



US Army Corps
of Engineers®
Portland District
Walla Walla District

Annual Fish Passage Report 2005



Columbia and Snake River Projects

2005

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*

NORTH PACIFIC DIVISION
U.S. ARMY CORPS OF ENGINEERS

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

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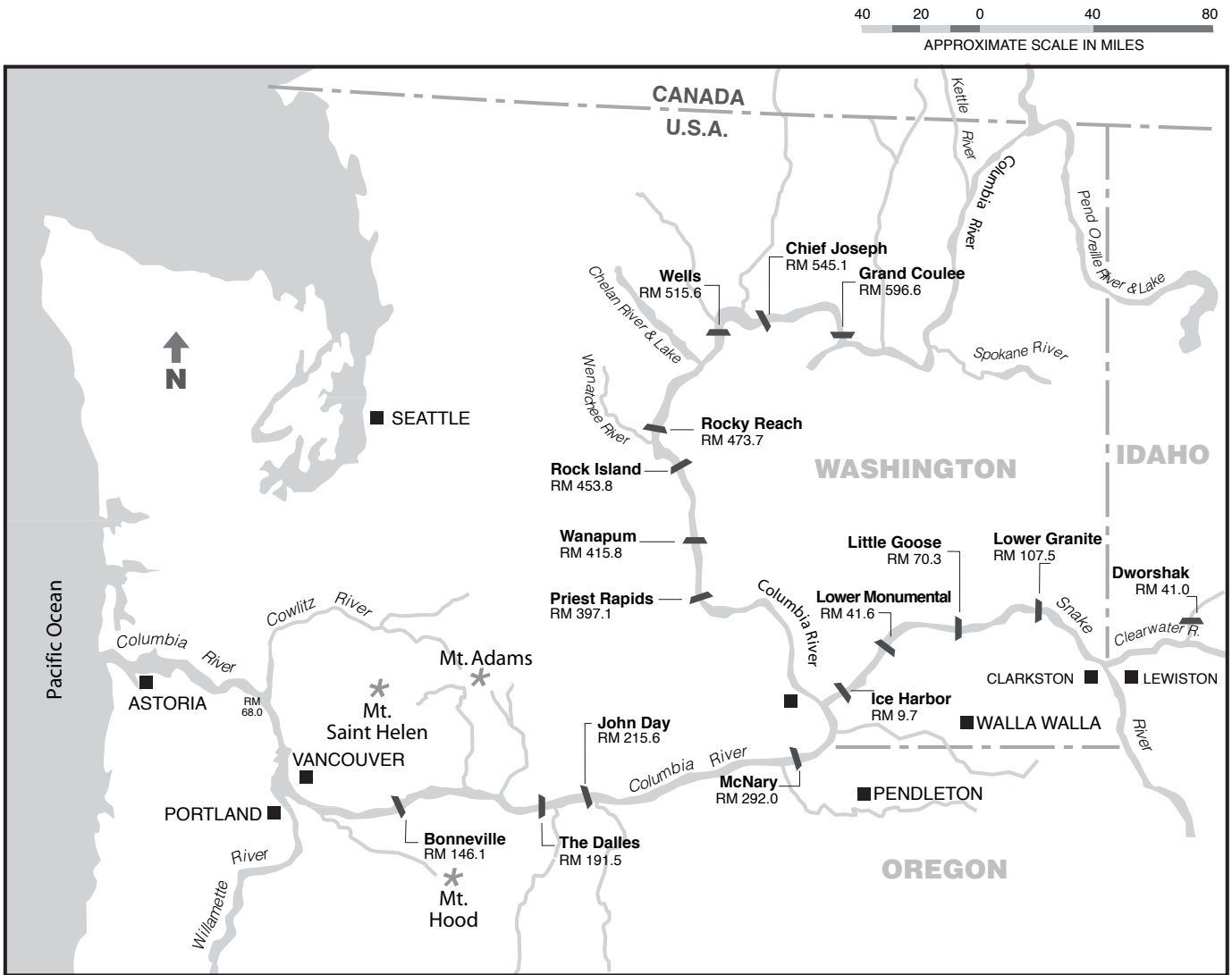


TABLE 1

FISH ESCAPEMENT AT MAIN STEM DAMS ON THE COLUMBIA AND SNAKE RIVERS: 2001-2005

SPECIES	BONNEVILLE	THE DALLES	JOHN DAY	M McNARY	ICE HARBOR	LOWER MONUMENTAL	LITTLE GOOSE	LOWER GRANITE
2001								
CHINOOK*	971,119	629,334	510,987	489,784	215,697	225,322	214,368	210,381
Spring*	405,539	313,865	270,385	265,372	174,199	182,614	177,811	175,093
Summer*	90,879	82,388	74,235	77,514	17,667	20,899	18,732	17,539
Fall*	474,701	233,081	166,367	146,898	23,831	21,809	17,825	17,749
Jacks	103,391	72,644	57,877	52,664	15,619	11,918	12,782	15,773
STEELHEAD	633,073	503,327	483,409	398,784	283,694	252,923	232,669	262,568
SOCKEYE	114,934	102,562	107,869	97,188	38	32	72	36
COHO*	266,314	64,557	51,181	24,730	1,595	957	540	1,087
Adults	259,533	62,378	48,870	22,918	1,501	798	490	968
Jacks	6,781	2,179	2,311	1,812	94	159	50	119
SHAD	2,297,959	2,724,948	1,796,826	1,063,568	287,874	224,248	63,102	18,432
LAMPREY	27,947	9,061	4,005	2,539	203	60	104	27
2002								
CHINOOK*	924,585	583,155	447,729	417,090	137,404	124,673	119,324	119,304
Spring*	275,290	185,046	142,290	133,229	87,033	77,841	79,047	77,114
Summer*	135,388	118,812	110,969	116,747	29,044	25,454	23,108	24,112
Fall*	513,907	279,297	194,470	167,114	21,327	21,378	17,169	18,078
Jacks	54,644	42,982	37,568	36,114	10,342	9,432	8,333	9,769
STEELHEAD	480,309	387,920	390,300	286,805	202,173	212,639	203,494	218,718
SOCKEYE	49,610	40,554	41,915	39,424	61	46	38	55
COHO*	94,901	12,786	9,272	3,192	231	149	133	395
Adults	88,084	9,765	7,669	2,144	199	138	109	246
Jacks	6,817	3,021	1,603	1,048	32	11	24	149
SHAD	3,164,556	3,218,050	1,850,942	599,294	81,373	58,677	15,171	3,119
LAMPREY	100,476	23,417	26,821	11,282	1,127	284	365	138
2003								
CHINOOK*	992,231	608,153	467,085	420,603	143,197	122,817	114,458	119,676
Spring*	206,268	142,817	111,642	106,673	86,190	77,947	76,096	78,904
Summer*	128,166	111,931	105,615	104,948	25,343	22,307	17,877	20,559
Fall*	657,797	353,405	249,828	208,982	31,664	22,563	20,485	20,213
Jacks	75,338	61,671	54,606	52,258	23,288	19,855	17,151	20,913
STEELHEAD	361,412	273,172	286,176	230,418	186,474	172,596	161,026	180,072
SOCKEYE	39,291	34,176	35,417	32,037	37	14	23	11
COHO*	133,870	45,374	38,577	19,830	1,431	999	807	1,265
Adults	125,743	42,563	34,453	18,095	1,362	924	734	1,135
Jacks	8,127	2,811	4,124	1,735	69	75	73	130
SHAD	4,558,550	4,258,889	2,735,108	1,077,670	245,805	160,292	56,834	17,545
LAMPREY	117,027	28,995	20,922	13,324	1,702	468	660	282
2004								
CHINOOK*	905,809	560,420	446,303	382,946	130,213	113,885	100,733	109,061
Spring*	179,037	137,957	118,520	115,179	81,752	75,363	65,862	75,224
Summer*	105,032	87,925	83,060	74,217	16,185	12,789	11,567	11,277
Fall*	621,740	334,538	244,723	193,550	32,276	25,733	23,304	22,560
Jacks	60,245	48,653	47,696	40,644	18,825	11,902	10,999	14,592
STEELHEAD	310,893	238,242	227,199	201,071	168,897	149,429	142,092	154,389
SOCKEYE	123,291	107,466	113,497	89,707	91	80	81	113
COHO*	119,826	40,564	34,755	20,132	3,519	3,606	3,029	3,904
Adults	115,018	38,661	32,627	19,004	3,473	3,441	2,898	3,802
Jacks	4,808	1,903	2,128	1,128	46	165	131	102
SHAD	5,355,677	5,472,400	0	1,751,728	365,493	0	0	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	0	1,951,001	281,114	0	0	13,584
LAMPREY	26,664	8,361	8,312	4,158	461	222	211	40

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

SPRING	15 MAR - 31 MAY	1 APR - 3 JUN	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: 2001 - 2005

SPECIES	PRIEST RAPIDS	ROCK ISLAND	ROCKY REACH	WELLS
2001				
CHINOOK*	139,929	123,184	72,941	58,587
Spring*	52,120	41,603	15,191	10,871
Summer*	57,052	61,930	44,722	38,126
Fall*	30,757	19,651	13,028	9,590
Jacks	10,725	21,141	10,037	8,427
STEELHEAD	30,090	28,613	22,045	18,503
SOCKEYE	111,326	104,847	66,222	74,490
COHO*	11,189	10,465	1,628	612
Adults	10,143	10,465	1,628	612
Jacks	1,046	**	**	0
SHAD	4,417	**	**	**
LAMPREY	1,622	1,460	805	259
2002				
CHINOOK*	161,510	130,491	98,756	76,716
Spring*	34,279	24,844	10,160	7,626
Summer*	97,784	90,041	75,911	62,626
Fall*	29,447	15,606	12,685	6,464
Jacks	4,279	5,135	4,281	659
STEELHEAD	15,895	15,295	11,853	9,482
SOCKEYE	47,883	44,320	12,372	10,762
COHO*	1,555	1,751	481	132
Adults	1,143	1,750	481	132
Jacks	412	1	0	0
SHAD	4,836	**	**	**
LAMPREY	4,008	4,878	1,842	342
2003				
CHINOOK*	160,433	132,167	88,011	59,346
Spring*	18,792	17,634	4,669	4,702
Summer*	86,837	88,401	69,362	46,391
Fall*	54,804	26,132	13,980	8,253
Jacks	10,847	11,939	9,363	2,984
STEELHEAD	17,652	17,509	13,650	9,963
SOCKEYE	36,551	34,779	30,355	28,977
COHO*	5,216	5,869	993	168
Adults	4,803	5,869	993	168
Jacks	413	0	0	0
SHAD	7,067	0	0	0
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	0	0	0
SHAD	10,589	0	0	0
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	0	0	0
SHAD	10,254	**	**	**
LAMPREY	2,598	2,267	404	212

ASSUMED 2005 DATES FOR CHINOOK RUNS (MAY VARY FROM PREVIOUS YEARS)

SPRING	15 APR - 13 JUN	14 APR - 23 JUN	14 APR - 23 JUN	1 MAY - 28 JUN
SUMMER	14 JUN - 13 AUG	24 JUN - 31 AUG	24 JUN - 31 AUG	29 JUN - 28 AUG
FALL	14 AUG - 15 NOV	1 SEP - 14 NOV	1 SEP - 14 NOV	29 AUG - 15 NOV

*Includes jack counts.

TABLE 3 and TABLE 4

STEELHEAD OVER COLUMBIA AND SNAKE RIVER DAMS 1953-2005

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. Movement 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 - 2005

BY RUN-YEAR (JUNE 1 - MAY 31)

RUN-YEAR	THE DALLES	JOHN DAY	M 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
Total	7,780,419	5,687,997	6,026,119	3,811,890	3,044,044	2,043,184	2,756,514
10-Year Average	236,792	239,465	183,060	145,268	138,836	126,806	132,912

Extended 1996-2001 count seasons, using video counts November 1-December 15, at Ice Harbor and Lower Granite dams are included.

Extended 2001 video counts November 1 - December 31 at Lower Monumental and Little Goose are included.

Extended 2002 video counts from 0800-1600 January 1- March 31 at Lower Monumental and Little Goose are included.

Extended 2002 video counts from 0600-1600 for November and December at Ice Harbor, Lower Monumental, Little Goose, and Lower Granite dams are included.

Extended 2003 video counts January 1 - March 31 at McNary, Lower Monumental and Little Goose are included.

Extended 2004 video counts March, November, and December at McNary and Lower Granite are included.

Extended 2005 video counts in March at The Dalles, John Day, McNary, and Lower Granite are included.

