT
OCTOBER 2007

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			470	347	350	49	0	1,786	389	2	4		67.8	0.0	6.0	63.0
Oct 2			738	589	444	48	1	3,271	733	3	5		98.1	0.0	6.0	63.0
Oct 3			853	612	434	60	-1	4,464	1,035	4	0		85.4	0.0	6.0	62.0
Oct 4			522	419	376	43	0	2,741	622	1	1		110.5	0.0	6.0	61.0
Oct 5			368	266	395	58	0	2,500	579	2	1		90.7	0.0	6.0	61.0
Oct 6			591	365	927	114	0	3,485	770	0	0		85.6	0.0	6.0	60.0
Oct 7			506	266	1,214	119	0	3,253	799	0	1		64.8	0.0	6.0	60.0
Oct 8			784	289	1,171	125	0	3,221	726	0	0		74.9	0.0	6.0	60.0
Oct 9			408	183	689	67	0	1,864	405	7	0		103.5	0.0	6.0	60.0
Oct 10			413	112	577	41	0	1,501	349	1	2		100.5	0.0	5.5	60.0
Oct 11			389	196	486	46	0	1,279	300	1	0		101.1	0.0	6.0	60.0
Oct 12			298	223	174	28	0	1,353	362	2	0		105.1	0.0	6.0	60.0
Oct 13			380	178	117	8	0	865	232	0	0		89.2	0.0	6.0	60.0
Oct 14			432	199	109	11	1	949	222	-1	0		75.8	0.0	6.0	60.0
Oct 15			522	182	123	14	0	1,035	285	-7	0		84.0	0.0	6.0	60.0
Oct 16			635	318	211	18	0	1,572	369	0	0		86.4	0.0	6.0	60.0
Oct 17			856	271	166	46	0	1,513	337	4	0		88.1	0.0	6.0	60.0
Oct 18			537	170	154	27	1	1,579	402	4	0		112.4	0.0	6.0	60.0
Oct 19			257	104	75	11	0	947	255	4	0		81.4	0.0	6.0	60.0
Oct 20			203	116	87	16	0	957	260	0	0		78.4	0.0	6.0	59.0
Oct 21			215	102	118	9	0	1,246	298	0	0		82.9	0.0	6.0	58.0
Oct 22			318	93	273	17	0	841	216	0	0		87.4	0.0	6.0	58.0
Oct 23			436	102	409	21	0	1,145	304	1	0		94.7	0.0	6.0	57.0
Oct 24			295	60	365	31	0	1,259	341	0	0		98.1	0.0	6.0	57.0
Oct 25			278	75	316	29	0	1,616	451	0	-7		97.0	0.0	*	56.0
Oct 26			135	73	157	38	0	1,582	504	11	1		84.5	0.0	6.0	56.0
Oct 27			89	23	85	11	0	762	196	1	0		88.4	0.0	6.0	56.0
Oct 28			156	40	65	10	0	612	153	0	1		88.1	0.0	6.0	56.0
Oct 29			151	31	52	6	0	478	107	0	0		88.3	0.0	6.0	55.0
Oct 30			88	27	40	3	0	441	142	0	0		90.7	0.0	6.0	55.0
Oct 31			70	31	27	5	0	222	48	1	0		95.0	0.0	6.0	55.0
TOTAL			12,393	6,062	10,186	1,129	2	50,339	12,191	41	9					

AVG.	400	196	329	36	0	1,624	393	1	0	89.6	0.0	6.0	59.0
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*Data unavailable.

RUN YEAR	CHINOOK		COHO		SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
	ADULT	JACK	ADULT	JACK						
TOTALS TO DATE										
SPRING	38,852	12,252			18,175	208,788	50,958	985,466	3,454	1
SUMMER	32,942	9,494								
FALL	57,268	27,994								
TOTAL	129,062	49,740								

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 2007

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
	SPRING	SUMMER	FALL													
Nov 1			182	18	33	2		313	87				89.3	0.0	6.0	55.0
Nov 2			114	25	23	2		261	68				88.9	0.0	6.0	55.0
Nov 3			72	18	36	1		259	70				89.9	0.0	6.0	54.0
Nov 4			81	12	21	3		254	76				79.3	0.0	6.0	54.0
Nov 5			95	8	27	6		256	64				94.4	0.0	6.0	54.0
Nov 6			64	4	13	6		133	33				101.2	0.0	6.0	54.0
Nov 7			85	8	5	0		185	62				93.6	0.0	6.0	54.0
Nov 8			61	15	7	1		90	24				80.1	0.0	6.0	54.0
Nov 9			61	6	4	1		83	18				82.3	0.0	6.0	53.0
Nov 10			94	5	13	2		95	26				106.3	0.0	6.0	53.0
Nov 11			46	8	7	1		116	30				113.5	0.0	6.0	53.0
Nov 12			27	8	10	0		132	32				115.4	0.0	6.0	53.0
Nov 13			48	3	1	-1		122	34				126.4	0.0	6.0	53.0
Nov 14			64	7	4	1		173	51				123.7	0.0	6.0	52.0
Nov 15			31	3	4	-2		105	24				119.1	0.0	6.0	52.0
Nov 16			25	2	1	1		92	34				118.3	0.0	6.0	52.0
Nov 17			41	0	0	0		80	24				96.8	0.0	6.0	52.0
Nov 18			33	1	3	0		98	30				100.2	0.0	6.0	52.0
Nov 19			18	0	-4	0		85	17				95.6	0.0	6.0	52.0
Nov 20			23	0	2	0		49	12				95.2	0.0	6.0	51.0
Nov 21			14	-1	0	0		49	15				118.5	0.0	6.0	51.0
Nov 22			16	0	-2	1		245	69				97.3	0.0	6.0	51.0
Nov 23			4	2	3	0		373	107				106.6	0.0	6.0	50.0
Nov 24			7	2	2	0		198	53				117.4	0.0	6.0	50.0
Nov 25			21	5	1	0		258	72				106.2	0.0	6.0	50.0
Nov 26			6	1	1	0		161	46				123.6	0.0	6.0	49.0
Nov 27			11	0	0	0		117	34				132.2	0.0	6.0	48.0
Nov 28			7	0	1	0		109	26				117.0	0.0	6.0	47.0
Nov 29			14	0	0	0		154	40				126.6	0.0	6.0	47.0
Nov 30			13	0	-3	0		160	49				120.8	0.0	6.0	47.0
TOTAL			1,378	160	213	25		4,805	1,327							
AVG.			46	5	7	1		160	44				105.9	0.0	6.0	51.7

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
TOTALS TO DATE										
SPRING	38,852	12,252	20,217	2,370	18,175	208,788	50,958	985,466	3,454	1
SUMMER	32,942	9,494								
FALL	57,268	27,994								
TOTAL	129,062	49,740								

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 2007

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON	RIVER CONDITIONS			
	SPRING	SUMMER	FALL										DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Dec 1			9	0	-1			60	20				112.3	0.0	6.0	46.0
Dec 2			11	0	2			67	25				107.1	0.0	6.0	46.0
Dec 3			10	1	0			79	20				93.7	0.0	6.0	46.0
Dec 4			10	2	1			74	18				98.5	0.0	6.0	47.0
Dec 5			2	-1	0			34	16				113.4	0.0	6.0	47.0
Dec 6			1	1	0			62	12				109.8	0.0	*	47.0
Dec 7			3	-1	0			64	20				105.0	0.0	6.0	47.0
Dec 8			4	0	1			101	35				124.8	0.1	6.0	46.0
Dec 9			2	0	0			51	13				125.3	0.1	6.0	46.0
Dec 10			3	1	0			196	64				152.3	0.0	5.5	46.0
Dec 11			0	0	0			110	43				159.7	0.0	5.8	45.0
Dec 12			5	0	0			98	20				109.1	0.0	6.0	45.0
Dec 13			1	0	1			86	13				110.7	0.0	6.0	44.0
Dec 14			0	0	0			123	42				148.5	0.0	6.0	44.0
Dec 15			6	0	-1			34	11				126.2	0.0	6.0	43.0
Dec 16			3	1	-1			66	6				93.8	0.0	6.0	42.0
Dec 17			1	-1	0			69	20				90.1	0.0	6.0	42.0
Dec 18			5	0	0			22	9				92.7	0.0	6.0	42.0
Dec 19			3	0	0			30	8				122.3	0.0	6.0	42.0
Dec 20			2	0	0			35	11				139.4	0.0	6.0	43.0
Dec 21			1	0	0			40	17				137.2	0.0	6.0	42.0
Dec 22			4	0	-1			32	7				130.5	0.0	6.0	42.0
Dec 23			0	0	0			25	7				127.9	0.0	6.0	42.0
Dec 24			0	0	0			55	23				116.0	0.0	6.0	42.0
Dec 25			0	0	-1			21	9				111.2	0.0	6.0	43.0
Dec 26			1	0	0			28	13				108.1	0.0	6.0	43.0
Dec 27			0	0	0			21	8				153.7	0.0	6.0	42.0
Dec 28			0	0	0			28	6				159.2	0.0	6.0	41.0
Dec 29			1	0	0			7	0				140.2	0.0	6.0	41.0
Dec 30			1	0	0			35	12				99.9	0.0	6.0	41.0
Dec 31			0	0	0			33	8				104.2	0.0	6.0	41.0
TOTAL			89	3	0			1,786	536							
AVG.			3	0	0			58	17				120.1	0.0	6.0	43.7

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
TOTALS TO DATE										
SPRING	38,852	12,252				208,788	50,958	985,466	3,454	1
SUMMER	32,942	9,494								
FALL	57,268	27,994								
TOTAL	129,062	49,740								

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 - 2007**

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
2007	180,435	221,534	18,175	22,825	442,969
Totals	10,124,283	6,657,855	3,044,739	544,265	20,371,142
10-Year Average	280,970	209,480	45,088	14,793	550,330

*Jacks included

TABLE 74
 MONTHLY COUNT OF CHINOOK SALMON
 McNARY DAM
 1954 - 2007

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 - 2007**

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
2007			3	7,073	38,622	27,760	18,036	8,565	60,291	18,455	1,538	92		180,435	51,104	42,436	85,262
Total			995	929,132	1,835,751	1,216,720	1,229,040	662,932	3,475,651	762,702	13,443	682	10,127,048	2,984,378	2,392,558	4,741,636	
10-Year Average				33,398	48,489	36,876	28,497	14,870	95,397	22,802			281,246	88,452	61,567	130,379	

*Jacks included

TABLE 75
MONTHLY COUNT OF SOCKEYE SALMON
McNARY DAM
1954 - 2007

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 - 2007**

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	
2007					1	11,087	6,974	105	6	2			18,175	
Total					1	205	687,716	2,257,607	85,984	9,420	3,800	5	1	3,044,739
10-Year Average						26,158	18,809	113	5					45,088

TABLE 76

**MONTHLY COUNT OF COHO SALMON
McNARY DAM
1954 - 2007**

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 - 2007**

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
2007								9	11,263	11,315	238		22,825
TOTAL				1	14	50	515	20,126	396,952	121,164	5,806	38	544,666
10-Year Average								59	8,019	6,506			14,833

*Jacks included

TABLE 77

**MONTHLY COUNT OF STEELHEAD
McNARY DAM: 1954-2007**

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

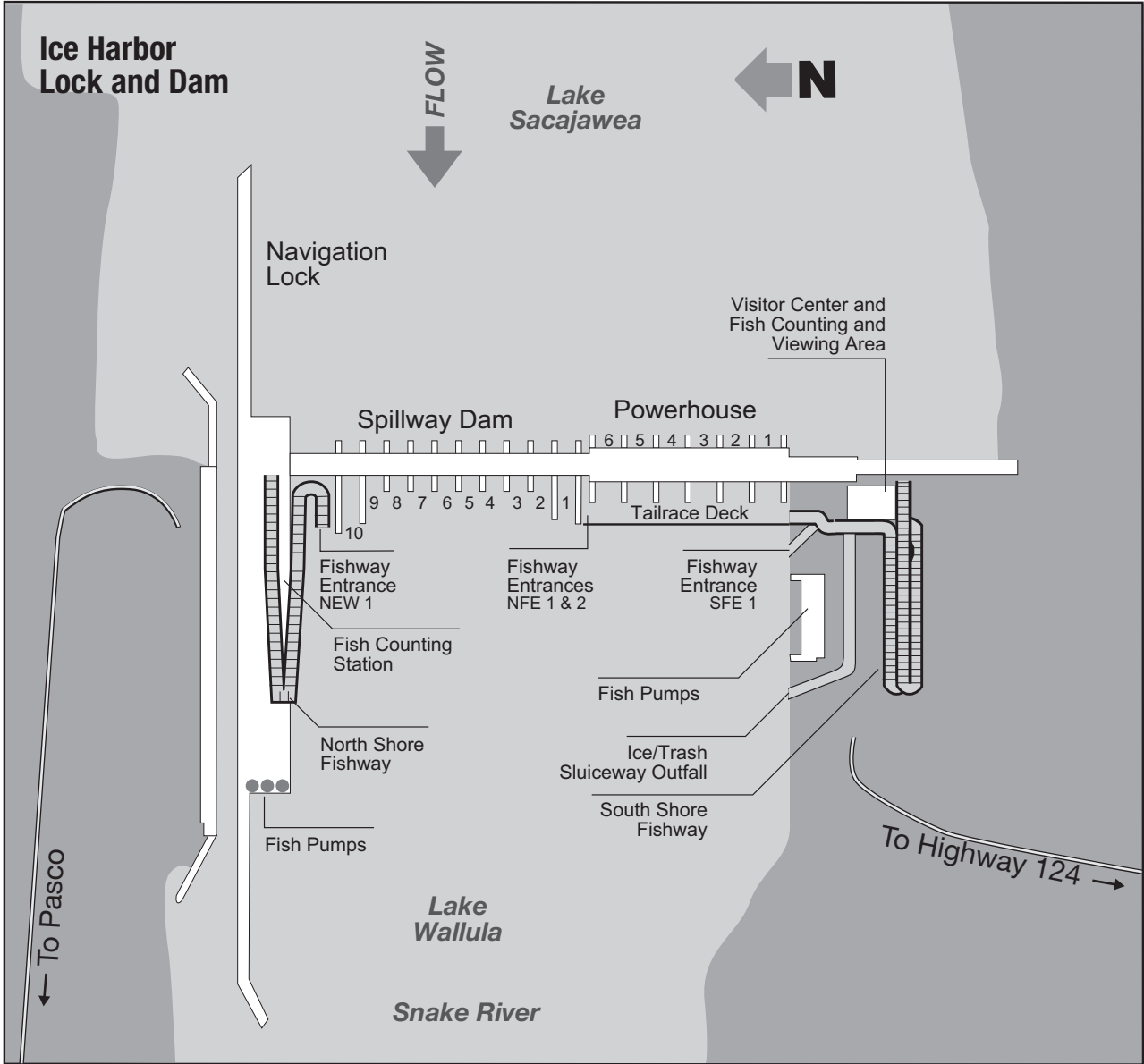
(Continued)

**MONTHLY COUNT OF STEELHEAD
McNARY DAM; 1954 - 2007**

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
2007			6,155	1,693	241	1,616	13,232	32,652	109,015	50,339	4,805	1,786	221,534
Total	1,059	925	33,723	106,754	40,133	69,785	583,019	1,104,887	3,161,579	1,488,394	69,280	15,067	6,674,605
10-Year Avg.				1,506	303	2,665	18,145	24,662	103,844	52,688			211,128

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 – 2 Jan	Ladder in service
3 Jan – 10 Jan	Ladder dewatered for annual maintenance
11 Jan – 31 Dec	Ladder in service

South Ladder

1 Jan – 15 Jan	Ladder in service
16 Jan – 14 Feb	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 July 2 to 20 September.

Two of the three fish pumps on the north shore and eight on the south shore were operated in 2007 with the exceptions listed below. The north shore fish pump gear boxes continued to have breakdown problems in 2007.

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.

Normandeau Associates performed a direct survival/injury study on juvenile salmonids passing through the main unit turbine number 3. NOAA Fisheries conducted radio telemetry research on the survival rates of fish passage through the spillway and over the removable spillway weir.

The juvenile fish facility was operated for juvenile fish bypass and adult fallbacks from 2 March until 17 December 2007.

TABLE 78

MONTHLY TOTALS OF SALMONIDS, SHAD, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER ICE HARBOR DAM
2007

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*			1	3,277	27,506	11,597	3,167	1,984	17,456	4,118			69,106
STEELHEAD			4,001	2,183	107	903	4,743	11,723	83,713	50,247			157,620
SOCKEYE						29	26						55
COHO*									867	1,280			2,147
PINK													0
TOTAL			4,002	5,460	27,613	12,529	7,936	13,707	102,036	55,645			228,928
SHAD					7,387	137,141	57,511	701	66	12			202,818
LAMPREY				9	5	3	98	119	56				290
STURGEON							2	0	1				3
BULL TROUT													0

*Jacks included

Note: These counts include the extended season videotaped counts that were made between 0600 and 1600 hours in March.

TABLE 79

DISCHARGE AND WATER QUALITY DATA
ICE HARBOR PROJECT 2007

JANUARY					FEBRUARY				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY		DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY	
			SECCHI	*DEG F				SECCHI	*DEG F
Jan 1	30.3	0.0			Feb 1	32.3	0.0		
Jan 2	29.7	0.0			Feb 2	28.9	0.0		
Jan 3	33.8	0.0			Feb 3	25.7	0.0		
Jan 4	32.0	0.0			Feb 4	20.2	0.0		
Jan 5	38.0	0.0			Feb 5	27.7	0.0		
Jan 6	32.3	0.0			Feb 6	17.2	0.0		
Jan 7	40.9	0.0			Feb 7	23.1	0.0		
Jan 8	27.8	0.0			Feb 8	24.5	0.0		
Jan 9	42.6	0.0			Feb 9	18.4	0.0		
Jan 10	29.1	0.0			Feb 10	26.8	0.0		
Jan 11	45.2	0.0			Feb 11	23.8	0.0		
Jan 12	41.4	0.0			Feb 12	29.8	0.0		
Jan 13	36.2	0.0			Feb 13	44.6	0.0		
Jan 14	34.8	0.0			Feb 14	30.6	0.0		
Jan 15	37.1	0.0			Feb 15	32.9	0.0		
Jan 16	51.6	0.0			Feb 16	44.2	0.0		
Jan 17	24.5	0.0			Feb 17	47.1	0.0		
Jan 18	36.5	0.0			Feb 18	39.2	0.0		
Jan 19	32.1	0.0			Feb 19	42.8	0.0		
Jan 20	18.5	0.0			Feb 20	42.1	0.0		
Jan 21	15.5	0.0			Feb 21	41.7	0.0		
Jan 22	36.2	0.0			Feb 22	32.1	0.0		
Jan 23	30.6	0.0			Feb 23	39.0	0.0		
Jan 24	28.0	0.0			Feb 24	39.1	0.0		
Jan 25	44.2	0.0			Feb 25	31.4	0.0		
Jan 26	20.9	0.0			Feb 26	36.0	0.0		
Jan 27	21.6	0.0			Feb 27	40.9	0.0		
Jan 28	8.4	0.0			Feb 28	28.5	0.0		
Jan 29	28.4	0.0							
Jan 30	14.4	0.0							
Jan 31	31.3	0.0							
AVG.	31.4	0.0			AVG.	32.7	0.0		

*Data unavailable

TABLE 80

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

ICE HARBOR PROJECT
MARCH 2007

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	1							36	7				29.2	0.0	4.3	38.0	
Mar 2	0							62	8				31.5	0.0	4.6	39.0	
Mar 3	0							54	11				32.9	0.0	4.6	39.0	
Mar 4	0							63	9				24.7	0.0	4.6	40.0	
Mar 5	0							35	5				25.3	0.0	4.6	40.0	
Mar 6	0							48	8				23.1	0.0	4.6	40.0	
Mar 7	0							169	38				29.4	0.0	4.6	40.0	
Mar 8	0							198	22				27.7	0.0	4.6	40.0	
Mar 9	0							110	16				33.6	0.0	4.2	40.0	
Mar 10	0							82	3				38.1	0.0	4.2	40.0	
Mar 11	0							113	8				33.6	0.0	4.2	40.0	
Mar 12	0							73	4				42.7	0.0	4.2	40.0	
Mar 13	0							77	9				54.9	0.0	4.2	41.0	
Mar 14	0							173	23				61.2	0.0	4.2	42.0	
Mar 15	0							125	19				60.7	0.0	3.8	42.0	
Mar 16	0							131	14				51.1	0.0	3.8	42.0	
Mar 17	0							101	5				46.5	0.0	3.8	42.0	
Mar 18	0							161	11				42.6	0.0	3.8	43.0	
Mar 19	0							138	19				54.4	1.2	3.8	44.0	
Mar 20	0							134	14				56.5	0.0	3.8	44.0	
Mar 21	0							183	17				68.3	0.0	3.8	45.0	
Mar 22	0							110	15				60.2	0.0	3.8	45.0	
Mar 23	0							117	15				64.8	0.0	3.8	45.0	
Mar 24	0							177	24				49.4	0.0	4.6	45.0	
Mar 25	0							175	21				44.6	0.0	4.6	45.0	
Mar 26	0							206	20				66.7	0.0	4.6	45.0	
Mar 27	0							263	30				69.0	30.5	4.6	45.0	
Mar 28	0							228	38				65.2	23.7	4.6	45.0	
Mar 29	0							107	22				58.2	20.0	4.6	45.0	
Mar 30	0							185	35				57.8	11.2	4.6	46.0	
Mar 31	0							167	35				52.2	4.9	4.6	46.0	
TOTAL	1							4,001	525								
AVG.	0							129	17				47.0	3.0	4.3	42.4	

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 2007

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	1			0				204	58		0		39.3	0.0	4.6	46.0
Apr 2	0			0				191	42		0		62.1	0.0	4.6	47.0
Apr 3	0			0				183	36		0		45.6	33.6	4.4	47.0
Apr 4	-1			0				163	30		0		40.5	30.1	4.4	47.0
Apr 5	-1			0				127	35		0		39.1	28.7	4.4	47.0
Apr 6	1			0				131	34		0		34.3	24.0	4.4	47.0
Apr 7	1			0				116	38		0		35.3	25.1	4.4	48.0
Apr 8	1			0				133	41		0		40.3	30.1	4.4	48.0
Apr 9	1			0				85	25		0		47.5	37.5	4.4	48.0
Apr 10	-1			0				122	27		0		56.9	46.7	4.4	48.0
Apr 11	0			0				158	33		0		50.0	40.0	4.4	48.0
Apr 12	-1			0				86	27		0		50.4	31.6	4.4	48.0
Apr 13	0			1				54	17		0		52.3	42.2	4.8	48.0
Apr 14	-4			0				41	11		0		49.5	39.5	4.8	48.0
Apr 15	2			0				78	18		0		45.5	35.5	4.8	49.0
Apr 16	2			0				48	7		0		50.2	40.0	4.8	49.0
Apr 17	2			0				29	7		0		53.1	43.0	4.2	49.0
Apr 18	8			4				44	18		0		40.3	30.1	4.2	49.0
Apr 19	21			2				36	12		0		50.5	40.4	4.2	49.0
Apr 20	29			1				22	7		0		46.8	36.8	4.2	50.0
Apr 21	49			2				11	3		0		54.5	44.4	4.2	50.0
Apr 22	102			0				17	6		0		40.2	30.2	4.2	50.0
Apr 23	168			2				17	4		0		45.8	35.8	4.2	51.0
Apr 24	211			2				5	1		4		51.4	41.1	4.2	51.0
Apr 25	216			0				17	10		4		46.2	36.0	5.2	51.0
Apr 26	303			7				16	6		0		52.8	42.7	5.2	51.0
Apr 27	481			7				14	8		0		56.3	43.3	5.2	52.0
Apr 28	410			5				15	8		1		55.5	45.3	5.2	52.0
Apr 29	599			10				8	5		0		61.7	47.0	5.2	52.0
Apr 30	625			9				12	8		0		72.1	54.1	5.2	53.0
TOTAL	3,225			52				2,183	582		9		48.9	35.2	4.6	49.1
AVG.	108			2				73	19		0		48.9	35.2	4.6	49.1

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 2007

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	996			52				13	7	0	0		86.5	61.7	5.2	53.0
May 2	873			26				13	8	0	0		86.3	33.9	5.0	53.0
May 3	1,297			39				9	7	0	0		91.7	27.6	5.0	53.0
May 4	719			34				4	2	0	0		87.8	47.1	4.3	53.0
May 5	1,256			76				5	3	0	0		83.7	55.3	4.3	53.0
May 6	1,239			89				1	-1	0	0		71.9	29.6	4.3	53.0
May 7	1,116			121				3	2	0	0		66.1	19.8	4.3	54.0
May 8	1,134			205				7	6	0	0		65.4	42.0	5.3	54.0
May 9	1,075			285				3	1	0	0		67.1	47.8	5.3	54.0
May 10	1,146			247				2	2	0	1		79.7	32.3	5.1	54.0
May 11	707			187				4	2	0	0		92.2	28.1	5.1	54.0
May 12	549			260				1	1	0	0		93.8	28.0	5.1	54.0
May 13	1,015			320				2	0	0	0		94.7	28.4	5.1	55.0
May 14	754			314				0	0	0	0		99.6	51.1	5.1	55.0
May 15	899			352				3	1	0	0		96.7	60.4	5.1	55.0
May 16	652			282				2	1	0	0		87.6	38.5	4.2	55.0
May 17	594			225				4	2	0	0		81.0	24.3	4.2	56.0
May 18	383			324				2	0	0	2		95.3	52.6	4.2	56.0
May 19	535			404				2	0	0	0		89.3	60.0	4.2	56.0
May 20	433			356				2	0	1	1		87.8	56.9	4.2	57.0
May 21	335			401				2	0	0	0		89.5	58.4	4.2	57.0
May 22	501			396				0	0	1	1		84.4	34.2	4.2	57.0
May 23	508			287				-1	-1	4	0		73.9	22.3	4.2	57.0
May 24	397			248				2	0	3	0		70.6	41.0	4.2	58.0
May 25	306			89				-1	-1	7	0		71.8	46.4	4.2	58.0
May 26	303			96				2	0	29	0		68.0	29.7	4.2	58.0
May 27	399			80				2	0	185	0		53.3	17.1	4.2	58.0
May 28	265			44				0	-2	440	0		56.4	16.7	4.2	58.0
May 29	280			123				2	0	1,493	0		62.7	18.8	4.2	58.0
May 30	230			162				7	1	1,623	0		56.1	17.9	5.2	59.0
May 31	309			177				10	1	3,601	0		56.0	16.8	5.2	59.0
TOTAL	21,205			6,301				107	42	7,387	5					

AVG. 684 203

3 1 238 0

78.9 36.9 4.6 55.6

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	24,430	6,353

WILD STEELHEAD	SHAD	LAMPREY
STEELHEAD		
2,290	7,387	14

TABLE 83

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

ICE HARBOR PROJECT
JUNE 2007

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	160			109			0	1	0	841	0		51.7	38.2	5.2	58.0
Jun 2	252			110			0	4	1	564	0		56.4	45.5	5.2	59.0
Jun 3	246			55			0	4	-1	274	0		54.8	44.1	5.2	59.0
Jun 4	273			93			0	2	0	1,082	0		54.5	44.1	5.2	59.0
Jun 5	372			85			0	7	-1	4,709	1		56.8	45.1	5.2	59.0
Jun 6	351			50			0	16	1	1,117	0		56.0	45.9	5.2	59.0
Jun 7	371			51			0	10	1	4,805	0		58.9	23.2	5.2	59.0
Jun 8	240			83			0	21	1	4,732	0		52.1	16.2	5.2	59.0
Jun 9	390			122			0	14	1	4,403	0		51.1	16.0	5.2	59.0
Jun 10	551			109			0	27	0	4,505	0		51.8	16.4	5.2	59.0
Jun 11	411			88			0	11	0	1,536	0		51.7	36.4	5.2	59.0
Jun 12		333		63			0	24	-1	5,551	0		66.0	51.7	5.2	59.0
Jun 13		449		134			0	34	1	7,237	0		56.6	24.2	5.2	59.0
Jun 14		355		100			0	20	1	8,567	0		53.6	17.4	4.4	59.0
Jun 15		247		36			0	17	0	6,403	0		47.8	33.8	4.4	59.0
Jun 16		285		35			0	12	-1	2,398	1		44.0	33.5	4.4	60.0
Jun 17		231		39			0	14	0	1,463	0		47.0	36.0	4.4	61.0
Jun 18		337		41			0	20	4	2,160	0		40.7	30.4	4.4	62.0
Jun 19		326		72			0	33	2	3,736	0		37.1	17.3	4.4	62.0
Jun 20		365		71			1	51	6	6,864	1		42.7	15.6	7.0	62.0
Jun 21		361		100			0	56	2	9,591	0		32.6	22.0	7.0	63.0
Jun 22		230		86			2	38	5	6,420	0		45.2	35.0	7.0	63.0
Jun 23		212		71			1	42	2	11,381	0		37.5	17.3	7.0	63.0
Jun 24		257		111			1	41	3	7,033	0		34.1	15.2	7.0	63.0
Jun 25		399		125			6	86	5	4,097	0		33.0	15.2	7.0	63.0
Jun 26		214		42			2	64	3	2,529	0		30.6	15.3	7.0	63.0
Jun 27		202		37			0	47	0	2,628	0		30.1	20.1	4.7	63.0
Jun 28		240		48			0	37	1	4,241	0		31.6	21.8	4.7	63.0
Jun 29		248		105			5	64	7	6,831	0		36.8	17.7	4.7	63.0
Jun 30		282		136			11	86	8	9,443	0		32.8	15.2	4.7	63.0
TOTAL	3,617	5,573		2,407			29	903	51	137,141	3					
AVG.	329	293		80			1	30	2	4,571	0		45.9	27.5	5.4	60.7

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	28,047	7,308
SUMMER	5,573	1,452
TOTAL	33,620	8,760

	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
TOTALS TO DATE					
	29	3,193	675	144,528	17

TABLE 84

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

ICE HARBOR PROJECT
JULY 2007

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		137		65			4	50	4	5,424	0	0	33.3	23.0	4.7	63.0
Jul 2		144		104			4	79	6	6,144	0	0	30.1	20.2	4.7	63.0
Jul 3		113		74			2	109	12	10,121	4	0	33.7	23.7	4.7	63.0
Jul 4		100		79			3	94	4	7,893	1	0	30.1	20.0	5.2	63.0
Jul 5		50		88			1	135	20	1,982	0	0	32.9	16.2	5.2	64.0
Jul 6		91		8			2	96	7	5,425	0	0	34.4	15.2	5.2	64.0
Jul 7		51		5			1	72	6	2,536	1	1	32.4	15.3	5.2	64.0
Jul 8		47		12			0	75	1	1,290	4	1	38.8	15.3	5.2	66.0
Jul 9		75		33			0	70	18	540	2	0	38.5	24.5	5.2	66.0
Jul 10		141		30			0	152	14	404	1	0	37.0	27.0	4.9	66.0
Jul 11		204		67			0	246	33	2,195	3	0	32.7	17.6	4.9	66.0
Jul 12		103		37			0	256	36	1,067	2	0	34.2	15.2	6.5	69.0
Jul 13		60		59			2	289	46	4,085	4	0	32.6	21.0	6.5	69.0
Jul 14		50		53			0	254	42	2,005	1	0	31.7	21.2	6.5	69.0
Jul 15		64		34			0	256	51	1,182	2	0	34.2	16.2	6.5	69.0
Jul 16		39		39			4	252	36	1,123	1	0	31.8	17.0	6.5	69.0
Jul 17		58		9			0	174	19	715	4	0	29.8	19.9	6.5	69.0
Jul 18		79		14			1	159	21	837	7	0	29.6	19.4	8.6	68.0
Jul 19		61		12			1	127	19	723	3	0	28.5	18.3	8.6	68.0
Jul 20		41		32			0	139	15	407	6	0	29.0	19.1	8.6	68.0
Jul 21		78		39			0	128	13	126	9	0	29.3	19.1	8.6	68.0
Jul 22		34		40			0	115	19	124	3	0	26.6	16.4	8.6	70.0
Jul 23		32		39			0	89	16	250	8	0	25.2	15.2	8.6	70.0
Jul 24		30		20			1	93	14	91	8	0	25.6	15.5	11.0	70.0
Jul 25		23		12			0	154	19	107	3	0	27.9	17.5	11.0	70.0
Jul 26		26		10			0	147	17	89	5	0	25.4	15.2	11.0	70.0
Jul 27		28		7			0	142	24	215	2	0	29.6	19.5	11.0	70.0
Jul 28		34		10			0	109	21	90	4	0	28.4	18.0	11.0	71.0
Jul 29		34		10			0	187	36	112	5	0	25.4	15.2	11.0	72.0
Jul 30		38		10			0	186	42	165	1	0	29.3	19.2	11.0	72.0
Jul 31		42		9			0	309	75	44	4	0	25.8	15.9	11.0	72.0
TOTAL		2,107		1,060			26	4,743	706	57,511	98	2				