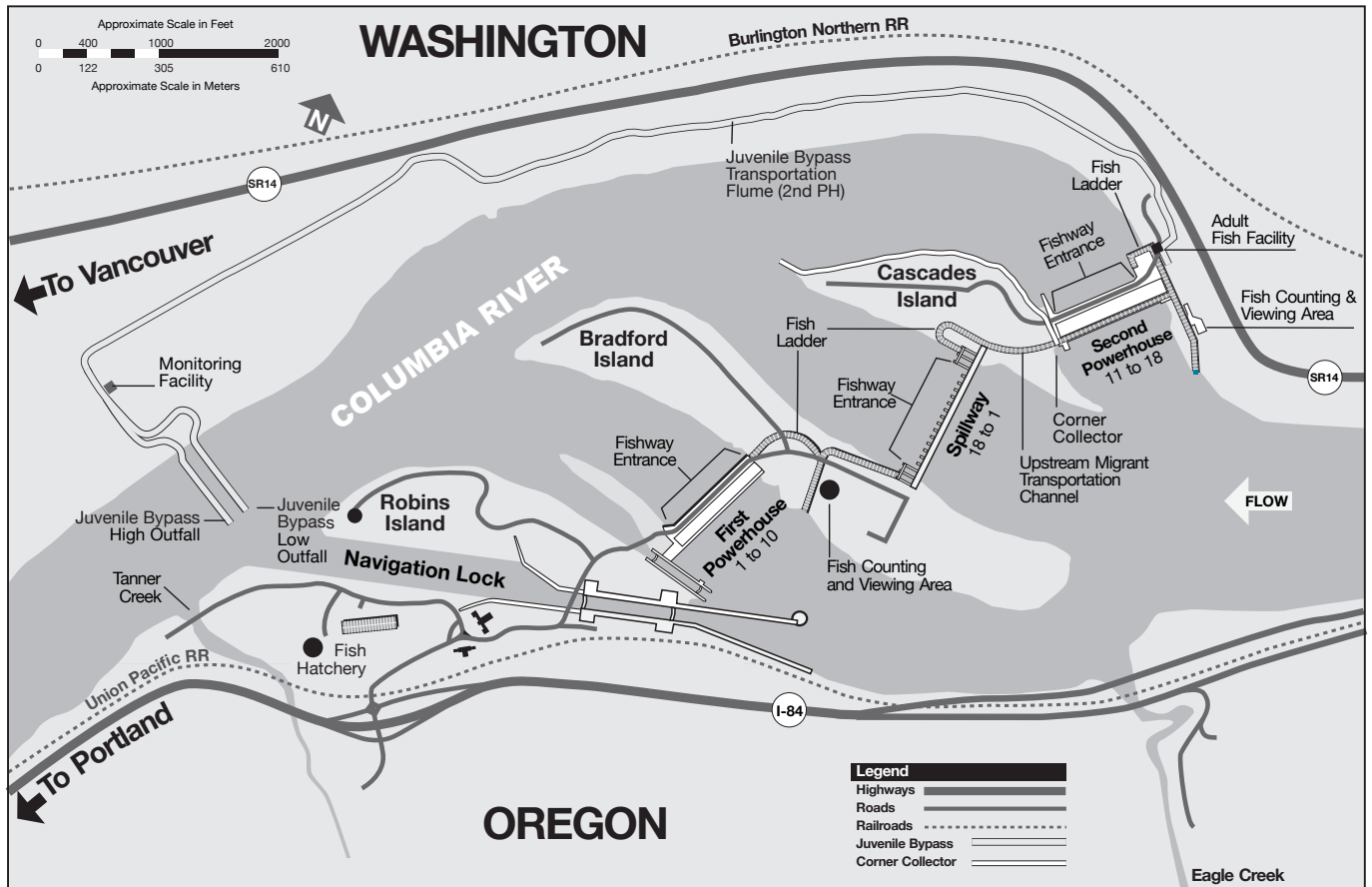
TABLE 4

**STEELHEAD OVER MID COLUMBIA RIVER DAMS 1959 - 2005
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
Total	510,981	321,079	225,355	206,492
10-Year Average	12,943	12,200	9,425	6,893

*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.

Interrupted Video Taping

Bradford Island Count Station:
No interruption of video taping.

Cascades Island Count Station:
1 Nov - 6 hours, 2 Nov - 3 hours, 3 Nov - 2 hours, 4 Nov - 16 hours, 5 Nov - 11 hours,
13 Nov - 3 hours, 17 Nov - 4 hours, 18 Nov - 4 hours, 22 Nov - 16 hours, 23 Nov - 16
hours, 24 Nov - 16 hours, 1 Dec - 16 hours, 2 Dec - 16 hours, 3 Dec - 16 hours, 4 Dec -
16 hours, 5 Dec - 9 hours, 11 Dec - 6 hours, 12 Dec - 16 hours, 13 Dec - 9 hours.

Second Powerhouse Count Station:
9 Nov - 16 hours, 10 Nov - 3 hours, 22 Nov - 8 hours, 23 Nov - 16 hours, 24 Nov - 12
hours, 11 Dec - 6 hours, 12 Dec - 16 hours, 13 Dec - 9 hours, 15 Dec - 16 hours, 16 Dec -
13 hours, 18 Dec - 16 hours, 19 Dec - 16 hours, 20 Dec - 16 hours, 21 Dec - 16 hours,
22 Dec - 3 hours.

ADULT FISH FACILITIES OPERATION SCHEDULE

Bradford Island Fish Ladder:

05 Dec 05 - Present Out of service (OOS) for winter maintenance.
02 Aug 05 – 02 Aug 05 Low flow for ROV inspections.

Cascades Island Fish Ladder:

29 Nov 04 – 28 Feb 05 UMT OOS for winter maintenance.
22 Feb 05 – 22 Feb 05 Low flow for ROV inspections.
02 Aug 05 – 02 Aug 05 Low flow for ROV inspections.
08 Nov 05 – 08 Nov 05 HSS inspections.
31 Oct 05 – Present UMT OOS for winter maintenance.

Second Powerhouse Fish Ladder:

27 Nov 04 – 28 Feb 05 OOS for winter maintenance.
02 Aug 05 – 02 Aug 05 Low flow for ROV inspections.

Adult Fish Facility

24 Nov 04 – 05 Apr 05 OOS for winter maintenance.
20 Jul 05 – 20 Jul 05 OOS for water level sensor repair.

Fishway Auxiliary Water Supply Turbines:

Fish Unit 1:

27 Nov 04 – 01 Mar 05	F1 OOS for winter maintenance at Washington shore.
21 Mar 05 – 21 Mar 05	F1 OOS due to governor trouble.
07 Apr 05 – 07 Apr 05	F1 OOS due to loss of governor control.
31 May 05 – 31 May 05	F1 OOS due to a gland water leak.
11 Jul 05 – 11 Jul 05	F1 OOS due to governor lock up.
11 Jul 05 – 12 Jul 05	F1 OOS due to loss of governor control.
02 Aug 05 – 02 Aug 05	F1 OOS for PH2 PCC ROV inspection and slip ring maintenance.
08 Aug 05 – 09 Aug 05	F1 OOS due to low governor oil pressure.
22 Sep 05 – 22 Sep 05	F1 OOS due to a relay trip.
21 Oct 05 – 21 Oct 05	F1 OOS for switching activities.
18 Nov 05 – 18 Nov 05	F1 Reduced load to facilitate trashrack raking.
19 Nov 05 – 19 Nov 05	F1 Speed no load to float trash and facilitate trashrack raking.
19 Nov 05 – 19 Nov 05	F1 OOS for trashrack raking.
19 Nov 05 – 19 Nov 05	F1 Reduced load for trashrack raking.
19 Nov 05 – 20 Nov 05	F1 OOS to float trash.
21 Nov 05 – 21 Nov 05	F1 Reduced load for trashrack raking.
22 Nov 05 – 23 Nov 05	F1 OOS due to breaker failure.
25 Nov 05 – 25 Nov 05	F1 Reduced load for trashrack raking.
27 Nov 05 – 27 Nov 05	F1 Reduced load for trashrack raking.
27 Nov 05 – 27 Nov 05	F1 Reduced load for trashrack raking.
27 Nov 05 – 27 Nov 05	F1 Reduced load for trashrack raking.

Fish Unit 2:

27 Nov 04 – 28 Feb 05	F2 OOS for winter maintenance at Washington shore.
10 Mar 05 – 10 Mar 05	F2 On standby to facilitate operator training activities.
08 Jul 05 – 09 Jul 05	F2 OOS due to loss of line protection.
09 Jul 05 – 09 Jul 05	F2 OOS for ZJ switching.
17 Jul 05 – 17 Jul 05	F2 OOS due to a transformer outage.
26 Jul 05 – 27 Jul 05	F2 OOS due to a T12 outage.
28 Jul 05 – 28 Jul 05	F2 in standby for switching.
02 Aug 05 – 02 Aug 05	F2 OOS for PH2 PCC ROV inspection and slip ring maintenance.
18 Nov 05 – 18 Nov 05	F2 OOS fro trashrack raking.
19 Nov 05 – 19 Nov 05	F2 Speed no load to float trash and facilitate trashrack raking.
19 Nov 05 – 19 Nov 05	F2 OOS for trashrack raking.
19 Nov 05 – 19 Nov 05	F2 Reduced load to facilitate raking.
19 Nov 05 – 20 Nov 05	F2 OOS to float trash.
21 Nov 05 – 21 Nov 05	F2 Reduced load for trashrack raking.
22 Nov 05 – 22 Nov 05	F2 OOS for trashrack raking.
23 Nov 05 – 23 Nov 05	F2 Reduced load to float trash and facilitate trashrack raking.

25 Nov 05 – 25 Nov 05	F2 Reduced load for trashrack raking.
27 Nov 05 – 27 Nov 05	F2 Reduced load for trashrack raking.
27 Nov 05 – 27 Nov 05	F2 Reduced load for trashrack raking.
27 Nov 05 – 27 Nov 05	F2 Reduced load for trashrack raking.

DOWNSTREAM MIGRANT FACILITIES OPERATION SCHEDULE

First Powerhouse:

No DSM1 maintenance.

Second Powerhouse:

20 Dec 04 – 21 Feb 05 OOS for winter maintenance.

Corner Collector:

31 Aug 04 – 03 Mar 05 Winter maintenance.

31 Aug 05 – Present Winter maintenance.

FISHWAY ACTIVITIES

United States Geological Survey (USGS) monitored the behavior, distribution, and passage of yearling chinook, steelhead, and subyearling chinook at Bonneville Lock and Dam. With this information, USGS addressed fish passage efficiency (FPE), corner collector efficiency, fish guidance efficiency (FGE), and route specific survival through the project.

PNNL and BAE Systems conducted an evaluation of FPE for the entire project and FGE for turbine units at Powerhouse Two. Hydroacoustic transducers were mounted to cover all major passage routes.

USDA-APHIS-WS conducted hazing activities on piscivorous birds from 21 March through 22 July. Non-lethal hazing techniques included 15 mm screamer shells, cracker shells, and rockets.

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

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

Washington Department of Fish and Wildlife (WDFW) collected and tagged chum in the AFF. This study is to determine stock identification and to track the fish to the spawning grounds.

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

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

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

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

NOAA Fisheries marked lamprey for evaluation of a lamprey adult passage system (LAPS) in the AWS channel at Bradford Island. The passage system included pit tag detectors and a counter to monitor and track lamprey movements.

NOAA Fisheries and Battelle tagged juvenile steelhead for survival comparisons between barge release sites at Skamania Landing and Astoria, Oregon.

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

- The Oregon Department of Fish & Wildlife (ODFW) sampled pikeminnow populations in many areas in the Columbia River including areas within Bonneville's boat restricted zones. Pikeminnow were collected by electrofishing from boats. ODFW is evaluating effectiveness of population control measures.
- The Washington Department of Fish & Wildlife implemented the sport reward fishery.