AVG.	68	34	1	153	23	1,855	3	0	30.8	18.5	7.5	67.8
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	28,047	7,308
SUMMER	7,680	2,512
TOTAL	35,727	9,820

	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
TOTALS TO DATE	55	7,936	1,381	202,039	115	2

TABLE 85

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

ICE HARBOR PROJECT
AUGUST 2007

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		35		5				197	37	64	5		28.1	18.0	11.0	72.0
Aug 2		33		7				175	19	171	6		30.5	20.6	10.5	72.0
Aug 3		40		6				223	44	72	3		25.7	15.6	10.5	72.0
Aug 4		18		6				213	37	45	2		25.2	15.0	10.5	72.0
Aug 5		29		9				192	27	30	4		25.0	14.7	10.5	72.0
Aug 6		28		11				152	27	43	1		25.4	15.1	10.5	72.0
Aug 7		28		5				179	35	15	3		21.9	12.0	10.5	72.0
Aug 8		35		5				266	46	31	1		24.0	13.7	10.5	72.0
Aug 9		40		6				266	36	20	2		26.2	16.1	10.5	72.0
Aug 10		27		5				211	40	21	8		27.3	17.2	10.5	72.0
Aug 11		22		7				176	35	11	5		24.4	14.2	10.5	72.0
Aug 12			32	2				199	33	12	9		24.4	14.1	10.5	72.0
Aug 13			34	4				237	45	5	3		24.6	14.7	10.5	72.0
Aug 14			45	4				395	82	4	9		21.8	11.7	10.5	72.0
Aug 15			20	1				234	35	22	10		22.9	12.7	10.5	72.0
Aug 16			31	4				377	86	42	8		23.6	13.3	10.5	72.0
Aug 17			51	2				262	27	10	9		21.5	11.3	10.5	72.0
Aug 18			33	2				196	16	7	2		21.1	11.0	10.5	72.0
Aug 19			67	6				137	23	5	3		18.9	8.8	10.5	72.0
Aug 20			53	2				198	27	5	2		21.0	11.0	10.5	72.0
Aug 21			81	5				234	46	13	1		25.0	15.0	10.5	72.0
Aug 22			83	6				300	67	12	1		22.5	12.5	10.5	72.0
Aug 23			116	10				488	90	3	3		18.7	8.6	10.5	72.0
Aug 24			66	8				487	96	7	7		22.5	12.6	10.5	72.0
Aug 25			72	6				797	174	13	2		23.2	13.1	10.5	72.0
Aug 26			70	12				1,141	228	1	1		21.7	11.5	10.5	72.0
Aug 27			111	11				1,031	231	4	2		21.2	11.3	10.5	72.0
Aug 28			106	9				689	110	5	0		24.1	15.0	8.5	72.0
Aug 29			194	14				748	87	4	1		20.2	10.1	8.5	71.0
Aug 30			81	14				523	91	2	1		18.6	8.7	8.5	71.0
Aug 31			93	16				800	155	2	5		21.0	11.2	8.5	71.0
TOTAL		335	1,439	210				11,723	2,132	701	119					
AVG.		30	72	7				378	69	23	4		23.3	13.2	10.3	71.9

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	28,047	7,308
SUMMER	8,015	2,584
FALL	1,439	138
TOTAL	37,501	10,030

	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
TOTALS TO DATE						
SPRING	55	19,659	3,513	202,740	234	2

TABLE 86

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

ICE HARBOR PROJECT
SEPTEMBER 2007

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			198	43	0	0		1,729	329	1	13	0	10.4	0.0	8.5	71.0
Sep 2			62	18	0	0		619	102	14	10	0	18.0	0.0	8.5	71.0
Sep 3			109	34	0	0		872	166	7	1	0	18.9	0.0	8.5	71.0
Sep 4			415	99	18	0		1,840	379	0	1	0	19.3	0.0	8.5	70.0
Sep 5			636	195	18	0		1,956	396	6	6	0	17.3	0.0	8.1	69.0
Sep 6			485	151	4	0		1,395	308	2	6	0	20.8	0.0	8.1	69.0
Sep 7			386	107	15	0		1,654	316	11	3	0	12.9	0.0	8.1	69.0
Sep 8			192	56	5	0		1,570	286	0	0	0	28.2	0.0	8.1	69.0
Sep 9			219	104	6	1		1,078	166	-6	0	0	12.3	0.0	8.1	69.0
Sep 10			221	111	5	0		638	80	0	1	0	20.3	0.0	8.1	69.0
Sep 11			286	252	2	0		1,205	245	1	0	0	23.6	0.0	8.1	69.0
Sep 12			313	202	4	0		1,467	288	2	4	0	25.2	0.0	8.1	69.0
Sep 13			391	338	6	0		2,355	492	0	1	0	15.9	0.0	8.1	69.0
Sep 14			496	361	12	4		2,454	510	0	4	0	14.7	0.0	8.1	69.0
Sep 15			471	343	25	1		2,955	633	8	1	0	19.3	0.0	8.1	68.0
Sep 16			465	350	25	2		2,776	619	0	0	0	15.8	0.0	8.1	68.0
Sep 17			345	358	30	4		4,365	937	12	2	0	17.5	0.0	8.1	68.0
Sep 18			654	442	46	2		5,081	918	2	0	0	15.4	0.0	8.1	68.0
Sep 19			528	324	36	4		4,356	869	2	0	0	17.1	0.0	8.1	68.0
Sep 20			264	208	32	7		2,898	575	2	1	1	16.0	0.0	8.1	68.0
Sep 21			334	331	50	5		3,664	742	4	0	0	17.1	0.0	8.1	68.0
Sep 22			211	308	52	9		3,571	713	0	0	0	16.0	0.0	8.1	67.0
Sep 23			237	258	46	5		2,989	582	1	0	0	14.6	0.0	8.1	67.0
Sep 24			298	402	67	17		6,519	1,378	0	0	0	23.0	0.0	8.1	67.0
Sep 25			294	345	45	1		4,084	882	-6	1	0	19.2	0.0	8.1	67.0
Sep 26			511	640	77	14		6,923	1,459	0	0	0	10.9	0.0	8.1	67.0
Sep 27			269	231	47	0		2,657	519	0	1	0	10.9	0.0	8.1	66.0
Sep 28			346	249	44	1		3,433	738	2	0	0	11.6	0.0	8.1	66.0
Sep 29			267	164	31	1		3,517	753	0	0	0	13.5	0.0	8.1	65.0
Sep 30			304	225	40	1		3,093	695	1	0	0	16.8	0.0	8.1	64.0
TOTAL			10,207	7,249	788	79		83,713	17,075	66	56	1				

AVG.			340	242	26	3		2,790	569	2	2	0	17.1	0.0	8.2	68.2
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	28,047	7,308
SUMMER	8,015	2,584
FALL	11,646	7,387
TOTAL	47,708	17,279

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
788	79	55	103,372	20,588	202,806	290	3

TABLE 87

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

ICE HARBOR PROJECT
OCTOBER 2007

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*
Oct 1			204	221	38	2		3,618	712	1			16.4	0.0	8.4	64.0
Oct 2			134	162	37	1		3,594	708	2			21.7	0.0	8.4	64.0
Oct 3			157	144	24	0		2,821	564	0			17.0	0.0	8.4	64.0
Oct 4			112	231	46	6		3,232	678	0			19.8	0.0	8.4	64.0
Oct 5			123	183	52	9		2,702	660	1			13.3	0.0	8.4	64.0
Oct 6			97	174	47	5		3,300	754	-1			21.8	0.0	8.4	62.0
Oct 7			81	174	137	7		4,136	906	-1			16.1	0.0	8.4	61.0
Oct 8			76	134	154	11		3,011	698	0			19.7	0.0	8.4	61.0
Oct 9			95	43	63	1		2,066	408	0			22.0	0.0	8.4	61.0
Oct 10			60	24	41	0		2,397	507	0			20.1	0.0	8.4	61.0
Oct 11			44	50	76	2		1,721	279	0			24.2	0.0	8.4	61.0
Oct 12			40	59	37	11		1,261	231	1			16.7	0.0	6.2	61.0
Oct 13			46	84	53	4		1,250	263	0			20.5	0.0	6.2	61.0
Oct 14			35	72	31	2		794	167	0			16.8	0.0	6.2	61.0
Oct 15			49	92	35	0		1,010	203	0			18.8	0.0	6.2	61.0
Oct 16			75	94	13	1		1,261	241	0			13.9	0.0	6.2	61.0
Oct 17			46	85	21	1		1,327	312	6			17.2	0.0	6.2	61.0
Oct 18			51	50	31	2		1,129	281	0			19.6	0.0	6.2	61.0
Oct 19			45	70	17	0		908	186	1			12.7	0.0	6.2	61.0
Oct 20			43	32	14	1		796	177	0			15.0	0.0	6.2	61.0
Oct 21			19	19	17	-1		596	120	0			20.0	0.0	6.2	61.0
Oct 22			25	6	19	0		410	81	0			24.9	0.0	6.2	61.0
Oct 23			13	43	19	2		949	245	1			25.4	0.0	6.8	61.0
Oct 24			23	24	30	2		852	234	1			19.3	0.0	6.8	61.0
Oct 25			2	35	42	4		956	253	0			20.7	0.0	6.8	61.0
Oct 26			17	11	40	1		941	250	0			24.3	0.0	6.8	59.0
Oct 27			24	17	25	1		1,191	313	0			15.5	0.0	7.2	59.0
Oct 28			10	7	23	0		726	185	0			10.3	0.0	7.2	58.0
Oct 29			1	5	12	-1		511	132	0			22.2	0.0	7.2	57.0
Oct 30			14	5	10	0		446	106	0			19.6	0.0	7.2	57.0
Oct 31			1	6	2	0		335	85	0			15.1	0.0	7.2	57.0
TOTAL			1,762	2,356	1,206	74		50,247	10,939	12			18.7	0.0	7.2	60.9
AVG.			57	76	39	2		1,621	353	0						

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	STURGEON
TOTALS TO DATE										
SPRING	28,047	7,308	1,994	153	55	153,619	31,527	202,818	290	3
SUMMER	8,015	2,584								
FALL	13,408	9,743								
TOTAL	49,470	19,635								

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 - 2007

NOVEMBER					DECEMBER				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY		DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F				SECCHI	DEG F
Nov 1	15.8	0.0	7.2	57.0	Dec 1	17.6	0.0	7.2	48.0
Nov 2	19.2	0.0	7.2	57.0	Dec 2	16.6	0.0	7.2	46.0
Nov 3	14.6	0.0	7.2	56.0	Dec 3	18.1	0.0	7.2	46.0
Nov 4	15.6	0.0	7.2	56.0	Dec 4	20.9	0.0	7.2	46.0
Nov 5	19.6	0.0	7.2	54.0	Dec 5	34.4	0.0	6.2	46.0
Nov 6	12.4	0.0	7.2	54.0	Dec 6	25.5	0.0	6.2	46.0
Nov 7	18.5	0.0	7.2	54.0	Dec 7	26.9	0.0	6.2	45.0
Nov 8	17.9	0.0	7.2	54.0	Dec 8	21.2	0.0	6.2	45.0
Nov 9	18.1	0.0	7.2	54.0	Dec 9	22.7	0.0	6.2	45.0
Nov 10	18.1	0.0	7.2	54.0	Dec 10	26.5	0.0	6.2	45.0
Nov 11	16.5	0.0	7.2	54.0	Dec 11	21.9	0.0	6.2	44.0
Nov 12	19.6	0.0	7.2	53.0	Dec 12	25.5	0.0	6.2	44.0
Nov 13	16.3	0.0	7.2	53.0	Dec 13	19.2	0.0	6.2	44.0
Nov 14	13.6	0.0	7.2	53.0	Dec 14	21.1	0.0	6.2	44.0
Nov 15	15.7	0.0	7.2	53.0	Dec 15	18.7	0.0	6.2	44.0
Nov 16	16.7	0.0	7.2	53.0	Dec 16	21.2	0.0	6.2	43.0
Nov 17	20.1	0.0	7.2	53.0	Dec 17	23.5	0.0	6.2	43.0
Nov 18	25.1	0.0	7.2	53.0	Dec 18	17.4	0.0	6.2	43.0
Nov 19	27.5	0.0	7.2	53.0	Dec 19	24.3	0.0	6.2	43.0
Nov 20	26.4	0.0	7.2	52.0	Dec 20	20.1	0.0	6.2	43.0
Nov 21	25.4	0.0	7.2	52.0	Dec 21	26.3	0.0	6.2	43.0
Nov 22	24.5	0.0	7.2	52.0	Dec 22	20.0	0.0	6.2	43.0
Nov 23	21.4	0.0	7.2	50.0	Dec 23	21.1	0.0	6.2	43.0
Nov 24	21.7	0.0	7.2	50.0	Dec 24	27.5	0.0	6.2	43.0
Nov 25	18.3	0.0	7.2	50.0	Dec 25	20.5	0.0	6.4	43.0
Nov 26	25.1	0.0	7.2	49.0	Dec 26	21.1	0.0	6.4	43.0
Nov 27	15.9	0.0	7.2	49.0	Dec 27	25.9	0.0	6.4	43.0
Nov 28	16.7	0.0	7.2	49.0	Dec 28	20.9	0.0	6.4	43.0
Nov 29	20.7	0.0	7.2	49.0	Dec 29	22.5	0.0	6.4	42.0
Nov 30	18.6	0.0	7.2	48.0	Dec 30	22.0	0.0	6.4	42.0
					Dec 31	23.3	0.0	6.4	40.0
AVG.	19.3	0.0	7.2	52.4	AVG.	22.6	0.0	6.3	43.8

TABLE 89

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
ICE HARBOR DAM
1962 - 2007**

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
2007	69,106	157,620	55	2,147	228,928
Totals	2,622,167	4,243,333	10,906	56,863	6,933,269
10-Year Average	92,819	158,837	57	1,296	253,009

*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 - 2007

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	29,306	9,817	19,238
2006				29	21,660	11,042	2,438	1,534	11,976	3,822			52,501	26,309	9,085	17,107
2007			1	3,277	27,506	11,597	3,167	1,984	17,456	4,118			69,106	35,355	10,599	23,151
TOTAL		1	344	471,257	959,582	462,878	230,702	45,769	341,062	107,262	3,356	87	2,622,300	1,578,447	561,046	482,565
10-Year Average				21,134	31,270	16,675	3,247	1,445	14,911	4,087			92,832	58,899	13,615	20,294

*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.

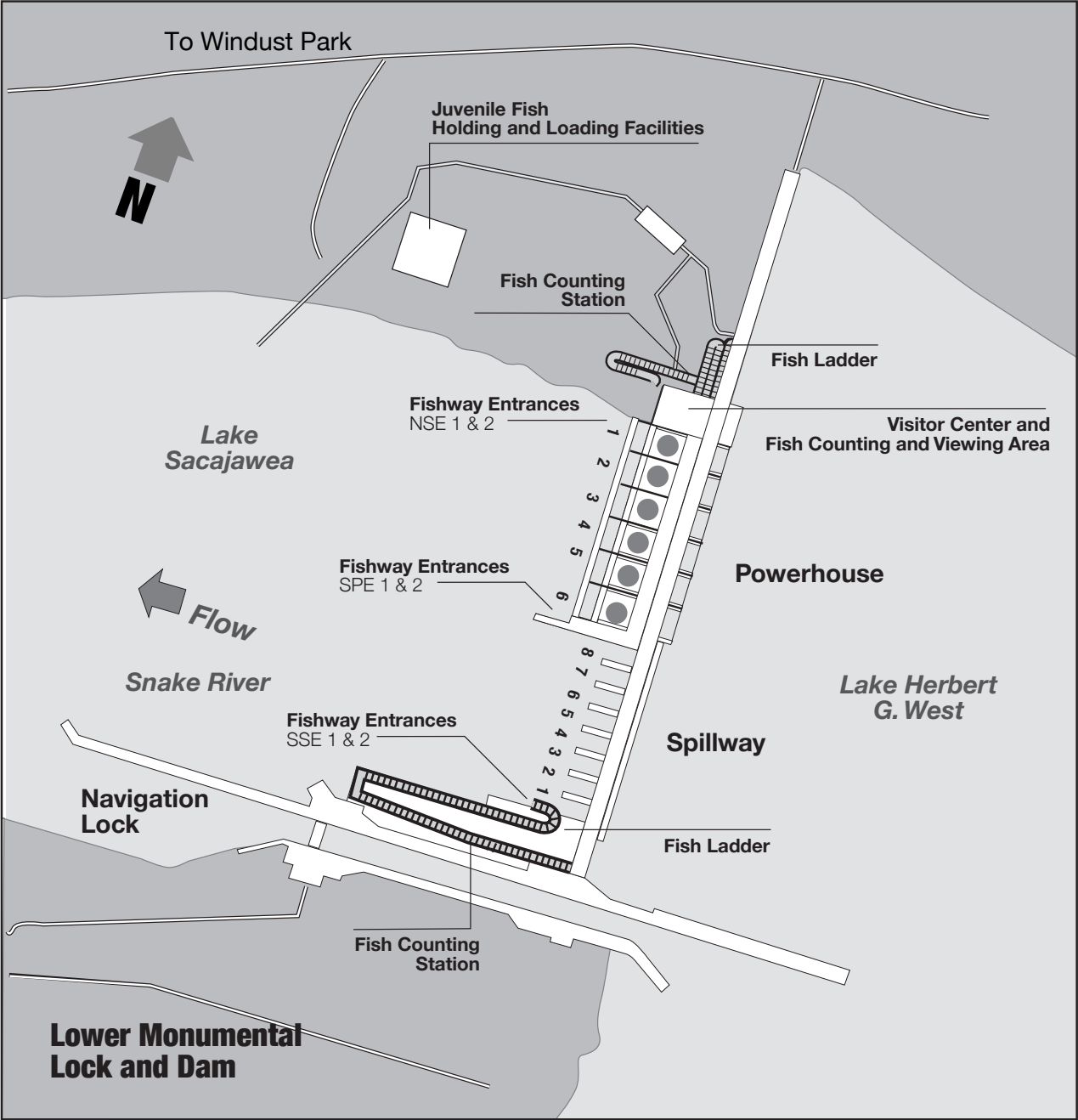
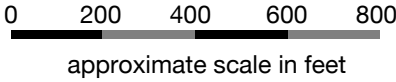
TABLE 91

MONTHLY COUNT OF STEELHEAD
ICE HARBOR DAM
1962 -2007

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
2007			4,001	2,183	107	903	4,743	11,723	83,713	50,247			157,620
Totals	268	287	25,574	103,494	21,405	20,777	185,984	359,030	2,110,789	1,325,354	81,529	14,043	4,248,534
10-Year Average			1,832	103	1,135	7,817	13,891	80,370	47,274				159,357

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.
25 Jan – 31 Dec	Ladder in service.

South Ladder

1 Jan – 29 Jan	Ladder in service.
30 Jan – 26 Feb	Ladder dewatered for annual maintenance.
27 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 juvenile fish facility was operated for juvenile fish transport/bypass and adult fallbacks from 8 March to 18 December.

The juvenile fish facility was operated for juvenile fish transport/bypass and adult fallbacks from 8 March 07 to 2 January 08.

TABLE 92

MONTHLY TOTALS OF SALMONIDS, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER LOWER MONUMENTAL DAM
2007

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				2,143	27,277	13,221	5,238	1,804	17,407	6,243			73,333
STEELHEAD				2,174	143	914	5,735	8,657	77,612	58,869			154,104
SOCKEYE						10	32	1		1			44
COHO*								8	558	1,665			2,231
PINK													0
TOTAL				4,317	27,420	14,145	11,005	10,470	95,577	66,778			229,712
LAMPREY					5	7	35	72	15	4			138
STURGEON													0
BULL TROUT				1	0	2	1						4

*Jacks included

TABLE 93

DISCHARGE AND WATER QUALITY DATA
LOWER MONUMENTAL PROJECT 2007

JANUARY				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI*DEG F	
Jan 1	30.5	0.0		
Jan 2	31.2	7.6		
Jan 3	29.0	8.6		
Jan 4	34.6	10.2		
Jan 5	39.5	25.6		
Jan 6	34.2	17.0		
Jan 7	40.8	0.0		
Jan 8	26.5	6.4		
Jan 9	46.5	0.0		
Jan 10	29.7	0.0		
Jan 11	46.9	0.0		
Jan 12	39.5	0.0		
Jan 13	38.5	0.0		
Jan 14	36.7	0.0		
Jan 15	36.5	0.0		
Jan 16	51.3	0.0		
Jan 17	26.8	0.0		
Jan 18	37.2	0.0		
Jan 19	32.6	0.0		
Jan 20	19.7	0.0		
Jan 21	16.8	0.0		
Jan 22	34.0	0.0		
Jan 23	33.5	0.0		
Jan 24	28.6	0.0		
Jan 25	43.6	0.0		
Jan 26	20.3	2.6		
Jan 27	22.7	0.0		
Jan 28	12.2	0.0		
Jan 29	28.5	0.0		
Jan 30	17.0	0.0		
Jan 31	30.2	0.0		

AVG 32.1 2.5

FEBRUARY				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI*DEG F	
Feb 1	32.3	0.0		
Feb 2	30.3	0.0		
Feb 3	27.5	0.0		
Feb 4	22.2	0.0		
Feb 5	24.5	0.0		
Feb 6	19.2	0.0		
Feb 7	24.2	0.0		
Feb 8	24.3	0.0		
Feb 9	18.4	0.0		
Feb 10	28.5	0.0		
Feb 11	26.3	0.0		
Feb 12	31.0	0.0		
Feb 13	44.1	0.0		
Feb 14	33.0	0.0		
Feb 15	33.1	0.0		
Feb 16	45.7	0.0		
Feb 17	47.6	0.0		
Feb 18	39.9	0.0		
Feb 19	43.2	0.0		
Feb 20	43.9	0.0		
Feb 21	41.9	0.0		
Feb 22	33.2	0.0		
Feb 23	40.7	0.0		
Feb 24	39.5	0.0		
Feb 25	32.4	0.0		
Feb 26	37.2	0.0		
Feb 27	40.7	0.0		
Feb 28	28.4	0.0		

AVG 33.3 0.0

MARCH				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI*DEG F	
Mar 1	29.9	0.0		
Mar 2	32.0	0.0		
Mar 3	33.9	0.0		
Mar 4	26.4	0.0		
Mar 5	20.1	0.6		
Mar 6	28.6	0.0		
Mar 7	28.3	0.0		
Mar 8	28.2	0.0		
Mar 9	37.0	6.1		
Mar 10	36.8	6.3		
Mar 11	36.2	0.0		
Mar 12	45.6	0.0		
Mar 13	55.3	0.0		
Mar 14	62.9	0.0		
Mar 15	61.7	0.0		
Mar 16	53.4	0.0		
Mar 17	46.4	0.0		
Mar 18	46.3	0.0		
Mar 19	56.5	0.4		
Mar 20	58.0	0.0		
Mar 21	69.1	0.0		
Mar 22	57.7	0.0		
Mar 23	71.5	0.0		
Mar 24	47.9	0.0		
Mar 25	45.7	0.0		
Mar 26	69.3	0.0		
Mar 27	68.5	7.6		
Mar 28	60.0	7.7		
Mar 29	58.7	8.4		
Mar 30	59.5	3.6		
Mar 31	55.6	1.6		

AVG 48.0 1.4

*Data Unavailable

TABLE 94

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

LOWER MONUMENTAL PROJECT
APRIL 2007

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Apr 1	0			0				171	57	0		37.2	0.0	3.5	46.8
Apr 2	0			0				178	66	0		59.3	0.0	3.5	46.7
Apr 3	0			0				102	31	0		44.1	20.3	3.5	46.5
Apr 4	0			0				116	40	0		38.9	21.5	3.5	46.7
Apr 5	1			0				129	33	0		36.4	23.3	4.0	46.9
Apr 6	0			0				197	50	0		32.6	19.1	4.0	47.0
Apr 7	-2			0				139	39	0		34.8	22.5	4.0	47.3
Apr 8	0			0				106	25	0		38.6	26.4	4.0	47.8
Apr 9	1			0				90	13	0		47.0	26.2	2.5	48.1
Apr 10	0			0				79	28	0		52.4	26.4	2.5	47.9
Apr 11	0			0				130	44	0		47.6	23.6	3.0	47.8
Apr 12	0			0				114	41	0		49.2	26.6	3.0	48.1
Apr 13	2			0				136	65	0		49.9	26.8	3.0	48.5
Apr 14	0			2				77	27	0		47.5	23.2	3.0	49.0
Apr 15	0			0				31	14	0		44.3	29.6	3.0	49.2
Apr 16	0			0				49	18	0		49.2	29.6	3.0	49.1
Apr 17	1			0				58	26	0		51.1	28.2	3.0	49.3
Apr 18	6			0				27	16	0		40.9	24.2	3.0	49.8
Apr 19	5			0				24	10	0		48.2	25.5	3.0	50.5
Apr 20	6			0				33	15	0		44.0	25.1	3.0	51.2
Apr 21	24			2				26	10	0		49.9	23.4	3.0	51.1
Apr 22	22			1				14	8	0		39.3	23.4	3.0	50.8
Apr 23	22			0				10	5	1		41.7	23.4	4.0	50.9
Apr 24	40			0				34	17	0		47.2	23.4	4.0	50.8
Apr 25	36			0				14	4	0		44.8	21.8	4.0	51.2
Apr 26	210			1				17	11	0		51.0	21.4	4.0	51.1
Apr 27	377			4				20	9	0		54.7	20.3	4.0	51.1
Apr 28	495			8				21	10	0		53.4	18.7	4.0	51.2
Apr 29	398			5				15	10	0		60.6	18.7	4.0	51.5
Apr 30	469			7				17	6	0		71.3	17.2	4.0	51.6
TOTAL	2,113			30				2,174	748	1					
AVG.	70			1				72	25	0		46.9	22.0	3.4	49.2

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 2007

FISH COUNTS										RIVER CONDITIONS							
DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY			
	SPRING	SUMMER	FALL											SECCHI	DEG F		
May 1	526			4				20	15		0	85.7	15.2	3.5	51.6		
May 2	566			21				9	6		0	83.7	17.5	3.5	51.9		
May 3	751			43				11	11		0	92.1	16.0	3.5	52.3		
May 4	1,056			51				14	9		0	86.4	21.4	3.5	52.3		
May 5	1,117			71				8	6		0	81.3	21.4	3.5	52.6		
May 6	1,230			82				6	3		0	69.3	21.4	3.5	53.1		
May 7	967			95				8	2		0	65.9	22.8	3.5	53.4		
May 8	1,231			149				10	2		0	63.7	23.2	3.5	53.7		
May 9	931			140				2	1		0	66.2	20.2	3.5	53.8		
May 10	844			181				4	2		2	77.9	18.6	4.0	53.6		
May 11	825			261				3	0		0	92.4	18.6	4.0	53.1		
May 12	672			216				1	1		0	94.6	17.1	4.0	52.8		
May 13	644			237				5	1		0	95.3	14.7	4.0	52.8		
May 14	731			283				2	2		0	98.4	16.1	4.0	52.6		
May 15	1,001			499				3	1		1	93.7	20.3	4.0	54.0		
May 16	1,042			367				5	5		0	87.7	21.6	4.0	55.6		
May 17	995			342				2	1		0	80.7	21.4	4.0	56.1		
May 18	678			429				5	5		0	92.6	22.1	4.0	55.9		
May 19	454			300				1	0		0	87.9	21.7	4.0	55.9		
May 20	426			334				2	1		0	85.8	23.3	4.0	55.6		
May 21	424			185				0	0		0	85.9	22.7	4.0	55.1		
May 22	383			336				1	1		0	83.7	22.5	4.0	55.1		
May 23	412			268				0	0		0	72.8	23.1	4.0	55.5		
May 24	410			280				1	0		2	69.5	22.8	3.2	56.1		
May 25	594			131				2	1		0	72.0	22.6	3.2	56.8		
May 26	551			114				1	0		0	64.4	22.7	3.2	56.9		
May 27	351			101				3	1		0	53.3	21.6	3.2	57.0		
May 28	621			100				1	1		0	57.7	20.9	3.5	57.1		
May 29	406			91				1	0		0	61.6	21.5	4.0	56.6		
May 30	263			82				5	0		0	56.8	21.2	4.0	55.7		
May 31	287			95				7	1		0	56.0	23.0	4.0	55.5		
TOTAL	21,389			5,888				143	79		5						
AVG.	690			190				5	3		0	77.9	20.6	3.7	54.5		
RUN YEAR																	
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK					WILD STEELHEAD	BULL TROUT	LAMPREY							
SPRING		23,502	5,918					2,317	827	1	5						

TABLE 96

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

LOWER MONUMENTAL PROJECT
JUNE 2007

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	RIVER CONDITIONS			
	SPRING	SUMMER	FALL									DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jun 1	258			119			0	6	2	0	0	50.6	22.4	4.5	55.8
Jun 2	288			107			0	2	1	0	0	53.8	22.5	4.5	56.3
Jun 3	256			102			0	13	6	0	0	52.6	22.0	4.5	57.3
Jun 4	252			118			0	10	7	0	0	55.1	22.5	4.5	57.8
Jun 5	341			83			0	10	2	0	0	54.4	21.8	4.5	58.8
Jun 6	403			57			0	9	1	0	0	53.0	22.5	4.5	59.0
Jun 7	549			88			0	21	3	0	1	58.1	22.2	4.5	58.0
Jun 8	420			97			0	10	1	0	0	51.4	23.2	4.0	57.9
Jun 9	259			29			0	11	1	0	0	51.2	22.6	4.0	58.7
Jun 10	292			66			0	12	1	0	0	51.7	23.2	4.5	59.8
Jun 11	502			86			0	16	0	0	0	51.1	22.2	4.5	60.4
Jun 12	553			95			0	5	0	0	0	63.8	23.2	4.5	60.7
Jun 13	178			46			0	13	0	0	0	55.4	22.5	4.0	61.2
Jun 14		418		109			0	16	1	0	1	52.3	24.0	4.0	61.5
Jun 15		366		70			0	7	0	1	2	47.7	22.6	4.5	61.3
Jun 16		367		65			1	17	2	0	0	42.5	22.9	4.5	60.2
Jun 17		404		63			0	29	0	0	0	45.2	22.0	4.5	60.5
Jun 18		354		45			1	48	9	1	1	39.4	23.1	4.5	60.4
Jun 19		418		52			0	15	1	0	1	35.0	22.3	4.5	59.8
Jun 20		437		54			0	22	2	0	0	43.1	23.0	4.5	59.8
Jun 21		356		53			1	38	5	0	0	33.4	16.5	4.5	59.7
Jun 22		644		104			0	56	2	0	0	44.8	17.1	4.5	60.2
Jun 23		340		70			0	47	4	0	1	38.0	16.6	4.5	61.6
Jun 24		264		65			1	43	4	0	0	33.9	17.1	4.5	61.4
Jun 25		363		60			0	54	0	0	0	34.4	16.3	4.3	61.8
Jun 26		406		27			2	73	7	0	0	28.8	15.9	4.5	62.2
Jun 27		335		18			1	76	6	0	0	29.7	16.6	4.5	62.6
Jun 28		356		11			2	64	10	0	0	32.9	17.1	4.5	62.5
Jun 29		398		26			1	89	6	0	0	35.8	16.6	4.5	63.0
Jun 30		435		24			0	82	11	0	0	33.6	17.1	4.5	64.3
TOTAL	4,551	6,661		2,009			10	914	95	2	7				
AVG.	350	392		67			0	30	3	0	0	45.1	20.7	4.4	60.2

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	28,053	7,011
SUMMER	6,661	916
TOTAL	34,714	7,927

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
10	3,231	922	3	12

TABLE 97

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

LOWER MONUMENTAL PROJECT
JULY 2007

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	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	TURBIDITY DEG F
Jul 1		246		33			5	66	6	1	0	33.7	16.9	4.5	64.7
Jul 2		165		15			1	78	6	0	0	29.6	17.1	4.5	64.3
Jul 3		198		40			2	101	9	0	1	33.5	17.0	4.5	65.0
Jul 4		240		18			0	86	12	0	1	31.5	17.1	4.5	66.1
Jul 5		177		40			1	63	4	0	0	32.6	16.8	4.5	66.3
Jul 6		335		66			2	175	18	0	0	34.4	17.1	4.5	66.3
Jul 7		272		28			2	147	15	0	0	33.8	16.4	4.5	66.6
Jul 8		247		22			7	164	28	0	0	39.3	17.2	4.5	67.3
Jul 9		209		23			2	176	37	0	0	37.5	16.8	4.5	67.9
Jul 10		144		8			1	164	41	0	1	37.0	17.1	4.5	68.2
Jul 11		179		9			1	149	42	0	1	33.4	16.8	4.5	69.0
Jul 12		220		12			3	193	41	0	3	34.6	17.1	4.5	69.7
Jul 13		233		25			0	274	49	0	0	32.8	16.5	4.5	69.7
Jul 14		188		23			0	330	70	0	1	32.4	17.1	4.5	69.7
Jul 15		152		25			1	306	50	0	1	34.4	16.5	4.5	69.4
Jul 16		192		16			2	338	48	0	1	33.2	17.1	4.5	69.6
Jul 17		78		13			1	239	46	0	2	29.1	16.8	4.5	69.6
Jul 18		89		13			0	243	65	0	1	29.8	17.1	4.5	69.2
Jul 19		120		30			0	280	43	0	0	27.4	15.1	4.5	69.2
Jul 20		91		6			0	194	42	0	1	29.8	16.1	4.5	70.1
Jul 21		188		6			0	304	63	0	1	30.3	15.0	4.5	69.5
Jul 22		112		2			0	127	14	0	2	25.2	12.9	4.5	69.3
Jul 23		109		3			0	164	25	0	6	25.1	12.8	4.5	69.2
Jul 24		95		10			0	151	30	0	1	27.7	15.5	4.5	69.2
Jul 25		66		12			0	94	29	0	1	25.3	13.2	4.5	70.5
Jul 26		63		2			0	120	27	0	0	24.4	11.8	4.5	70.3
Jul 27		84		7			0	226	44	0	0	29.4	13.6	4.5	69.5
Jul 28		65		11			0	141	22	0	4	28.3	14.7	4.5	69.6
Jul 29		48		8			0	170	34	0	3	25.8	13.6	4.5	69.8
Jul 30		56		5			1	254	75	0	3	29.4	16.9	4.5	70.0
Jul 31		40		6			0	218	50	0	0	25.5	13.3	4.5	70.3
TOTAL		4,701		537			32	5,735	1,085	1	35				
AVG.		152		17			1	185	35	0	1	30.8	15.8	4.5	68.6

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	28,053	7,011
SUMMER	11,362	1,453
TOTAL	39,415	8,464

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
42	8,966	2,007	4	47

Note: Bull trout siting on July 1 occurred during break.

TABLE 98

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

LOWER MONUMENTAL PROJECT
AUGUST 2007

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Aug 1		34		1	0		0	174	42		2	28.5	18.9	4.5	69.9
Aug 2		36		2	0		0	187	58		1	29.8	16.6	4.5	69.7
Aug 3		35		15	0		0	393	97		2	24.4	12.2	4.5	69.6
Aug 4		55		11	0		0	273	50		5	25.4	13.1	4.5	70.1
Aug 5		38		7	0		0	187	37		1	25.2	13.0	4.5	70.8
Aug 6		25		7	0		1	218	40		3	24.4	11.9	4.5	70.0
Aug 7		29		5	0		0	188	42		2	24.0	11.8	4.5	69.4
Aug 8		45		4	0		0	207	34		0	23.7	11.4	4.5	70.2
Aug 9		51		3	0		0	237	63		1	26.5	14.3	4.5	70.8
Aug 10		35		1	0		0	339	79		4	26.4	14.2	4.5	70.3
Aug 11		39		1	0		0	250	63		1	26.4	14.2	4.5	70.4
Aug 12		22		6	0		0	245	47		1	23.4	11.3	4.5	69.6
Aug 13		30		10	0		0	207	45		0	25.4	13.2	4.5	69.6
Aug 14			34	2	0		0	266	57		9	23.5	10.5	4.5	70.1
Aug 15			23	0	0		0	121	28		0	22.3	10.1	4.5	69.8
Aug 16			41	9	0		0	371	58		1	24.3	12.2	4.5	69.2
Aug 17			34	6	0		1	358	86		2	21.9	9.7	4.5	69.0
Aug 18			34	4	0		-1	294	54		3	21.8	9.8	4.5	69.2
Aug 19			9	0	0		0	81	14		7	18.8	6.6	4.5	68.9
Aug 20			14	4	0		0	102	24		3	21.9	8.7	4.5	68.3
Aug 21			92	7	0		0	266	56		1	24.0	11.8	4.5	68.5
Aug 22			55	11	0		0	237	66		4	21.8	9.5	4.5	68.4
Aug 23			81	11	1		0	353	108		4	17.1	5.0	4.5	67.5
Aug 24			88	7	0		0	293	68		2	23.5	11.5	4.5	67.8
Aug 25			100	10	0		0	434	85		1	20.8	8.8	4.5	67.8
Aug 26			84	12	0		0	433	65		0	22.0	9.9	4.0	67.7
Aug 27			61	12	0		0	304	69		4	22.2	10.2	4.0	68.0
Aug 28			51	14	0		0	464	94		5	22.4	10.3	4.0	68.3
Aug 29			62	7	1		0	363	88		0	20.5	8.4	4.0	68.0
Aug 30			60	10	0		0	310	79		2	18.8	6.6	4.0	67.3
Aug 31			189	19	6		0	502	123		1	20.4	8.3	4.0	67.2
TOTAL		474	1,112	218	8		1	8,657	1,919		72				
AVG.		36	62	7	0		0	279	62		2	23.3	11.1	4.4	69.1

RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK
SPRING	28,053	7,011
SUMMER	11,836	1,526
FALL	1,112	145
TOTAL	41,001	8,682

COHO ADULT
8

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
43	17,623	3,926	4	119

TABLE 99

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

LOWER MONUMENTAL PROJECT
SEPTEMBER 2007

DATE	FISH COUNTS					SOCKEYE	TOTAL		WILD	BULL	LAMPREY	RIVER CONDITIONS			
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT		COHO JACK	STEELHEAD				STEELHEAD	TROUT	DISCH KCFS	SPILL KCFS
Sep 1			88	22	6	0		1,114	247		2	16.4	0.1	4.0	67.6
Sep 2			177	21	1	0		533	128		1	20.9	0.0	5.0	68.0
Sep 3			120	19	1	0		655	138		0	21.0	0.0	5.0	67.9
Sep 4			174	28	1	0		820	144		1	19.3	0.0	5.0	67.6
Sep 5			340	60	6	0		1,203	225		1	18.3	0.0	5.0	67.1
Sep 6			420	113	0	0		1,175	240		0	20.8	0.0	5.0	67.4
Sep 7			451	166	0	0		1,516	325		0	15.0	0.0	5.0	67.7
Sep 8			439	150	1	0		1,627	383		1	25.8	0.5	5.0	67.6
Sep 9			365	104	1	1		1,575	365		1	14.4	0.0	5.0	68.1
Sep 10			235	90	0	1		1,559	359		1	22.3	0.0	5.0	67.9
Sep 11			211	126	3	0		1,359	288		0	23.7	0.9	5.0	67.3
Sep 12			416	129	8	0		1,282	260		1	24.8	0.0	5.0	66.5
Sep 13			333	150	0	1		1,159	252		2	17.3	0.0	5.0	67.0
Sep 14			317	220	0	1		1,189	251		1	17.2	0.0	5.0	66.9
Sep 15			620	273	7	2		1,451	285		0	18.5	0.0	5.0	66.4
Sep 16			775	376	15	1		3,765	771		0	17.6	0.0	5.0	66.2
Sep 17			687	262	24	2		5,266	985		0	17.4	0.0	5.0	66.2
Sep 18			411	256	14	3		3,527	777		2	16.4	0.0	5.0	66.1
Sep 19			673	300	13	1		4,055	878		-1	16.0	0.0	5.0	65.9
Sep 20			472	434	16	2		4,958	1,107		0	16.8	0.0	5.0	65.8
Sep 21			444	184	22	2		3,649	735		0	15.4	0.0	5.0	65.4
Sep 22			363	159	27	1		2,578	598		1	15.1	0.0	5.0	65.2
Sep 23			244	218	48	2		3,570	780		1	15.6	0.0	5.0	64.8
Sep 24			277	132	35	2		2,777	532		0	20.6	0.0	5.0	64.5
Sep 25			300	114	29	1		3,458	730		0	18.9	0.0	5.0	64.2
Sep 26			462	194	52	3		4,853	936		0	16.0	0.0	5.0	64.0
Sep 27			334	133	34	0		4,111	836		0	14.0	0.0	4.5	64.0
Sep 28			647	399	42	9		4,369	893		0	13.1	0.0	4.5	64.0
Sep 29			594	490	48	8		3,971	863		0	13.5	0.0	4.0	63.0
Sep 30			405	291	54	7		4,488	1,013		0	17.6	0.0	4.0	63.0
TOTAL			11,794	5,613	508	50		77,612	16,324		15				
AVG.			393	187	17	2		2,587	544		1	18.0	0.1	4.9	66.1

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	28,053	7,011
SUMMER	11,836	1,526
FALL	12,906	5,758
TOTAL	52,795	14,295

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
516	50	43	95,235	20,250	4	134

TABLE 100

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

LOWER MONUMENTAL PROJECT
OCTOBER 2007

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT		CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F	
	SPRING	SUMMER	FALL												
Oct 1			341	330	45	5	0	3,478	784		2	17.9	0.0	4.0	63.0
Oct 2			547	462	69	9	0	5,112	1,101		1	20.8	1.4	4.0	62.0
Oct 3			322	226	59	2	0	4,321	931		0	19.2	0.0	4.0	62.0
Oct 4			239	153	43	4	0	2,566	571		0	19.2	3.5	4.0	62.0
Oct 5			178	175	70	5	0	3,461	732		0	16.0	0.0	4.0	62.0
Oct 6			244	198	70	4	0	3,515	775		1	20.3	0.0	4.0	62.0
Oct 7			160	164	81	4	0	3,791	815		0	18.5	0.0	4.0	61.0
Oct 8			131	119	102	4	0	2,800	571		0	19.1	0.0	4.0	61.0
Oct 9			112	109	63	1	0	2,044	416		0	21.9	0.0	4.0	61.0
Oct 10			61	103	110	4	0	2,102	452		0	22.1	0.0	4.0	60.0
Oct 11			68	89	107	3	1	2,613	506		1	25.8	0.0	4.0	60.0
Oct 12			72	82	137	8	0	3,033	650		0	16.5	0.0	4.0	60.0
Oct 13			38	38	67	7	0	1,525	335		-1	20.1	0.0	4.0	60.0
Oct 14			52	73	66	6	0	1,441	316		0	18.2	0.0	4.0	60.0
Oct 15			64	41	44	1	0	876	217		0	18.0	0.0	4.0	60.0
Oct 16			47	27	65	7	0	1,409	289		0	14.7	0.0	4.0	60.0
Oct 17			62	57	26	0	0	1,069	259		0	18.9	0.0	4.0	60.0
Oct 18			58	68	39	0	0	1,308	262		0	19.8	0.0	4.0	58.0
Oct 19			75	101	33	2	0	1,989	438		0	13.1	0.0	4.0	58.0
Oct 20			52	114	30	5	0	1,532	379		0	15.6	0.0	4.0	58.0
Oct 21			37	60	16	2	0	967	252		0	21.0	0.0	4.0	57.0
Oct 22			23	34	16	1	0	847	217		0	24.8	0.0	4.0	57.0
Oct 23			21	43	18	1	0	664	147		0	24.4	0.0	4.0	57.0
Oct 24			27	34	16	1	0	459	99		0	19.5	0.0	4.0	57.0
Oct 25			28	45	32	2	0	1,290	338		0	21.4	0.0	4.0	57.0
Oct 26			15	24	25	-1	0	835	203		0	24.1	0.0	4.0	57.0
Oct 27			20	26	43	0	0	909	223		0	16.7	0.0	4.0	57.0
Oct 28			18	28	35	0	0	987	267		0	12.8	0.0	4.0	56.0
Oct 29			17	23	23	1	0	688	158		0	20.3	0.0	4.0	56.0
Oct 30			16	15	12	1	0	671	152		0	19.2	0.0	4.0	56.0
Oct 31			22	15	14	0	0	567	131		0	16.8	2.7	4.0	56.0
TOTAL			3,167	3,076	1,576	89	1	58,869	12,986		4				

AVG.			102	99	51	3	0	1,899	419		0	19.2	0.2	4.0	59.1
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	28,053	7,011
SUMMER	11,836	1,526
FALL	16,073	8,834
TOTAL	55,962	17,371

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
2,092	139	44	154,104	33,236	4	138

TABLE 101

DISCHARGE AND WATER QUALITY DATA

LOWER MONUMENTAL PROJECT 2007

NOVEMBER					DECEMBER				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY		DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F				SECCHI	DEG F
Nov 1	16.6	0.0	4.0	55.0	Dec 1	17.4	0.0	4.0	46.0
Nov 2	18.8	0.0	3.5	55.0	Dec 2	17.0	0.0	3.0	45.0
Nov 3	15.7	0.0	3.5	55.0	Dec 3	19.4	0.0	3.0	45.0
Nov 4	15.8	0.0	3.5	55.0	Dec 4	21.3	0.0	3.0	45.0
Nov 5	19.7	0.0	4.0	55.0	Dec 5	32.2	0.0	3.0	45.0
Nov 6	12.6	0.0	4.0	54.0	Dec 6	26.7	0.0	3.0	45.0
Nov 7	18.9	0.0	4.0	53.0	Dec 7	26.3	0.0	4.0	45.0
Nov 8	18.3	0.0	4.0	53.0	Dec 8	20.6	0.0	4.0	44.0
Nov 9	17.2	0.0	4.0	53.0	Dec 9	23.8	0.0	4.0	44.0
Nov 10	17.7	0.0	4.0	53.0	Dec 10	27.9	0.0	4.0	44.0
Nov 11	17.7	0.0	4.0	53.0	Dec 11	22.2	2.3	4.0	43.0
Nov 12	18.5	0.0	4.0	53.0	Dec 12	28.3	0.0	4.0	42.0
Nov 13	16.4	0.0	4.0	53.0	Dec 13	18.9	0.0	4.0	42.0
Nov 14	15.0	0.0	4.0	53.0	Dec 14	20.7	0.0	4.0	42.0
Nov 15	15.4	0.0	4.0	52.0	Dec 15	20.1	0.0	4.0	42.0
Nov 16	18.4	0.0	4.0	52.0	Dec 16	20.7	0.0	4.0	42.0
Nov 17	19.9	0.0	4.0	52.0	Dec 17	21.8	0.0	4.0	41.0
Nov 18	24.7	0.0	4.0	51.0	Dec 18	19.0	0.0	4.0	41.0
Nov 19	26.6	0.0	3.5	51.0	Dec 19	23.2	0.0	4.0	41.0
Nov 20	28.3	0.0	3.5	51.0	Dec 20	21.6	0.0	4.0	40.0
Nov 21	25.3	0.0	4.0	50.0	Dec 21	26.0	0.0	4.0	40.0
Nov 22	24.9	0.0	4.0	50.0	Dec 22	21.5	0.0	4.0	40.0
Nov 23	21.7	0.0	4.0	50.0	Dec 23	21.0	0.0	4.0	39.0
Nov 24	20.5	0.0	4.0	48.0	Dec 24	27.4	0.0	4.0	39.0
Nov 25	19.4	0.0	4.0	48.0	Dec 25	20.5	0.0	4.0	39.0
Nov 26	26.8	0.0	4.0	48.0	Dec 26	22.0	0.0	4.0	39.0
Nov 27	16.4	0.0	4.0	47.0	Dec 27	26.9	0.0	4.0	39.0
Nov 28	16.6	0.0	4.0	47.0	Dec 28	19.7	0.0	4.0	39.0
Nov 29	19.1	0.0	4.0	47.0	Dec 29	23.1	0.0	4.0	39.0
Nov 30	20.4	0.0	4.0	46.0	Dec 30	21.5	0.0	4.0	38.0
					Dec 31	25.0	0.0	4.0	38.0
AVG.	19.4	0.0	3.9	51.4	AVG.	22.7	0.1	3.8	41.7

TABLE 102

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
LOWER MONUMENTAL DAM
1969 - 2007**

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
2007	73,333	154,104	44	2,231	229,712
Total	1,966,633	3,451,131	5,141	28,797	5,451,702
10-Year Average	87,828	154,498	56	1,238	243,619

*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
1969-2007**

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
2007				2,143	27,277	13,221	5,238	1,804	17,407	6,243			73,333
Total	2	0	60	336,345	786,256	395,168	151,529	26,659	195,946	72,499	1,487	23	1,965,974
10-Year Average				18,669	29,462	17,099	3,977	1,219	12,900	4,431			87,862

*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

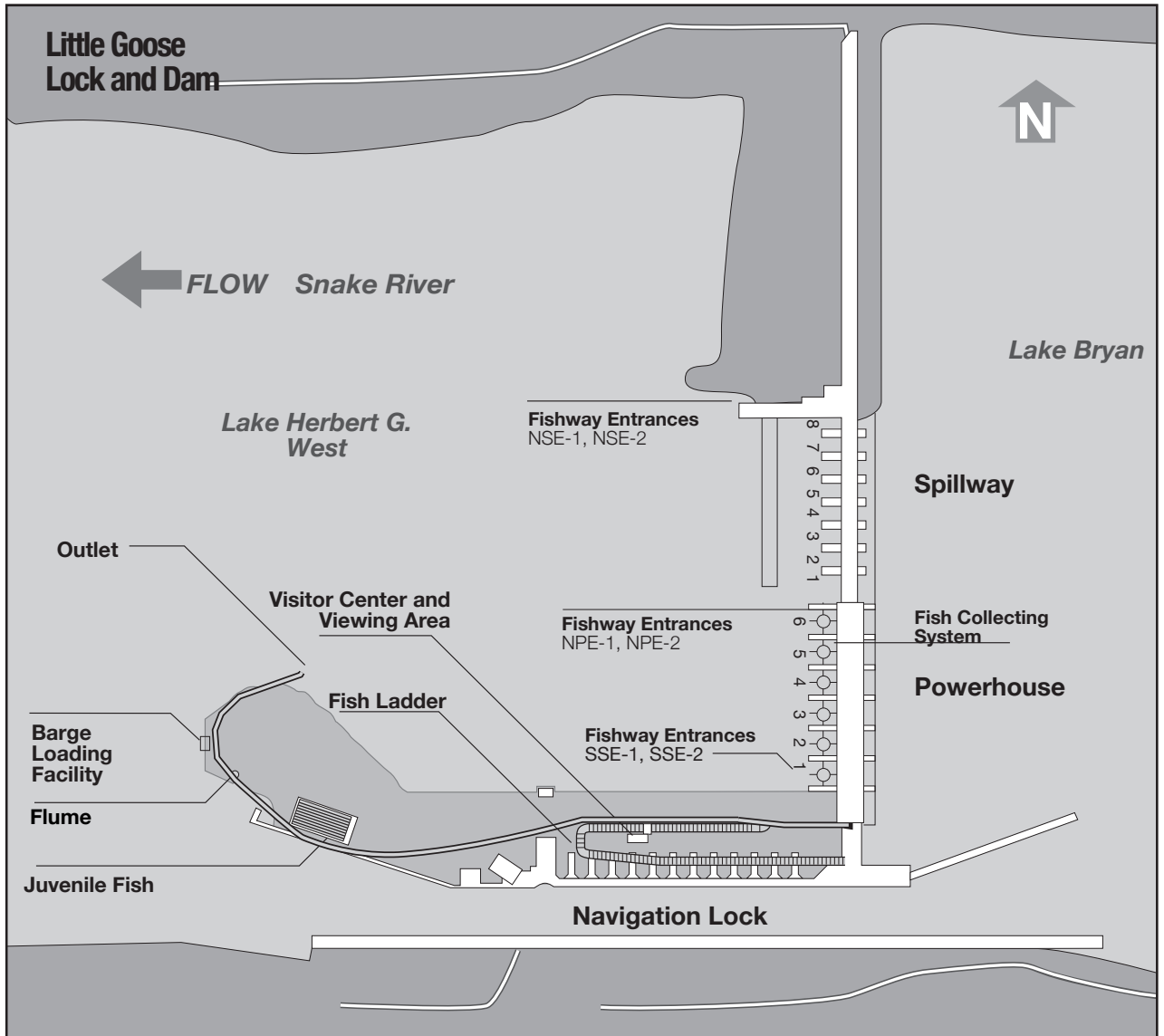
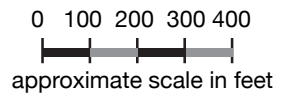
LOWER MONUMENTAL DAM
1969 - 2007

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
2007				2,174	143	914	5,735	8,657	77,612	58,869			154,104
Total	4,829	7,610	14,839	88,984	18,993	13,000	142,146	275,138	1,587,754	1,269,635	49,239	14,375	3,486,542
10-Year Average				1,857	100	874	6,920	11,033	73,594	53,885			155,972

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

Includes 2002, '03, and '04 extended season counts for January through 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 readings were recorded from 28 June to 19 Sept. The purpose is to determine if summer spill has any effects on exit pool temperatures.

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 26 March to 19 December.

TABLE 105

MONTHLY TOTALS OF SALMONIDS, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER LITTLE GOOSE DAM
2007

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				998	21,050	14,741	4,650	1,154	12,109	5,696			60,398
STEELHEAD				2,096	205	339	2,062	4,560	63,517	62,635			135,414
SOCKEYE						6	28	3					37
COHO									618	1,523			2,141
PINK													0
TOTAL				3,094	21,255	15,086	6,740	5,717	76,244	69,854			197,990
LAMPREY					-1	2	17	28	21	5			72
STURGEON							1						1
BULL TROUT					3	3							6

*Jacks included

TABLE 106

DISCHARGE AND WATER QUALITY DATA
LITTLE GOOSE PROJECT 2007

JANUARY				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI *DEG F	
Jan 1	28.2	0.0		
Jan 2	30.4	0.0		
Jan 3	26.7	0.0		
Jan 4	26.0	0.0		
Jan 5	34.0	0.0		
Jan 6	26.8	0.0		
Jan 7	33.6	0.0		
Jan 8	26.4	0.0		
Jan 9	39.9	0.0		
Jan 10	27.6	0.0		
Jan 11	42.6	0.0		
Jan 12	37.2	0.0		
Jan 13	35.5	0.0		
Jan 14	36.1	0.0		
Jan 15	33.1	0.0		
Jan 16	50.8	0.0		
Jan 17	23.9	0.0		
Jan 18	33.8	0.0		
Jan 19	31.1	0.0		
Jan 20	18.3	0.0		
Jan 21	14.8	0.0		
Jan 22	33.0	0.0		
Jan 23	31.2	0.0		
Jan 24	28.4	0.0		
Jan 25	35.6	0.0		
Jan 26	21.8	0.0		
Jan 27	21.3	0.0		
Jan 28	11.5	0.0		
Jan 29	25.5	0.0		
Jan 30	17.5	0.0		
Jan 31	26.3	0.0		

AVG.

29.3	0.0
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FEBRUARY				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI *DEG F	
Feb 1	30.1	0.0		
Feb 2	28.9	0.0		
Feb 3	26.2	0.0		
Feb 4	22.4	0.0		
Feb 5	20.7	0.0		
Feb 6	17.3	0.0		
Feb 7	23.4	0.0		
Feb 8	21.0	0.0		
Feb 9	17.0	0.0		
Feb 10	26.2	0.0		
Feb 11	22.9	0.0		
Feb 12	26.6	0.0		
Feb 13	36.3	0.0		
Feb 14	29.9	0.0		
Feb 15	29.3	0.0		
Feb 16	40.9	0.0		
Feb 17	40.8	0.0		
Feb 18	33.1	0.0		
Feb 19	37.7	0.0		
Feb 20	38.8	0.0		
Feb 21	37.5	0.0		
Feb 22	29.4	0.0		
Feb 23	37.0	0.0		
Feb 24	34.8	0.0		
Feb 25	29.9	0.0		
Feb 26	32.9	0.0		
Feb 27	36.5	0.0		
Feb 28	25.7	0.0		

AVG.

29.8	0.0
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MARCH				
DATE	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI DEG F	
Mar 1	26.5	0.0		*
Mar 2	29.9	0.5		*
Mar 3	29.8	1.8		*
Mar 4	20.2	2.0		*
Mar 5	22.1	2.1		*
Mar 6	23.7	2.0		*
Mar 7	27.8	2.0		*
Mar 8	27.2	1.5		*
Mar 9	34.1	1.9		*
Mar 10	31.9	2.2		*
Mar 11	34.0	1.7		*
Mar 12	39.9	1.6		*
Mar 13	50.3	8.2		*
Mar 14	56.9	15.2		*
Mar 15	55.2	13.7		*
Mar 16	45.9	0.0		*
Mar 17	45.6	0.0		*
Mar 18	44.3	0.0		*
Mar 19	52.7	0.4		*
Mar 20	55.2	0.0	45.6	
Mar 21	63.5	0.0	45.9	
Mar 22	55.7	0.0	45.8	
Mar 23	64.7	0.0	45.6	
Mar 24	45.3	0.0	*	
Mar 25	44.0	0.0	46.5	
Mar 26	64.2	0.0	46.5	
Mar 27	61.1	9.2	47.0	
Mar 28	56.4	7.3	46.6	
Mar 29	53.6	8.1	45.8	
Mar 30	55.7	3.1	46.1	
Mar 31	50.3	0.0	46.3	

AVG.

44.1	2.7	46.2
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*Data unavailable.

TABLE 107

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

LITTLE GOOSE PROJECT
APRIL 2007

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Apr 1	0			0				168	53			40.1	0.0	4.5	46.7
Apr 2	1			0				161	55			51.4	0.0	*	46.7
Apr 3	0			0				108	44			42.0	12.7	3.7	46.6
Apr 4	0			0				134	46			38.6	12.0	*	46.7
Apr 5	0			0				114	28			35.0	10.8	3.9	46.6
Apr 6	0			0				114	36			31.6	9.5	4.8	46.6
Apr 7	2			0				156	41			36.0	10.9	*	46.8
Apr 8	0			0				137	34			37.1	11.1	4.9	47.3
Apr 9	0			0				95	29			45.7	13.8	*	47.9
Apr 10	0			0				97	37			51.4	15.6	4.0	48.1
Apr 11	0			0				79	19			46.8	21.7	*	48.4
Apr 12	0			0				121	38			46.5	14.0	3.8	48.8
Apr 13	0			0				89	28			49.6	13.4	*	48.8
Apr 14	0			0				67	14			45.2	13.8	5.6	49.9
Apr 15	1			0				73	29			42.7	12.9	*	50.8
Apr 16	0			0				43	6			48.5	14.4	*	51.4
Apr 17	-1			0				45	14			46.7	14.2	5.7	51.9
Apr 18	1			0				56	19			42.1	12.5	4.9	51.5
Apr 19	1			0				42	24			46.7	14.0	4.8	51.1
Apr 20	6			0				34	10			45.3	13.8	3.0	50.6
Apr 21	4			0				29	13			48.4	14.5	*	50.6
Apr 22	11			2				23	12			41.5	12.5	4.2	50.3
Apr 23	12			0				17	4			42.6	12.9	*	50.5
Apr 24	16			1				9	2			45.9	13.7	5.0	51.3
Apr 25	14			0				18	8			46.0	13.5	*	51.5
Apr 26	50			0				13	5			49.8	15.1	5.4	51.7
Apr 27	120			1				13	6			53.6	16.1	5.5	51.7
Apr 28	248			4				18	8			52.7	15.9	5.5	51.6
Apr 29	274			12				12	10			59.5	20.9	5.3	51.9
Apr 30	214			4				11	6			69.9	25.7	5.3	52.4
TOTAL	974			24				2,096	678						
AVG.	32			1				70	23			46.0	13.4	4.7	49.6

*Data unavailable

TABLE 108

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

LITTLE GOOSE PROJECT
MAY 2007

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
May 1	509			1				11	6	0	0	82.8	26.9	5.6	52.9
May 2	307			5				13	6	0	0	83.2	26.6	*	52.4
May 3	516			4				18	7	-1	0	91.4	25.6	4.2	52.6
May 4	679			23				17	7	0	0	86.2	25.6	4.8	53.1
May 5	886			32				16	11	0	-1	79.3	24.8	5.0	53.2
May 6	626			47				10	10	0	0	69.6	24.1	4.0	53.2
May 7	809			67				6	4	0	0	65.7	24.3	*	53.3
May 8	828			103				7	2	0	0	63.4	25.0	5.0	52.8
May 9	596			127				3	1	0	0	64.3	24.7	*	52.8
May 10	641			86				5	4	0	0	77.0	25.1	5.4	52.8
May 11	916			184				6	1	1	0	90.9	25.7	*	52.3
May 12	539			184				7	2	0	0	90.8	24.2	4.1	52.3
May 13	946			233				25	11	0	0	95.1	22.0	*	53.3
May 14	756			203				15	1	0	0	95.7	23.8	*	54.8
May 15	466			198				12	1	0	0	90.7	25.1	4.3	55.2
May 16	271			271				7	1	1	0	87.2	25.1	*	55.5
May 17	604			385				9	4	0	0	79.6	23.8	4.8	55.8
May 18	476			287				4	2	0	0	92.6	27.1	4.1	55.5
May 19	409			292				1	1	2	0	87.2	26.1	*	55.6
May 20	226			257				2	2	0	0	85.4	25.8	*	55.1
May 21	229			272				2	2	0	0	84.6	25.4	*	55.2
May 22	299			294				1	0	0	0	83.7	25.2	4.0	55.8
May 23	206			246				1	0	0	0	71.8	21.6	5.0	56.3
May 24	371			332				2	0	0	0	70.1	21.0	4.2	56.8
May 25	96			142				1	0	0	0	72.9	21.7	*	56.6
May 26	112			154				1	0	0	0	62.5	18.7	4.7	56.2
May 27	32			88				0	0	0	0	54.6	16.4	*	55.2
May 28	73			184				1	0	0	0	57.4	17.2	3.8	55.1
May 29	145			193				2	1	0	0	59.9	18.0	*	54.5
May 30	91			124				0	0	0	0	56.7	17.0	*	55.1
May 31	2,146			226				0	0	0	0	55.4	16.6	4.8	56.0
TOTAL	15,806			5,244				205	87	3	-1				
AVG.	510			169				7	3	0	0	77.0	23.2	4.6	54.4
RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK						STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY				
SPRING	16,780	5,268						2,301	765	3	-1				