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

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

TABLE 5

MONTHLY TOTALS OF SALMONID, SHAD AND LAMPREY COUNTED OVER BONNEVILLE DAM
YEAR 2005 COUNTS FROM JANUARY 1 THROUGH DECEMBER 31

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV**	DEC	TOTAL
CHINOOK*	-1	2	43	31,504	46,793	52,917	30,786	47,880	363,426	25,199	1,855	11	600,415
STEELHEAD	149	62	103	1,064	1,517	9,286	84,968	110,487	83,450	21,694	2,598	272	315,650
SOCKEYE					16	47,093	25,724	118	20	0			72,971
COHO*								3,487	64,253	20,414	637		88,791
CHUM									4	20	115		139
PINK								2	13	2	5		22
TOTAL	148	64	146	32,568	48,326	109,296	141,478	161,974	511,166	67,329	5,210	283	1,077,988
SHAD													4,242,129
LAMPREY													26,664

*Jacks included

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

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

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

TABLE 6

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

BONNEVILLE PROJECT
JANUARY 2005

DATE	FISH COUNTS						RIVER CONDITIONS									
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	PINK	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jan 1	0							11		0			125.6	1.1	7.0	44.0
Jan 2	0							13		1			132.1	1.1	7.0	44.0
Jan 3	0							0		0			164.3	1.1	6.0	43.0
Jan 4	0							1		0			164.8	1.1	6.0	43.0
Jan 5	0							6		0			166.7	1.0	7.0	42.0
Jan 6	0							6		-1			163.9	1.0	7.0	42.0
Jan 7	0							6		0			153.4	1.0	7.0	42.0
Jan 8	0							5		0			161.4	1.1	7.0	42.0
Jan 9	0							1		0			120.1	1.0	7.0	41.0
Jan 10	0							2		0			141.1	1.0	7.0	41.0
Jan 11	0							7		0			154.2	1.0	7.0	41.0
Jan 12	0							1		0			125.8	1.0	7.0	41.0
Jan 13	0							13		0			162.5	1.1	7.0	41.0
Jan 14	0							3		0			198.0	1.0	6.0	41.0
Jan 15	0							6		0			159.7	1.0	7.0	41.0
Jan 16	0							8		0			138.2	0.9	7.0	38.0
Jan 17	0							10		1			148.6	1.1	7.0	38.0
Jan 18	0							13		1			128.6	0.9	4.5	38.0
Jan 19	0							4		0			148.9	1.1	7.0	39.0
Jan 20	0							8		0			137.4	1.2	1.8	39.0
Jan 21	0							10		0			139.5	1.2	3.3	39.0
Jan 22	0							5		1			141.7	1.2	7.0	39.0
Jan 23	0							0		0			134.5	1.1	7.0	39.0
Jan 24	-1							2		0			140.7	1.0	7.0	39.0
Jan 25	0							9		0			142.8	1.0	7.0	39.0
Jan 26	0							-2		-1			159.0	1.0	7.0	39.0
Jan 27	0							3		0			162.7	1.1	*	39.0
Jan 28	0							2		0			148.0	1.1	6.0	39.0
Jan 29	0							1		0			148.4	1.1	7.0	39.0
Jan 30	0							2		1			130.8	1.1	7.0	39.0
Jan 31	0							-7		-5			132.5	1.0	7.0	39.0
TOTAL	-1							149		-2						
AVG	0							5		0			147.6	1.1	6.5	40.3

*Data not available

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 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	WILD		SHAD	LAMPREY	PINK	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL					STEELHEAD	STEELHEAD						SECCHI	DEG F	
Feb 1	0							-4	-5				146.0	0.9	7.0	39.0	
Feb 2	0							1	0				149.8	1.0	7.0	39.0	
Feb 3	0							1	-3				143.6	1.0	7.0	39.0	
Feb 4	0							26	1				153.3	1.0	7.0	40.0	
Feb 5	0							6	0				167.5	1.0	7.0	40.0	
Feb 6	0							8	0				151.0	1.0	7.0	40.0	
Feb 7	0							7	0				163.0	1.0	7.0	40.0	
Feb 8	0							14	0				149.1	1.0	7.0	40.0	
Feb 9	0							8	0				154.7	1.0	7.0	40.0	
Feb 10	0							5	0				162.5	1.1	7.0	40.0	
Feb 11	0							0	0				167.1	1.0	7.0	40.0	
Feb 12	0							9	-2				154.8	0.9	7.0	41.0	
Feb 13	0							-2	0				122.1	0.9	7.0	41.0	
Feb 14	0							-8	-3				128.8	0.9	7.0	41.0	
Feb 15	0							5	1				155.2	1.3	7.0	41.0	
Feb 16	0							-1	-3				158.0	0.9	6.0	41.0	
Feb 17	0							3	1				165.0	1.0	7.0	41.0	
Feb 18	0							2	0				157.4	1.0	5.0	41.0	
Feb 19	0							2	0				152.4	1.0	6.0	40.0	
Feb 20	0							2	0				134.6	1.0	5.0	40.0	
Feb 21	0							-3	-4				126.9	1.0	5.0	41.0	
Feb 22	0							-1	-3				126.0	0.9	5.0	41.0	
Feb 23	0							-1	0				126.5	1.2	7.0	41.0	
Feb 24	0							0	0				125.4	1.0	7.0	41.0	
Feb 25	0							1	-1				121.0	1.0	7.0	41.0	
Feb 26	0							-3	1				121.1	0.9	6.0	41.0	
Feb 27	1							-2	-3				122.4	0.9	7.0	41.0	
Feb 28	1							-13	-5				120.8	1.0	7.0	41.0	
TOTAL	2							62	-28								
AVG	0							2	-1				143.8	1.0	6.6	40.4	

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 2005

DATE	FISH COUNTS						RIVER CONDITIONS									
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	PINK	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Mar 1	0							-15	-1				120.4	1.1	7.0	41.0
Mar 2	1							-10	-11				119.5	1.4	7.0	42.0
Mar 3	0							-4	-8				129.3	1.2	7.0	41.0
Mar 4	0							4	-1				140.4	0.0	7.0	41.0
Mar 5	0							6	1				142.7	0.0	7.0	42.0
Mar 6	0							6	3				122.1	1.3	7.0	42.0
Mar 7	0							7	-5				123.1	1.3	7.0	42.0
Mar 8	0							14	-3				121.8	1.3	7.0	42.0
Mar 9	1							25	-2				120.4	1.3	6.0	42.0
Mar 10	1							-10	-4				133.5	1.3	7.0	43.0
Mar 11	5							18	1				143.7	1.3	7.0	44.0
Mar 12	2							20	1				123.2	1.2	7.0	44.0
Mar 13	1							-3	-10				138.9	1.5	7.0	44.0
Mar 14	3							5	-3				122.7	1.2	7.0	45.0
Mar 15	4							8	-4				123.1	1.4	7.0	45.0
Mar 16	1							-9	-13				128.3	1.3	6.5	45.0
Mar 17	2							-75	-34				125.3	1.4	6.0	45.0
Mar 18	2							7	-19				126.8	1.4	6.0	45.0
Mar 19	1							11	-1				139.4	1.2	5.0	45.0
Mar 20	0							30	0				124.5	1.3	6.0	45.0
Mar 21	3							5	2				137.4	1.3	7.0	45.0
Mar 22	0							6	1				134.3	1.4	7.0	46.0
Mar 23	0							7	5				144.9	1.4	6.1	46.0
Mar 24	1							2	1				132.3	1.3	4.0	46.0
Mar 25	0							4	0				135.2	1.3	5.0	46.0
Mar 26	0							-1	0				118.3	1.4	5.5	46.0
Mar 27	1							17	4				111.8	1.4	4.5	46.0
Mar 28	3							20	9				143.2	1.4	4.5	46.0
Mar 29	5							5	1				149.2	1.5	3.5	46.0
Mar 30	6							2	2				149.6	1.4	6.0	46.0
Mar 31	0							1	0				170.6	1.4	5.0	46.0
TOTAL	43							103	-88							
AVG	1							3	-3				132.1	1.2	6.2	44.2

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

TABLE 9

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

BONNEVILLE PROJECT
 APRIL 2005
 RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	WILD			SHAD	LAMPREY	PINK	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL				SOCKEYE	STEELHEAD	STEELHEAD						SECCHI	DEG F
Apr 1	-2			0				12	3		0		158.6	1.4	5.3	46.0
Apr 2	2			0				7	1		0		155.4	1.3	5.0	46.0
Apr 3	2			0				13	6		0		130.6	1.5	4.5	46.0
Apr 4	7			0				11	7		0		130.7	1.4	4.0	46.0
Apr 5	1			0				17	5		0		151.0	1.4	6.0	47.0
Apr 6	15			0				47	17		0		170.6	1.6	5.0	47.0
Apr 7	10			0				20	7		0		152.6	1.5	4.5	48.0
Apr 8	18			0				30	10		0		122.1	1.6	4.5	48.0
Apr 9	11			0				14	12		0		126.3	1.5	4.0	47.0
Apr 10	12			0				24	9		0		119.0	1.5	6.0	47.0
Apr 11	23			0				21	6		0		149.6	1.6	6.0	47.0
Apr 12	57			0				17	7		0		137.6	1.5	5.0	48.0
Apr 13	51			0				53	28		0		146.9	1.6	4.0	48.0
Apr 14	108			0				30	14		0		139.8	1.6	4.5	48.0
Apr 15	94			0				21	11		0		155.0	14.1	4.0	49.0
Apr 16	398			0				42	18		0		124.6	50.2	4.5	49.0
Apr 17	210			0				36	22		0		126.0	50.3	4.5	49.0
Apr 18	470			0				46	16		0		127.6	50.4	5.0	49.0
Apr 19	508			0				58	27		0		144.5	56.3	6.0	50.0
Apr 20	964			1				56	31		0		128.5	76.6	6.5	50.0
Apr 21	1,346			1				62	23		0		129.9	75.2	4.5	50.0
Apr 22	2,230			2				60	14		0		175.6	74.9	5.0	51.0
Apr 23	1,374			1				42	24		0		150.5	75.0	5.0	52.0
Apr 24	1,828			7				47	18		0		143.5	75.0	6.0	52.0
Apr 25	4,149			25				61	18		0		129.1	76.2	6.0	52.0
Apr 26	4,092			13				55	19		0		180.4	80.0	6.0	52.0
Apr 27	3,882			19				63	11		0		193.3	80.7	6.0	52.0
Apr 28	2,577			23				42	15		0		202.0	78.8	6.0	53.0
Apr 29	3,681			20				27	9		0		170.7	79.8	5.5	53.0
Apr 30	3,231			43				30	15		-1		170.6	81.4	6.0	53.0
TOTAL	31,349			155				1,064	423		-1					
AVG	1,045			5				35	14		0		148.1	36.5	5.2	49.2
RUN YEAR																
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK					STEELHEAD	WILD STEELHEAD		LAMPREY					
SPRING		31,378	155					1,104	377		-1					

TABLE 10

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

BONNEVILLE PROJECT
MAY 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	WILD			SHAD	LAMPREY	PINK	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL				SOCKEYE	STEELHEAD	STEELHEAD						SECCHI	DEG F
May 1	2,180			44			0	35	13	1	0		167.7	80.1	6.0	53.0
May 2	1,850			30			0	32	8	0	0		191.7	77.3	5.0	54.0
May 3	2,142			47			0	44	19	0	0		180.5	76.4	5.8	54.0
May 4	2,542			70			0	24	3	4	0		186.4	74.6	4.0	55.0
May 5	6,065			205			0	46	17	4	0		192.2	65.1	5.0	56.0
May 6	2,471			119			0	36	5	5	0		198.8	64.9	4.0	56.0
May 7	976			63			0	26	7	37	1		202.5	66.8	4.0	56.0
May 8	670			49			0	26	9	14	0		220.4	73.1	5.0	56.0
May 9	482			46			0	17	1	8	4		232.2	78.1	4.0	57.0
May 10	376			37			0	38	8	1	4		236.7	82.7	4.0	57.0
May 11	704			77			0	10	2	10	0		259.0	88.3	4.0	57.0
May 12	1,133			207			0	45	14	397	8		282.3	90.2	3.0	57.0
May 13	791			131			0	36	8	786	35		240.2	91.9	3.5	57.0
May 14	1,452			226			0	42	12	263	7		242.3	91.5	4.0	57.0
May 15	1,269			273			0	46	11	204	0		241.7	90.9	4.0	58.0
May 16	1,106			329			0	36	7	59	7		243.1	89.4	4.0	58.0
May 17	1,626			400			0	62	13	3,653	8		251.7	89.2	5.0	58.0
May 18	1,109			279			0	86	11	7,570	5		287.6	89.0	4.0	58.0
May 19	443			114			0	68	21	4,931	6		290.8	86.8	3.8	58.0
May 20	539			90			0	48	11	5,868	8		265.8	85.0	3.5	58.0
May 21	754			180			0	44	10	12,241	22		280.8	85.7	3.8	58.0
May 22	696			141			0	63	18	12,023	11		266.4	105.6	4.0	58.0
May 23	993			174			0	56	16	13,065	4		267.2	85.2	4.0	58.0
May 24	1,028			121			0	47	9	26,661	31		263.2	85.2	3.5	58.0
May 25	947			99			0	30	5	25,853	25		252.9	85.9	5.0	58.0
May 26	887			87			0	24	9	17,299	97		250.5	87.6	4.0	58.0
May 27	1,333			127			0	30	4	21,827	109		248.0	89.3	4.0	58.0
May 28	1,789			139			0	62	23	49,778	55		262.1	89.3	4.5	59.0
May 29	1,452			86			0	86	14	16,843	123		231.4	89.2	4.4	59.0
May 30	1,511			83			9	110	24	47,605	73		197.6	90.4	4.5	59.0
May 31	1,344			60			7	162	39	21,223	131		193.0	91.4	6.0	59.0
TOTAL	42,660			4,133			16	1,517	371	288,233	774					
AVG	1,376			133			1	49	12	9,298	25		236.3	84.4	4.3	57.2