*Data unavailable

TABLE 109

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

LITTLE GOOSE PROJECT
JUNE 2007

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Jun 1	2,562			463			0	2	0	0	1	52.3	15.7	5.4	57.3
Jun 2	580			191			0	4	0	0	0	54.2	16.2	*	58.2
Jun 3	355			122			0	0	0	0	0	52.1	15.3	5.5	58.4
Jun 4	240			103			0	5	0	1	0	56.3	17.1	*	57.8
Jun 5	174			86			0	5	1	0	0	55.7	16.6	4.3	57.9
Jun 6	300			145			0	2	0	0	0	53.2	16.0	*	59.1
Jun 7	242			108			0	2	0	0	0	58.1	17.6	3.5	59.3
Jun 8	532			127			0	4	0	0	0	52.6	15.8	*	59.5
Jun 9	344			91			0	4	0	0	0	52.9	16.0	*	60.7
Jun 10	266			112			0	8	1	1	1	52.7	15.7	4.9	61.7
Jun 11	301			90			0	8	0	0	0	52.3	15.7	*	61.7
Jun 12	287			77			0	9	1	1	0	63.3	18.9	5.0	61.5
Jun 13	332			89			0	13	0	0	0	56.8	16.9	*	60.3
Jun 14	337			59			0	5	-1	0	0	53.9	16.3	4.0	59.6
Jun 15	328			96			0	2	0	0	0	48.1	14.5	*	59.2
Jun 16		379		83			0	6	1	0	0	44.4	13.3	4.9	58.7
Jun 17		344		62			0	6	2	0	-6	46.1	13.8	*	58.7
Jun 18		366		103			0	15	1	0	1	40.7	12.2	5.2	59.5
Jun 19		244		70			0	9	1	0	0	38.1	11.3	4.8	59.6
Jun 20		173		91			0	8	0	0	0	43.3	13.0	*	60.0
Jun 21		218		83			0	2	0	0	0	34.4	10.3	5.0	59.8
Jun 22		226		116			0	21	4	0	0	43.4	13.0	*	60.9
Jun 23		404		144			0	20	2	0	4	39.0	11.9	6.0	61.8
Jun 24		394		131			0	27	4	0	0	35.4	10.7	*	62.7
Jun 25		268		114			0	33	2	0	0	34.2	10.6	*	62.8
Jun 26		248		102			0	25	1	0	0	31.8	9.7	5.0	63.2
Jun 27		287		121			1	27	2	0	0	30.7	9.3	*	64.0
Jun 28		164		68			0	28	2	0	0	32.9	9.9	4.5	63.6
Jun 29		187		95			0	19	0	0	0	37.0	11.0	*	63.5
Jun 30		204		113			5	20	1	0	1	33.1	10.0	5.9	64.6

TOTAL	7,180	4,106		3,455			6	339	25	3	2				
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AVG.	479	274		115			0	11	1	0	0	46.0	13.8	4.9	60.5
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*Data unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	23,960	7,227
SUMMER	4,106	1,496
TOTALS	28,066	8,723

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
6	2,640	790	6	1

TABLE 110

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

LITTLE GOOSE PROJECT
JULY 2007

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	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jul 1		281		86			0	28	2		0	35.3	10.7	6.0	65.7
Jul 2		240		91			0	30	1		1	29.2	8.7	*	65.6
Jul 3		168		66			4	42	7		0	36.2	10.8	5.8	66.1
Jul 4		170		70			2	38	6		0	34.9	10.5	*	67.1
Jul 5		86		74			1	46	4		0	32.5	9.6	5.2	67.3
Jul 6		138		65			5	28	5		0	34.9	10.5	6.0	67.2
Jul 7		186		79			0	24	4		0	35.4	10.5	*	67.3
Jul 8		155		68			1	66	11		0	39.4	11.8	6.0	67.8
Jul 9		128		34			1	48	6		1	37.7	11.3	*	69.8
Jul 10		158		14			2	48	8		0	37.7	11.2	6.0	69.7
Jul 11		59		31			1	29	6		1	34.1	10.6	*	69.0
Jul 12		56		22			0	23	7		0	33.0	10.1	6.0	68.8
Jul 13		112		60			1	33	8		0	34.2	10.2	6.0	69.0
Jul 14		116		79			2	61	17		1	32.6	9.9	*	69.0
Jul 15		203		94			2	98	14		0	34.7	10.5	6.0	68.5
Jul 16		109		56			0	142	34		2	34.5	10.4	*	68.8
Jul 17		113		22			0	63	14		0	28.4	8.5	6.0	68.8
Jul 18		94		40			0	103	17		0	29.8	8.8	*	68.4
Jul 19		84		17			1	53	11		0	28.6	8.6	6.0	68.1
Jul 20		65		20			0	87	34		1	29.9	8.9	6.0	69.3
Jul 21		44		36			2	104	12		1	31.5	9.5	*	68.6
Jul 22		86		31			2	68	4		2	26.3	7.9	*	68.6
Jul 23		65		31			0	79	18		0	25.0	7.4	*	68.3
Jul 24		71		32			0	83	19		0	28.5	8.6	6.0	67.8
Jul 25		83		30			0	103	26		2	24.6	7.4	*	70.2
Jul 26		31		23			1	84	20		1	26.2	8.0	6.0	69.8
Jul 27		67		12			0	122	6		0	29.4	8.8	*	69.0
Jul 28		59		7			0	86	19		0	29.5	8.8	*	68.8
Jul 29		64		10			0	90	16		1	27.8	8.4	6.0	68.1
Jul 30		35		2			0	78	10		2	28.1	8.4	*	68.8
Jul 31		20		2			0	75	10		1	27.1	8.0	6.0	70.8
TOTAL		3,346		1,304			28	2,062	376		17				

AVG.	108	42	1	67	12	1	31.5	9.5	5.9	68.4
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*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
TOTALS TO DATE							
SPRING	23,960	7,227	34	4,702	1,166	6	18
SUMMER	7,452	2,800					
TOTAL	31,412	10,027					

Note: 1 sturgeon counted on July 18

TABLE 111

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

LITTLE GOOSE PROJECT
AUGUST 2007

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Aug 1		26		5			0	72	13		0	30.8	9.1	*	70.0
Aug 2		31		0			0	81	7		1	27.9	8.4	6.0	69.2
Aug 3		42		13			0	112	17		1	24.7	7.4	*	68.2
Aug 4		34		5			0	74	13		4	26.0	7.8	6.0	69.5
Aug 5		42		11			0	135	19		1	26.3	7.9	*	70.9
Aug 6		35		4			0	74	20		1	25.4	7.6	*	70.1
Aug 7		29		8			0	98	10		1	24.8	7.4	6.0	68.7
Aug 8		24		2			1	80	20		0	25.0	7.4	*	68.5
Aug 9		32		2			0	119	18		0	27.5	8.1	6.0	69.6
Aug 10		40		4			0	132	23		1	25.1	7.4	6.0	69.2
Aug 11		29		2			0	124	20		1	26.3	7.7	*	69.4
Aug 12		28		0			0	120	20		2	25.5	7.4	*	68.5
Aug 13		17		1			0	53	17		1	22.5	13.6	*	68.2
Aug 14		26		0			0	85	18		1	23.3	17.6	6.0	67.5
Aug 15		11		4			2	98	16		0	23.7	18.2	*	66.9
Aug 16			22	2			0	124	20		0	22.4	16.9	6.0	66.6
Aug 17			28	5			0	181	18		0	23.0	13.8	*	66.3
Aug 18			23	4			0	207	38		1	20.9	6.3	6.0	67.7
Aug 19			12	1			0	104	20		0	18.5	5.6	*	67.6
Aug 20			17	4			0	165	23		1	23.0	6.9	*	67.3
Aug 21			16	0			0	289	56		4	24.4	7.4	6.0	67.4
Aug 22			36	4			0	280	46		0	22.1	6.6	*	67.2
Aug 23			42	8			0	122	16		2	18.8	5.6	6.0	66.4
Aug 24			40	4			0	119	16		2	25.0	7.4	6.0	67.0
Aug 25			43	8			0	168	24		0	20.6	6.1	*	66.6
Aug 26			89	8			0	214	38		0	22.3	6.6	*	66.1
Aug 27			58	6			0	298	46		1	23.6	7.0	*	66.8
Aug 28			56	2			0	307	41		0	22.3	6.6	6.0	67.4
Aug 29			34	5			0	228	35		0	20.2	5.9	*	67.0
Aug 30			28	7			0	166	30		1	18.8	5.6	6.0	66.5
Aug 31			29	6			0	131	23		1	22.0	6.6	*	65.8
TOTAL		446	573	135			3	4,560	741		28				

AVG.	30	36	4	0	147	24	1	23.6	8.5	6.0	67.9
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*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	23,960	7,227
SUMMER	7,898	2,861
FALL	573	74
TOTALS	32,431	10,162

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
37	9,262	1,907	6	46

TABLE 112

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

LITTLE GOOSE PROJECT
SEPTEMBER 2007

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	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Sep 1			71	16	0	0		211	41		1	17.2	0.0	6.0	65.7
Sep 2			90	17	0	0		210	59		1	20.1	0.0	*	66.9
Sep 3			83	24	0	0		268	50		0	21.0	0.0	*	67.1
Sep 4			104	19	2	0		519	62		1	20.6	0.0	6.0	66.3
Sep 5			98	29	1	0		689	101		0	20.1	0.0	*	65.8
Sep 6			248	62	0	0		928	137		2	19.1	0.0	6.0	66.1
Sep 7			262	76	0	0		708	128		4	13.1	0.0	6.0	66.8
Sep 8			341	82	5	-1		786	154		5	26.4	0.0	*	66.9
Sep 9			313	110	5	4		1,160	170		1	17.2	1.8	*	67.3
Sep 10			221	86	1	1		844	168		1	23.5	1.2	*	67.2
Sep 11			113	35	6	1		898	152		0	22.7	0.0	5.6	66.8
Sep 12			112	60	2	1		805	91		1	22.9	0.0	*	66.7
Sep 13			245	102	13	4		1,049	160		1	15.6	0.3	6.0	66.3
Sep 14			236	109	11	1		926	154		1	17.3	0.0	*	66.5
Sep 15			190	145	6	1		942	122		0	18.0	1.4	6.0	66.6
Sep 16			440	280	17	0		1,504	233		1	17.0	0.0	*	66.3
Sep 17			484	343	24	5		2,514	398		0	17.1	0.0	*	66.2
Sep 18			244	192	4	0		2,275	398		1	16.0	0.0	6.0	66.1
Sep 19			394	266	14	5		4,458	805		0	16.0	0.0	6.0	66.1
Sep 20			517	314	36	8		4,403	881		0	16.0	0.0	*	66.1
Sep 21			331	232	78	42		5,106	920		0	14.9	0.0	6.0	65.9
Sep 22			241	221	10	2		3,259	596		0	16.4	0.9	*	65.8
Sep 23			197	233	16	2		3,192	553		1	15.8	0.0	*	65.2
Sep 24			164	229	28	0		3,252	594		-1	18.7	0.0	*	64.8
Sep 25			155	233	24	0		3,084	554		-1	18.9	0.0	6.0	64.5
Sep 26			186	211	98	7		3,809	636		0	15.9	0.0	*	64.1
Sep 27			206	187	32	1		3,146	536		1	14.7	0.0	6.0	*
Sep 28			269	234	30	5		4,754	847		0	13.4	0.0	*	*
Sep 29			524	413	56	2		5,716	1024		0	12.7	0.0	6.0	*
Sep 30			264	206	8	0		2,102	382		0	17.1	0.0	*	*
TOTAL			7,343	4,766	527	91		63,517	11,106		21				
AVG.			245	159	18	3		2,117	370		1	17.8	0.2	6.0	66.2

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	23,960	7,227
SUMMER	7,898	2,861
FALL	7,916	4,840
TOTALS	39,774	14,928

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
527	91	37	72,779	13,013	6	67

TABLE 113

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

LITTLE GOOSE PROJECT
OCTOBER 2007

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Oct 1			241	420	34	0		3,669	598		0	17.5	0.0	*	*
Oct 2			246	337	38	4		5,496	908		0	19.2	0.0	5.0	62.6
Oct 3			407	438	54	5		5,200	960		0	19.0	0.0	*	*
Oct 4			128	251	60	11		4,264	700		1	19.6	0.0	6.0	61.9
Oct 5			79	167	58	8		3,249	565		0	15.0	0.0	6.0	61.7
Oct 6			96	164	94	10		3,015	526		0	18.7	0.0	*	*
Oct 7			118	155	66	7		2,778	526		0	17.9	0.0	*	*
Oct 8			100	187	72	2		3,299	576		1	18.4	0.0	*	*
Oct 9			62	91	53	4		1,817	310		0	19.9	0.0	6.0	61.2
Oct 10			86	85	68	5		2,779	516		2	22.1	0.0	*	*
Oct 11			106	98	97	1		3,036	560		0	25.2	0.0	6.0	60.5
Oct 12			72	64	100	5		2,116	359		0	16.1	0.0	*	*
Oct 13			32	62	161	12		2,591	462		0	18.8	0.0	6.0	60.2
Oct 14			35	35	110	6		2,400	378		0	16.6	0.0	*	*
Oct 15			36	49	58	1		1,365	235		0	16.6	0.0	*	*
Oct 16			49	46	40	0		1,253	187		0	15.5	0.0	6.0	60.2
Oct 17			41	41	34	1		1,116	160		0	17.8	0.0	*	*
Oct 18			24	25	29	0		752	120		0	18.6	0.0	6.0	59.5
Oct 19			68	66	35	0		1,493	288		0	13.6	0.0	6.0	59.4
Oct 20			73	36	18	0		1,594	292		1	15.8	0.0	*	*
Oct 21			61	35	20	1		1,495	254		0	19.6	0.0	*	*
Oct 22			34	17	8	1		864	160		0	23.9	0.0	*	*
Oct 23			41	43	7	0		915	140		0	21.6	0.0	*	*
Oct 24			61	94	5	1		668	120		0	17.6	0.0	6.0	58.0
Oct 25			53	24	2	1		814	143		0	19.7	0.0	6.0	57.2
Oct 26			36	26	22	0		619	95		0	24.0	0.0	*	*
Oct 27			42	40	18	0		1,042	180		0	16.6	0.0	6.0	56.7
Oct 28			31	32	24	0		1,019	187		0	12.8	0.0	*	*
Oct 29			19	24	18	1		563	107		0	18.8	0.0	*	*
Oct 30			11	17	25	0		874	188		0	18.2	0.0	6.0	56.0
Oct 31			16	23	8	0		480	92		0	17.3	0.0	*	*
TOTAL			2,504	3,192	1,436	87		62,635	10,892		5				

AVG.			81	103	46	3		2,020	351		0	18.5	0.0	5.9	59.6
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*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
TOTALS TO DATE									
SPRING	23,960	7,227	1,963	178	37	135,414	23,905	6	72
SUMMER	7,898	2,861							
FALL	10,420	8,032							
TOTALS	42,278	18,120							

TABLE 114

DISCHARGE AND WATER QUALITY DATA

LITTLE GOOSE PROJECT 2007

NOVEMBER					DECEMBER				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY		DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F				SECCHI	DEG F
Nov 1	17.8	0.0	*	*	Dec 1	16.8	0.0	*	*
Nov 2	18.2	0.0	*	*	Dec 2	15.9	0.0	*	*
Nov 3	15.7	0.0	6.0	*	Dec 3	18.1	0.0	6.0	44.5
Nov 4	15.4	0.0	*	*	Dec 4	21.0	0.0	*	*
Nov 5	18.4	0.0	6.0	54.7	Dec 5	30.9	0.0	*	*
Nov 6	13.2	0.0	*	*	Dec 6	24.7	0.0	6.0	44.2
Nov 7	17.4	0.0	*	*	Dec 7	24.2	0.0	6.0	44.1
Nov 8	16.8	0.0	6.0	53.9	Dec 8	19.3	0.0	*	*
Nov 9	16.4	0.0	*	*	Dec 9	21.6	0.0	*	*
Nov 10	17.5	0.0	*	*	Dec 10	25.5	0.0	6.0	43.3
Nov 11	16.4	0.0	*	*	Dec 11	22.3	0.0	6.0	42.8
Nov 12	16.8	0.0	*	*	Dec 12	28.2	0.0	*	*
Nov 13	16.5	0.0	6.0	52.4	Dec 13	17.9	0.0	*	*
Nov 14	14.4	0.0	6.0	51.8	Dec 14	18.9	0.0	*	*
Nov 15	15.3	0.0	6.0	51.5	Dec 15	18.8	0.0	*	*
Nov 16	17.8	0.0	*	*	Dec 16	21.7	0.0	*	*
Nov 17	18.6	0.0	*	*	Dec 17	21.8	0.0	*	*
Nov 18	24.2	0.0	6.0	50.6	Dec 18	18.3	0.0	6.0	40.1
Nov 19	23.6	0.0	*	*	Dec 19	20.4	0.0	6.0	40.0
Nov 20	26.9	0.0	6.0	49.6	Dec 20	21.8	0.0	6.0	40.0
Nov 21	25.1	0.0	6.0	49.0	Dec 21	24.9	0.0	*	*
Nov 22	22.6	0.0	*	*	Dec 22	19.6	0.0	*	*
Nov 23	20.7	0.0	*	*	Dec 23	18.4	0.0	*	*
Nov 24	18.7	0.0	*	*	Dec 24	22.8	0.0	*	*
Nov 25	20.2	0.0	*	*	Dec 25	19.0	0.0	*	*
Nov 26	23.5	0.0	5.3	46.8	Dec 26	18.9	0.0	6.0	40.1
Nov 27	16.3	0.0	*	*	Dec 27	25.9	0.0	6.0	39.9
Nov 28	17.2	0.0	6.0	45.9	Dec 28	17.8	0.0	*	*
Nov 29	17.8	0.0	6.0	45.7	Dec 29	21.0	0.0	*	*
Nov 30	19.7	0.0	*	*	Dec 30	19.5	0.0	*	*
					Dec 31	22.1	0.0	6.0	38.9
AVG.	18.6	0.0	5.9	50.2	AVG.	21.2	0.0	6.0	41.6

*Data Unavailable

TABLE 115

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
LITTLE GOOSE DAM
1970 - 1981, 1991 - 2007**

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
2007	60,398	135,414	37	2,141	197,990
Total	1,450,509	2,430,394	4,414	20,805	3,906,122
10-Yr Avg	80,118	142,246	61	1,026	223,450

*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, 1991-2007

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	
2007				998	21,050	14,741	4,650	1,154	12,109	5,696			60,398	
Total				3	231,130	582,994	313,555	127,175	16,666	127,533	50,137	1,732	28	1,450,953
10-Year Average				16,275	28,014	16,625	4,218	821	10,064	4,029			80,162	

**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.

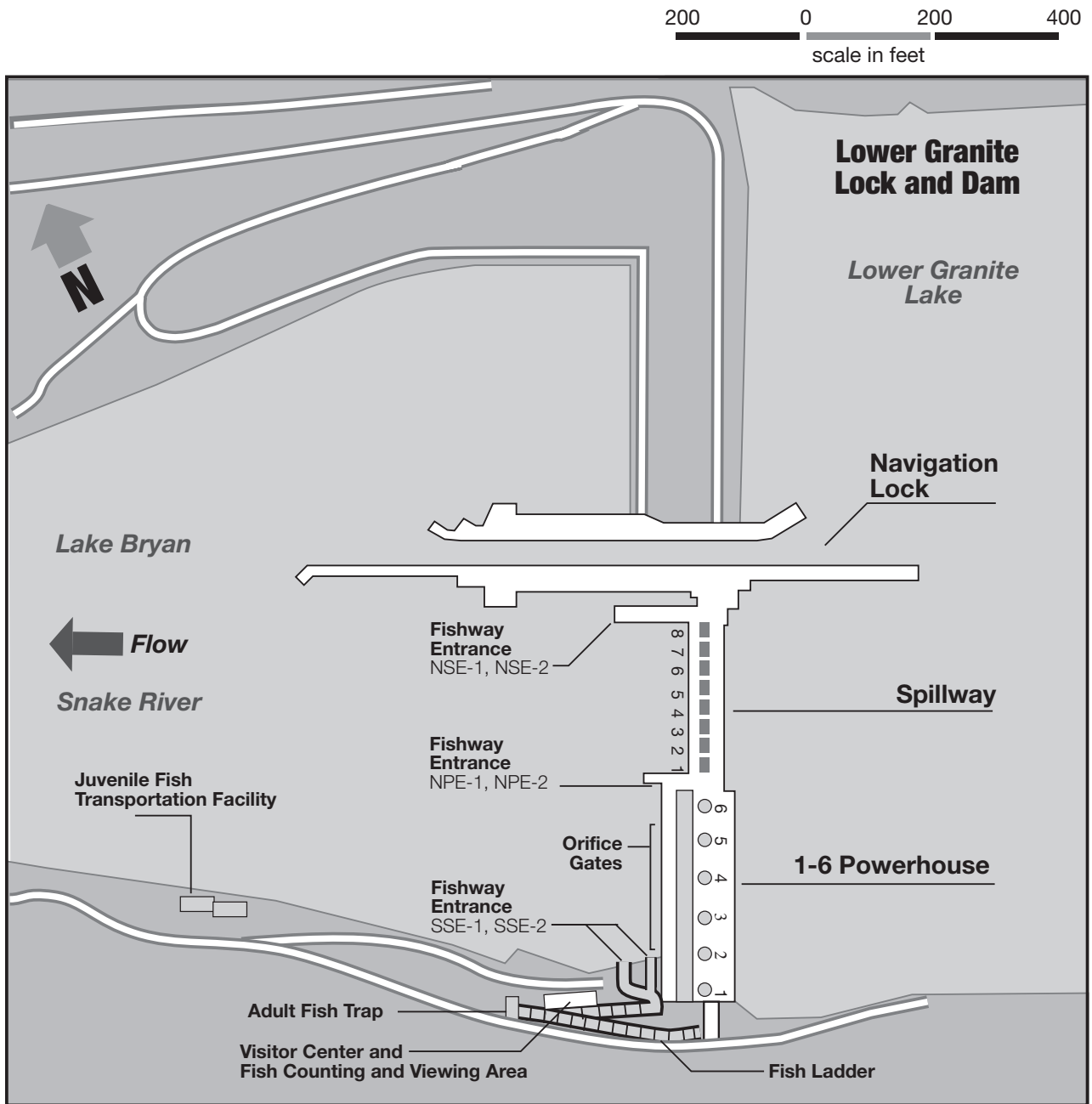
Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST and November and December 0600-1600 PST.

TABLE 117
**MONTHLY COUNT OF STEELHEAD
 LITTLE GOOSE DAM**
 1970 - 1981, 1991 - 2007

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
2007				2,096	205	339	2,062	4,560	63,517	62,635			135,414
Total	1,084	5,065	19,305	49,314	10,420	6,522	61,901	150,809	1,041,102	1,018,009	68,316	13,704	2,445,551
10-Year Average				2,067	142	462	3,535	7,646	64,500	58,940			143,763

** 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 – 3 Jan	Ladder in service
4 Jan – 25 Feb	Ladder dewatered for annual maintenance.
26 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 23 June to 30 September.

Adult fish trap was operated from 2 March through 20 November whenever water temperatures allowed. The trap was shut down due to high water temperatures on 23 July and remained out of service through 31 August. The trap was used for the following programs and studies: 1) monitoring of steelhead from 1 March to 30 April at a 13% sample rate and taking scales for hatchery/wild determination; 2) monitoring spring and summer Chinook salmon at a 10% sample rate from 1 May to 23 July for gill net marks, marine mammal scars, tags, age, hatchery/wild determination, and genetics; 3) examination of adult American shad during the early, middle, and late part of the runs (June – July) to determine run composition; 4) monitoring fall Chinook salmon and steelhead at a 20% sample rate from 1 September to 21 November including: trucking supplementation fall Chinook salmon brood stock to Lyons Ferry and Cherry Lane Hatcheries, examining steelhead for run determination and condition, taking scale samples from one of every six steelhead, and radio-tagging of unclipped B-Run steelhead greater than 77 cm in length by group (with and without v.i.e.tags) for the USFWS at Dworshak.

The juvenile fish facility was operated for fish transport/bypass from 25 March to 31 October and for monitoring of adult fallback from 25 March to 31 December due to navlock problems preventing removal of all fish screens.

TABLE 118

**MONTHLY TOTALS OF SALMONIDS, SHAD, LAMPREY, STURGEON, AND BULL TROUT COUNTED OVER LOWER GRANITE DAM
2007**

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*			1	531	19,516	16,994	4,921	1,200	12,720	6,428	217	2	62,530
STEELHEAD			6,894	3,477	211	271	1,504	3,792	58,983	71,535	8,269	2,409	157,345
SOCKEYE						8	45			-1			52
COHO*									542	2,173	83		2,798
PINK													
TOTAL			6,895	4,008	19,727	17,273	6,470	4,992	72,245	80,135	8,569	2,411	222,725
SHAD				0	2	5,588	15,216	527	28	25			21,386
LAMPREY				1	1	1	7	20	5	-1			34
STURGEON													0
BULL TROUT				2	2	4							8

*Jacks included

These counts include the extended season videotaped counts that were made between 0600 and 1600 hours in November and December.

TABLE 119

DISCHARGE AND WATER DATA
LOWER GRANITE PROJECT 2007

	JANUARY				FEBRUARY			
	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI	* DEG F	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI	* DEG F
Jan 1	27.4	0.0			Feb 1	28.4	0.0	
Jan 2	27.0	0.0			Feb 2	29.3	0.0	
Jan 3	28.8	0.0			Feb 3	25.8	0.0	
Jan 4	31.0	0.0			Feb 4	21.4	0.0	
Jan 5	34.7	0.0			Feb 5	21.3	0.0	
Jan 6	31.0	0.0			Feb 6	17.0	0.0	
Jan 7	32.5	0.0			Feb 7	24.1	0.0	
Jan 8	31.0	0.0			Feb 8	19.6	0.0	
Jan 9	38.9	0.0			Feb 9	18.2	0.0	
Jan 10	30.8	0.0			Feb 10	25.2	0.0	
Jan 11	37.4	0.0			Feb 11	22.3	0.0	
Jan 12	39.6	0.0			Feb 12	25.8	0.0	
Jan 13	36.1	0.0			Feb 13	33.7	0.0	
Jan 14	37.7	0.0			Feb 14	34.7	0.0	
Jan 15	32.1	0.0			Feb 15	31.6	0.0	
Jan 16	34.8	0.0			Feb 16	45.5	0.0	
Jan 17	34.9	0.0			Feb 17	42.2	0.0	
Jan 18	34.6	0.0			Feb 18	35.1	0.0	
Jan 19	30.4	0.0			Feb 19	38.8	0.0	
Jan 20	18.4	0.0			Feb 20	34.2	0.0	
Jan 21	20.6	0.0			Feb 21	43.0	0.0	
Jan 22	33.2	0.0			Feb 22	30.5	0.0	
Jan 23	30.2	0.0			Feb 23	37.9	0.0	
Jan 24	26.7	0.0			Feb 24	33.6	0.0	
Jan 25	26.5	0.0			Feb 25	29.9	0.0	
Jan 26	22.7	0.0			Feb 26	32.5	0.0	
Jan 27	20.9	0.0			Feb 27	33.7	0.0	
Jan 28	16.5	0.0			Feb 28	24.6	0.0	
Jan 29	29.6	0.0						
Jan 30	21.8	0.0						
Jan 31	27.8	0.0						
AVG.	29.9	0.0			AVG.	30.0	0.0	

*Data unavailable.

TABLE 120

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

LOWER GRANITE PROJECT
MARCH 2007

DATE	FISH COUNTS							RIVER CONDITIONS									
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL												SECCHI	DEG F	
Mar 1	0							76	5				29.6	0.0	*	*	
Mar 2	0							61	3				26.2	0.0	*	*	
Mar 3	0							39	3				29.2	0.0	*	*	
Mar 4	0							110	13				24.0	0.0	*	*	
Mar 5	0							83	12				27.5	0.0	4.5	49.7	
Mar 6	0							58	6				22.4	0.0	4.0	49.8	
Mar 7	0							48	6				25.6	0.0	4.0	49.8	
Mar 8	0							61	5				28.6	0.0	4.3	49.7	
Mar 9	0							71	8				39.1	0.0	*	*	
Mar 10	0							42	4				31.9	0.0	*	*	
Mar 11	0							103	15				31.7	0.0	*	*	
Mar 12	0							302	46				39.2	0.3	3.8	51.1	
Mar 13	0							299	36				54.7	0.0	*	*	
Mar 14	0							191	21				56.0	0.0	*	*	
Mar 15	0							336	37				54.4	0.0	*	*	
Mar 16	0							413	50				46.7	0.0	*	*	
Mar 17	0							282	35				47.6	0.0	*	*	
Mar 18	0							355	56				47.8	0.0	*	*	
Mar 19	0							178	31				53.6	0.8	3.0	48.0	
Mar 20	0							291	45				55.6	0.0	4.2	48.0	
Mar 21	0							282	48				64.6	0.0	4.6	48.0	
Mar 22	0							316	53				55.9	0.0	3.3	49.5	
Mar 23	0							403	76				55.2	0.0	*	46.7	
Mar 24	0							304	52				45.8	0.0	*	*	
Mar 25	0							230	44				46.0	0.0	3.8	48.5	
Mar 26	0							244	45				56.5	0.0	3.3	48.0	
Mar 27	1							186	30				65.3	20.4	3.8	49.2	
Mar 28	0							381	81				58.0	15.6	3.0	49.0	
Mar 29	0							305	60				54.8	17.7	*	45.6	
Mar 30	0							472	76				55.3	9.6	4.2	49.0	
Mar 31	0							372	54				50.3	3.4	4.0	48.0	
TOTAL	1							6,894	1,056								
AVG.	0							222	34				44.5	2.2	3.9	48.1	

*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 2007

DATE	FISH COUNTS							RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Apr 1	0			0				409	119		1	0	39.9	0.0	4.4	48.0
Apr 2	0			0				316	100		0	0	51.8	0.0	4.4	48.0
Apr 3	0			0				279	91		0	0	42.0	19.9	3.1	46.0
Apr 4	0			0				264	89		0	1	38.2	19.8	3.1	46.3
Apr 5	1			0				182	62		0	0	36.6	20.0	3.1	46.5
Apr 6	0			0				174	58		0	0	34.4	20.1	4.6	50.0
Apr 7	0			0				134	50		0	0	35.6	20.1	4.6	50.0
Apr 8	0			0				246	67		0	0	39.0	20.1	4.4	50.0
Apr 9	0			0				144	54		0	0	46.1	20.1	4.6	51.0
Apr 10	0			0				168	50		0	1	50.9	20.1	3.8	53.0
Apr 11	0			0				163	61		0	0	48.7	20.0	4.8	50.9
Apr 12	0			0				123	31		0	0	50.1	20.0	4.7	50.9
Apr 13	1			0				127	61		0	0	50.0	20.0	4.4	54.0
Apr 14	0			0				119	43		0	0	47.2	19.8	4.4	53.0
Apr 15	0			0				67	24		0	0	45.2	20.0	4.6	53.0
Apr 16	0			0				87	37		0	0	49.5	20.0	*	48.3
Apr 17	0			0				80	26		0	0	48.1	19.8	4.0	48.4
Apr 18	0			0				50	19		0	0	46.5	20.0	*	48.8
Apr 19	0			0				63	34		0	0	47.8	20.0	5.3	49.2
Apr 20	0			0				48	14		0	0	46.3	20.0	4.2	53.0
Apr 21	2			0				49	26		0	0	47.4	19.9	4.4	53.0
Apr 22	1			0				21	7		0	0	45.3	20.0	4.6	53.0
Apr 23	12			0				24	7		0	0	46.1	20.0	6.0	48.2
Apr 24	6			1				22	8		0	0	45.8	19.9	6.0	48.5
Apr 25	8			1				20	12		0	0	48.9	19.9	6.0	48.7
Apr 26	22			4				26	12		0	0	51.6	20.0	6.0	49.2
Apr 27	35			0				22	11		0	0	53.8	19.9	5.0	54.0
Apr 28	73			0				15	7		0	0	55.8	19.8	6.0	54.0
Apr 29	155			0				18	11		0	0	61.0	19.9	5.2	55.0
Apr 30	208			1				17	6		0	0	71.8	20.0	5.2	51.5
TOTAL	524			7				3,477	1,197		1	2				
AVG.	17			0				116	40				47.4	18.6	4.7	50.4
RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK						STEELHEAD	WILD STEELHEAD		LAMPREY	BULL TROUT	*Data Unavailable			
	525	7						10,371	2,253		1	2				

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 2007

DATE	FISH COUNTS							RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F	
May 1	228			6				17	11	0	0	0	83.0	19.9	5.2	52.6
May 2	347			10				14	7	0	0	0	88.5	20.0	*	52.9
May 3	352			13				10	8	0	0	0	94.0	20.0	5.0	52.5
May 4	212			8				13	8	0	0	0	88.8	20.0	4.2	55.0
May 5	724			35				23	19	0	0	0	80.9	19.9	4.0	54.0
May 6	802			30				16	11	0	0	0	71.3	20.0	4.0	54.0
May 7	512			44				14	13	0	0	0	67.3	19.9	4.0	49.1
May 8	654			62				14	10	0	0	0	65.9	19.9	4.7	49.3
May 9	968			116				10	8	0	0	0	69.0	19.8	*	49.6
May 10	510			113				11	7	0	0	0	78.0	19.8	5.1	51.2
May 11	808			137				8	7	0	0	0	93.2	19.8	*	53.5
May 12	906			173				11	6	0	0	0	93.3	19.8	5.0	58.0
May 13	727			233				7	2	0	0	0	100.9	19.9	4.6	58.0
May 14	528			198				6	6	0	0	0	99.2	19.7	5.0	53.8
May 15	931			335				9	8	0	0	0	92.7	19.7	4.2	55.9
May 16	679			242				4	4	0	0	0	90.0	19.7	*	53.2
May 17	313			337				2	2	0	0	0	85.9	19.7	*	53.6
May 18	553			488				7	2	0	0	0	92.7	19.8	4.5	54.3
May 19	391			412				5	5	0	1	1	91.1	19.8	4.4	55.0
May 20	455			398				1	0	0	0	0	88.0	19.7	4.6	59.0
May 21	175			378				0	0	0	0	1	87.0	19.8	4.0	55.3
May 22	191			301				1	1	0	0	0	84.8	19.8	4.3	54.6
May 23	203			419				0	0	0	0	0	75.2	19.7	4.0	53.8
May 24	157			334				1	1	0	0	0	74.2	19.8	5.0	53.1
May 25	277			362				1	1	0	0	0	73.1	19.9	5.6	52.7
May 26	136			236				2	1	0	0	0	64.7	19.8	5.5	53.0
May 27	95			203				1	1	1	0	0	58.2	19.8	6.0	57.5
May 28	92			152				0	0	0	0	0	57.5	19.9	6.0	57.0
May 29	73			154				0	0	1	0	0	62.6	19.9	5.5	55.3
May 30	107			202				2	2	0	0	0	58.5	19.8	5.0	55.6
May 31	131			148				1	1	0	0	0	57.3	20.0	6.0	55.1
TOTAL	13,237			6,279				211	152	2	1	2				
AVG.	427			203				7	5	0	0	0	79.6	19.8	4.8	54.1
RUN YEAR TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK					STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT				
	SPRING	13,762	6,286					10,582	2,405	2	2	4				

*Data Unavailable

TABLE 123

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

LOWER GRANITE PROJECT
JUNE 2007

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Jun 1	902			274			0	1	0	0	0	0	55.6	19.9	5.0	58.9
Jun 2	2,566			506			0	0	0	1	0	0	54.3	19.6	5.0	60.0
Jun 3	864			258			0	1	1	0	0	0	52.8	19.8	*	60.8
Jun 4	350			148			0	1	0	1	0	0	56.2	19.8	6.0	62.0
Jun 5	236			139			0	0	0	7	0	0	57.8	19.8	6.0	60.5
Jun 6	193			98			0	2	0	5	0	0	54.9	19.8	6.0	61.4
Jun 7	295			169			0	5	1	5	0	0	57.9	19.8	6.0	61.3
Jun 8	264			125			0	2	1	28	0	0	52.8	20.0	4.8	63.0
Jun 9	490			143			0	1	0	16	0	0	53.6	19.8	6.0	62.0
Jun 10	284			101			0	1	0	7	1	0	52.4	19.8	6.0	61.0
Jun 11	254			116			0	0	0	13	0	0	54.7	19.7	6.0	56.5
Jun 12	318			114			0	6	0	37	0	0	62.7	19.9	6.0	57.0
Jun 13	281			101			0	2	0	48	0	1	57.6	19.8	6.0	57.3
Jun 14	308			162			0	2	0	46	0	0	55.1	19.9	6.0	57.7
Jun 15	264			58			0	1	0	66	0	0	47.5	19.8	5.0	61.7
Jun 16	361			83			0	9	1	97	0	0	46.0	19.9	6.0	62.0
Jun 17	492			90			0	5	0	62	0	0	45.7	19.9	6.0	61.0
Jun 18		421		114			0	6	1	59	0	1	40.7	19.8	6.0	60.4
Jun 19		365		90			0	15	2	96	0	0	37.5	19.8	6.0	61.3
Jun 20		277		67			0	11	1	178	0	0	42.9	19.8	6.0	61.4
Jun 21		260		122			0	17	1	236	0	0	37.4	18.1	6.0	61.2
Jun 22		206		83			0	5	0	204	0	0	41.4	18.2	6.0	65.0
Jun 23		208		116			0	10	0	332	0	0	39.9	18.0	6.0	65.0
Jun 24		439		169			0	18	4	259	0	0	35.2	18.2	6.0	66.0
Jun 25		431		169			0	24	4	389	-1	0	33.6	18.1	6.0	64.9
Jun 26		391		151			2	26	0	271	1	1	31.4	17.7	6.0	65.4
Jun 27		352		128			0	24	2	631	0	0	30.8	18.3	6.0	65.5
Jun 28		343		107			1	15	2	788	0	0	33.0	18.1	6.0	65.2
Jun 29		161		100			1	28	2	601	0	0	36.0	18.3	*	65.0
Jun 30		216		101			4	33	5	1,105	0	0	36.7	18.2	*	66.4
TOTAL	8,722	4,070		4,202			8	271	28	5,588	1	4				
AVG.	513	313		140			0	9	1	186	0	0	46.5	19.3	5.8	61.9

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	22,484	8,971
SUMMER	4,070	1,517
TOTAL	26,554	10,488

SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT
8	10,853	2,433	5,590	3	8

TABLE 124

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

LOWER GRANITE PROJECT
JULY 2007

DATE	FISH COUNTS						RIVER CONDITIONS									
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL													
Jul 1		149		74			1	35	1	586	0		33.3	18.0	6.0	66.7
Jul 2		222		110			1	32	6	673	0		31.2	18.0	*	66.2
Jul 3		176		115			0	30	1	1,006	0		31.5	18.0	*	66.4
Jul 4		196		80			2	27	4	883	0		32.7	17.9	6.0	67.3
Jul 5		90		71			5	26	4	1,163	0		33.0	17.8	6.0	67.9
Jul 6		204		98			1	46	5	1,092	0		36.0	18.1	5.0	68.5
Jul 7		217		92			4	40	6	535	0		34.8	18.2	6.0	69.0
Jul 8		163		90			2	39	5	836	0		40.5	18.0	6.0	69.0
Jul 9		158		56			2	51	5	893	0		34.7	18.1	6.0	67.0
Jul 10		91		83			0	40	5	868	0		39.7	18.0	6.0	66.9
Jul 11		116		77			2	40	6	630	1		32.7	17.8	6.0	66.2
Jul 12		78		49			4	25	5	445	0		34.7	17.7	6.0	66.3
Jul 13		22		17			2	11	4	256	0		33.1	17.8	6.0	67.2
Jul 14		101		77			1	30	2	463	0		33.6	17.8	6.0	66.0
Jul 15		85		53			1	32	7	551	0		36.0	17.8	6.0	69.0
Jul 16		107		80			1	45	16	312	0		32.2	17.8	6.0	68.0
Jul 17		120		53			4	53	7	121	0		31.1	17.7	6.0	66.1
Jul 18		100		32			0	50	7	248	0		30.2	17.2	6.0	66.0
Jul 19		86		76			0	61	26	86	0		28.9	16.5	6.0	65.7
Jul 20		49		28			1	24	11	130	1		30.5	17.8	6.0	68.5
Jul 21		53		22			1	71	18	556	0		29.5	16.8	6.0	68.5
Jul 22		94		50			1	67	20	346	0		26.9	14.4	6.0	68.5
Jul 23		72		34			6	81	17	398	0		28.0	15.5	6.0	68.5
Jul 24		74		52			1	85	24	310	0		27.3	14.7	*	65.2
Jul 25		46		46			2	58	18	719	0		27.0	14.4	6.0	66.3
Jul 26		40		29			0	29	6	436	0		26.8	14.5	6.0	66.8
Jul 27		61		16			0	51	8	140	1		29.3	17.0	6.0	68.0
Jul 28		53		16			0	85	25	97	1		28.4	15.9	*	67.0
Jul 29		76		14			0	94	35	91	1		27.5	14.7	6.0	67.5
Jul 30		88		24			0	101	24	101	1		29.4	16.7	*	65.3
Jul 31		10		10			0	45	17	245	1		28.5	15.8	*	66.2
TOTAL		3,197		1,724			45	1,504	345	15,216	7					
AVG.		103		56			1	49	11	491	0		31.6	17.0	6.0	67.1

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	22,484	8,971
SUMMER	7,267	3,241
TOTAL	29,751	12,212

SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT
53	12,357	2,778	20,806	10	8

TABLE 125

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

LOWER GRANITE PROJECT
AUGUST 2007

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL												SECCHI	DEG F	
Aug 1		10		5				43	13	77	1		30.5	17.9	6.0	67.0	
Aug 2		16		6				36	13	49	-1		27.4	14.9	6.0	67.6	
Aug 3		32		31				138	34	94	1		27.0	14.5	6.0	67.0	
Aug 4		42		12				112	24	22	0		26.1	13.5	6.0	67.0	
Aug 5		17		8				88	22	2	1		26.0	13.3	6.0	67.5	
Aug 6		19		12				59	17	49	2		26.9	14.6	6.0	67.5	
Aug 7		37		13				160	32	43	1		26.0	13.4	6.0	66.0	
Aug 8		42		11				136	26	13	0		25.8	13.3	6.0	65.3	
Aug 9		22		8				121	23	18	2		25.9	13.3	6.0	65.2	
Aug 10		46		14				178	48	49	0		25.6	13.2	5.0+	66.0	
Aug 11		23		7				89	30	2	1		25.8	13.2	6.0	66.0	
Aug 12		10		5				102	29	11	2		25.6	12.9	6.0	65.6	
Aug 13		52		7				136	32	23	0		24.2	11.4	6.0	65.0	
Aug 14		22		2				84	18	8	1		23.4	10.6	*	65.5	
Aug 15		8		2				41	12	1	0		23.8	11.3	*	66.3	
Aug 16		6		1				67	14	7	0		22.7	10.4	*	66.4	
Aug 17		32		8				148	26	-2	6		22.6	9.9	*	67.0	
Aug 18			30	6				102	25	13	0		22.0	9.3	6.0	67.0	
Aug 19			13	5				131	31	12	0		21.1	8.4	6.0	67.0	
Aug 20			10	0				54	16	6	0		21.7	14.5	6.0	66.9	
Aug 21			32	5				100	29	-4	0		22.0	16.4	6.0	66.7	
Aug 22			24	0				134	22	2	0		23.4	18.0	6.0	65.1	
Aug 23			29	13				196	58	-1	0		21.4	13.8	6.0	64.8	
Aug 24			61	7				240	59	11	0		22.3	9.8	6.0	66.0	
Aug 25			38	5				150	35	14	0		22.4	9.9	5.0+	66.0	
Aug 26			43	8				201	38	2	0		22.2	9.9	5.0+	66.0	
Aug 27			46	5				163	48	0	2		22.4	9.9	5.0+	66.0	
Aug 28			55	1				174	44	-1	1		22.6	9.9	*	65.2	
Aug 29			28	5				128	25	1	1		21.6	9.1	6.0	65.7	
Aug 30			38	8				111	22	1	0		20.6	8.2	6.0	66.0	
Aug 31			80	17				170	30	5	-1		20.8	8.2	6.0	66.0	
TOTAL		436	527	237				3,792	895	527	20						
AVG		26	38	8				122	29	17	1		23.9	12.2	6.0	66.2	

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	22,484	8,971
SUMMER	7,703	3,393
FALL	527	85
TOTAL	30,714	12,449

SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT
53	16,149	3,673	21,333	30	8

TABLE 126

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

LOWER GRANITE PROJECT
SEPTEMBER 2007

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	BULL TROUT	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Sep 1			18	6	0	0		182	44	19	0		23.5	0.0	6.0	67.0
Sep 2			133	10	0	0		148	38	2	0		22.1	0.0	6.0	67.0
Sep 3			52	20	0	0		98	31	4	0		22.0	0.0	6.0	67.0
Sep 4			37	28	0	0		96	24	0	-1		21.2	0.0	*	66.0
Sep 5			158	32	0	0		249	65	0	0		24.0	0.5	6.0	65.6
Sep 6			124	31	0	0		474	113	0	-1		22.6	0.0	6.0	66.6
Sep 7			175	42	0	0		677	168	2	0		23.4	0.0	6.0	69.0
Sep 8			337	74	0	0		638	154	0	0		23.6	0.0	6.0	69.0
Sep 9			235	76	0	0		563	149	0	1		19.8	0.0	6.0	69.5
Sep 10			244	103	0	0		436	100	1	1		24.2	0.0	6.0	67.5
Sep 11			320	121	0	0		771	197	0	0		22.7	0.0	6.0	68.1
Sep 12			229	96	0	0		650	142	0	0		21.2	0.0	*	67.6
Sep 13			142	76	0	0		712	148	-1	0		20.3	0.0	*	66.5
Sep 14			188	120	0	0		856	191	0	0		18.7	0.0	5.0+	68.5
Sep 15			275	209	0	0		982	208	-1	0		20.8	0.0	6.0	65.7
Sep 16			269	133	-1	0		708	138	0	0		19.0	0.0	6.0	68.0
Sep 17			518	391	5	0		2,606	574	0	0		18.1	0.0	6.0	67.0
Sep 18			607	422	5	2		2,524	556	-1	0		16.2	0.0	6.0	68.0
Sep 19			196	209	2	2		1,963	402	0	0		17.0	0.0	6.0	68.0
Sep 20			247	305	7	4		2,187	457	-1	1		17.3	0.0	6.0	65.9
Sep 21			414	455	22	1		3,770	788	0	0		16.6	0.0	6.0	68.0
Sep 22			350	408	35	2		4,742	961	0	0		17.9	0.0	5.0+	67.0
Sep 23			352	401	34	2		6,161	1,338	0	1		16.2	0.0	5.0+	67.0
Sep 24			205	320	25	8		3,490	767	0	0		17.5	0.0	*	65.0
Sep 25			132	179	34	6		2,560	520	0	0		20.5	0.0	5.0+	67.0
Sep 26			193	287	32	0		3,472	672	0	1		17.2	0.0	5.0+	66.5
Sep 27			139	197	40	5		2,965	594	-2	1		13.7	0.0	6.0	*
Sep 28			274	313	59	13		4,354	875	4	1		13.4	0.0	*	*
Sep 29			258	300	104	17		6,239	1,265	0	0		15.9	0.0	5.0+	65.0
Sep 30			230	305	72	5		3,710	752	2	0		18.4	0.0	5.0+	65.0
TOTAL			7,051	5,669	475	67		58,983	12,431	28	5					
AVG.			235	189	16	2		1,966	414	1	0		19.5	0.0	6.0	67.1

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	22,484	8,971
SUMMER	7,703	3,393
FALL	7,578	5,754
TOTAL	37,765	18,118

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT
475	67	53	75,132	16,104	21,361	35	8

TABLE 127

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

LOWER GRANITE PROJECT
OCTOBER 2007

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Oct 1			194	180	88	24	0	2,840	562	1	0		19.2	0.0	5.0+	65.0
Oct 2			287	536	47	2	0	4,519	913	2	0		18.6	0.4	*	*
Oct 3			181	392	71	10	0	5,558	1,108	0	0		21.0	0.0	6.0	*
Oct 4			140	361	77	13	0	4,251	869	0	0		19.4	0.3	6.0	*
Oct 5			187	379	108	8	0	4,295	844	0	0		16.3	0.0	6.0	64.0
Oct 6			212	229	113	22	-1	5,941	1,223	0	-1		19.9	0.0	5.0	63.5
Oct 7			77	121	46	8	0	3,018	642	-1	0		19.2	0.0	5.0	63.0
Oct 8			131	116	90	14	0	3,233	664	0	0		19.2	0.0	5.0	61.5
Oct 9			114	179	68	7	0	2,883	646	0	1		20.2	0.3	*	*
Oct 10			91	169	79	8	0	3,206	648	-1	0		23.8	0.0	*	*
Oct 11			122	166	145	13	0	3,963	769	0	-1		26.8	0.0	*	*
Oct 12			64	114	72	6	0	1,714	372	4	0		17.3	0.8	5.0+	61.7
Oct 13			47	109	107	1	0	2,862	617	0	0		19.0	0.0	6.0	59.7
Oct 14			83	96	138	2	0	3,332	697	0	0		18.5	0.0	6.0	*
Oct 15			29	71	139	5	0	1,795	361	2	0		14.8	0.0	6.0	60.2
Oct 16			56	74	112	5	0	2,839	509	0	0		17.2	0.0	6.0	*
Oct 17			20	47	70	4	0	1,629	292	0	0		19.3	0.0	5.0	*
Oct 18			34	43	55	2	0	1,455	251	0	0		19.5	0.0	*	*
Oct 19			16	16	29	0	0	434	68	-1	0		13.8	2.7	5.0+	60.2
Oct 20			44	101	49	8	0	1,626	354	-1	0		16.4	0.0	5.0+	61.0
Oct 21			72	88	50	5	0	1,707	403	1	0		21.7	0.0	5.0+	59.3
Oct 22			56	49	32	12	0	1,188	268	0	0		23.6	0.0	*	*
Oct 23			25	64	20	0	0	1,055	217	1	0		21.1	0.0	*	*
Oct 24			19	44	22	1	0	1,050	282	10	0		17.6	0.0	6.0	*
Oct 25			55	53	20	1	0	1,064	266	0	0		19.4	0.0	*	*
Oct 26			18	41	13	2	0	844	167	1	0		25.6	0.0	5.0+	57.6
Oct 27			19	25	14	0	0	490	120	5	0		17.1	0.0	6.0	57.1
Oct 28			10	17	10	0	0	500	88	1	0		14.3	0.0	6.0	56.7
Oct 29			11	26	35	1	0	660	161	-1	0		17.5	0.0	6.0	*
Oct 30			30	24	32	4	0	784	176	1	0		18.7	0.0	6.0	56.6
Oct 31			28	26	32	2	0	800	163	1	0		18.1	0.0	6.0	55.7
TOTAL			2,472	3,956	1,983	190	-1	71,535	14,720	25	-1					

AVG.			80	128	64	6	0	2,308	475	1	0		19.2	0.1	5.8	60.2
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*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT
TOTALS TO DATE										
SPRING	22,484	8,971								
SUMMER	7,703	3,393								
FALL	10,050	9,710								
TOTAL	40,237	22,074								8

Note: Visual counts ended October 31.

TABLE 128

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

LOWER GRANITE PROJECT
NOVEMBER 2007

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL												SECCHI	DEG F	
Nov 1			8	16	14	5		875	160				17.5	0.0	*	*	
Nov 2			20	5	13	1		884	164				18.2	0.0	*	*	
Nov 3			15	7	4	0		609	103				16.4	0.0	6.0	55.0	
Nov 4			27	12	10	1		957	136				16.9	0.0	6.0	55.0	
Nov 5			5	2	3	0		282	56				19.4	0.0	6.0	53.9	
Nov 6			4	2	5	0		204	41				13.3	0.0	5.0+	53.0	
Nov 7			11	3	5	0		270	67				18.9	0.0	*	*	
Nov 8			8	3	3	0		301	49				17.1	0.0	5.0+	51.7	
Nov 9			8	5	3	0		306	51				16.3	0.0	*	*	
Nov 10			4	5	0	0		358	72				16.4	0.0	6.0	52.0	
Nov 11			5	4	2	1		276	60				18.0	0.0	6.0	52.0	
Nov 12			2	0	2	0		239	50				17.8	0.0	6.0	52.0	
Nov 13			3	0	0	1		141	25				16.7	0.0	6.0	51.7	
Nov 14			0	2	1	0		103	24				14.5	0.0	6.0	51.1	
Nov 15			7	1	2	0		189	39				17.9	0.0	6.0	51.1	
Nov 16			2	1	1	0		196	55				17.9	0.0	6.0	51.1	
Nov 17			2	1	0	0		262	64				17.9	0.0	*	*	
Nov 18			2	1	1	0		252	62				22.7	0.0	*	*	
Nov 19			1	1	0	0		132	37				25.3	0.2	5.0+	50.7	
Nov 20			0	0	0	0		98	27				28.1	0.0	5.0+	49.7	
Nov 21			1	0	0	0		141	32				27.1	0.0	6.0	49.6	
Nov 22			4	0	3	0		127	39				24.0	0.0	6.0	51.1	
Nov 23			2	0	0	0		170	41				21.8	0.0	6.0	48.9	
Nov 24			3	1	0	0		156	30				20.2	0.0	6.0	48.0	
Nov 25			-1	0	2	0		133	23				20.3	0.0	6.0	48.0	
Nov 26			0	0	0	0		82	11				23.6	0.0	5.0+	48.0	
Nov 27			0	1	0	0		108	31				17.2	0.0	6.0	48.0	
Nov 28			0	0	0	0		119	26				17.8	0.0	6.0	47.5	
Nov 29			0	0	0	0		191	45				19.6	0.0	5.0+	47.5	
Nov 30			1	0	0	0		108	24				20.9	0.0	5.0+	47.5	
TOTAL			144	73	74	9		8,269	1,644								

AVG.	5	2	2	0			276	55					19.3	0.0	6.0	50.6
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*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT
SPRING	22,484	8,971	2,532	266	52	154,936	32,468	21,386	34	8
SUMMER	7,703	3,393								
FALL	10,194	9,783								
TOTAL	40,381	22,147								

Note: From November 1 to December 16, 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 2007

DATE	FISH COUNTS							RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Dec 1			-1	0				151	30				18.4	0.0	*	*
Dec 2			2	0				143	26				16.8	0.0	*	*
Dec 3			2	2				103	25				20.3	0.0	5.0+	46.0
Dec 4			0	-2				232	61				20.8	0.0	5.0+	44.8
Dec 5			0	0				101	18				30.8	0.0	*	*
Dec 6			0	0				110	27				26.1	0.0	5.0+	44.5
Dec 7			0	0				155	31				26.2	0.0	*	*
Dec 8			0	0				305	76				23.3	0.0	6.0	44.1
Dec 9			0	0				179	38				21.1	0.0	6.0	44.1
Dec 10			0	0				117	34				27.7	0.0	6.0	43.9
Dec 11			0	0				107	19				22.9	0.0	6.0	44.1
Dec 12			0	-1				116	23				28.5	0.0	6.0	44.7
Dec 13			0	0				204	55				18.9	0.0	6.0	44.4
Dec 14			0	0				109	24				19.6	0.0	6.0	44.1
Dec 15			0	0				146	43				20.3	0.0	*	*
Dec 16			0	0				131	35				20.6	0.0	*	*
Dec 17													19.6	0.0	5.0	44.3
Dec 18													18.9	0.0	5.0	43.3
Dec 19													23.1	0.0	5.0	43.7
Dec 20													21.2	0.0	*	*
Dec 21													25.4	0.0	*	*
Dec 22													21.4	0.0	6.0	42.1
Dec 23													21.8	0.0	6.0	42.1
Dec 24													21.8	0.0	*	*
Dec 25													20.3	0.0	*	*
Dec 26													20.2	0.0	6.0	43.7
Dec 27													26.1	0.0	6.0	43.0
Dec 28													20.4	0.0	6.0	*
Dec 29													23.0	0.0	*	*
Dec 30													20.0	0.0	*	*
Dec 31													22.8	0.0	5.0+	42.6
TOTAL			3	-1				2,409	565							
AVG.			0	0				151	35				22.2	0.0	5.8	43.8

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	BULL TROUT
TOTALS TO DATE										
SPRING	22,484	8,971	2,532	266	52	157,345	33,033	21,386	34	8
SUMMER	7,703	3,393								
FALL	10,197	9,782								
TOTAL	40,384	22,146								

Note: From November 1 to December 16, counts were from video tape. The counts are 10-hour counts and occurred between 0600-1600 PST. Official Fall Chinook run ended December 16.

TABLE 130

LOWER GRANITE PROJECT - NIGHT COUNTS (2100 - 0400 PST)
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JUNE 2007

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
	SPRING	SUMMER	FALL								
Jun 15	11			6				0		18	
Jun 16	15			6				2		11	
Jun 17	25			8				1		17	
Jun 18		6		2				1		7	
Jun 19		22		8				0		23	
Jun 20		19		3				0		13	
Jun 21		0		2				1		26	
Jun 22		13		1				0		34	
Jun 23		19		5				5		53	
Jun 24		14		8				0		17	
Jun 25		25		8				4		61	
Jun 26		12		8				3		54	
Jun 27		20		6				1		64	
Jun 28		14		1				2		74	
Jun 29		15		2				1		57	
Jun 30		3		6				2		48	
TOTAL	51	182		80				23		577	
AVG.	17	14		5				1		36	

Note: Night counts are not included in any other count totals.

TABLE 131

LOWER GRANITE PROJECT - NIGHT COUNTS (2100 - 0400 PST)
U.S. ARMY ENGINEER DISTRICT, PORTLAND

JULY 2007

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
	SPRING	SUMMER	FALL								
Jul 1		8		3			1	0	0	33	0
Jul 2		16		7			1	4	0	114	0
Jul 3		10		0			0	1	0	74	0
Jul 4		4		0			0	0	0	53	0
Jul 5		2		1			0	1	0	57	0
Jul 6		5		3			0	1	0	39	0
Jul 7		7		9			0	0	0	38	0
Jul 8											
Jul 9		6		1			0	3	0	62	0
Jul 10		7		3			0	2	0	49	0
Jul 11		5		2			0	4	0	20	0
Jul 12		0		2			0	1	0	26	0
Jul 13		5		0			0	0	0	18	0
Jul 14		7		1			0	0	0	14	0
Jul 15		8		5			0	0	0	25	1
Jul 16		8		0			0	2	0	15	1
Jul 17		4		0			0	1	0	44	0
Jul 18		3		3			1	1	1	23	0
Jul 19		5		3			0	3	0	15	2
Jul 20		1		3			0	1	0	14	0
Jul 21		0		1			0	3	0	19	-1
Jul 22		*		*			*	*	*	*	*
Jul 23		4		1			0	0	0	66	1
Jul 24		2		4			0	1	0	20	1
Jul 25		1		2			0	2	0	39	0
Jul 26		0		2			0	1	0	30	0
Jul 27		0		1			0	0	0	24	0
Jul 28		0		1			0	2	0	50	1
Jul 29		-1		0			0	2	1	32	1
Jul 30		0		0			0	0	0	21	0
Jul 31		0		0			0	2	0	38	1
TOTAL		117		58			3	38	2	1,072	8
AVG.		4		2			0	1	0	37	0

Note: Count data was lost on July 8 due to video failure. On July 11 count times changed from 2100 - 0400 to 2200 - 0500 pst.

TABLE 132

LOWER GRANITE PROJECT - NIGHT COUNTS (2200 - 0500 PST)

AUGUST 2007

U.S. ARMY ENGINEER DISTRICT, PORTLAND

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
	SPRING	SUMMER	FALL								
Aug 1		0		0				-1	0	23	1
Aug 2		0		0				0	0	29	2
Aug 3		7		2				5	1	26	3
Aug 4		2		0				4	1	32	0
Aug 5		1		0				1	0	21	0
Aug 6		0		0				4	-1	21	2
Aug 7		0		1				6	0	34	4
Aug 8		0		0				3	1	35	1
Aug 9		0		0				2	0	16	5
Aug 10		0		0				7	0	16	3
Aug 11		0		0				1	0	10	1
Aug 12		-1		0				3	0	15	2
Aug 13		0		0				2	0	13	2
Aug 14		0		0				-1	0	9	2
Aug 15		0		0				-1	0	21	0
Aug 16		0		0				2	0	16	1
Aug 17		2		0				1	0	10	1
Aug 18			-1	0				1	0	7	2
Aug 19			0	0				4	0	9	4
Aug 20			0	0				2	0	19	0
Aug 21			0	0				5	0	10	2
Aug 22			0	0				1	0	6	1
Aug 23			0	0				14	2	3	1
Aug 24			0	0				2	0	3	1
Aug 25			0	0				0	0	3	2
Aug 26			0	1				11	1	4	0
Aug 27			0	0				3	0	0	0
Aug 28			3	0				5	2	1	0
Aug 29			0	0				6	1	1	0
Aug 30			2	0				7	2	2	1
Aug 31			0	1				5	2	6	0
TOTAL		11	4	5				104	12	421	44
AVG		1	0	0				3	0	14	1

TABLE 133

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
LOWER GRANITE DAM
1975 - 2007**

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
2007	62,530	157,345	52	2,798	222,725
Total	1,406,938	3,210,770	2,820	16,929	4,637,457
10-Year Average	81,357	153,506	62	1,427	236,352

*Jacks included

TABLE 134

**MONTHLY COUNT OF CHINOOK SALMON
LOWER GRANITE DAM
1975 - 2007**

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
2007			1	531	19,516	16,994	4,921	1,200	12,720	6,428	217	2	62,530
Total			15	192,610	579,907	329,849	114,988	13,693	115,828	56,048	3,944	56	1,406,938
10-Year Average				14,861	28,429	18,158	4,836	692	9,714	4,415	248		81,357

*Jacks included

TABLE 135

MONTHLY COUNT OF STEELHEAD

LOWER GRANITE DAM

1975 - 2007

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
2007			6,894	3,477	211	271	1,504	3,792	58,983	71,535	8,269	2,409	157,345
Total	539	790	95,026	96,136	12,512	5,043	53,759	135,281	1,143,099	1,420,371	219,233	28,981	3,210,770
10-Yr Average			4,488	2,783	183	337	2,689	5,444	60,472	66,068	9,373	1,670	153,506

PRIEST RAPIDS AND WANAPUM DAMS

FISH COUNTING SCHEDULE – PRIEST RAPIDS DAM

Jan 1 – Apr 14	No adult fish counting.
Apr 6 -Apr 14	Fish counter orientation and training.
Apr 15 – Nov 15	Daily fish counting via Video Fish-Counting System.
Nov 16 – Dec 31	No adult fish counting.

FISH COUNTING SCHEDULE – WANAPUM DAM

Jan 1 – Apr 14	No adult fish counting.
Apr 6 -Apr 14	Fish counter orientation and training.
Apr 15 – Nov 15	Daily fish counting via Video Fish-Counting System.
Nov 16 – Dec 31	No adult fish counting.

FISH LADDER OPERATING AND MAINTENANCE SCHEDULE – PRIEST RAPIDS DAM

Left Bank Ladder

01 Jan – 28 Mar	Out of criteria for annual inspection, maintenance and repairs.
29 Mar – 31 Dec	In service.

Right Bank Ladder

01 Jan – 24 Oct	In service.
25 Oct – 28 Oct	Out of criteria to support OLAFT Chinook broodstock trapping
29 Oct – 31 Oct	In service.
01 Nov – 25 Dec	Out of criteria to support OLAFT Chinook broodstock trapping, and for annual inspection, maintenance and repairs.
26 Dec – 31 Dec	In service.

FISH LADDER OPERATING AND MAINTENANCE SCHEDULE – WANAPUM DAM

Left Bank Ladder

01 Jan – 23 Feb	Out of criteria for annual inspection, maintenance and repairs.
24 Feb – 23 Nov	In service.
24 Nov – 31 Dec	Out of criteria for annual inspection, maintenance and repairs.