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	74,038	4,288

WILD		SHAD	LAMPREY
SOCKEYE	STEELHEAD	STEELHEAD	
16	2,621	748	288,233
			773

TABLE 11

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

BONNEVILLE PROJECT
JUNE 2005

FISH COUNTS											RIVER CONDITIONS					
DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	WILD			SHAD	LAMPREY	PINK	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL				SOCKEYE	STEELHEAD	STEELHEAD						SECCHI	DEG F
Jun 1		1,432		52			10	170	29	21,323	204	226.2	90.8	5.0	60.0	
Jun 2		1,181		57			19	138	36	66,068	346	244.3	93.8	4.0	60.0	
Jun 3		1,152		97			18	138	30	55,265	199	220.7	95.8	4.5	60.0	
Jun 4		1,107		54			48	94	46	89,126	187	216.3	96.1	5.0	60.0	
Jun 5		1,119		48			61	88	32	167,397	193	192.8	96.9	5.0	60.0	
Jun 6		1,238		59			84	144	49	62,694	155	204.7	97.6	6.5	60.0	
Jun 7		1,706		91			168	168	71	107,879	137	187.7	98.6	5.2	60.0	
Jun 8		1,356		57			254	177	61	171,400	157	183.1	96.9	5.0	60.0	
Jun 9		1,417		69			367	247	94	274,992	372	208.5	96.0	6.0	60.0	
Jun 10		1,750		54			476	199	54	214,775	470	196.8	92.1	6.0	60.0	
Jun 11		1,770		51			529	227	88	351,862	271	196.9	88.7	5.0	62.0	
Jun 12		1,597		72			593	242	96	183,012	228	182.7	90.5	6.0	61.0	
Jun 13		2,004		88			1,058	246	85	173,919	265	175.9	94.3	5.0	61.0	
Jun 14		2,044		77			1,354	262	88	130,351	355	188.7	94.9	5.0	61.0	
Jun 15		2,471		130			1,729	342	126	165,546	330	177.5	95.0	6.5	61.0	
Jun 16		2,209		64			1,495	328	109	126,605	408	186.7	95.6	7.0	61.0	
Jun 17		1,938		111			1,852	361	124	93,936	427	191.0	91.7	5.0	62.0	
Jun 18		1,365		90			1,791	321	113	208,761	399	181.7	92.5	5.0	62.0	
Jun 19		2,040		109			2,475	314	113	215,295	328	155.2	92.0	7.0	62.0	
Jun 20		1,929		90			2,471	345	128	177,412	505	197.5	91.4	7.0	63.0	
Jun 21		1,898		96			2,507	438	168	144,260	1,093	186.7	86.8	5.0	64.0	
Jun 22		2,464		104			3,037	445	179	48,020	542	198.7	86.3	5.0	64.0	
Jun 23		1,824		103			2,858	462	158	60,123	583	224.8	91.2	5.0	64.0	
Jun 24		1,613		110			2,340	365	171	129,354	510	198.8	92.6	6.0	65.0	
Jun 25		1,766		108			3,078	417	152	63,816	394	212.1	93.1	5.0	65.0	
Jun 26		1,809		109			3,307	435	186	90,175	443	200.3	91.0	5.5	65.0	
Jun 27		1,844		143			3,543	546	230	60,656	467	201.5	95.4	4.5	65.0	
Jun 28		1,644		127			3,136	609	258	53,125	230	197.9	96.2	4.5	65.0	
Jun 29		1,659		127			4,102	607	290	30,638	226	193.8	97.0	4.0	65.0	
Jun 30		953		71			2,333	411	185	30,615	282	207.1	97.1	6.0	65.0	
TOTAL		50,299		2,618			47,093	9,286	3,549	3,768,400	10,706					
AVG		1,677		87			1,570	310	118	125,613	357	197.9	93.6	5.4	62.1	

RUN YEAR	CHINOOK		WILD				
	ADULT	JACK	SOCKEYE	STEELHEAD	STEELHEAD	SHAD	LAMPREY
	TOTALS TO DATE	74,038	4,288	47,109	11,907	4,297	4,056,633
SPRING	74,038	4,288					
SUMMER	50,299	2,618					
TOTAL	124,337	6,906					

TABLE 12

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

BONNEVILLE PROJECT
JULY 2005

DATE	FISH COUNTS			FISH COUNTS							RIVER CONDITIONS								
	CHINOOK ADULT		CHINOOK	COHO	COHO	WILD		SHAD	LAMPREY	PINK	DISCH	SPILL	TURBIDITY						
	SPRING	SUMMER	FALL	JACK	ADULT	JACK	SOCKEYE	STEELHEAD	STEELHEAD			KCFS	KCFS	SECCHI	DEG F				
Jul 1		1,680		110			3,205	904	409			37,837	1262			210.4	97.1	6.0	67.0
Jul 2		1,705		106			2,933	1,022	487			23,863	669			210.3	97.0	5.0	67.0
Jul 3		2,209		102			2,861	1,217	569			20,985	393			182.3	97.1	6.0	66.0
Jul 4		1,889		81			2,498	1,263	570			20,114	506			153.8	91.9	6.5	66.0
Jul 5		1,580		61			2,046	1,445	728			13,346	355			175.7	86.6	6.0	66.0
Jul 6		1,626		97			1,920	1,781	886			12,647	901			172.7	87.8	5.0	67.0
Jul 7		1,459		105			1,643	1,757	830			11,382	389			155.7	84.3	4.8	67.0
Jul 8		932		91			972	1,426	731			6,387	382			196.3	94.5	6.0	67.0
Jul 9		950		59			860	1,857	918			5,482	282			180.9	95.0	6.0	67.0
Jul 10		845		55			658	1,522	749			4,486	225			175.7	92.0	6.3	67.0
Jul 11		702		57			659	1,526	725			4,939	365			178.4	92.3	5.0	67.0
Jul 12		770		32			616	1,294	621			4,760	931			174.6	89.3	6.0	68.0
Jul 13		948		41			653	1,718	834			2,513	1093			175.7	88.4	5.0	68.0
Jul 14		793		36			500	1,695	783			1,237	554			192.5	94.8	7.0	68.0
Jul 15		899		63			395	1,991	931			1,867	437			209.8	96.9	5.0	69.0
Jul 16		1,054		57			497	1,923	873			1,911	433			197.4	97.1	5.0	69.0
Jul 17		1,045		133			397	2,016	881			626	219			190.8	96.0	5.0	69.0
Jul 18		1,015		63			526	2,388	1,101			1,153	494			173.4	90.9	6.0	70.0
Jul 19		588		64			431	2,596	1,176			773	239			168.3	86.6	5.5	70.0
Jul 20		825		82			402	3,543	1,539			816	192			156.0	84.3	7.0	70.0
Jul 21		788		61			278	3,875	1,606			925	144			167.2	83.8	7.0	70.0
Jul 22		592		36			160	3,908	1,656			799	221			189.3	90.0	7.0	70.0
Jul 23		724		51			148	4,979	1,900			656	250			157.3	90.4	6.0	70.0
Jul 24		550		37			89	4,339	1,540			531	123			146.9	88.8	5.0	70.0
Jul 25		474		30			89	3,874	1,415			290	156			161.9	84.6	7.0	70.0
Jul 26		461		21			83	4,226	1,423			343	212			178.2	92.1	7.0	70.0
Jul 27		429		19			74	5,002	1,594			619	183			160.0	88.2	6.0	71.0
Jul 28		421		36			36	5,380	1,662			413	171			158.5	85.0	6.0	72.0
Jul 29		337		33			34	5,669	1,727			292	263			165.7	87.2	7.0	72.0
Jul 30		311		33			30	4,935	1,380			369	136			174.3	88.7	6.0	72.0
Jul 31		308		25			31	3,897	1,045			242	91			183.2	88.8	7.0	72.0
TOTAL		28,909		1,877			25,724	84,968	33,289			182,603	12,271						
AVG		933		61			830	2,741	1,074			5,890	396			176.6	90.6	6.0	68.8
RUN YEAR		CHINOOK	CHINOOK						WILD										
TOTALS TO DATE		ADULT	JACK				SOCKEYE	STEELHEAD	STEELHEAD	SHAD	LAMPREY								
SPRING		74,038	4,288				72,833	96,875	37,586	4,239,236	23,750								
SUMMER		79,208	4,495																
TOTAL		153,246	8,783																

TABLE 13

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

BONNEVILLE PROJECT
AUGUST 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	PINK	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL												SECCHI	DEG F
Aug 1			325	26	0	0	27	5,922	1,807	492	94	0	178.5	90.4	7.0	72.0
Aug 2			190	15	0	0	8	3,586	1,057	62	141	0	171.4	89.5	6.0	72.0
Aug 3			320	41	0	0	18	5,818	1,558	254	146	0	143.0	84.5	7.0	72.0
Aug 4			215	20	0	0	12	3,933	1,087	230	107	0	138.3	80.1	7.0	72.0
Aug 5			235	25	0	0	12	4,120	1,230	105	101	0	138.8	80.8	7.0	72.0
Aug 6			301	25	0	0	6	4,163	1,136	80	139	0	152.6	86.1	6.8	72.0
Aug 7			283	43	0	0	6	4,658	1,300	198	127	0	141.6	82.5	6.3	73.0
Aug 8			229	38	0	0	5	4,672	1,210	125	143	0	150.6	84.6	6.0	72.0
Aug 9			210	43	1	0	0	3,234	886	114	148	0	141.6	80.2	7.0	73.0
Aug 10			450	69	0	0	2	3,330	959	138	102	0	142.8	82.2	7.0	72.0
Aug 11			505	28	8	0	4	2,841	844	77	41	0	151.2	88.8	5.9	72.0
Aug 12			377	76	6	0	3	2,707	679	127	111	0	146.2	91.8	6.0	72.0
Aug 13			537	57	2	5	1	3,043	808	132	110	0	132.6	78.9	7.0	72.0
Aug 14			555	48	7	5	1	2,877	743	53	114	0	124.3	78.7	7.0	71.0
Aug 15			619	62	9	6	2	3,477	912	44	85	0	129.2	75.2	7.0	71.0
Aug 16			529	71	22	6	3	4,839	1,256	78	86	0	123.8	75.5	7.0	72.0
Aug 17			354	36	4	7	2	4,021	947	71	114	0	140.4	83.0	6.0	72.0
Aug 18			184	27	3	0	2	2,926	624	63	60	0	154.2	87.8	7.0	72.0
Aug 19			350	35	29	10	2	2,469	524	28	44	0	146.6	85.0	7.0	72.0
Aug 20			1,054	66	21	2	0	1,883	426	34	47	0	132.8	80.0	6.0	72.0
Aug 21			2,563	143	158	6	0	2,684	697	12	23	0	116.8	74.9	5.6	72.0
Aug 22			1,854	126	168	38	0	5,307	1,270	49	29	0	129.3	76.8	6.0	72.0
Aug 23			1,659	108	143	14	0	4,831	1,039	36	38	0	139.2	83.9	6.0	72.0
Aug 24			1,737	90	188	8	0	3,557	798	38	60	0	141.2	88.2	7.0	71.0
Aug 25			3,226	141	264	18	1	3,228	756	13	44	1	121.3	79.2	7.0	71.0
Aug 26			4,328	147	474	21	1	3,412	819	16	29	1	117.7	75.5	7.0	71.0
Aug 27			3,505	154	606	45	0	3,075	727	49	1	0	126.7	75.6	7.0	71.0
Aug 28			4,865	261	458	47	0	3,308	737	63	16	0	122.1	74.5	7.0	71.0
Aug 29			3,994	188	275	34	0	3,116	617	49	19	0	114.7	73.3	7.0	71.0
Aug 30			4,334	213	150	19	0	1,904	430	33	9	0	138.8	82.2	7.0	70.0
Aug 31			5,413	158	184	16	0	1,546	315	30	-8	0	123.1	77.4	7.0	70.0

TOTAL		45,300	2,580	3,180	307	118	110,487	28,198	2,893	2,320	2						
AVG		1,461	83	103	10	4	3,564	910	93	75	0		137.8	81.5	6.7	71.7	

RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	PINK
SPRING	74,038	4,288	3,180	307	72,951	207,362	65,784	4,242,129	26,070	2
SUMMER	79,208	4,495								
FALL	45,300	2,580								
TOTAL	198,546	11,363								