Right Bank Ladder

01 Jan – 23 Feb	In service.
24 Feb - 28 Mar	Out of criteria for annual inspection, maintenance and repairs.
29 Mar - 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

Fish Counting

The current video fish-counting (VFC) system continues to use digital video cameras installed in the fishways to assist with counting migrating fish. Digital video data are streamed 24 hours per day to digital video recorders (DVRs) at each dam. Fish counters then playback these data on computers in a fast-forward mode to identify and count passing fish. At the end of each day all counts are tallied and a fish-count report is generated and posted on Grant PUD's Fish, Wildlife, and Water Quality website (www.gcpud.org/stewardship/fishcounts.htm). The fish-counting season for the Priest Rapids Hydroelectric Project runs from April 15 through November 15 annually.

PIT-tag Detection

The PIT-tag detection array at Priest Rapids Dam operated continuously when the fishways were operational.

Fishways Improvements

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 or the Fish Passage Center during the fish passage season.

Fish Trapping

The Priest Rapids Dam Off-ladder Adult Fish Trap (OLAFT) construction was completed in June 2007. The old coded-wire trap facility was permanently removed in February, 2007. Washington Department of Fish and Wildlife (WDFW) operated the OLAFT a total of 29 days between July 10 and October 11, 2007 as part of its steelhead stock assessment. Grant PUD also requested that WDFW collect fall Chinook salmon broodstock for the Priest Rapids Hatchery at the OLAFT in 2007, due to low returns to the Columbia River and the Priest Rapids Hatchery. Chinook broodstock trapping occurred daily between October 17 and November 15, 2007.

TABLE 136

MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER PRIEST RAPIDS DAM
2007

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				347	5,537	11,584	17,737	6,610	15,681	8,174	292		65,962
STEELHEAD				10	41	51	1,217	5,201	6,581	1,960	122		15,183
SOCKEYE						7,549	16,812	282	1	1			24,645
COHO*					1			43	2,311	9,627	328		12,310
PINK													
TOTAL				357	5,579	19,184	35,766	12,136	24,574	19,762	742		118,100
SHAD					2	262	684	51	15	1			1,015
LAMPREY						71	691	3,960	1,820	50	1		6,593

*Jacks included

TABLE 137

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

PRIEST RAPIDS PROJECT
APRIL 2007

DATE	FISH COUNTS										RIVER CONDITIONS		
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI
Apr 1	BEGIN COUNTING APRIL 15										133.1	20.4	40.6
Apr 2											222.6	78.7	40.6
Apr 3											191.0	49.8	40.8
Apr 4											206.9	55.7	40.8
Apr 5											193.9	33.4	41.2
Apr 6											192.4	36.0	*
Apr 7											157.7	0.0	41.9
Apr 8											136.4	0.0	42.3
Apr 9											159.4	0.0	42.6
Apr 10											157.5	0.0	42.6
Apr 11											141.3	0.0	43.2
Apr 12											162.3	0.0	*
Apr 13											157.2	0.0	*
Apr 14											184.1	9.3	44.4
Apr 15	0	0			0			0			165.3	0.1	44.6
Apr 16	2	0			0			0			158.5	0.0	44.6
Apr 17	0	0			0			2			162.4	0.0	44.6
Apr 18	0	0			0			1			163.5	0.0	44.6
Apr 19	3	0			0			0			174.5	12.3	45.0
Apr 20	2	0			0			0			180.6	75.7	*
Apr 21	0	0			0			2			167.3	102.1	45.1
Apr 22	1	0			0			0			156.4	95.5	45.5
Apr 23	2	0			0			0			159.5	97.2	46.0
Apr 24	21	0			0			1			157.7	96.0	46.6
Apr 25	9	0			0			1			173.8	106.2	46.9
Apr 26	21	1			0			0			176.9	107.9	46.6
Apr 27	39	0			0			0			167.9	52.8	*
Apr 28	53	0			0			2			164.4	14.9	47.3
Apr 29	176	0			0			1			153.8	15.2	47.3
Apr 30	17	0			0			0			156.2	12.0	47.7
TOTAL	346	1			10			10			167.8	35.7	44.1
AVG.	22	0			1			1			167.8	35.7	44.1

* Data unavailable

TABLE 138

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

PRIEST RAPIDS PROJECT
MAY 2007

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	124			1		0		2	0		160.2	14.3		47.3	
May 2	74			0		0		0	0		174.0	15.1		47.3	
May 3	187			0		0		1	0		159.6	12.4		47.3	
May 4	28			0		0		2	0		185.3	27.4		*	
May 5	90			1		0		5	0		193.2	23.6		47.3	
May 6	249			0		0		0	0		173.2	11.3		47.5	
May 7	116			1		0		0	0		177.5	18.2		48.4	
May 8	66			0		0		1	0		224.7	60.9		48.4	
May 9	203			5		0		1	0		194.8	22.0		49.5	
May 10	204			4		0		1	0		176.0	13.1		50.7	
May 11	301			10		0		4	0		168.6	9.4		*	
May 12	278			5		0		0	0		173.8	11.5		*	
May 13	120			13		0		1	0		172.3	10.9		50.9	
May 14	332			10		1		0	0		152.9	11.0		51.8	
May 15	129			2		0		0	0		164.4	13.0		51.8	
May 16	272			28		0		1	0		175.0	15.3		51.8	
May 17	132			2		0		0	0		176.1	15.8		52.0	
May 18	274			4		0		0	0		169.9	15.3		*	
May 19	230			17		0		3	0		162.2	14.1		52.3	
May 20	195			28		0		3	0		155.9	15.3		52.2	
May 21	83			3		0		-1	0		165.0	14.6		52.3	
May 22	210			18		0		1	1		177.5	14.1		52.7	
May 23	197			4		0		4	1		174.7	14.2		52.2	
May 24	130			32		0		1	0		172.9	14.1		52.3	
May 25	90			8		0		1	0		186.6	14.6		*	
May 26	220			7		0		0	0		173.8	13.1		*	
May 27	180			17		0		3	0		184.6	19.0		52.7	
May 28	131			2		0		2	0		178.3	13.6		52.9	
May 29	136			20		0		1	0		176.9	14.2		53.8	
May 30	184			20		0		3	0		183.8	16.0		54.0	
May 31	89			21		0		1	0		175.2	12.7		54.3	
TOTAL	5,254			283		1		41	2						

AVG. 169 9 0 1 0

175.4 16.5 50.9

* Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO JACK	STEELHEAD	SHAD
TOTALS TO DATE					
SPRING	5,600	284	1	51	2

TABLE 139

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

PRIEST RAPIDS PROJECT
JUNE 2007

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											
Jun 1		101		17			0	0	0	2	172.6	13.0	*	
Jun 2		97		7			0	2	0	0	168.4	12.3	55.6	
Jun 3		128		51			0	0	0	2	157.7	11.5	56.3	
Jun 4		58		31			0	0	0	2	153.0	10.6	56.3	
Jun 5		54		7			0	0	0	1	182.2	16.7	55.8	
Jun 6		57		14			0	0	0	0	169.7	12.7	55.8	
Jun 7		75		16			3	0	0	1	171.2	16.5	56.1	
Jun 8		80		8			2	0	0	0	203.5	32.7	*	
Jun 9		139		18			7	1	0	0	194.5	23.0	56.1	
Jun 10		85		10			8	1	0	0	180.7	15.4	56.1	
Jun 11		107		12			14	0	0	0	184.5	17.2	56.3	
Jun 12		61		14			25	1	0	1	189.4	15.2	56.1	
Jun 13		66		0			13	0	8	0	176.0	11.0	55.9	
Jun 14		178		26			26	0	0	1	175.5	15.5	56.5	
Jun 15		320		15			56	0	0	0	174.1	23.0	*	
Jun 16		252		6			51	0	1	2	186.6	24.6	57.6	
Jun 17		436		8			88	1	12	3	165.9	19.1	57.6	
Jun 18		204		23			59	1	8	3	153.6	18.5	57.7	
Jun 19		449		45			120	0	4	3	144.6	19.4	58.6	
Jun 20		269		4			152	1	0	6	162.7	22.4	56.8	
Jun 21		630		30			380	2	5	8	169.3	25.8	58.3	
Jun 22		852		8			406	3	20	5	172.4	23.5	58.5	
Jun 23		424		55			389	2	13	5	154.8	20.4	58.6	
Jun 24		440		47			435	4	8	9	134.4	20.1	58.6	
Jun 25		570		71			310	3	14	5	133.7	19.4	58.5	
Jun 26		836		1			571	6	33	0	136.8	15.2	59.2	
Jun 27		888		30			759	3	23	1	147.7	20.6	59.0	
Jun 28		1,308		23			1,599	3	12	4	135.7	20.9	59.9	
Jun 29		829		5			1,078	7	70	4	160.2	22.1	59.7	
Jun 30		954		35			998	10	31	3	134.9	22.2	59.7	
TOTAL		10,947		637			7,549	51	262	71				
AVG.		365		21			252	2	9	2	164.9	18.7		57.5

* Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	5,600	284
SPRING	10,947	637
SUMMER		
TOTAL	16,547	921

COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
1	7,549	102	264	71

TABLE 140

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

PRIEST RAPIDS PROJECT
JULY 2007

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		1,186		21			1,557	11	26	7	104.5	23.7		60.3
Jul 2		964		4			1,608	4	99	10	136.7	21.3		54.3
Jul 3		1,030		7			1,499	11	18	14	111.8	21.4		60.8
Jul 4		4		0			21	0	1	0	115.4	23.9		61.3
Jul 5		529		4			537	1	8	7	144.2	26.1		62.1
Jul 6		688		7			1,339	8	15	12	145.2	23.3		62.2
Jul 7		709		6			1,086	19	22	5	109.2	24.1		63.0
Jul 8		781		1			1,176	20	17	9	121.1	24.0		62.8
Jul 9		704		20			1,108	24	24	10	140.9	20.8		63.7
Jul 10		572		8			675	38	31	24	138.4	23.8		63.7
Jul 11		818		8			703	26	124	17	149.2	23.3		64.0
Jul 12		748		22			734	16	29	15	158.3	23.7		64.2
Jul 13		790		27			535	16	41	19	162.4	23.2		64.0
Jul 14		639		26			415	27	46	11	174.3	22.1		63.9
Jul 15		483		22			491	31	35	20	150.6	21.0		63.1
Jul 16		497		17			309	39	20	14	155.2	20.2		63.1
Jul 17		376		9			417	27	10	27	142.1	21.9		63.0
Jul 18		594		12			316	43	13	13	142.4	20.8		63.3
Jul 19		698		2			315	39	22	13	119.7	23.4		62.2
Jul 20		326		10			247	42	11	24	134.2	23.5		64.4
Jul 21		507		34			243	60	4	20	132.1	24.5		64.6
Jul 22		232		9			214	32	18	34	143.1	22.2		64.6
Jul 23		439		16			258	43	17	27	132.1	20.5		65.3
Jul 24		385		12			265	90	7	17	124.2	23.4		65.1
Jul 25		295		28			131	46	6	31	135.1	24.3		65.5
Jul 26		226		9			116	50	6	21	161.7	22.2		66.0
Jul 27		376		2			138	67	6	56	154.5	21.4		65.8
Jul 28		479		10			161	88	3	58	127.4	23.0		66.6
Jul 29		511		20			75	105	2	65	154.6	24.0		66.6
Jul 30		360		31			79	96	1	49	140.0	22.3		66.2
Jul 31		371		16			44	98	2	42	146.8	22.8		66.2
TOTAL		17,317		420			16,812	1,217	684	691				
AVG.		559		14			542	39	22	22	138.9	22.8		63.6

* Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	5,600	284
SUMMER	28,264	1,057
TOTAL	33,864	1,341

COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
1	24,361	1,319	948	762

TABLE 141

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

PRIEST RAPIDS PROJECT
AUGUST 2007

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		452		14	0	0	25	96	0	56	156.4	20.6	66.6	
Aug 2		348		25	0	0	15	70	2	68	141.4	19.2	66.7	
Aug 3		352		21	0	0	18	156	16	103	108.3	21.0	66.9	
Aug 4		317		32	0	0	14	137	6	168	125.1	21.9	66.9	
Aug 5		278		1	0	0	44	150	6	164	87.6	21.4	66.9	
Aug 6		270		16	0	0	15	190	-2	181	108.1	21.8	67.6	
Aug 7		310		24	0	0	18	160	1	148	107.1	22.8	67.1	
Aug 8		224		16	0	0	27	114	1	121	133.4	21.6	66.9	
Aug 9		225		25	0	0	42	76	1	133	128.2	23.6	67.1	
Aug 10		163		6	0	0	14	100	0	138	141.9	21.5	66.9	
Aug 11		200		36	0	0	9	142	5	131	100.2	21.0	68.4	
Aug 12		218		6	0	0	5	125	1	178	114.1	24.2	66.9	
Aug 13		131		14	0	0	7	139	2	110	142.8	21.3	67.1	
Aug 14			168	25	0	0	5	137	2	168	138.2	21.6	67.5	
Aug 15			94	18	0	0	3	153	1	146	138.7	21.2	67.3	
Aug 16			206	16	0	0	8	171	0	153	115.6	21.5	65.7	
Aug 17			131	12	2	0	4	193	1	183	97.3	21.7	67.8	
Aug 18			128	24	2	1	2	172	4	120	108.9	20.0	67.5	
Aug 19			91	6	0	0	2	191	0	188	72.6	20.4	67.1	
Aug 20			116	7	0	0	0	134	0	166	87.3	21.6	66.9	
Aug 21			244	24	0	0	0	176	-1	153	108.2	21.9	67.1	
Aug 22			89	26	0	0	0	173	0	115	126.6	21.7	67.6	
Aug 23			146	33	1	1	0	182	1	105	122.8	21.6	68.2	
Aug 24			208	20	0	0	0	170	0	138	107.7	13.6	67.8	
Aug 25			124	21	22	0	0	222	3	122	89.8	0.8	68.0	
Aug 26			135	29	2	0	2	266	2	114	72.6	0.7	67.3	
Aug 27			53	19	4	0	0	177	-1	58	113.2	0.7	66.9	
Aug 28			93	34	1	0	3	274	0	56	98.9	1.4	67.1	
Aug 29			76	16	1	0	0	274	0	43	98.5	0.8	68.0	
Aug 30			152	27	0	1	0	211	0	128	116.4	1.1	68.2	
Aug 31			209	66	5	0	0	270	0	105	127.4	2.0	68.4	
TOTAL		3,488	2,463	659	40	3	282	5,201	51	3,960				

AVG.	268	137	21	1	0	9	168	2	128	114.0	16.7	67.3
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* Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	5,600	284
SUMMER	31,752	1,293
FALL	2,463	423
TOTAL	39,815	2,000

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
40	4	24,643	6,520	999	4,722

TABLE 142

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

PRIEST RAPIDS PROJECT
SEPTEMBER 2007

DATE	FISH COUNTS						RIVER CONDITIONS						
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	*TURBIDITY SECCHI
Sep 1			126	53	3	0	0	310	0	88	92.9	1.3	68.0
Sep 2			92	19	2	1	0	229	5	124	75.4	1.1	68.4
Sep 3			145	107	1	1	0	316	0	114	73.2	1.0	68.5
Sep 4			180	60	0	0	0	231	0	176	102.0	0.5	68.7
Sep 5			168	54	9	0	1	300	1	72	90.2	0.5	68.4
Sep 6			136	92	15	0	0	222	1	92	65.3	0.6	57.9
Sep 7			340	80	3	0	0	287	0	85	40.4	0.7	68.0
Sep 8			187	119	4	0	0	289	1	107	40.4	0.5	68.2
Sep 9			451	211	10	0	-1	255	2	75	40.2	0.8	67.8
Sep 10			309	89	23	2	0	284	1	147	69.6	1.1	68.0
Sep 11			211	116	14	3	0	212	0	129	77.0	0.6	68.4
Sep 12			384	114	25	2	0	290	0	72	57.2	0.9	68.2
Sep 13			362	87	14	0	0	213	0	74	80.4	0.9	68.0
Sep 14			406	58	11	0	0	194	1	70	72.0	0.8	68.4
Sep 15			325	60	66	1	0	207	1	56	57.3	0.6	68.0
Sep 16			637	312	10	3	0	265	0	99	49.5	0.7	67.8
Sep 17			785	189	31	0	0	157	0	31	58.0	1.1	66.9
Sep 18			631	252	15	2	1	180	0	35	73.0	1.1	66.0
Sep 19			407	49	31	2	0	131	0	26	66.2	0.9	65.8
Sep 20			486	71	42	3	0	167	0	12	65.9	0.9	65.5
Sep 21			722	103	13	0	0	200	0	6	61.4	0.8	65.3
Sep 22			748	92	89	4	0	229	1	27	42.0	0.7	65.1
Sep 23			623	183	98	11	0	237	0	17	40.6	0.5	64.0
Sep 24			421	110	141	23	0	157	1	10	49.3	0.8	61.3
Sep 25			564	125	257	10	0	162	0	14	71.3	1.1	63.9
Sep 26			743	144	165	3	0	198	0	16	68.6	0.7	63.5
Sep 27			528	72	246	18	0	133	0	10	63.5	1.5	37.6
Sep 28			521	38	350	14	0	149	0	20	60.4	0.9	59.7
Sep 29			528	46	329	11	0	181	0	10	41.6	0.7	62.4
Sep 30			344	66	180	0	0	196	0	6	40.9	0.6	61.7
TOTAL			12,510	3,171	2,197	114	1	6,581	15	1,820			
AVG.			417	106	73	4	0	219	1	61	62.9	0.8	65.0

* Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	5,600	284
SUMMER	31,752	1,293
FALL	14,973	3,594
TOTAL	52,325	5,171

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
2,237	118	24,644	13,101	1,014	6,542

TABLE 143

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

PRIEST RAPIDS PROJECT
OCTOBER 2007

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			402	81	245	27	0	133	0	11	66.9	1.0	61.7	
Oct 2			590	72	422	5	0	202	0	2	67.5	1.0	61.7	
Oct 3			481	54	402	30	0	133	0	5	79.6	1.7	61.7	
Oct 4			174	24	394	41	0	53	0	6	83.2	2.7	61.7	
Oct 5			230	13	320	19	0	88	0	1	72.6	1.5	61.2	
Oct 6			118	11	501	50	0	89	0	2	49.7	0.9	60.4	
Oct 7			222	22	426	59	0	114	0	1	39.1	0.5	60.4	
Oct 8			391	60	167	25	0	72	0	4	62.1	1.3	60.3	
Oct 9			506	42	197	7	1	107	0	3	81.1	1.4	60.6	
Oct 10			458	61	432	58	0	94	0	0	74.8	1.0	60.4	
Oct 11			511	34	574	50	0	137	0	3	89.6	0.9	60.1	
Oct 12			388	6	487	20	0	107	0	0	71.9	0.7	60.1	
Oct 13			464	27	418	42	0	85	0	2	65.9	0.7	60.1	
Oct 14			310	35	369	55	0	66	0	0	51.4	0.7	60.0	
Oct 15			186	14	366	9	0	41	0	1	62.8	0.8	60.0	
Oct 16			245	11	331	20	0	30	0	5	64.8	0.8	59.6	
Oct 17			158	14	202	13	0	26	0	0	85.3	0.9	59.4	
Oct 18			110	39	237	14	0	17	0	3	69.1	0.7	59.4	
Oct 19			154	22	218	17	0	45	0	1	65.0	0.8	54.4	
Oct 20			216	17	164	10	0	64	0	0	62.9	0.8	58.8	
Oct 21			81	14	144	10	0	44	0	0	52.8	0.8	58.6	
Oct 22			53	0	220	18	0	22	0	0	66.4	0.8	58.8	
Oct 23			92	25	144	32	0	17	0	0	68.0	1.0	59.0	
Oct 24			182	19	175	5	0	13	0	0	67.8	0.7	58.8	
Oct 25			106	10	213	3	0	24	0	0	66.8	0.8	58.3	
Oct 26			108	4	221	11	0	24	1	0	63.2	1.0	57.8	
Oct 27			98	8	179	5	0	12	0	0	76.6	1.0	57.5	
Oct 28			116	0	165	6	0	25	0	0	59.2	0.7	57.3	
Oct 29			66	2	228	21	0	25	0	0	64.8	0.7	57.1	
Oct 30			143	3	253	0	0	36	0	0	65.7	0.9	56.6	
Oct 31			67	4	129	2	0	15	0	0	72.3	1.0	56.3	
TOTALS			7,426	748	8,943	684	1	1,960	1	50				

AVG.	240	24	288	22	0	63	2	67.4	1.0	59.3
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* Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	5,600	284
SUMMER	31,752	1,293
FALL	22,399	4,342
TOTAL	59,751	5,919

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
11,180	802	24,645	15,061	1,015	6,592

TABLE 144

MONTHLY FISH PASSAGE SUMMARY REPORT

PRIEST RAPIDS PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

NOVEMBER 2007

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											
Nov 1			43	11	44	3		12		0	71.1	1.0	56.1	
Nov 2			28	20	29	3		5		0	81.7	1.0	55.8	
Nov 3			28	1	28	0		11		0	65.4	1.1	55.8	
Nov 4			21	1	33	0		4		0	58.4	0.8	56.0	
Nov 5			16	0	29	0		15		0	71.6	1.0	55.7	
Nov 6			22	0	35	1		4		0	71.8	0.7	55.3	
Nov 7			10	1	32	2		6		1	68.4	0.8	55.3	
Nov 8			15	2	8	0		9		0	72.9	0.8	48.4	
Nov 9			17	0	18	2		5		0	59.1	0.5	55.0	
Nov 10			8	4	5	3		9		0	77.8	1.1	54.7	
Nov 11			9	0	9	2		10		0	83.1	1.1	54.3	
Nov 12			23	1	5	0		20		0	89.6	1.0	54.0	
Nov 13			8	0	23	2		4		0	111.0	1.1	53.6	
Nov 14			2	0	5	1		2		0	107.8	1.2	53.0	
Nov 15			1	0	5	1		6		0	117.6	0.4	53.2	
Nov 16											86.0	0.0	53.3	
Nov 17											62.4	0.0	53.0	
Nov 18											55.9	0.0	52.6	
Nov 19											77.0	0.0	52.3	
Nov 20											70.7	0.0	52.2	
Nov 21											87.6	0.0	51.6	
Nov 22											71.7	0.0	51.2	
Nov 23											74.0	0.0	50.8	
Nov 24											80.1	0.0	50.5	
Nov 25											87.5	0.0	49.9	
Nov 26											121.6	0.0	49.4	
Nov 27											115.7	0.0	48.9	
Nov 28											97.5	0.0	48.7	
Nov 29											100.0	0.0	48.3	
Nov 30											99.5	0.0	48.0	
TOTALS			251	41	308	20		122		1				
AVG.			17	3	21	1		8		0	83.2	0.5	52.6	

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	5,600	284
SUMMER	31,752	1,293
FALL	22,650	4,383
TOTAL	60,002	5,960

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
11,488	822	24,645	15,183	1,015	6,593

*Data unavailable.

TABLE 145

**YEARLY TOTALS OF SALMONIDS COUNTED OVER PRIEST RAPIDS DAM
1982 - 2007**

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
2007	65,962	15,183	24,645	12,310	118,100
Totals	1,732,279	376,291	1,521,040	44,501	3,674,111
10-Year Average	103,666	14,587	56,337	4,142	178,732

*Jacks included

TABLE 146

MONTHLY COUNT OF STEELHEAD
PRIEST RAPIDS DAM: 1960 - 2007

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
2007				10	41	51	1,217	5,201	6,581	1,960	122		15,183
TOTAL	40	56	288	3,991	8,817	6,546	56,870	161,727	242,440	64,115	4,067	63	549,020
10-Year Average				10	22	163	2,119	4,490	6,437	1,261	85		14,587

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 from 0700 to 1530 hours Pacific Standard Time, starting March 13.
Apr 14 – Nov 15	Video recording 24 hours per day/7 days a week. Video counting daily from 0700 to 1530 hours Pacific Standard Time.
Nov 16 – Dec 31	No video recording or fish counting during this period.

FISH LADDER OPERATING SCHEDULE

Left Bank Ladder

Jan 1 – Jan 21 Fishway in service.
Jan 22 – Feb 4 Fishway out of service for 2006/2007 annual maintenance.
Feb 5 – Dec 31 Fishway in service.

Middle Ladder

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

Right Bank Ladder

Jan 1 – Jan 8 Fishway out of service for 2006/2007 annual maintenance.
Jan 9 – Dec 2 Fishway in service.
Dec 3 – Dec 31 Fishway out of service for 2007/2008 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, 2007. Juvenile fish were sampled daily during this time period.

The adult fish PIT tag system was operational throughout the 2007 adult fish migration. PIT tag detections from all three fishways were uploaded daily to PTAGIS.

In 2007, 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. Monitoring will occur through June 2009.

TABLE 147

MONTHLY TOTALS OF SALMONIDS AND LAMPREY COUNTED OVER ROCK ISLAND DAM
2007

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				61	5,525	8,598	22,926	6,754	2,395	1,194	206		47,659
STEELHEAD				27	25	33	830	4,378	5,943	1,888	172		13,296
SOCKEYE						3,293	21,416	406	5	2			25,122
COHO								2	2,243	13,977	930		17,152
PINK													
TOTAL				88	5,550	11,924	45,172	11,540	10,586	17,061	1,308		103,229
LAMPREY						5	75	802	413	4			1,299
BULL TROUT					4	18	21	3					46

TABLE 148

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCK ISLAND PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

APRIL 2007

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												
Apr 1												167.3	0.0	*	41.0
Apr 2												179.3	0.0	*	41.0
Apr 3												194.2	0.0	*	41.0
Apr 4												187.2	0.0	*	41.0
Apr 5												174.7	0.0	*	41.0
Apr 6												155.2	0.0	*	42.1
Apr 7												144.9	0.0	*	42.1
Apr 8												146.2	0.0	*	42.1
Apr 9												141.4	0.0	*	43.0
Apr 10												140.4	0.0	*	43.0
Apr 11												150.1	0.0	*	43.0
Apr 12												148.6	0.0	*	43.0
Apr 13												158.5	0.0	*	43.0
Apr 14	2							3		3		172.3	0.0	13.0	44.4
Apr 15	0							4		1		140.8	0.0	12.6	44.1
Apr 16	0							2		0		151.2	0.0	12.6	44.4
Apr 17	0							0		0		160.4	16.6	12.6	44.8
Apr 18	0							0		0		158.4	16.5	12.6	44.8
Apr 19	0							0		0		164.8	15.8	12.6	45.0
Apr 20	1							2		0		163.6	16.5	13.4	45.1
Apr 21	0							2		2		154.4	14.9	13.6	45.3
Apr 22	3							0		0		121.1	13.6	13.6	45.7
Apr 23	2							1		0		163.4	16.5	12.6	46.0
Apr 24	1							1		1		160.1	16.0	16.6	46.4
Apr 25	0							3		1		165.5	16.1	16.4	46.8
Apr 26	0							0		0		160.2	16.2	15.6	47.1
Apr 27	5							2		0		159.6	16.1	15.0	47.1
Apr 28	8							1		0		148.1	16.1	15.0	47.5
Apr 29	12							5		3		128.9	13.4	15.0	47.5
Apr 30	27							1		0		169.4	17.0	15.0	47.5
TOTAL	61							27		11					
AVG.	4							2		1		157.7	7.4	14.0	44.2

*Data unavailable

TABLE 149

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

ROCK ISLAND PROJECT
MAY 2007

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	22			0				2	1	0		163.0	16.1	11.0	47.8
May 2	12			0				1	1	0		154.8	16.1	11.0	47.8
May 3	48			0				2	1	0		159.9	16.9	15.6	48.0
May 4	137			1				2	1	0		180.3	16.1	15.6	48.0
May 5	86			1				0	0	0		165.8	18.1	15.4	47.8
May 6	105			7				0	0	0		158.0	14.4	16.0	48.2
May 7	131			7				1	1	0		188.3	19.6	16.0	48.7
May 8	170			6				1	1	0		210.6	21.9	16.6	49.3
May 9	145			2				1	0	0		183.4	20.7	17.0	49.5
May 10	146			8				2	2	0		168.2	20.0	8.0	49.6
May 11	159			4				1	1	0		156.6	17.7	8.2	50.2
May 12	121			4				4	2	0		153.6	16.6	9.6	50.4
May 13	245			16				0	0	0		165.0	12.8	12.0	50.5
May 14	367			29				1	0	0		151.5	18.3	8.0	50.5
May 15	241			29				0	0	0		167.8	17.0	8.2	50.7
May 16	137			24				4	1	1		170.3	16.3	11.4	50.9
May 17	124			24				0	0	0		167.2	16.4	11.4	51.4
May 18	260			65				0	0	0		165.8	15.6	12.5	51.6
May 19	184			46				0	0	0		150.3	13.9	12.0	52.0
May 20	128			42				1	1	0		147.8	11.9	11.5	52.0
May 21	200			87				0	0	0		164.4	17.2	10.5	52.0
May 22	123			88				0	0	0		171.6	17.2	10.5	51.6
May 23	156			80				0	0	0		161.9	17.3	10.0	51.8
May 24	157			66				0	0	0		173.6	16.8	10.0	52.5
May 25	136			88				1	0	1		167.4	16.1	12.0	52.5
May 26	123			111				1	0	1		177.5	16.2	11.8	52.9
May 27	74			73				0	0	0		170.7	13.9	12.5	53.2
May 28	112			97				0	0	0		171.8	15.4	12.5	53.4
May 29	96			86				0	0	0		176.5	18.0	14.5	54.1
May 30	67			66				0	0	1		173.8	16.1	14.5	54.0
May 31	65			91				0	0	0		164.2	17.2	14.0	54.1
TOTAL	4,277			1,248				25	13	4					
AVG.	138			40				1	0			167.8	16.7	12.3	50.9
RUN YEAR															
TOTALS TO DATE				CHINOOK ADULT	CHINOOK JACK			STEELHEAD	WILD STEELHEAD	BULL TROUT					
SPRING				4,338	1,248			52	24	4					

TABLE 150

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

ROCK ISLAND PROJECT
JUNE 2007

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	89			60			0	0	0	2	0	162.0	16.6	15.0	54.1
Jun 2	60			93			0	1	1	0	0	155.9	29.8	13.5	55.2
Jun 3	107			82			0	0	0	0	0	129.5	28.0	13.5	55.9
Jun 4	38			46			0	0	0	0	0	168.8	35.6	14.0	56.8
Jun 5	47			55			0	2	2	0	0	183.1	36.0	13.5	56.3
Jun 6	81			72			0	0	0	0	0	157.7	35.2	13.2	55.6
Jun 7	60			61			0	0	0	0	0	173.7	35.1	5.0	55.2
Jun 8	63			45			0	0	0	3	0	194.0	40.1	5.8	55.6
Jun 9	42			21			1	0	0	1	0	182.6	36.8	4.4	55.9
Jun 10	68			27			2	0	0	0	0	168.0	32.4	4.8	55.0
Jun 11	65			36			0	1	1	1	0	179.5	37.5	5.2	54.9
Jun 12	81			39			3	1	0	2	0	179.3	35.3	5.8	55.2
Jun 13	90			49			2	1	0	2	0	164.1	34.2	6.0	56.5
Jun 14	63			39			6	1	1	0	0	168.3	34.7	11.0	57.0
Jun 15	84			24			6	1	0	0	0	174.8	33.1	11.4	57.4
Jun 16	75			21			5	0	0	0	0	170.6	30.4	11.0	57.0
Jun 17	123			48			14	0	0	0	1	142.9	25.5	9.8	57.2
Jun 18	213			57			25	1	1	0	0	135.9	33.7	9.0	57.7
Jun 19	187			22			23	0	0	1	0	166.4	32.9	11.5	57.7
Jun 20	275			77			34	2	0	1	1	164.2	30.0	11.6	58.6
Jun 21	225			58			40	3	3	1	0	164.9	32.0	12.0	58.5
Jun 22	335			48			68	1	1	1	0	160.5	29.4	11.6	58.6
Jun 23	354			86			116	0	0	0	2	133.2	27.0	10.8	58.6
Jun 24		105		37			112	0	0	0	0	105.7	23.3	11.2	59.2
Jun 25		832		88			251	2	2	2	0	139.1	32.8	11.8	59.2
Jun 26		756		87			386	4	0	0	0	138.0	28.2	12.2	59.7
Jun 27		749		120			434	1	0	0	0	157.2	27.8	12.6	59.9
Jun 28		437		91			466	6	6	0	1	142.8	27.9	12.6	59.7
Jun 29		400		74			466	3	1	0	0	150.5	28.9	13.5	59.5
Jun 30		690		141			833	2	2	1	0	123.2	23.1	13.5	59.5
TOTAL	2,825	3,969		1,804			3,293	33	21	18	5				
AVG.	123	567		60			110	1	1	1	0	157.9	31.1	10.6	57.3
RUN YEAR															
TOTALS TO DATE															
SPRING		7,163		2,414											
SUMMER		3,969		638											
TOTALS		11,132		3,052											