TABLE 14

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

BONNEVILLE PROJECT
SEPTEMBER 2005

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	CHUM	LAMPREY	PINK	RIVER CONDITIONS			
	SPRING	SUMMER	FALL										DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Sep 1			12,563	251	858	47	7	1,301	324	0	16	2	121.5	1.8	7.0	70.0
Sep 2			23,215	587	2,208	154	5	1,660	462	0	39	0	99.3	1.5	6.0	70.0
Sep 3			23,508	726	3,438	223	0	3,373	786	0	29	0	97.3	1.5	7.0	70.0
Sep 4			18,721	690	3,626	186	0	3,996	871	0	67	1	94.2	1.4	6.0	70.0
Sep 5			13,812	590	4,300	237	0	3,577	734	0	34	0	89.3	1.5	7.0	70.0
Sep 6			16,104	407	4,445	221	0	3,499	811	0	28	1	86.1	1.5	7.0	70.0
Sep 7			16,536	492	3,083	226	2	3,123	593	0	29	0	81.2	1.7	6.0	70.0
Sep 8			23,658	695	3,826	176	1	3,132	738	0	41	0	89.8	1.4	7.0	70.0
Sep 9			24,712	800	4,309	161	1	3,215	815	0	21	-1	95.3	1.5	5.5	70.0
Sep 10			17,976	723	2,653	130	0	2,551	621	0	11	4	88.0	1.5	6.0	69.0
Sep 11			16,814	713	2,699	198	0	2,683	555	0	23	4	75.3	1.5	7.0	69.0
Sep 12			11,898	615	2,334	239	0	2,435	532	0	60	0	90.0	1.5	7.0	69.0
Sep 13			12,402	604	1,687	81	0	2,504	498	1	33	0	91.9	1.6	7.0	68.0
Sep 14			13,063	508	2,348	98	0	2,588	478	0	7	1	83.7	1.5	7.0	68.3
Sep 15			17,158	631	3,953	154	0	3,891	786	2	1	0	82.7	1.4	7.0	68.0
Sep 16			13,057	545	2,976	234	0	3,924	820	0	10	0	91.9	1.4	7.0	67.0
Sep 17			7,265	333	1,532	85	0	2,784	540	0	-2	0	91.0	1.3	7.0	67.0
Sep 18			8,751	408	1,335	63	0	2,934	548	0	3	0	87.9	1.3	7.0	67.0
Sep 19			7,783	443	1,486	93	0	2,822	507	0	1	0	74.9	1.3	7.0	67.0
Sep 20			7,323	554	1,359	97	1	3,215	529	0	6	0	84.5	1.3	7.0	67.0
Sep 21			6,408	623	715	79	1	3,072	566	0	9	0	111.9	1.4	7.0	66.0
Sep 22			4,619	615	538	66	1	2,173	454	0	6	0	95.2	1.4	7.0	66.0
Sep 23			4,114	358	667	48	0	2,351	390	0	5	0	104.6	1.4	7.0	66.0
Sep 24			3,851	395	541	88	0	1,983	457	0	7	0	95.7	1.4	7.0	66.0
Sep 25			3,834	315	609	94	0	2,406	595	0	6	0	77.4	1.4	7.0	65.0
Sep 26			4,790	503	550	89	1	2,306	613	1	6	0	87.4	1.3	7.0	65.0
Sep 27			5,724	517	743	99	0	3,036	508	0	5	0	114.1	1.4	7.0	65.0
Sep 28			3,065	369	433	51	0	2,248	386	0	0	1	81.1	1.4	7.0	65.2
Sep 29			2,527	326	569	58	0	2,332	454	0	1	0	102.8	1.4	7.0	65.0
Sep 30			2,541	298	595	63	0	2,336	424	0	-4	0	114.7	1.4	5.0	65.0
TOTAL			347,792	15,634	60,415	3,838	20	83,450	17,395	4	498	13				
AVG			11,593	521	2,014	128	1	2,782	580	0	17	0	92.7	1.4	6.8	67.7
RUN YEAR																
TOTALS TO DATE			CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY		PINK	CHUM		
SPRING			74,038	4,288			63,595	4,145	72,971	290,812	83,179	4,242,129	26,568	15	4	
SUMMER			79,208	4,495												
FALL			393,092	18,214												
TOTAL			546,338	26,997												

TABLE 15

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

BONNEVILLE PROJECT
OCTOBER 2005

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	FISH COUNTS					RIVER CONDITIONS				
	SPRING	SUMMER	FALL				SOCKEYE	STEELHEAD	WILD STEELHEAD	CHUM	LAMPREY	PINK	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Oct 1			2,070	316	653	78	1	1,820	472	0	2	0	98.2	1.4	7.0	65.0
Oct 2			2,302	281	688	58	0	1,734	457	0	-3	0	78.8	1.4	7.0	65.0
Oct 3			2,111	188	659	60	0	1,425	428	1	4	0	94.4	1.4	2.0	65.0
Oct 4			1,247	205	1,054	41	0	1,627	360	0	28	1	116.0	1.4	5.0	64.0
Oct 5			1,154	149	942	67	0	1,535	316	0	21	0	126.7	1.2	7.0	64.0
Oct 6			791	128	972	63	0	1,437	278	0	1	1	110.4	1.2	7.0	64.0
Oct 7			1,526	148	1,164	79	0	1,495	335	0	1	0	122.0	1.3	7.0	64.0
Oct 8			1,071	133	863	78	0	1,292	306	0	5	0	118.4	1.3	6.5	64.0
Oct 9			1,585	154	1,155	86	0	1,206	313	0	5	0	107.4	1.2	7.0	64.0
Oct 10			802	83	1,090	110	0	957	219	0	3	0	120.0	1.1	7.0	64.0
Oct 11			762	145	987	111	0	1,013	262	1	-4	0	109.1	1.2	7.0	63.0
Oct 12			929	120	1,211	97	0	870	222	0	3	0	117.9	1.3	7.0	63.0
Oct 13			458	74	669	60	0	575	110	0	1	0	109.3	1.3	7.0	63.0
Oct 14			577	117	813	58	0	610	116	0	10	0	113.4	1.2	7.0	63.0
Oct 15			318	72	798	70	0	458	102	0	-4	0	109.4	1.3	7.0	62.0
Oct 16			539	86	769	72	0	495	152	1	2	0	90.9	1.3	7.0	62.0
Oct 17			1,118	66	954	37	-1	407	124	0	2	0	90.2	1.1	7.0	62.0
Oct 18			492	77	596	28	0	361	141	0	1	0	123.2	1.3	7.0	62.0
Oct 19			302	42	448	14	0	314	78	0	4	0	122.8	1.2	7.0	62.0
Oct 20			292	55	376	22	0	211	67	0	1	0	114.8	1.2	7.0	62.0
Oct 21			155	13	381	12	0	251	73	0	-2	0	114.2	1.2	7.0	62.0
Oct 22			140	22	302	10	0	196	48	0	0	0	104.5	1.2	7.0	61.0
Oct 23			244	24	387	12	0	231	54	1	1	0	85.5	1.2	7.0	61.0
Oct 24			309	18	177	1	0	182	55	1	3	0	109.9	1.2	7.0	61.0
Oct 25			150	7	172	2	0	160	36	2	1	0	116.0	1.2	7.0	61.0
Oct 26			225	6	145	6	0	137	41	0	0	0	119.1	1.2	7.0	61.0
Oct 27			157	5	123	2	0	100	24	2	1	0	119.0	1.1	7.0	61.0
Oct 28			148	17	99	3	0	100	23	1	5	0	117.9	1.2	7.0	60.0
Oct 29			140	8	107	4	0	116	29	2	1	0	109.5	1.2	7.0	60.0
Oct 30			128	3	124	3	0	158	38	1	4	0	91.8	1.0	7.0	60.0
Oct 31			184	11	196	-4	0	221	34	7	-1	0	118.7	1.1	7.0	60.0
TOTAL			22,426	2,773	19,074	1,340	0	21,694	5,313	20	96	2				
AVG			723	89	615	43	0	700	171	1	3	0	109.7	1.2	6.8	62.4

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	74,038	4,288
SUMMER	79,208	4,495
FALL	415,518	20,987
TOTAL	568,764	29,770

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
82,669	5,485	72,971	312,506	88,492	4,242,129	26,664

PINK	CHUM
17	24

TABLE 16

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

BONNEVILLE PROJECT
NOVEMBER 2005

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	WILD			CHUM	LAMPREY	PINK	RIVER CONDITIONS			
	SPRING	SUMMER	FALL					STEELHEAD	STEELHEAD	STEELHEAD				DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Nov 1			126	20	125	0		179	4	18			0	121.5	1.1	7.0	60.0
Nov 2			236	43	139	1		235	46	20			0	121.2	1.1	5.2	59.0
Nov 3			195	31	111	0		180	29	14			0	121.1	1.1	6.0	58.0
Nov 4			185	81	83	0		199	42	6			0	123.9	1.1	6.0	58.0
Nov 5			151	30	74	0		191	23	15			0	124.8	1.1	6.0	57.0
Nov 6			136	11	37	0		227	33	8			0	112.4	1.1	5.2	56.0
Nov 7			88	10	26	0		206	36	4			0	124.8	1.2	5.0	56.0
Nov 8			49	4	41	0		178	23	0			0	135.6	0.7	7.0	56.0
Nov 9			60	0	-2	0		87	35	3			0	131.7	1.2	6.0	56.0
Nov 10			67	0	11	0		136	34	1			0	116.1	1.1	7.0	55.0
Nov 11			58	1	5	0		115	27	5			0	117.3	1.1	7.0	55.0
Nov 12			69	-2	9	0		118	24	3			0	115.5	1.1	7.0	55.0
Nov 13			69	0	-8	0		71	13	3			0	111.8	1.0	7.0	54.0
Nov 14			21	0	-3	0		48	20	3			0	110.0	1.3	7.0	54.0
Nov 15			29	-1	4	0		45	13	1			0	114.6	1.1	7.0	54.0
Nov 16			10	0	5	0		40	13	0			1	125.8	1.1	7.0	54.0
Nov 17			-4	3	-2	0		41	15	0			0	136.1	1.1	7.0	53.0
Nov 18			13	0	-7	0		20	7	0			1	120.6	1.1	7.0	53.0
Nov 19			13	0	0	0		50	11	0			3	134.4	1.1	3.0	51.0
Nov 20			0	0	-3	0		22	7	0			0	124.7	1.1	5.0	51.0
Nov 21			6	0	-1	0		7	2	2			0	137.9	1.1	5.0	51.0
Nov 22			11	0	-1	0		30	12	1			0	126.8	1.1	4.0	50.0
Nov 23			2	0	-1	0		21	10	1			0	128.3	1.1	6.0	50.0
Nov 24			9	0	-1	0		19	7	5			0	128.9	1.1	6.0	49.0
Nov 25			6	0	0	0		35	11	0			0	121.4	1.2	7.0	49.0
Nov 26			2	0	-5	0		13	7	1			0	133.8	1.1	6.0	49.0
Nov 27			6	0	0	0		29	9	0			0	118.9	1.1	6.0	49.0
Nov 28			2	0	0	0		30	9	0			0	124.3	1.1	5.5	49.0
Nov 29			3	0	0	0		12	5	0			0	113.3	1.1	7.0	48.0
Nov 30			6	0	0	0		14	2	1			0	133.5	1.1	7.0	48.0
TOTAL			1,624	231	636	1		2,598	529	115			5				
AVG			54	8	21	0		87	18	4				123.7	1.1	6.1	53.2

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	PINK	CHUM
TOTALS TO DATE											
SPRING	74,038	4,288			83,305	5,486	72,971	315,104	89,021	4,242,129	26,664
SUMMER	79,208	4,495									
FALL	417,057	21,215									
TOTAL	570,303	29,998									

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 interruptions occurred - see narrative. Official Fall Chinook run ended November 15. Counts on November 16-30 are not included in fall totals. Pink and Chum counts are totals for the entire calendar year.

TABLE 17

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

BONNEVILLE PROJECT
DECEMBER 2005

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	CHUM	LAMPREY	PINK	RIVER CONDITIONS			
	SPRING	SUMMER	FALL										DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Dec 1			0	0				21	3				116.6	0.5	7.0	48.0
Dec 2			-1	0				17	-1				135.4	0.5	7.0	47.0
Dec 3			0	0				9	4				107.5	0.5	7.0	47.0
Dec 4			1	0				15	2				117.9	0.5	7.0	47.0
Dec 5			3	0				2	0				123.7	0.5	7.0	47.0
Dec 6			1	0				10	2				144.1	0.5	7.0	47.0
Dec 7			2	0				6	1				122.1	0.5	7.0	46.0
Dec 8			2	0				7	-3				134.9	0.5	7.0	45.0
Dec 9			0	1				21	2				122.3	0.5	6.9	44.0
Dec 10			0	0				19	4				127.4	0.5	6.5	44.0
Dec 11			0	0				2	0				124.6	0.5	7.0	44.0
Dec 12			0	0				0	0				116.3	0.5	7.0	44.0
Dec 13			0	0				1	2				115.3	0.5	7.0	43.0
Dec 14			-1	0				4	0				123.2	0.6	6.5	43.0
Dec 15			0	0				1	0				140.3	0.5	5.0	42.0
Dec 16			0	0				-2	0				145.8	0.5	7.0	41.0
Dec 17			2	0				3	2				142.8	0.5	7.0	41.0
Dec 18			1	0				0	0				146.5	0.5	6.0	41.0
Dec 19			0	0				-1	0				135.6	0.5	5.0	40.0
Dec 20			0	0				3	0				125.1	0.6	5.0	39.0
Dec 21			0	0				1	0				118.6	0.5	7.0	39.0
Dec 22			0	0				5	1				108.3	0.5	6.0	39.0
Dec 23			0	0				15	8				105.9	0.5	7.0	40.0
Dec 24			-1	0				41	16				104.6	0.5	7.0	40.0
Dec 25			1	0				29	2				109.4	0.6	7.0	40.0
Dec 26			0	0				29	8				114.8	0.5	7.0	40.0
Dec 27			0	0				17	2				124.2	0.5	7.0	40.0
Dec 28			0	0				21	-2				177.1	0.5	6.0	41.0
Dec 29			0	0				-22	-2				190.7	0.5	3.5	41.0
Dec 30			0	0				0	-1				179.8	0.5	3.5	41.0
Dec 31			0	0				-2	0				188.0	0.5	3.0	41.0
TOTAL			10	1				272	50							
AVG			0	0				9	2				131.9	0.5	6.3	42.6

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	PINK	CHUM
TOTALS TO DATE											
SPRING	74,038	4,288	83,305	5,486	72,971	315,104	89,021	4,242,129	26,664	22	139
SUMMER	79,208	4,495									
FALL	417,057	21,215									
TOTAL	570,303	29,998									

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 interruptions occurred - see narrative. Official Fall Chinook run ended November 15. December counts were not added to fall totals. Pink and Chum counts are totals for the entire calendar year.

TABLE 18

YEARLY TOTALS OF SALMONIDS COUNTED OVER BONNEVILLE DAM -- DAYTIME COUNTS
1938 - 2005

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

TABLE 18
(continued)

YEARLY TOTALS OF SALMONIDS COUNTED OVER BONNEVILLE DAM -- DAYTIME COUNTS
1938 - 2005

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
Total	26,871,350	13,065,759	5,569,611	2,732,760	39,731	2,923	48,282,134
10-Year Average	619,430	323,418	60,185	94,185	88	76	1,097,381

*Jacks included

TABLE 19

MONTHLY COUNT OF CHINOOK SALMON													SPRING			SUMMER			FALL		
BONNEVILLE DAM - 1938 - 2005													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 - 1938-2005													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	275,520	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	78,326	83,703	438,371
TOTAL	123	396	97,849	3,993,792	2,789,781	2,118,392	1,579,623	3,090,046	12,648,887	632,774	34,405	1,236	26,987,304	6,880,899	3,697,230	16,399,152
10-Year Average			4,314	99,346	61,275	43,364	26,926	88,295	286,239	19,207	1,341		630,437	164,874	70,212	394,349

*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, 2004, and 2005 counts include 16 hour video counts took place between 0400-2000 PST January 1 through March 31 and November 1 through December 31.

TABLE 20

MONTHLY COUNT OF SOCKEYE SALMON

BONNEVILLE DAM 1938 - 2005

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 - 2005

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	0			72,971	
TOTAL				76	541	8,271	2,418,793	3,112,948	44,202	2,654	137	37	1	5,587,660
10-Year Average					38	45,601	16,117	150						61,906

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, 2004, and 2005 counts include 16 hour video counts 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 - 2005

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 - 2005**

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	0	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						0	6	4,742	54,917	38,184	2,803	183	100,835	6,817
2003	0	0	0	0	0	0	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
TOTAL	37	31	6	1	0	179	5,517	242,001	2,018,284	441,312	46,943	376	2,754,687	570,777
10 Year Average							34	8,197	64,518	22,501	1,047		96,323	5,772

*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, 2004, and 2005 counts include 16 hour video counts took place between 0400-2000 PST January 1 through March and November 1 through December 31.

TABLE 22

MONTHLY COUNT OF STEELHEAD
BONNEVILLE DAM; 1938 -2005

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 -2005

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	Jan 1- Aug 25	Aug 26- Dec 31
1976			1,285	3,459	3,677	9,130	38,907	44,204	21,084	1,953	478		124,177	92,370	31,807
1977			1,159	4,121	4,115	11,395	67,554	35,161	66,084	3,298	550		193,437	113,682	79,755
1978			1,750	3,327	4,587	10,883	25,284	25,637	30,461	2,168	334		104,431	64,188	40,243
1979			1,333	1,905	1,785	7,585	33,379	39,399	23,592	4,710	291		113,979	79,472	34,507
1980			1,139	3,378	1,409	7,790	28,448	51,073	32,277	3,233	507		129,254	85,010	44,244
1981			1,031	3,812	3,887	12,628	56,787	52,435	25,737	2,650	303		159,270	121,785	37,485
1982			1,239	4,188	5,335	8,636	39,159	51,329	44,456	3,146	152		157,640	103,159	54,481
1983			458	1,253	1,638	6,017	69,036	86,066	48,920	4,636	415		218,439	148,853	69,586
1984			579	2,106	4,216	14,454	92,546	93,866	102,877	4,463	453		315,560	189,365	126,195
1985			977	2,956	3,997	13,036	102,256	152,455	63,575	4,088	647		343,987	251,723	92,264
1986			2,712	3,674	4,500	16,655	136,622	129,089	76,532	9,280	827		379,891	279,154	100,737
1987			1,189	2,112	3,233	12,443	104,615	115,481	58,815	4,331	862		303,081	227,013	79,120
1988			1,158	3,728	5,016	13,615	72,718	113,791	63,864	4,421	761		279,072	190,030	89,042
1989			630	2,213	3,343	10,176	62,913	117,686	84,665	5,419	753		287,798	176,965	110,833
1990			966	2,563	4,501	11,643	37,140	52,327	65,813	7,522	552		183,027	89,144	93,883
1991			640	2,082	2,196	6,601	52,187	110,027	93,152	6,947	713		274,545	150,542	124,003
1992			646	1,964	3,239	9,708	55,090	135,162	103,792	4,918	456		314,975	175,218	139,757
1993			771	1,744	2,691	9,923	34,148	64,062	69,129	5,531	387		188,386	99,941	88,445
1994			422	1,976	3,132	7,511	27,202	59,157	54,856	8,079	789		163,124	83,968	79,156
1995			333	863	1,257	6,419	29,305	112,812	48,781	6,691	1,104	1,506	209,071	126,537	82,534
1996	793	57	1,862	1,776	2,424	6,912	40,813	102,200	48,397	6,143	761	337	212,475	141,999	70,476
1997	342	426	1,966	1,950	2,485	5,304	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
TOTAL	5,969	7,423	69,669	188,839	168,704	467,319	3,857,199	4,578,419	3,458,146	330,877	49,598	11,107	13,193,269	8,461,964	4,634,742
10-Year Average			1,514	1,599	2,214	12,592	82,993	130,490	87,080	14,525	1,980		335,392	205,234	120,197

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 -2005 counts include 16 hour video counts took place between 0400-2000 PST January 1 through March 31
 and November 1 through December 31.

TABLE 23

**MONTHLY COUNT OF SHAD at
BONNEVILLE DAM 1938 - 2005**

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 - 2005

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
TOTAL				14	401	6,210,880	46,769,186	7,450,541	129,626	4,136	593	36	60,565,413
10 Year Average					312,756	2,399,409	134,685	2,015					2,848,867

Shad are no longer counted past August.

TABLE 24

**MONTHLY COUNT OF LAMPREY at
BONNEVILLE DAM 1939¹ - 1969, 1997 - 2005**

Information concerning the lamprey count table.

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

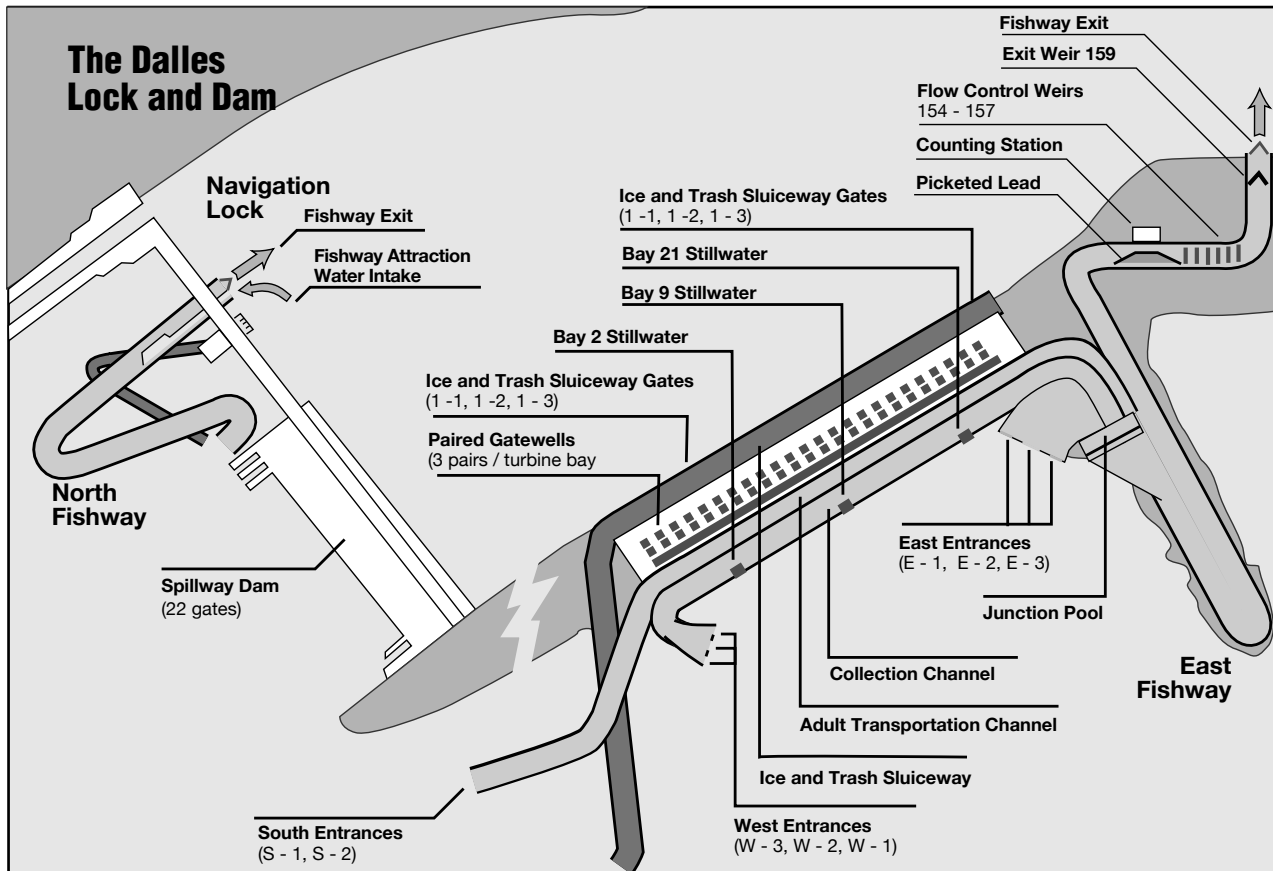
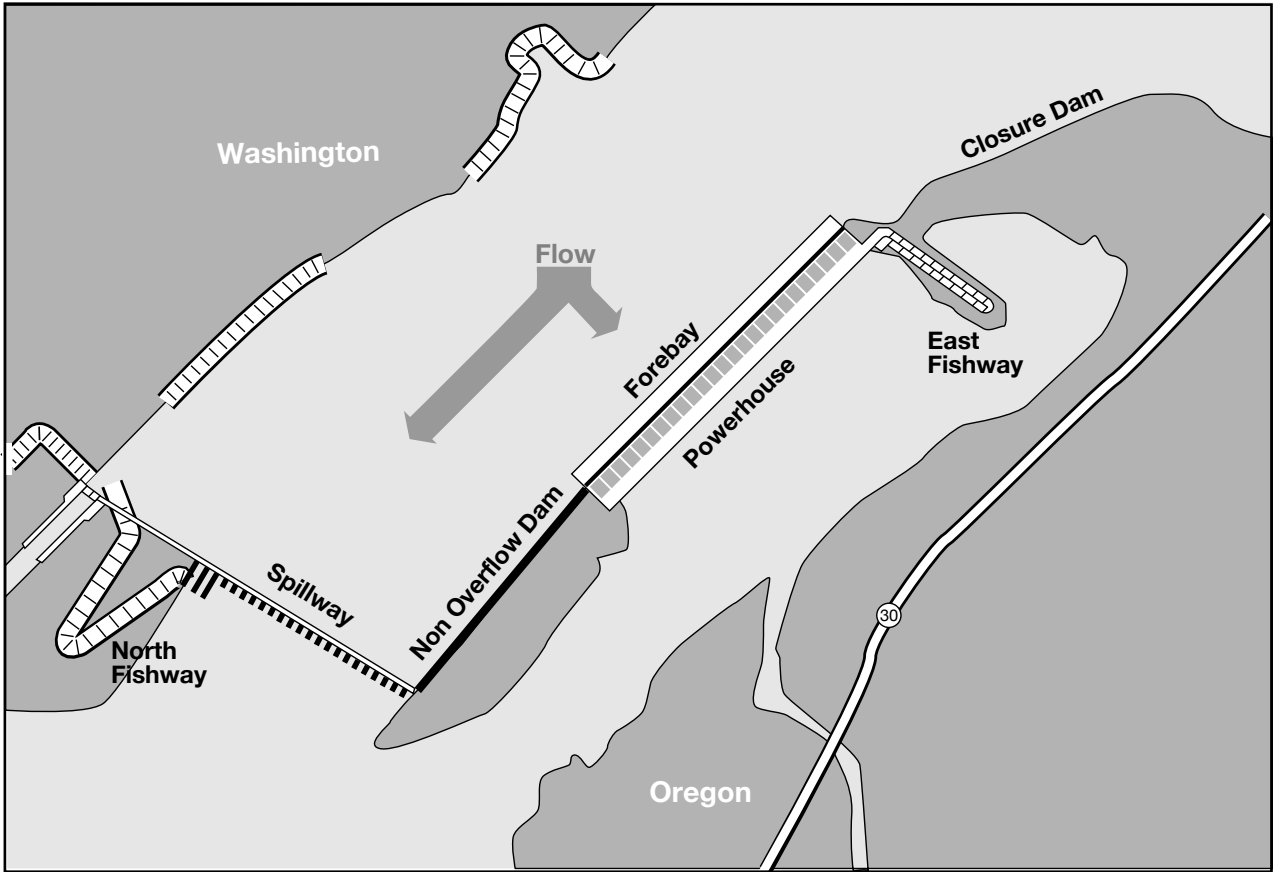
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1939				732	9,027	95,814	103,726	14,403	3,349	71	0		227,122
1940				338	24,551	40,642	67,760	20,554	2,217	40	0		156,102
1941				1,428	7,449	6,960	34,952	12,801	1,305	57	2		64,954
1942				13	1,302	3,457	28,641	16,270	2,619	40	19		52,361
1943				0	1,684	3,539	14,332	26,508	5,017	14	2		51,096
1944				22	2,189	1,411	19,288	11,853	1,342	86	18		36,209
1945				56	1,676	4,365	16,395	11,533	2,407	56	0		36,488
1946				57	684	13,834	42,772	15,820	1,565	93	0		74,825
1947				158	9,183	7,563	54,032	17,680	3,566	2,141	3		94,326
1948			1	82	295	13,744	79,507	44,511	4,948	725	2		143,815
1949				5	1,105	5,678	41,438	8,264	1,372	40	7	19	57,928
² 1950					207	1,073	6,702	22,128	2,436	140	7		32,693
1951				1	4	11,001	8,554	25,078	420	51	1		45,110
1952					8	3,674	13,854	7,462	1,194	11			26,203
1953				79	946	727	17,917	26,053	1,381	25	1		47,129
1954				33	201	1,001	10,303	26,535	2,824	89			40,986
1955					210	764	16,368	21,765	3,341	154	1		42,603
1956					24	657	36,987	10,181	1,949	113			49,911
1957				19	185	17,698	28,506	5,907	699	17			53,031
1958				132	877	8,092	79,548	7,448	1,036	171	1,115		98,419
1959				23	67	6,273	123,104	79,976	4,006	1,626	8		215,083
1960				8	1,521	12,185	125,962	30,751	7,329	142			177,898
1961				30	649	16,786	200,722	126,438	20,110	70			364,805
1962				1	441	13,573	49,868	30,253	7,103	166	21		101,426
1963				21	20,827	5,803	28,348	24,639	7,702	597			87,937
1964			2	8	2,575	17,796	39,223	41,214	3,167	347	5		104,337
1965				54	6,674	8,886	71,027	16,949	4,617	772	8		108,987
1966				168	6,562	11,772	25,813	20,543	2,207	844	5		67,914
1967				211	4,416	6,348	38,591	14,792	1,570	225	18		66,171
1968				92	14,698	18,389	57,011	17,611	949	275	4		109,029
1969				44	24,386	230,096	87,769	32,908	4,126	170	10		379,509
*** Counting lamprey was stopped after 1969. It was resumed again in 1997. ***													
1997				4	1,691	³ #####	1,939	9,783	8,643	770	0		22,830
1998				103	2,213	12,851	14,548	5,304	2,211	285	0		37,515
1999				65	4,780	8,801	12,047	7,584	3,717	302	0		37,296
2000				91	2,204	7,953	4,184	3,408	1,038	123	1		19,002
2001				1	2,075	11,143	9,895	4,141	620	72			27,947
2002				0	1,280	34,070	39,405	17,380	7,977	364			100,476
2003				6	2,874	50,875	45,863	13,230	3,843	336			117,027
2004					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
TOTAL	3	4,084	164,184	753,515	1,732,779	858,622	138,590	11,890	1,258				3,664,944
1997-2005													
9-Year Average	34	2,173	20,489	18,195	7,755	3,413	280						50,060