TABLE 151

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCK ISLAND PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

JULY 2007

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		688		160			975	2	1	1	0	116.7	19.1	13.0	59.7
Jul 2		841		108			911	7	4	0	1	130.5	28.3	13.5	60.3
Jul 3		1,076		150			1,513	4	2	0	0	109.4	30.0	15.2	61.0
Jul 4		747		133			1,684	10	5	0	2	127.8	25.7	15.5	61.3
Jul 5		832		120			1,774	8	5	1	3	146.6	27.8	15.5	61.7
Jul 6		836		146			1,288	10	6	1	1	126.9	23.6	15.8	62.2
Jul 7		1,190		191			2,010	10	5	0	3	115.5	21.2	15.4	62.4
Jul 8		879		217			1,806	17	8	2	1	105.2	17.1	15.0	62.6
Jul 9		551		154			1,167	20	8	3	3	137.6	27.1	15.0	63.1
Jul 10		656		163			1,161	7	5	1	0	144.4	30.9	14.8	63.5
Jul 11		598		188			904	14	8	1	2	153.4	30.2	14.8	63.5
Jul 12		703		110			698	21	14	0	3	156.9	27.7	15.2	63.1
Jul 13		676		123			717	30	12	0	1	161.6	28.3	14.5	62.6
Jul 14		531		119			720	20	8	0	0	163.5	28.1	14.5	62.4
Jul 15		750		190			591	24	9	2	1	145.8	20.5	15.5	62.8
Jul 16		697		174			443	11	7	0	1	148.2	29.1	15.5	63.1
Jul 17		635		138			385	24	14	0	1	126.4	30.0	15.8	63.7
Jul 18		363		132			322	23	11	0	3	132.3	29.1	15.6	63.7
Jul 19		546		103			294	32	13	0	3	135.3	27.8	15.8	63.3
Jul 20		796		154			325	27	18	3	3	141.2	23.9	17.5	63.3
Jul 21		533		110			268	35	15	4	1	132.1	21.9	17.2	63.1
Jul 22		450		108			185	39	21	0	0	116.6	21.2	17.2	63.5
Jul 23		415		130			238	44	27	0	2	127.9	26.3	17.4	64.0
Jul 24		327		82			239	49	25	1	1	138.5	29.1	17.5	64.4
Jul 25		373		67			198	38	18	1	4	144.2	28.6	17.5	64.9
Jul 26		358		76			150	33	23	0	3	153.3	29.4	17.5	65.1
Jul 27		366		108			139	43	15	0	5	144.7	28.4	16.0	65.1
Jul 28		324		90			94	56	32	0	6	115.5	24.1	15.8	64.9
Jul 29		336		82			88	48	27	0	6	113.4	22.7	15.5	65.1
Jul 30		430		97			70	60	35	0	9	133.3	28.6	15.5	65.1
Jul 31		394		106			59	64	26	0	6	153.9	27.3	16.0	65.7
TOTAL		18,897		4,029			21,416	830	427	21	75				
AVG.		610		130			691	27	14	1	2	135.4	26.2	15.7	63.2

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	7,163	2,414
SUMMER	22,866	4,667
TOTALS	30,029	7,081

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
24,709	915	472	43	80

TABLE 152

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCK ISLAND PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

AUGUST 2007

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		307		103	0	0	50	57	25	0	4	144.7	29.4	16.8	66.0
Aug 2		368		78	0	0	43	85	52	1	7	108.3	26.6	16.5	66.2
Aug 3		367		102	0	0	28	74	39	0	8	127.8	25.2	16.6	66.2
Aug 4		398		78	0	0	63	81	44	2	15	122.1	21.9	16.8	65.8
Aug 5		274		61	0	0	32	104	63	0	7	83.8	21.8	16.8	66.6
Aug 6		274		83	0	0	26	109	55	0	14	110.0	27.4	17.1	66.7
Aug 7		272		84	0	0	28	104	54	0	29	119.4	27.2	17.0	66.9
Aug 8		232		77	0	0	17	131	68	0	26	120.8	24.1	17.2	66.7
Aug 9		207		84	0	0	15	128	82	0	16	132.7	24.0	17.0	66.4
Aug 10		199		64	0	0	7	113	55	0	20	126.7	24.4	17.2	66.2
Aug 11		151		60	0	0	11	130	62	0	31	111.0	23.4	17.5	66.2
Aug 12		117		50	0	0	4	96	37	0	26	104.1	22.2	17.0	66.6
Aug 13		146		64	0	0	7	116	66	0	28	138.2	26.1	16.5	66.9
Aug 14		143		56	0	0	6	115	57	0	35	137.6	24.5	17.0	66.9
Aug 15		98		54	0	0	3	107	52	0	28	130.7	26.2	17.5	67.3
Aug 16		126		51	0	0	7	132	66	0	20	89.7	21.6	17.5	67.3
Aug 17		88		36	0	0	9	113	59	0	28	101.5	20.3	17.4	67.3
Aug 18		113		47	0	0	9	132	60	0	33	79.9	18.1	17.2	67.6
Aug 19		99		30	0	0	6	122	70	0	17	59.1	17.8	17.5	67.8
Aug 20		115		60	0	0	5	142	67	0	23	116.4	23.6	17.5	67.5
Aug 21		103		50	0	0	3	174	76	0	25	121.9	17.9	17.5	67.3
Aug 22		70		19	0	0	4	155	80	0	28	115.6	0.1	17.6	67.1
Aug 23		119		36	0	0	3	158	82	0	49	110.2	0.0	17.0	67.1
Aug 24		133		42	0	0	3	182	78	0	20	112.0	0.0	17.5	67.3
Aug 25		91		22	0	0	6	191	104	0	30	82.7	0.0	17.5	67.3
Aug 26		128		53	0	0	2	197	86	0	24	59.4	0.0	17.0	67.6
Aug 27		94		42	0	0	3	218	92	0	38	102.0	0.0	17.0	67.6
Aug 28		78		29	0	0	1	243	112	0	31	102.1	0.0	17.0	67.8
Aug 29		47		21	0	0	3	206	90	0	45	112.4	0.0	17.2	68.0
Aug 30		55		24	1	0	0	198	79	0	54	127.8	0.0	16.8	68.2
Aug 31		56		26	0	1	2	265	107	0	43	123.2	0.0	17.2	68.5
TOTAL		5,068		1,686	1	1	406	4,378	2,119	3	802				
AVG.		163		54	0	0	13	141	68	0	26	110.8	15.9	17.1	67.1
RUN YEAR		CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY					
TOTALS TO DATE															
SPRING		7,163	2,414												
SUMMER		27,934	6,353												
TOTALS		35,097	8,767												

TABLE 153

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCK ISLAND PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

SEPTEMBER 2007

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	TURBIDITY DEG F
Sep 1		48		17	0	0	3	205	103		33	82.3	0.0	17.2	68.2
Sep 2			109	27	1	0	0	190	79		33	69.5	0.0	17.2	68.2
Sep 3			79	22	2	2	0	185	80		22	70.9	0.0	17.4	68.2
Sep 4			65	34	0	3	0	252	103		17	67.6	0.0	17.4	68.5
Sep 5			66	24	0	0	0	227	106		20	78.6	0.0	17.5	68.7
Sep 6			49	26	0	1	0	306	152		44	48.7	0.0	17.2	68.9
Sep 7			37	40	0	2	0	226	87		14	58.0	0.0	17.0	68.7
Sep 8			38	20	1	2	0	167	76		13	57.6	0.0	17.0	68.7
Sep 9			55	20	1	0	0	211	70		23	47.8	0.0	17.0	68.5
Sep 10			92	19	2	9	1	238	97		12	69.0	0.0	17.8	68.5
Sep 11			90	28	1	4	0	231	103		19	67.4	0.0	18.0	68.5
Sep 12			94	30	18	16	0	249	78		25	69.7	0.0	18.0	68.5
Sep 13			78	32	9	11	0	206	84		25	66.3	0.0	17.6	68.4
Sep 14			60	46	6	5	0	215	67		9	66.6	0.0	17.4	68.2
Sep 15			47	34	16	4	0	265	69		22	53.7	0.0	17.6	68.0
Sep 16			48	19	26	6	0	142	59		14	52.7	0.0	17.4	67.6
Sep 17			49	39	15	9	0	123	44		20	61.0	0.0	17.4	67.1
Sep 18			53	27	25	5	0	170	73		4	59.9	0.0	17.0	66.7
Sep 19			88	16	47	13	0	254	89		10	67.6	0.0	17.2	66.6
Sep 20			44	16	32	8	1	207	84		9	55.6	0.0	16.5	66.2
Sep 21			47	19	26	8	0	199	68		2	47.4	0.0	16.6	65.8
Sep 22			57	12	53	18	0	175	59		2	39.0	0.0	16.0	65.7
Sep 23			47	24	82	20	0	243	103		0	37.5	0.0	17.0	64.9
Sep 24			34	45	80	9	0	198	75		8	71.0	0.0	16.5	64.6
Sep 25			27	14	104	6	0	152	63		2	67.0	0.0	17.0	65.1
Sep 26			46	14	299	21	0	196	58		3	65.3	0.0	17.0	64.8
Sep 27			35	29	208	13	0	144	70		6	66.8	0.0	16.5	64.8
Sep 28			16	10	226	4	0	120	58		1	46.8	0.0	16.6	64.6
Sep 29			45	7	444	10	0	141	43		0	40.1	0.0	16.6	63.5
Sep 30			22	20	303	7	0	106	37		1	46.9	0.0	16.2	66.4
TOTAL		48	1,617	730	2,027	216	5	5,943	2,337		413				
AVG.			56	24	68	7	0	198	78		14	59.9	0.0	17.1	67.0

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	7,163	2,414
SUMMER	27,982	6,370
FALL	1,617	713
TOTALS	36,762	9,497

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
2,028	217	25,120	11,236	4,928	46	1,295

TABLE 154

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCK ISLAND PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

OCTOBER 2007

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			24	22	262	27	0	108	36		2	67.8	0.0	16.0	63.1
Oct 2			29	25	408	8	0	134	51		0	74.0	0.0	16.4	63.1
Oct 3			36	24	486	13	0	157	65		2	77.7	0.0	16.4	62.6
Oct 4			18	26	386	19	0	117	54		0	63.9	0.0	16.4	63.1
Oct 5			23	9	411	8	0	112	55		0	74.2	0.0	17.4	61.5
Oct 6			34	22	490	6	0	115	35		0	38.6	0.0	17.8	61.7
Oct 7			26	14	542	29	0	65	28		0	41.9	0.0	17.8	61.7
Oct 8			19	8	370	6	0	53	23		0	75.4	0.0	18.0	61.7
Oct 9			32	18	393	12	0	63	18		0	73.5	0.0	16.2	61.5
Oct 10			23	8	419	7	0	79	24		0	76.0	0.0	16.7	61.7
Oct 11			40	30	786	13	2	93	32		0	74.6	0.0	16.7	61.5
Oct 12			53	22	835	11	0	87	23		0	65.7	0.0	15.8	61.7
Oct 13			24	15	531	10	0	73	27		0	48.6	0.0	16.4	61.5
Oct 14			21	7	598	7	0	34	14		0	55.0	0.0	17.0	61.7
Oct 15			21	4	788	4	0	57	14		0	76.7	0.0	17.2	61.9
Oct 16			23	13	1,076	16	0	101	13		0	72.7	0.0	17.0	62.1
Oct 17			16	11	534	11	0	45	10		0	68.7	0.0	17.2	61.7
Oct 18			26	4	509	10	0	26	9		0	72.7	0.0	16.8	61.5
Oct 19			30	19	503	10	0	59	11		0	66.2	0.0	16.6	60.8
Oct 20			20	9	356	6	0	36	18		0	55.1	0.0	16.2	60.8
Oct 21			16	9	416	16	0	38	16		0	45.7	0.0	16.2	60.1
Oct 22			25	14	227	4	0	24	9		0	64.3	0.0	16.5	59.5
Oct 23			22	24	271	8	0	22	6		0	63.6	0.0	16.5	59.5
Oct 24			17	14	308	4	0	37	10		0	65.9	0.0	17.0	59.9
Oct 25			25	19	359	3	0	22	4		0	82.6	0.0	17.5	59.4
Oct 26			21	11	220	12	0	35	13		0	78.8	0.0	17.7	59.0
Oct 27			16	5	249	6	0	25	3		0	58.8	0.0	17.6	58.8
Oct 28			29	10	142	4	0	21	9		0	47.9	0.0	17.8	58.3
Oct 29			19	8	401	8	0	21	5		0	71.1	0.0	18.0	58.5
Oct 30			6	5	54	3	0	8	3		0	75.2	0.0	17.8	58.5
Oct 31			18	13	338	8	0	21	9		0	83.1	0.0	18.2	58.1
TOTAL			752	442	13,668	309	2	1,888	647		4				
AVG.			24	14	441	10	0	61	21		0	66.3	0.0	17.0	60.9

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	7,163	2,414
SUMMER	27,982	6,370
FALL	2,369	1,155
TOTALS	37,514	9,939

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
15,696	526	25,122	13,124	5,575	46	1,299

TABLE 155

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

ROCK ISLAND PROJECT
NOVEMBER 2007

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			10	9	253	0		10	3			69.4	0.0	18.2	57.7
Nov 2			16	1	140	2		7	3			82.6	0.0	18.0	57.4
Nov 3			13	5	148	2		22	6			47.7	0.0	17.8	57.4
Nov 4			12	4	94	3		8	2			46.7	0.0	18.2	56.8
Nov 5			21	3	86	4		12	4			61.8	0.0	17.8	56.8
Nov 6			12	0	35	3		17	5			73.7	0.0	17.2	56.5
Nov 7			8	3	31	2		8	1			72.5	0.0	17.2	56.5
Nov 8			16	1	29	1		4	1			62.9	0.0	17.4	56.1
Nov 9			12	0	26	2		10	3			92.3	0.0	17.4	55.9
Nov 10			11	1	13	0		19	7			90.4	0.0	17.0	55.8
Nov 11			8	2	20	1		10	5			76.9	0.0	17.0	55.9
Nov 12			5	0	13	0		8	4			99.4	0.0	17.2	55.8
Nov 13			10	3	7	1		16	4			101.3	0.0	17.2	55.4
Nov 14			7	1	6	0		8	4			113.7	0.0	17.2	55.0
Nov 15			10	2	7	1		13	4			100.0	0.0	17.2	55.0
Nov 16												52.5	0.0	*	*
Nov 17												60.4	0.0	*	*
Nov 18												64.5	0.0	*	*
Nov 19												88.5	0.0	*	*
Nov 20												73.6	0.0	*	*
Nov 21												81.0	0.0	*	*
Nov 22												63.2	0.0	*	*
Nov 23												79.4	0.0	*	*
Nov 24												87.9	0.0	*	*
Nov 25												85.6	0.0	*	*
Nov 26												118.1	0.0	*	*
Nov 27												90.8	0.0	*	*
Nov 28												106.1	0.0	*	*
Nov 29												97.2	0.0	*	*
Nov 30												94.9	0.0	*	*
TOTAL			171	35	908	22		172	56						
AVG.			11	2	61	1		11	4			81.2	0.0	17.5	56.3

*Data unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	7,163	2,414
SPRING	27,982	6,370
SUMMER	2,540	1,190
FALL		
TOTALS	37,685	9,974

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
16,604	548	25,122	13,296	5,631	46	1,299

TABLE 156

**MONTHLY COUNT OF STEELHEAD
ROCK ISLAND DAM 1981 - 2007**

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
2007				27	25	33	830	4,378	5,943	1,888	172		13,296
Total				1,619	2,019	3,197	35,360	100,129	159,279	49,484	5,018		356,105
10-Year Average				33	28	102	1,473	3,950	6,581	1,513	109		13,788

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 from 0700 to 1530 hours Pacific Standard Time, starting March 13.
Apr 14 - Nov 15	Video recording 24 hours per day/7 days a week. Video counting daily from 0700 to 1530 hours Pacific Standard Time.
Nov 16 - Dec 31	No video recording or fish counting during this period.

FISH LADDER OPERATING SCHEDULE

Jan 1 to Feb 28	Fishway out of service for 2006/2007 annual maintenance.
Mar 1 to Dec 2	Fishway in service.
Dec 3 to Dec 31	Fishway out of service for 2007/2008 annual maintenance.

FISHWAY ACTIVITIES

The adult fish PIT tag system was operational throughout the 2007 adult fish migration. PIT tag detections in the fishway were uploaded daily to PTAGIS.

The juvenile fish bypass system was operated for fish passage from April 1 to August 31, 2007. 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 2007, 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. Monitoring will occur through June 2009.

TABLE 157

MONTHLY TOTALS OF SALMONIDS AND LAMPREY COUNTED OVER ROCKY REACH DAM
2007

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				13	2,427	3,732	18,538	6,894	1,730	1,063	184		34,581
STEELHEAD				93	75	46	507	2,777	4,247	2,227	174		10,146
SOCKEYE						1,734	18,425	504	17	3			20,683
COHO								1	199	4,073	465		4,738
PINK													0
TOTAL				106	2,502	5,512	37,470	10,176	6,193	7,366	823		70,148
LAMPREY							31	328	181	1			541
BULL TROUT				1	30	28	12	2	1	3			77

TABLE 158

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

ROCKY REACH PROJECT
APRIL 2007

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK	COHO	COHO	WILD	BULL	DISCH	SPILL	TURBIDITY				
	SPRING	SUMMER	FALL	JACK	ADULT	JACK	SOCKEYE	STEELHEAD			TROUT	KCFS	KCFS	SECCHI	DEG F
Apr 1	BEGIN COUNTING 14 APRIL											162.9	7.7	*	*
Apr 2												178.0	23.8	*	*
Apr 3												195.2	39.1	*	*
Apr 4												189.0	32.3	*	*
Apr 5												173.4	11.2	*	*
Apr 6												152.2	0.9	*	*
Apr 7												138.9	0.0	*	*
Apr 8												139.6	0.0	*	*
Apr 9												142.5	0.0	*	*
Apr 10												133.9	0.0	*	*
Apr 11												149.3	10.0	*	43.2
Apr 12												142.7	7.8	*	43.3
Apr 13												154.7	5.0	*	43.3
Apr 14	0						3	3	0	166.3	14.4	10.0	39.7		
Apr 15	0						2	0	0	133.9	0.0	10.0	43.7		
Apr 16	0						8	2	0	151.6	4.6	10.0	43.7		
Apr 17	0						8	4	0	153.0	3.9	10.0	44.1		
Apr 18	0						8	4	0	158.9	12.3	11.0	44.1		
Apr 19	0						7	4	0	160.8	8.8	11.0	44.8		
Apr 20	0						6	3	0	161.0	12.0	12.5	44.6		
Apr 21	0						4	2	0	149.1	0.0	12.5	44.4		
Apr 22	0						7	5	1	118.2	0.7	12.5	44.4		
Apr 23	1						4	3	0	162.5	12.4	14.0	45.5		
Apr 24	1						8	2	0	157.8	11.1	15.0	45.7		
Apr 25	0						9	4	0	161.9	7.7	15.0	45.1		
Apr 26	0						8	5	0	152.5	2.7	15.0	46.4		
Apr 27	0						5	2	0	158.5	12.3	13.0	46.9		
Apr 28	0						3	1	0	140.2	0.2	13.0	46.9		
Apr 29	4						1	0	0	124.0	3.5	13.0	47.1		
Apr 30	7						2	1	0	165.9	9.4	13.0	46.6		
TOTAL	13							93	45	1					
AVG.								5	3	0	154.3	8.5	12.4	44.7	

*Data Unavailable

TABLE 159

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

ROCKY REACH 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	7			0				6	3	0		158.5	5.6	13.0	46.0
May 2	3			0				1	1	0		148.0	5.6	13.0	46.6
May 3	13			0				4	2	0		156.7	3.8	13.0	46.9
May 4	7			0				2	2	0		176.9	22.6	13.5	46.9
May 5	33			0				4	4	0		160.4	3.3	13.5	46.9
May 6	38			0				4	2	1		152.8	0.0	13.5	47.5
May 7	63			0				1	0	0		192.1	25.2	13.0	47.8
May 8	35			0				1	1	0		208.9	22.3	13.0	48.0
May 9	91			0				5	3	1		174.3	0.0	13.0	48.4
May 10	49			1				3	0	0		161.4	0.0	13.0	48.6
May 11	67			3				5	3	1		147.2	0.0	12.0	48.9
May 12	73			2				3	1	0		149.1	0.0	11.0	48.9
May 13	65			1				4	2	0		155.2	0.0	8.0	49.6
May 14	109			4				5	0	0		141.8	0.0	8.0	49.6
May 15	156			3				2	0	1		160.8	0.0	8.5	49.6
May 16	98			5				1	0	3		161.9	0.0	8.5	50.2
May 17	76			7				0	0	2		156.1	0.5	7.5	50.2
May 18	123			23				2	0	1		156.5	0.0	7.0	50.9
May 19	63			25				2	1	2		140.5	0.0	7.5	50.9
May 20	105			35				2	0	0		136.3	0.0	8.0	50.9
May 21	42			17				4	2	1		158.5	0.0	4.5	50.9
May 22	82			35				0	0	1		163.9	0.0	4.0	50.9
May 23	95			32				3	1	3		155.5	0.0	6.0	51.1
May 24	48			28				0	0	3		168.5	0.0	4.5	51.8
May 25	81			18				1	1	0		160.9	0.0	4.5	51.6
May 26	72			30				2	1	1		171.8	0.0	6.0	52.3
May 27	46			49				3	1	1		162.8	0.0	7.0	52.7
May 28	46			84				2	1	3		161.9	0.0	8.0	52.3
May 29	42			55				2	0	2		171.1	0.0	9.5	53.2
May 30	42			45				0	0	2		165.3	0.0	9.0	53.2
May 31	21			34				1	1	1		154.5	0.0	9.0	54.0
TOTAL	1,891			536				75	33	30					
AVG.	61			17				2	1			161.0	2.9	9.3	49.9
RUN YEAR															
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK					STEELHEAD	WILD STEELHEAD	BULL TROUT					
SPRING		1,904	536					168	78	31					

TABLE 160

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

ROCKY REACH PROJECT
JUNE 2007

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	
Jun 1	44			39			0	2	1	1		153.0	5.0	9.0	54.1
Jun 2	35			30			0	2	1	1		144.8	14.3	9.0	54.3
Jun 3	28			26			1	2	2	2		115.2	11.2	9.0	55.2
Jun 4	39			47			0	1	1	3		156.5	19.1	7.5	55.9
Jun 5	22			23			0	0	0	0		167.3	17.3	7.5	55.2
Jun 6	20			19			0	1	1	1		144.1	14.9	6.0	54.9
Jun 7	19			41			0	3	1	0		169.9	21.5	5.0	54.3
Jun 8	22			43			0	1	0	2		189.0	27.9	5.0	55.6
Jun 9	17			20			0	0	0	1		176.3	16.5	5.0	54.1
Jun 10	15			20			0	0	0	0		163.7	14.2	5.5	54.1
Jun 11	11			14			0	0	0	1		173.9	16.7	8.5	54.0
Jun 12	25			8			2	2	2	3		173.2	15.1	8.5	54.5
Jun 13	25			11			2	0	0	2		158.9	14.5	11.5	55.6
Jun 14	27			11			0	2	1	2		162.8	15.6	11.5	55.6
Jun 15	14			11			1	3	1	1		173.3	23.7	11.5	55.6
Jun 16	42			6			5	1	0	0		163.9	17.4	12.0	56.3
Jun 17	32			5			8	1	1	2		135.6	11.1	12.0	56.3
Jun 18	37			4			10	2	1	0		131.2	14.5	12.0	56.8
Jun 19	46			6			13	0	0	4		162.7	14.6	12.0	56.8
Jun 20	40			4			16	1	1	0		159.8	13.8	12.0	57.6
Jun 21	142			9			27	1	0	0		161.3	14.4	12.0	57.9
Jun 22	132			6			39	2	1	1		153.7	13.1	12.0	57.9
Jun 23	119			9			50	3	1	0		123.8	12.1	12.0	58.3
Jun 24		164		15			67	3	2	0		102.2	10.5	13.5	58.3
Jun 25		212		12			110	0	0	1		135.1	14.2	15.0	58.3
Jun 26		245		20			147	0	0	0		133.6	11.5	15.0	57.6
Jun 27		552		28			229	0	0	0		149.7	12.2	15.0	58.3
Jun 28		195		26			219	4	1	0		139.9	11.2	15.0	59.0
Jun 29		541		32			345	4	1	0		145.7	12.7	15.0	58.8
Jun 30		289		36			443	5	4	0		115.8	9.9	15.0	58.8
TOTAL	953	2,198		581			1,734	46	24	28					
AVG.	41	314		19			58	2	1	1		151.2	14.7	10.7	56.3

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	2,857	948
SUMMER	2,198	169
TOTALS	5,055	1,117

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT
1,734	214	102	59

TABLE 161

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

ROCKY REACH PROJECT
JULY 2007

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		469		41			543	7	4	0	0	112.7	8.4	16.0	59.5
Jul 2		430		73			761	5	4	2	0	123.1	13.0	17.5	59.5
Jul 3		446		59			601	7	1	0	0	106.8	13.3	17.5	60.4
Jul 4		885		114			1,256	1	1	0	0	122.6	11.4	17.5	60.4
Jul 5		314		83			1,425	8	2	0	0	141.9	17.5	15.5	61.0
Jul 6		534		131			1,333	7	2	0	0	118.7	11.1	15.5	61.0
Jul 7		749		145			1,297	4	2	3	1	107.8	9.0	15.5	61.0
Jul 8		892		151			1,415	7	3	1	1	98.6	7.0	16.5	62.1
Jul 9		312		57			486	6	5	0	1	134.1	12.1	16.0	62.4
Jul 10		105		57			895	9	0	0	1	140.6	12.9	16.0	63.0
Jul 11		729		176			1,453	11	6	0	0	149.7	12.7	16.0	62.8
Jul 12		637		223			1,067	7	0	2	0	151.9	12.8	16.0	62.2
Jul 13		505		128			727	9	7	1	0	158.8	12.4	16.0	61.5
Jul 14		480		152			736	15	6	0	1	157.5	12.3	16.0	61.9
Jul 15		569		173			670	20	6	0	1	144.0	8.3	17.0	61.9
Jul 16		511		146			553	13	7	0	0	143.7	12.6	18.0	62.1
Jul 17		595		150			382	11	5	0	0	123.8	12.5	18.0	62.8
Jul 18		57		58			177	12	4	1	2	128.9	13.1	18.0	61.9
Jul 19		210		84			248	11	3	0	0	131.1	13.2	18.0	62.4
Jul 20		750		210			419	26	6	0	0	139.7	10.0	18.0	62.4
Jul 21		845		164			304	25	13	0	0	127.8	9.1	18.0	62.4
Jul 22		406		125			278	21	6	0	2	112.1	8.9	18.0	63.3
Jul 23		250		108			219	23	6	0	2	127.7	11.5	18.0	63.3
Jul 24		447		166			230	23	13	0	1	136.0	12.2	18.0	64.0
Jul 25		341		127			208	25	12	1	2	143.4	12.4	17.0	64.4
Jul 26		493		105			196	35	12	0	3	151.4	12.7	16.5	64.4
Jul 27		465		97			131	28	11	1	2	143.0	12.7	16.5	64.2
Jul 28		320		91			146	28	11	0	5	113.0	11.3	16.5	64.2
Jul 29		279		79			82	22	9	0	0	113.1	10.3	16.5	64.2
Jul 30		293		91			87	45	17	0	3	133.1	12.6	17.0	64.4
Jul 31		487		169			100	36	10	0	3	153.4	11.5	17.5	64.8
TOTALS		14,805		3,733			18,425	507	194	12	31	131.9	11.6	16.9	62.4
AVG.		478		120			594	16	6		1				

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	2,857	948
SPRING	17,003	3,902
SUMMER	19,860	4,850

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
20,159	721	296	71	31

TABLE 162

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

ROCKY REACH PROJECT
AUGUST 2007

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
Aug 1		364		101		0	78	42	16	0	7	143.2	11.6	17.5	64.9
Aug 2		179		70		0	34	49	22	0	3	106.8	11.4	17.5	65.7
Aug 3		175		80		0	38	48	24	0	1	127.7	10.3	17.5	65.8
Aug 4		638		127		0	41	61	30	0	2	118.8	9.8	17.5	65.8
Aug 5		281		88		0	19	31	13	0	2	82.3	10.0	17.5	65.8
Aug 6		428		80		0	35	79	35	0	2	107.1	11.8	17.5	66.0
Aug 7		300		64		0	25	84	36	0	3	119.7	11.3	17.0	66.2
Aug 8		263		73		0	31	78	41	0	3	122.3	10.5	17.0	66.0
Aug 9		301		60		0	26	67	29	0	13	133.7	10.1	17.0	65.7
Aug 10		247		82		0	17	69	25	0	5	123.8	10.5	17.0	65.7
Aug 11		107		46		0	12	67	26	0	9	111.6	9.7	17.0	65.8
Aug 12		180		52		0	14	62	23	0	14	106.7	10.1	17.0	65.8
Aug 13		153		37		0	12	77	41	0	10	137.0	11.6	17.0	65.8
Aug 14		85		46		0	8	58	20	0	8	138.5	10.4	17.0	66.0
Aug 15		74		50		0	15	79	38	0	9	129.3	10.9	17.0	66.6
Aug 16		100		37		0	11	59	26	0	24	90.2	9.1	17.0	66.6
Aug 17		190		40		0	12	91	39	0	5	100.2	8.6	17.0	67.1
Aug 18		10		7		0	5	49	21	0	6	80.3	7.3	17.0	67.1
Aug 19		146		40		0	6	50	23	1	11	60.0	8.6	18.0	67.8
Aug 20		201		56		0	23	149	68	0	24	116.2	9.7	19.0	67.5
Aug 21		66		27		0	8	89	38	0	16	122.6	8.0	19.0	66.2
Aug 22		118		43		0	6	136	63	0	19	112.4	0.0	19.0	66.2
Aug 23		62		24		0	8	108	41	0	19	113.7	0.0	19.0	67.6
Aug 24		120		27		0	3	120	53	0	12	111.7	0.0	19.0	67.6
Aug 25		99		26		0	1	101	58	0	5	81.3	0.0	19.0	67.6
Aug 26		106		28		1	4	124	47	0	30	59.7	0.0	19.0	67.6
Aug 27		117		23		0	6	165	66	1	5	104.0	0.0	19.0	67.6
Aug 28		66		21		0	2	110	52	0	29	100.9	0.0	19.0	68.0
Aug 29		97		28		0	1	173	72	0	5	113.1	0.0	19.0	68.0
Aug 30		50		12		0	2	147	59	0	3	130.9	0.0	19.0	68.0
Aug 31		56		20		0	1	155	72	0	24	122.9	0.5	19.0	68.2
TOTAL		5,379		1,515		1	504	2,777	1,217	2	328				
AVG.		174		49		0	16	90	39	0	11	110.6	6.8	17.9	66.7
RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY							
SPRING	2,857	948	1	20,663	3,498	1,513	73	359							
SUMMER	22,382	5,417													
TOTALS	25,239	6,365													