¹No data are available for 1938.

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

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

Plate 3 The Dalles Lock and Dam



THE DALLES DAM

FISH COUNTING SCHEDULE

Feb 22 – Mar 31 Video counting daily 0400-2000 hours Pacific Standard Time.
Apr 1 – Oct 31 Visual counting daily 0400-2000 hours Pacific Standard Time.
Nov 1 – Dec 5 Video counting daily 0400-2000 hours Pacific Standard Time.

FISHWAY OPERATING SCHEDULE

The following information includes fishway operation for calendar year 2005. Total length of time for annual fishway outages can be determined by referring to previous years' annual reports. "Out of service" indicates fish ladder dewatered and auxiliary water system off for routine annual maintenance. Dive inspections were conducted 8/10/05 at The Dalles, per Fish Passage Plan, requiring a short period of fishway outage, with the auxiliary water system off.

East Adult Fishway

1/1-1/28: out of service
1/28-2/26: orifice flow
2/26-8/9: in service
8/9: ladder flow only for ROV inspection
8/9-12/5: in service
12/5-12/31: out of service

North Adult Fishway

1/1-2/2: in service
2/2-2/18: out of service
2/18-2/20: in service
2/20-2/24: ladder flow only
2/24-6/21: in service
6/21: out of service for spillway inspection
6/21-12/31: in service

Ice/Trash Sluiceway (Juvenile)

1/1-4/2: out of service
4/2-9/16: in service
9/16-9/23: out of service (end gate closed)
9/23-11/5: in service
11/5-11/18: out of service (end gate closed)
11/18-12/31: out of service

Spillway

1/1-4/11: closed
4/11-9/1: spill 40%, 24 hours
9/1-12/31: closed

FISH RELATED DEWATERINGS

FISHWAY DEWATERING PROCEDURES

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

Fishway Dewaterings

North ladder (2/2) – Annual inspection and maintenance. Nineteen lamprey provided to Umatilla tribe for restocking efforts. Four adult steelhead and 1 juvenile steelhead removed and released to river.

East ladder (12/5) – Annual inspection and maintenance. Seven adult steelhead, 1 adult Chinook, approx. 20 shad, 10 lamprey, and 10 miscellaneous resident fish removed and released to river.

South entrance (12/8) – Annual inspection and maintenance. Approximately 25 lamprey were removed and released to river. Two lamprey mortalities found atop grating next day.

Collection and transportation channels (12/8) – Annual inspection and maintenance. Fifty-five lamprey, 1 small sturgeon, 1 carp, and 7 steelhead removed from junction pool and released to river. Four steelhead removed from transportation channel and released to river.

Fishway Dives

North and east fishway ROV(8/9) – Annual mid season inspection. Grating found loose at unit 18-1 in collection channel. Diffuser left closed and repair planned for winter outage.

TURBINE DEWATERING PROCEDURES

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

TURBINE DEWATERINGS

Main turbine unit 16 (2/2) – Routine maintenance. No fish in scroll case or draft tube.

Fish turbine units (2/12) – Routine maintenance. No fish in scroll case or draft tube.

Main turbine unit 15 (5/2) – Scroll only, no fish

Main turbine unit 18 (5/12) – Routine maintenance. No fish found in scroll case. Two sturgeon and 2 catfish removed from draft tube and released to river.

FISHWAY INSPECTION COMPARISON

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

FISHWAY INSPECTION RESULTS

<u>Criteria Item</u>	<u>2005</u>	<u>2004</u>	<u>2003</u>	<u>2002</u>
East Fishway				
Exit differential	0	0	0	0
Weir 158	2	3	2	3
Weirs 154 – 157	9	2	13	8
<i>Count station differential</i>	1	2	2	2
<i>Weir crest depth</i>	1	7	5	1
<i>JP2 junction pool</i>	1	1	22	20
<i>JP4 junction pool</i>	0	1	22	18
<i>JP6 junction pool</i>	5	21	40	21
East entrance differential	1	10	5	12
E1 entrance depth	closed	closed	1	closed
E2 entrance depth	2	19	17	4
E3 entrance depth	1	2	1	4
<i>Collection channel velocity</i>	42	32	19	-
West entrance differential	7	7	4	18
W1 entrance depth	1	4	3	9
W2 entrance depth	8	3	1	8
W3 entrance depth	closed	closed	2	closed
South entrance differential	4	9	4	14
S1 entrance depth	1	7	4	31
S2 entrance depth	1	7	3	2

<u>Criteria Item</u>	<u>2005</u>	<u>2004</u>	<u>2003</u>	<u>2002</u>
North Fishway				
Exit differential	0	0	1	0
<i>Count station differential</i>	1	0	0	0
<i>Weir crest depth</i>	1	0	2	
North entrance differential	1	1	1	1
N1 entrance depth	1	2	1	1
N2 entrance depth	closed	closed	closed	closed
<i>PUD intake differential</i>	1	1	1	1
<i>Ice/Trash Sluice gate operation</i>	2	0	0	0
<i>Spill pattern</i>	0	0	1	0
Turbine operation priority		0	0	-
<i>Turbine 1% operation</i>	2	0	2	-

Discussion

Overall there was an improvement to criteria operation of all fishway equipment. This is largely due to automation improvements over recent years. The collection channel velocity continues to be a problem at the east 10% of the channel. Velocity meter calibration has also been a problem. A single velocity meter is located in this slow section of the channel. Diffusers were adjusted within limits in attempts to correct. This is now considered a design deficiency and cannot be operationally corrected. Investigation of University of Idaho adult radio telemetry data did not reveal a fish passage problem in this area. The velocity meter will continue to be calibrated and used. However, float velocity tests will be done in 2006 to provide a better understanding of velocities through the entire channel.

COUNT ACTIVITY

Visual fish counting was conducted 4/1/05 to 10/31/06 by Washington Dept of Fish and Wildlife contract. Counts were sent electronically directly to data base.

WATER QUALITY

Temperature continues to be read from station service penstock at The Dalles. Water clarity continues to be read by secchi dish at count stations. Fishway water temperatures are logged 24hrs/day during passage season and results provided with weekly fishway status reports.

TABLE 25

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

2005

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*		1	44	18,797	41,560	48,505	27,685	25,764	203,518	23,064	958	9	389,905
STEELHEAD		107	688	558	616	4,483	33,476	33,332	126,710	41,174	3,020	49	244,213
SOCKEYE					4	38,474	26,688	98	7	2			65,273
COHO*							1	438	20,376	13,814	1,500		36,129
CHUM													
PINK									23				23
TOTAL		108	732	19,355	42,180	91,462	87,850	59,632	350,634	78,054	5,478	58	735,543
SHAD				58	675,277	5,123,516	265,142	3,035					6,067,028
LAMPREY					2	1,322	5,490	1,217	276	54			8,361

*Jacks included

Counting occurred Feb 22 through Dec 5 from 0400-2000 PST. Visual counts occurred Apr 1 - Oct 31.

Video counting occurred during all other times.