TABLE 163

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

ROCKY REACH PROJECT
SEPTEMBER 2007

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	TURBIDITY DEG F
Sep 1		18		12	0	0	0	104	48	0	9	81.3	1.9	19.0	68.2
Sep 2			58	28	0	0	1	113	42	0	7	69.3	0.0	19.0	68.4
Sep 3			50	17	0	1	1	151	67	0	12	72.3	0.0	19.0	68.2
Sep 4			97	14	0	1	2	176	68	0	14	68.9	0.0	19.5	68.5
Sep 5			36	23	0	0	0	121	61	0	21	78.1	0.0	19.5	68.9
Sep 6			61	23	0	1	0	127	53	0	19	46.9	0.0	19.5	69.6
Sep 7			81	21	0	0	0	95	45	0	7	55.9	0.0	19.5	68.7
Sep 8			32	23	0	0	3	189	87	0	12	56.9	0.0	19.5	69.3
Sep 9			28	21	0	0	0	147	60	0	6	48.0	0.0	19.5	69.4
Sep 10			26	11	0	0	0	61	18	0	16	71.0	0.0	19.5	69.1
Sep 11			34	15	0	3	0	144	59	0	8	66.2	0.0	19.5	69.1
Sep 12			66	19	1	1	1	204	78	0	7	70.9	0.0	19.5	68.5
Sep 13			54	22	0	0	0	153	58	0	4	65.5	0.0	19.5	68.4
Sep 14			62	31	0	0	1	236	89	0	1	65.8	0.0	19.5	68.2
Sep 15			28	21	2	1	0	136	46	0	7	54.1	0.0	19.5	68.0
Sep 16			5	16	2	1	0	108	40	0	4	52.3	0.0	19.5	68.0
Sep 17			10	14	0	1	0	76	25	0	5	62.0	0.0	19.5	67.1
Sep 18			16	21	4	0	0	188	60	0	3	62.5	0.0	19.5	67.1
Sep 19			30	37	3	0	1	97	38	1	2	67.4	0.0	19.5	66.7
Sep 20			40	23	4	2	0	136	46	0	1	55.9	0.0	19.5	66.4
Sep 21			24	34	6	2	0	170	64	0	5	46.7	0.0	19.5	66.0
Sep 22			49	25	6	1	0	159	55	0	5	39.1	0.0	19.5	65.8
Sep 23			42	25	8	0	1	116	42	0	3	39.0	2.9	19.5	64.9
Sep 24			29	27	2	0	1	140	50	0	0	74.2	0.0	19.5	64.6
Sep 25			18	18	13	2	0	208	74	0	0	64.9	0.0	19.5	64.6
Sep 26			30	22	10	1	2	109	40	0	1	65.2	0.0	19.5	64.8
Sep 27			17	27	16	5	3	202	52	0	2	67.6	0.0	19.5	64.8
Sep 28			23	22	29	4	0	160	70	0	0	46.1	0.0	19.5	64.8
Sep 29			9	21	35	1	0	104	48	0	0	38.3	0.0	19.5	64.0
Sep 30			15	9	30	0	0	117	33	0	0	45.3	0.0	19.5	63.5
TOTAL		18	1,070	642	171	28	17	4,247	1,616	1	181				
AVG.			37	21	6	1	1	142	54	0	6	59.9	0.2	19.5	67.1

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	2,857	948
SPRING	22,400	5,429
SUMMER	1,070	630
FALL		
TOTALS	26,327	7,007

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
171	29	20,680	7,745	3,129	74	540

TABLE 164

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCKY REACH PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

OCTOBER 2007

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			30	18	91	1	1	241	76	0	1	68.0	0.3	19.5	63.3
Oct 2			19	10	76	0	1	101	40	0	0	72.9	0.0	19.5	63.0
Oct 3			16	17	86	2	0	141	47	0	0	74.1	0.0	19.5	62.6
Oct 4			23	19	92	3	0	190	55	0	0	63.2	0.0	19.5	62.4
Oct 5			18	10	121	0	0	123	43	0	0	73.1	0.0	19.5	62.4
Oct 6			25	14	68	0	0	81	30	0	0	35.6	0.0	19.5	62.1
Oct 7			18	26	71	1	0	98	37	0	0	40.2	0.0	19.5	62.1
Oct 8			56	15	182	2	0	90	23	0	0	74.2	0.0	19.5	61.5
Oct 9			19	9	145	5	1	108	39	0	0	73.3	0.0	19.5	61.5
Oct 10			30	19	151	6	0	78	28	0	0	72.5	0.0	19.5	61.5
Oct 11			15	14	130	1	0	80	23	0	0	73.1	0.0	19.5	61.5
Oct 12			20	25	157	1	0	75	18	1	0	65.0	0.0	19.5	61.5
Oct 13			16	13	208	2	0	79	21	0	0	46.3	0.0	21.0	62.1
Oct 14			22	11	216	6	0	56	17	0	0	54.4	0.0	23.0	62.1
Oct 15			47	7	176	4	0	66	12	0	0	75.5	0.0	23.0	62.1
Oct 16			19	14	174	3	0	51	16	0	0	71.0	0.0	23.0	62.1
Oct 17			15	12	289	0	0	66	21	0	0	66.1	0.0	23.0	62.1
Oct 18			16	11	233	3	0	48	24	0	0	71.5	0.0	23.0	61.2
Oct 19			19	18	222	1	0	55	21	0	0	64.9	0.0	23.0	61.2
Oct 20			22	17	142	3	0	37	13	0	0	53.6	0.0	23.0	61.2
Oct 21			17	7	90	1	0	18	8	0	0	43.6	0.0	23.0	60.3
Oct 22			27	17	107	6	0	35	12	0	0	63.8	11.9	23.0	59.5
Oct 23			19	17	135	0	0	46	13	0	0	60.5	0.0	23.0	59.9
Oct 24			27	9	64	1	0	24	11	0	0	64.2	0.9	23.0	59.9
Oct 25			20	18	110	6	0	71	25	1	0	79.9	0.0	23.0	59.4
Oct 26			8	4	124	1	0	52	15	0	0	74.6	0.0	23.0	59.4
Oct 27			26	6	86	0	0	55	22	0	0	54.5	0.0	23.0	59.0
Oct 28			7	8	74	3	0	24	7	0	0	45.0	0.0	23.0	59.0
Oct 29			23	6	52	0	0	10	5	0	0	66.1	0.0	23.0	58.6
Oct 30			12	7	80	2	0	10	5	1	0	73.6	0.0	23.0	58.5
Oct 31			12	2	55	2	0	18	6	0	0	82.6	0.0	23.0	57.0
TOTAL			663	400	4,007	66	3	2,227	733	3	1				
AVG.			21	13	129	2	0	72	24	0	0	64.4	0.4	21.6	61.0

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	2,857	948
SUMMER	22,400	5,429
FALL	1,733	1,030
TOTALS	26,990	7,407

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
4,178	95	20,683	9,972	3,862	77	541

TABLE 165

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

ROCKY REACH PROJECT
NOVEMBER 2007

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			10	4	100	2		13	6			69.8	0.0	23.0	57.7
Nov 2			10	10	89	1		23	6			82.4	0.0	23.0	57.7
Nov 3			14	3	74	0		10	2			44.3	0.0	23.0	57.4
Nov 4			25	7	48	0		14	5			45.4	0.0	23.0	57.0
Nov 5			13	4	30	1		11	3			61.0	0.0	23.0	57.0
Nov 6			3	2	24	1		8	2			74.4	0.0	23.0	57.0
Nov 7			8	1	22	0		6	0			70.1	0.0	23.0	56.1
Nov 8			10	1	11	0		6	2			62.9	0.0	23.0	56.1
Nov 9			6	0	6	0		8	3			94.9	0.1	23.0	55.8
Nov 10			7	2	15	0		12	3			89.6	0.0	23.0	55.8
Nov 11			5	3	11	0		11	2			74.2	0.0	23.0	55.9
Nov 12			10	2	8	1		11	2			99.6	0.0	23.0	55.6
Nov 13			3	0	3	0		20	10			100.7	0.0	23.0	55.4
Nov 14			13	3	10	1		13	8			114.9	0.2	23.0	55.4
Nov 15			4	1	5	2		8	2			94.0	0.0	23.0	55.4
Nov 16												52.6	0.0	*	*
Nov 17												58.8	0.0	*	*
Nov 18												61.8	0.0	*	*
Nov 19												87.0	0.0	*	*
Nov 20												76.1	0.0	*	*
Nov 21												79.4	0.0	*	*
Nov 22												60.3	0.0	*	*
Nov 23												79.6	0.0	*	*
Nov 24												88.4	0.0	*	*
Nov 25												84.4	3.5	*	*
Nov 26												119.2	0.0	*	*
Nov 27												89.6	0.0	*	*
Nov 28												107.5	0.0	*	*
Nov 29												93.0	0.0	*	*
Nov 30												93.1	0.0	*	*
TOTAL			141	43	456	9		174	56						
AVG.			9	3	30	1		12	4			80.3	0.1	23.0	56.4

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	2,857	948
SUMMER	22,400	5,429
FALL	1,874	1,073
TOTALS	27,131	7,450

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
4,634	104	20,683	10,146	3,918	77	541

*Data unavailable

TABLE 166

**MONTHLY COUNT OF STEELHEAD
ROCKY REACH DAM: 1981 - 2007**

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
2007				93	75	46	507	2,777	4,247	2,227	174		10,146
Total				1,910	1,756	2,063	21,120	67,447	113,156	40,782	4,738		252,972
10-Year Average				111	46	64	913	2,888	5,040	1,542	160		10,764

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 (May 1 to June 28), summer Chinook (June 29 to August 28), and fall Chinook (August 29 to November 15). Starting on May 1, 2004, records of passage were made for 12 months of the year. While reports to the Corps are during the historic period of May 1 – November 15, records of passage outside these dates are available from the Douglas PUD upon request.

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 2007 were as follows:

East Ladder

January 1 – March 8 Inspection & Maintenance
December 1 – 31 (Outage will extend into 2008)

West Ladder

March 12 – 30 Inspection and Maintenance

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 endwall 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/web/Adult/index.html>). 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.

JUVENILE PASSAGE FACILITIES

The juvenile bypass at Wells Dam uses the hydrocombine design of the dam by modifying five of the eleven spill bays. The even number 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 2007 was coordinated with the Wells Habitat Conservation Plan Coordinating Committee and with the Wells 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 both committees 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 1.4 MAF, or 7.1% 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 6.6% of the total discharge.

MISCELLANEOUS

In 2007, 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 monitoring of bull trout at Wells is being done through a cooperative effort with the US Fish and Wildlife Service.

Starting in 2006, the District, with fisheries agencies and tribes that serve on the HCP Coordinating Committee, sought a way to reduce delay for ascending adult salmon and steelhead through the Fish Collection Gallery at the base of the fish ladder at Wells Dam. In 2007, a flow directing baffle was placed at weir 1, at the very start of the east fish ladder. This structure had been engineered in a hydraulics lab to provide better attraction flows for the fish. From July through October, summer Chinook were collected from the ladder and fitted with radio tags and returned to the tailrace of Wells Dam. As these fish ascended the dam, their timing through both fishways was compared. The study did indicate that fish ascended faster on the side with the flow guiding baffle. The HCP-Coordinating Committee members supported the District's desire to install a second baffle on the west ladder during the winter maintenance period for 2007 – 08.

TABLE 167

MONTHLY TOTALS OF SALMONIDS AND LAMPREY COUNTED OVER WELLS DAM
2007

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*					1,092	1,984	11,437	5,367	1,272	1,027	101		22,280
STEELHEAD					45	18	250	1,605	3,332	2,033	217		7,500
SOCKEYE						731	20,310	1,184	18	30			22,273
COHO									11	1,849	572		2,432
TOTAL					1,137	2,733	31,997	8,156	4,633	4,939	890		54,485
LAMPREY								13	22				35
BULL TROUT					23	29	6	1					59

*Jacks included

TABLE 168

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

WELLS PROJECT
MAY 2007

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
May 1	0			0				4	3	0		154.9	13.0	12.0	46.7
May 2	0			0				4	2	0		143.3	10.3	12.0	46.6
May 3	1			0				1	1	0		161.4	15.6	11.0	46.6
May 4	6			0				4	3	0		177.4	36.9	11.0	46.7
May 5	1			0				1	0	0		157.7	17.3	11.0	47.2
May 6	2			0				0	0	0		155.0	9.8	11.0	47.6
May 7	5			0				2	2	0		193.7	39.5	13.0	47.7
May 8	17			0				4	4	0		197.7	60.8	13.0	48.0
May 9	16			0				4	1	0		166.7	10.0	13.0	48.6
May 10	5			0				2	0	0		159.2	10.9	13.0	48.8
May 11	12			0				2	1	0		145.1	13.0	13.0	49.2
May 12	10			0				3	3	0		154.5	20.2	13.0	49.0
May 13	15			0				2	1	0		142.0	33.8	13.0	49.0
May 14	16			1				0	0	1		148.0	13.2	13.0	49.4
May 15	33			0				1	0	0		166.1	16.4	13.0	49.9
May 16	24			2				1	0	0		162.5	18.7	9.0	50.1
May 17	14			5				0	0	0		147.3	15.0	9.0	50.5
May 18	51			5				0	0	1		150.5	19.7	9.0	50.6
May 19	44			2				1	0	0		135.5	12.5	9.0	50.7
May 20	23			7				2	2	1		132.4	12.3	7.0	50.5
May 21	28			7				0	0	0		160.3	22.4	6.0	50.5
May 22	21			14				2	2	1		155.9	14.6	6.0	51.0
May 23	34			14				0	0	2		157.2	13.6	6.0	51.0
May 24	86			23				1	1	1		169.8	23.6	6.0	51.6
May 25	62			16				0	0	5		165.4	20.6	8.0	51.9
May 26	63			42				0	0	1		169.9	30.2	8.0	52.2
May 27	47			36				0	0	3		159.5	17.9	8.0	52.4
May 28	24			25				0	0	0		160.2	15.8	10.0	52.5
May 29	26			37				3	1	2		171.6	16.4	10.0	53.2
May 30	56			58				0	0	4		164.0	24.1	10.0	53.3
May 31	34			22				1	1	1		151.3	14.1	8.0	53.4
TOTAL	776			316				45	28	23					
AVG.	25			10				1	1	1		159.2	19.7	10.1	49.9
RUN YEAR															
TOTALS TO DATE															
SPRING				776				45	28	23					
				316											

TABLE 169

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

WELLS PROJECT
JUNE 2007

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	54			36			0	2	2	1		153.7	16.6	8.0	54.2
Jun 2	46			21			0	0	0	3		135.0	12.8	8.0	55.0
Jun 3	30			27			0	0	0	2		113.4	10.9	8.0	55.4
Jun 4	40			36			0	0	0	6		161.2	13.7	8.0	55.3
Jun 5	24			24			0	0	0	2		157.0	16.3	7.0	54.6
Jun 6	9			11			0	0	0	0		142.3	10.0	8.0	54.5
Jun 7	51			39			0	0	0	0		176.4	13.1	5.0	54.4
Jun 8	18			19			0	0	0	0		191.4	29.2	5.0	54.2
Jun 9	7			16			0	0	0	0		175.4	14.6	6.0	53.8
Jun 10	47			36			0	0	0	2		161.5	10.8	4.0	54.2
Jun 11	29			20			0	2	2	0		175.7	12.2	4.0	55.3
Jun 12	14			14			0	1	1	0		169.1	10.0	4.0	56.0
Jun 13	14			18			1	2	2	0		160.0	10.0	8.0	56.0
Jun 14	17			10			3	1	0	2		163.7	10.0	9.0	56.2
Jun 15	8			10			1	0	0	3		183.1	23.6	9.0	56.2
Jun 16	23			11			0	0	0	0		158.8	11.4	9.0	56.2
Jun 17	12			4			1	0	0	1		131.0	9.6	9.0	56.3
Jun 18	4			5			1	0	0	0		143.3	10.0	9.0	57.0
Jun 19	25			11			6	1	0	0		164.3	10.0	11.0	57.1
Jun 20	20			11			8	1	1	2		164.0	10.3	11.0	57.1
Jun 21	25			3			12	0	0	0		165.2	12.1	11.0	57.4
Jun 22	20			8			14	0	0	2		147.8	9.2	11.0	58.1
Jun 23	122			6			9	1	1	0		120.4	7.9	10.0	58.6
Jun 24	50			4			27	0	0	1		103.5	7.9	10.0	58.6
Jun 25	42			4			40	0	0	1		140.4	10.0	6.0	58.4
Jun 26	27			7			65	0	0	0		143.3	16.3	10.0	58.4
Jun 27	263			9			83	4	4	0		147.0	8.4	10.0	58.2
Jun 28	224			16			131	0	0	0		147.1	8.7	12.0	58.2
Jun 29		159		21			170	1	1	1		146.6	9.3	12.0	58.5
Jun 30		97		6			159	2	0	0		118.4	8.1	10.0	58.9
TOTAL	1,265	256		463			731	18	14	29					
AVG.	45	128		15			24	1	0	1		152.0	12.1	8.4	56.4
RUN YEAR TOTALS TO DATE															
		CHINOOK ADULT	CHINOOK JACK				SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT					
SPRING		2,041	752				731	63	42	52					
SUMMER		256	27												
TOTAL		2,297	779												

TABLE 170

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

WELLS PROJECT
JULY 2007

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
Jul 1		285		13			339	2	1	1		112.8	7.9	10.0	59.5
Jul 2		88		9			328	2	2	0		119.9	8.1	10.0	59.5
Jul 3		324		30			465	3	1	0		115.7	8.2	10.0	59.8
Jul 4		593		84			789	2	0	0		121.9	8.2	10.0	60.3
Jul 5		259		34			647	2	1	0		146.8	16.0	12.0	60.7
Jul 6		247		31			943	3	2	0		112.7	8.8	12.0	61.1
Jul 7		319		61			1,469	3	1	1		106.3	7.9	12.0	61.4
Jul 8		172		63			1,037	3	1	1		95.6	6.7	10.0	61.5
Jul 9		453		60			709	4	2	0		134.9	9.8	12.0	61.6
Jul 10		618		94			1,201	4	1	1		145.9	10.0	12.0	61.0
Jul 11		112		28			1,348	3	0	1		152.3	10.0	12.0	60.7
Jul 12		504		103			1,252	7	4	0		155.0	10.0	12.0	60.8
Jul 13		192		67			1,227	3	1	0		160.6	10.0	12.0	61.0
Jul 14		309		69			1,202	5	3	0		153.5	10.0	12.0	61.1
Jul 15		801		134			948	10	0	0		146.4	8.9	10.0	61.9
Jul 16		124		47			732	4	1	0		143.4	10.0	12.0	62.1
Jul 17		101		74			523	7	5	0		132.5	10.0	12.0	61.8
Jul 18		125		63			648	3	2	0		133.5	11.7	12.0	61.7
Jul 19		262		103			619	9	7	0		130.0	7.8	12.0	61.7
Jul 20		213		35			468	10	5	1		139.9	10.8	12.0	62.0
Jul 21		626		98			466	7	4	0		127.2	8.3	14.0	62.1
Jul 22		163		46			410	7	1	0		110.2	7.9	12.0	62.7
Jul 23		328		101			329	11	7	0		135.1	9.5	12.0	63.3
Jul 24		309		41			390	11	5	0		135.4	8.5	14.0	63.4
Jul 25		204		75			379	21	9	0		148.5	12.8	14.0	63.3
Jul 26		411		145			405	24	12	0		152.8	10.0	14.0	63.4
Jul 27		243		106			242	14	7	0		139.7	9.0	14.0	63.5
Jul 28		259		91			197	31	17	0		108.0	7.6	14.0	64.0
Jul 29		219		73			214	15	8	0		112.2	7.7	14.0	64.5
Jul 30		233		71			187	8	6	0		138.6	10.3	16.0	64.7
Jul 31		264		28			197	12	9	0		155.0	9.3	16.0	64.7
TOTAL		9,360		2,077			20,310	250	125	6					
AVG.		302		67			655	8	4	0		133.0	9.4	12.3	61.9
RUN YEAR		CHINOOK ADULT		CHINOOK JACK			SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT					
TOTALS TO DATE															
SPRING		2,041		752			21,041	313	167	58					
SUMMER		9,616		2,104											
TOTAL		11,657		2,856											

TABLE 171

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

WELLS PROJECT
AUGUST 2007

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
Aug 1		174		67			133	12	8	0	0	140.4	8.6	14.0	64.6
Aug 2		110		40			111	28	12	0	0	114.3	8.3	14.0	65.1
Aug 3		455		86			199	44	18	0	0	130.9	8.5	15.0	65.1
Aug 4		168		42			76	33	18	0	0	115.5	8.2	12.0	65.2
Aug 5		45		24			52	27	18	0	0	86.7	6.4	12.0	65.8
Aug 6		317		110			60	24	11	1	0	107.9	7.2	12.0	65.6
Aug 7		332		131			63	29	11	0	0	123.4	8.2	14.0	65.3
Aug 8		188		88			35	35	19	0	0	125.9	8.1	14.0	65.4
Aug 9		262		95			89	65	35	0	0	140.4	8.9	14.0	65.4
Aug 10		212		96			77	46	26	0	0	120.1	8.6	14.0	65.8
Aug 11		112		53			41	37	17	0	0	121.4	7.9	14.0	66.1
Aug 12		75		36			27	49	23	0	1	108.7	7.4	14.0	66.0
Aug 13		72		31			40	21	8	0	0	134.7	8.4	13.0	65.9
Aug 14		79		35			28	21	10	0	0	142.4	9.0	14.0	66.1
Aug 15		78		31			16	36	23	0	0	128.1	7.9	14.0	66.5
Aug 16		38		38			14	48	27	0	1	93.1	6.8	16.0	66.6
Aug 17		61		40			13	57	28	0	0	100.0	7.5	14.0	66.7
Aug 18		53		46			5	42	26	0	1	78.5	6.2	12.0	66.9
Aug 19		69		36			9	40	21	0	1	68.9	5.6	12.0	66.7
Aug 20		40		21			10	25	10	0	0	119.1	8.7	13.0	66.3
Aug 21		151		71			21	40	18	0	0	127.6	8.1	14.0	66.3
Aug 22		33		44			15	39	19	0	0	108.6	7.5	12.0	66.2
Aug 23		78		36			23	78	39	0	1	120.4	8.1	12.0	66.5
Aug 24		60		28			10	66	38	0	0	116.0	7.8	12.0	67.3
Aug 25		32		10			4	88	48	0	1	79.4	5.2	14.0	67.5
Aug 26		120		38			2	96	42	0	1	64.6	5.5	14.0	67.4
Aug 27		34		22			1	74	26	0	2	104.0	0.0	14.0	67.5
Aug 28		180		74			4	76	33	0	1	103.2	0.0	14.0	67.4
Aug 29			33	24			2	71	27	0	1	122.2	0.0	14.0	67.5
Aug 30			27	31			1	95	51	0	1	134.9	0.0	14.0	67.1
Aug 31			111	44			3	163	88	0	1	125.1	0.5	14.0	67.3
TOTAL		3,628	171	1,568			1,184	1,605	798	1	13				
AVG.		130	57	51			38	52	26	0	0	113.1	6.4	13.5	66.3
RUN YEAR															
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK				SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY				
SPRING		2,041	752				22,225	1,918	965	59	13				
SUMMER		13,244	3,573												
FALL		171	99												
TOTAL		15,456	4,424												

TABLE 172

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

WELLS PROJECT
SEPTEMBER 2007

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			25	28	0		2	113	58		0	73.3	0.5	14.0	67.7
Sep 2			72	31	0		2	140	76		1	69.7	0.0	14.0	67.9
Sep 3			69	25	0		0	147	73		1	73.3	0.0	14.0	68.1
Sep 4			17	20	0		0	38	22		0	69.2	0.0	14.0	68.4
Sep 5			22	16	0		1	62	29		1	73.4	0.0	14.0	68.3
Sep 6			20	19	0		2	93	45		0	50.8	0.0	14.0	68.4
Sep 7			69	40	0		2	136	76		2	56.6	0.0	14.0	67.8
Sep 8			56	39	0		1	108	48		1	54.8	0.0	14.0	67.4
Sep 9			32	22	0		2	83	38		3	51.9	0.0	14.0	67.5
Sep 10			38	23	0		0	120	58		3	68.2	0.0	14.0	67.3
Sep 11			15	19	0		0	85	50		0	62.9	0.0	14.0	67.2
Sep 12			46	33	0		2	109	38		0	73.0	0.0	14.0	67.0
Sep 13			18	31	0		0	117	49		0	66.0	0.0	14.0	66.6
Sep 14			19	7	0		0	125	67		1	63.0	0.0	14.0	66.6
Sep 15			9	13	0		0	119	53		0	54.9	0.0	15.0	66.7
Sep 16			27	31	0		0	253	115		0	48.8	0.0	15.0	66.2
Sep 17			17	12	0		0	89	42		0	62.7	0.0	14.0	66.0
Sep 18			8	18	0		0	81	35		0	64.3	0.0	14.0	66.3
Sep 19			7	7	0		1	111	44		0	64.7	0.0	14.0	66.0
Sep 20			4	8	0		0	101	41		3	54.9	0.0	14.0	65.8
Sep 21			4	9	0		0	55	23		3	50.3	0.0	14.0	65.4
Sep 22			23	18	0		0	114	54		0	42.6	0.0	14.0	65.1
Sep 23			22	13	1		0	115	51		3	38.5	0.0	14.0	65.0
Sep 24			4	10	0		0	55	21		0	73.0	0.0	14.0	64.7
Sep 25			5	12	0		0	68	35		0	64.0	0.0	14.0	64.5
Sep 26			3	11	0		0	84	28		0	67.7	0.0	14.0	64.6
Sep 27			19	13	1		1	206	83		0	73.0	0.0	14.0	64.5
Sep 28			12	13	2		2	134	60		0	48.1	0.0	14.0	64.4
Sep 29			7	17	3		0	126	55		0	39.3	0.0	14.0	64.1
Sep 30			13	12	4		0	145	68		0	47.3	0.0	14.0	63.6
TOTAL			702	570	11		18	3,332	1,535		22				
AVG.			23	19	0		1	111	51		1	60.0	0.0	14.1	66.3

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	2,041	752
SUMMER	13,244	3,573
FALL	873	669
TOTAL	16,158	4,994

COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
11	22,243	5,250	2,500	59	35

TABLE 173

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

WELLS PROJECT
OCTOBER 2007

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			9	9	4		0	69	31			65.9	0.0	14.0	63.3	
Oct 2			5	6	1		2	92	42			73.9	0.0	14.0	63.2	
Oct 3			8	10	6		4	64	25			73.1	0.0	14.0	63.2	
Oct 4			13	13	18		5	143	57			66.6	0.0	14.0	62.7	
Oct 5			19	14	11		6	205	86			70.4	0.0	14.0	62.5	
Oct 6			15	8	10		2	82	38			35.4	0.0	14.0	62.6	
Oct 7			35	19	45		3	146	61			39.0	0.0	14.0	62.5	
Oct 8			22	9	10		1	50	21			76.9	0.0	14.0	62.6	
Oct 9			14	5	9		0	59	27			70.5	0.0	14.0	62.6	
Oct 10			18	10	16		1	74	29			73.5	0.0	16.0	63.0	
Oct 11			13	12	40		2	55	17			72.9	0.0	16.0	63.0	
Oct 12			27	23	37		1	112	47			67.3	0.1	16.0	62.9	
Oct 13			43	10	67		3	61	24			47.7	0.0	16.0	62.8	
Oct 14			37	17	66		0	101	39			53.5	0.0	16.0	62.7	
Oct 15			63	19	55		0	68	19			75.0	0.0	14.0	62.5	
Oct 16			66	24	74		0	103	33			71.7	0.0	14.0	62.5	
Oct 17			65	23	86		0	54	15			65.9	0.0	14.0	62.4	
Oct 18			40	8	57		0	58	15			66.9	0.0	14.0	61.8	
Oct 19			34	9	166		0	63	29			66.3	0.0	14.0	61.4	
Oct 20			24	21	75		0	39	21			52.2	0.0	14.0	61.0	
Oct 21			24	17	88		0	23	7			38.9	0.0	14.0	60.8	
Oct 22			24	15	105		0	18	7			68.3	4.1	16.0	60.6	
Oct 23			13	8	119		0	32	12			61.5	0.0	14.0	60.4	
Oct 24			10	8	81		0	32	14			65.0	0.1	14.0	60.9	
Oct 25			3	6	118		0	43	16			79.9	0.0	14.0	60.5	
Oct 26			5	5	74		0	26	13			77.1	0.0	14.0	60.0	
Oct 27			7	7	98		0	51	27			52.6	0.0	14.0	59.6	
Oct 28			6	2	83		0	33	11			45.0	0.0	14.0	59.5	
Oct 29			4	0	101		0	27	17			68.1	0.0	13.0	59.2	
Oct 30			5	4	64		0	19	9			72.9	0.0	13.0	58.8	
Oct 31			14	1	65		0	31	17			81.3	0.0	14.0	58.7	
TOTAL			685	342	1,849		30	2,033	826							
AVG.			22	11	60		1	66	27			64.4	0.1	14.3	61.6	

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	2,041	752
SPRING	13,244	3,573
SUMMER	1,558	1,011
FALL		
TOTAL	16,843	5,336

COHO ADULT
1,860

SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
22,273	7,283	3,326	59	35

TABLE 174

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

WELLS PROJECT
NOVEMBER 2007

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
Nov 1			10	2	85			18	6			68.8	0.0	14.0	58.3
Nov 2			11	2	77			23	8			86.5	0.0	14.0	57.9
Nov 3			7	5	60			17	10			39.4	0.0	14.0	57.7
Nov 4			6	6	89			11	4			41.0	0.0	14.0	57.4
Nov 5			11	2	64			21	7			67.5	0.0	14.0	57.1
Nov 6			8	6	49			21	5			74.2	0.0	14.0	56.7
Nov 7			3	0	38			16	5			63.2	0.0	14.0	57.1
Nov 8			2	2	19			10	4			67.1	0.0	14.0	56.9
Nov 9			3	0	17			9	2			96.7	0.1	15.0	56.8
Nov 10			2	0	25			16	8			87.5	0.0	16.0	56.8
Nov 11			1	0	9			10	3			74.7	0.0	15.0	56.6
Nov 12			4	1	21			10	4			101.7	0.3	15.0	56.2
Nov 13			3	0	9			9	5			98.3	0.0	15.0	55.8
Nov 14			2	0	6			15	5			117.2	0.2	14.0	55.6
Nov 15			2	0	4			11	8			87.6	0.0	15.0	55.3
Nov 16												57.3	0.0	*	55.0
Nov 17												56.3	0.0	*	54.8
Nov 18												62.1	0.0	*	54.5
Nov 19												83.6	0.0	*	54.1
Nov 20												79.5	0.1	*	53.9
Nov 21												80.3	0.0	*	53.8
Nov 22												53.9	0.0	*	53.4
Nov 23												84.4	0.0	*	52.5
Nov 24												87.8	0.0	*	51.9
Nov 25												84.3	2.0	*	51.9
Nov 26												120.4	0.1	*	51.6
Nov 27												87.0	0.0	*	51.3
Nov 28												111.0	0.0	*	51.0
Nov 29												94.9	0.0	*	51.0
Nov 30												90.7	0.0	*	51.0

TOTALS		75	26	572			217	84				80.2	0.1	14.5	54.8
AVG.		5	2	38			14	6							

*Data unavailable.

RUN YEAR	CHINOOK ADULT		CHINOOK JACK	COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	BULL TROUT	LAMPREY
	TOTALS TO DATE								
SPRING	2,041	752		2,432	22,273	7,500	3,410	59	35
SUMMER	13,244	3,573							
FALL	1,633	1,037							
TOTAL	16,918	5,362							

TABLE 175

**MONTHLY COUNT OF STEELHEAD
WELLS DAM: 1976 - 2007**

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
2007					45	18	250	1,605	3,332	2,033	217		7,500
TOTAL					2,022	1,279	13,399	51,562	98,143	52,479	8,922		227,806
10-Year Average					37	22	461	1,981	3,864	1,562	180		8,107

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