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

TABLE 26

DISCHARGE AND WATER QUALITY DATA
THE DALLES PROJECT 2005

JANUARY

DATE	DISCH	SPILL	TURBIDITY	
	KCFS	KCFS	SECCHI	DEG F
Jan 1	128.8	0.0	*	*
Jan 2	119.3	0.0	4.0	44.0
Jan 3	158.4	0.0	6.0	43.0
Jan 4	155.0	0.0	6.0	43.0
Jan 5	159.7	0.0	6.0	42.0
Jan 6	175.2	0.0	6.0	43.0
Jan 7	163.1	0.0	6.0	42.0
Jan 8	162.9	0.0	6.0	41.0
Jan 9	106.9	0.0	6.0	41.0
Jan 10	145.2	0.0	6.0	41.0
Jan 11	143.4	0.0	6.0	41.0
Jan 12	117.6	0.0	6.0	39.0
Jan 13	171.6	0.0	6.0	40.0
Jan 14	193.5	0.0	6.0	39.0
Jan 15	156.1	0.0	5.0	37.0
Jan 16	126.4	0.0	6.0	38.0
Jan 17	147.5	0.0	5.0	38.0
Jan 18	118.3	0.0	6.0	38.0
Jan 19	140.3	0.0	6.0	38.0
Jan 20	125.0	0.0	6.0	38.0
Jan 21	136.7	0.0	6.0	38.0
Jan 22	130.3	0.0	6.0	38.0
Jan 23	125.7	0.0	6.0	38.0
Jan 24	127.7	0.0	6.0	37.0
Jan 25	143.4	0.0	6.0	37.0
Jan 26	159.0	0.0	*	*
Jan 27	154.0	0.0	6.0	38.0
Jan 28	147.2	0.0	6.0	37.0
Jan 29	146.1	0.0	6.0	36.0
Jan 30	116.1	0.0	6.0	36.0
Jan 31	130.3	0.0	6.0	38.0
AVG.	142.9	0.0	5.9	39.3

*Data unavailable.

TABLE 27

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

THE DALLES PROJECT
FEBRUARY 2005

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Feb 1												136.2	0.0	6.0	38.0
Feb 2												151.6	0.0	6.0	40.0
Feb 3												147.7	0.0	6.0	38.0
Feb 4												148.7	0.0	6.0	40.0
Feb 5												157.2	0.0	6.0	40.0
Feb 6												148.8	0.0	6.0	40.0
Feb 7												159.1	0.0	6.0	40.0
Feb 8												150.2	0.0	6.0	40.0
Feb 9												149.9	0.0	*	*
Feb 10												165.9	0.0	6.0	40.0
Feb 11												161.1	0.0	6.0	40.0
Feb 12												148.1	0.0	6.0	39.0
Feb 13												108.5	0.0	6.0	40.0
Feb 14												128.3	0.0	6.0	40.0
Feb 15												152.2	0.0	6.0	40.0
Feb 16												160.6	0.1	*	*
Feb 17												161.2	0.1	*	*
Feb 18												164.5	0.0	5.0	40.0
Feb 19												140.9	0.0	*	*
Feb 20												116.0	0.0	6.0	41.0
Feb 21												120.4	0.0	6.0	40.0
Feb 22	0							3	2			141.6	3.0	6.0	40.0
Feb 23	0							9	2			129.7	0.0	*	*
Feb 24	0							9	4			114.9	0.0	6.0	40.0
Feb 25	0							13	6			107.0	0.0	6.0	39.0
Feb 26	0							39	15			106.7	0.0	6.0	39.0
Feb 27	1							20	11			125.8	0.0	6.0	39.0
Feb 28	0							14	6			130.5	0.0	5.5	40.0
TOTAL	1							107	46						
AVG.	0							15	7			140.5	0.1	5.9	39.7

*Data unavailable.

Note: From February 22 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 2005

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Mar 1	1							15	4			116.9	0.0	5.5	40.0
Mar 2	0							10	4			120.5	0.0	*	*
Mar 3	0							31	11			120.9	0.0	6.0	41.0
Mar 4	1							37	20			140.5	0.0	5.5	41.0
Mar 5	1							15	12			140.8	0.0	6.0	39.0
Mar 6	0							16	8			101.1	0.0	6.0	40.0
Mar 7	0							22	9			127.9	0.0	6.0	39.0
Mar 8	0							37	10			121.3	0.0	6.0	42.0
Mar 9	0							36	18			118.0	0.0	6.0	43.0
Mar 10	1							19	10			136.2	0.0	6.0	42.0
Mar 11	1							29	11			127.7	0.0	6.0	40.0
Mar 12	0							12	5			122.5	0.0	6.0	40.0
Mar 13	2							27	7			122.1	0.0	6.0	40.0
Mar 14	2							33	11			113.9	0.0	6.0	43.0
Mar 15	2							17	4			116.4	0.0	5.0	44.0
Mar 16	2							13	8			135.7	0.3	6.0	44.0
Mar 17	5							16	5			110.9	0.0	6.0	44.0
Mar 18	1							9	4			154.8	0.0	6.0	45.0
Mar 19	1							21	11			134.1	0.0	6.0	45.0
Mar 20	1							13	7			112.9	0.0	5.0	45.0
Mar 21	1							14	6			133.4	0.0	5.5	45.0
Mar 22	2							18	5			136.8	0.0	5.5	45.0
Mar 23	1							28	4			141.9	0.0	5.0	46.0
Mar 24	3							20	7			131.8	0.0	5.5	46.0
Mar 25	3							28	9			130.0	0.0	4.5	45.0
Mar 26	2							23	3			111.7	0.0	5.0	46.0
Mar 27	1							32	14			93.2	0.0	6.0	45.0
Mar 28	1							28	10			120.8	0.0	5.0	45.0
Mar 29	3							38	18			145.4	0.0	4.0	46.0
Mar 30	3							25	11			138.4	0.0	5.0	45.0
Mar 31	3							6	4			163.0	0.0	5.0	45.0
TOTAL	44							688	270						
AVG.	1							22	9			127.1	0.0	5.6	43.2

*Data unavailable.

Note: From February 22 to March 31, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Official Spring Chinook run started April 1. February and March Chinook counts were not added to spring totals.

TABLE 29

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

THE DALLES PROJECT
APRIL 2005

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Apr 1	0			0				3	-2	0		146.0	0.0	5.0	46.0
Apr 2	2			0				19	10	0		143.4	0.0	*	*
Apr 3	7			0				28	12	0		121.8	0.0	4.5	47.0
Apr 4	0			0				6	2	0		124.8	0.0	4.5	46.0
Apr 5	6			0				34	18	0		149.5	0.0	4.0	46.0
Apr 6	13			0				15	9	0		169.2	0.0	4.5	46.0
Apr 7	5			0				23	11	0		133.5	0.0	4.0	46.0
Apr 8	11			0				23	11	0		119.4	0.0	4.0	47.0
Apr 9	20			0				33	19	0		109.1	0.0	4.0	47.0
Apr 10	8			0				21	10	0		124.9	0.0	4.0	47.0
Apr 11	18			0				22	13	0		130.3	28.0	4.0	48.0
Apr 12	10			0				21	6	0		140.4	53.8	4.0	48.0
Apr 13	13			0				18	8	0		147.9	57.6	4.0	48.0
Apr 14	43			0				24	19	0		131.7	52.1	4.5	48.0
Apr 15	30			0				24	12	0		145.5	55.7	4.0	48.0
Apr 16	43			0				23	15	0		114.1	44.1	4.0	49.0
Apr 17	102			0				3	2	0		118.6	46.3	4.0	49.0
Apr 18	183			0				15	10	0		117.0	44.5	4.0	49.0
Apr 19	207			1				11	11	0		126.3	50.2	4.0	49.0
Apr 20	307			0				20	12	0		127.0	49.5	4.0	50.0
Apr 21	439			0				20	14	0		119.5	45.8	5.0	50.0
Apr 22	732			0				21	12	0		165.0	65.4	5.0	50.0
Apr 23	699			1				16	8	0		140.5	54.3	4.0	50.0
Apr 24	2,104			2				19	9	0		124.2	47.7	4.0	51.0
Apr 25	1,463			1				16	12	0		127.5	49.8	*	52.0
Apr 26	1,160			3				19	12	0		178.2	63.3	4.5	52.0
Apr 27	2,880			4				13	7	5		176.5	63.9	4.0	52.0
Apr 28	2,945			7				19	12	16		191.7	66.9	4.0	52.0
Apr 29	3,092			5				17	6	12		158.5	62.7	4.5	52.0
Apr 30	2,223			8				12	3	25		164.5	64.5	4.0	53.0
TOTAL	18,765			32				558	303	58					
AVG.	626			1				19	10	2		139.6	35.5	4.2	48.9

*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 2005

DATE	FISH COUNTS					RIVER CONDITIONS									
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
May 1	2,433			12			0	13	3	38	0	157.6	62.2	4.0	53.0
May 2	2,523			20			0	10	7	47	0	177.4	70.0	4.0	53.0
May 3	2,036			34			0	6	4	22	0	177.0	69.4	4.0	54.0
May 4	1,967			32			0	13	7	32	0	173.3	69.4	4.0	55.0
May 5	1,795			45			0	-2	6	170	0	186.1	72.4	4.0	55.0
May 6	2,861			80			0	3	1	805	0	189.7	65.1	4.0	55.0
May 7	3,067			131			0	12	5	449	0	193.0	59.9	4.0	56.0
May 8	1,147			99			0	2	1	445	0	206.2	66.0	4.0	56.0
May 9	705			53			0	14	13	1,098	0	236.4	79.8	5.0	56.0
May 10	611			51			0	9	4	2,303	0	225.4	77.6	4.0	56.0
May 11	493			57			0	7	2	1,418	1	252.8	80.4	4.0	56.0
May 12	382			36			0	6	0	1,551	0	262.3	80.1	3.0	56.0
May 13	758			86			0	13	5	1,819	0	240.8	80.2	4.0	56.0
May 14	765			120			0	12	6	3,812	0	236.6	79.2	4.0	57.0
May 15	971			111			0	13	1	4,931	0	223.9	79.5	4.0	57.0
May 16	1,356			175			0	13	8	5,756	0	222.7	79.9	4.0	57.0
May 17	1,161			214			0	19	2	16,724	0	255.8	81.2	4.0	57.0
May 18	970			123			0	42	2	11,748	0	286.5	79.6	5.0	57.0
May 19	1,193			289			0	19	1	11,905	0	260.3	79.7	4.0	58.0
May 20	843			196			0	24	1	29,094	0	255.0	81.1	4.0	57.0
May 21	476			100			0	25	6	17,878	0	270.7	81.0	*	57.0
May 22	570			105			0	14	2	23,012	0	256.7	80.7	5.0	58.0
May 23	698			120			0	28	5	32,336	0	260.2	80.6	4.0	58.0
May 24	846			113			0	24	10	18,911	0	246.5	77.9	5.0	58.0
May 25	867			125			0	15	2	41,762	0	227.2	76.0	3.0	57.0
May 26	964			91			0	28	1	42,566	0	246.2	69.4	4.0	58.0
May 27	789			89			0	17	0	103,066	0	252.5	69.5	4.0	58.0
May 28	972			89			0	13	-1	92,645	-1	267.1	72.9	4.0	59.0
May 29	1,355			128			0	127	39	85,136	1	218.9	69.4	4.0	59.0
May 30	1,373			66			0	43	6	75,139	0	174.8	68.9	5.0	59.0
May 31	1,549			74			4	34	10	48,659	1	181.8	68.9	5.0	60.0
TOTAL	38,496			3,064			4	616	159	675,277	2				
AVG.	1242			99			0	20	5	21,783	0	226.5	74.4	4.1	56.7
RUN YEAR															
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK				SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY				
SPRING		57,261	3,096				4	1,174	462	675,335	2				

*Data Unavailable

TABLE 31

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

THE DALLES PROJECT
JUNE 2005

DATE	FISH COUNTS			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	RIVER CONDITIONS			
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL									DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	TURBIDITY DEG F
Jun 1	1,260			38			5	75	34	108,315	3	212.9	69.5	4.0	60.0
Jun 2	1,324			39			8	55	17	96,058	6	229.5	69.8	4.0	60.0
Jun 3	1,119			37			17	55	11	111,666	5	213.5	69.5	4.0	60.0
Jun 4		1,100		36			23	51	24	116,021	0	228.1	67.8	4.0	60.0
Jun 5		908		103			27	59	16	124,490	9	163.6	63.2	4.0	60.0
Jun 6		1,138		28			34	32	14	191,230	7	202.5	65.7	4.0	60.0
Jun 7		940		35			61	39	13	208,719	3	170.8	64.0	4.0	60.0
Jun 8		1,222		32			77	39	22	250,997	11	173.6	64.3	4.0	61.0
Jun 9		1,445		79			115	97	25	181,005	5	205.1	69.8	4.0	60.0
Jun 10		1,354		63			343	118	18	252,418	23	182.7	66.4	5.0	60.0
Jun 11		1,394		47			368	105	40	254,508	25	195.9	69.5	4.0	61.0
Jun 12		1,968		59			589	94	33	283,372	26	158.5	62.1	4.0	60.0
Jun 13		1,321		46			460	101	36	247,642	30	163.9	63.6	5.0	60.0
Jun 14		1,842		39			835	79	49	420,906	40	177.1	66.3	5.0	*
Jun 15		1,760		70			1,086	96	35	263,465	38	185.2	62.9	5.0	61.0
Jun 16		1,560		59			966	83	48	230,219	90	166.9	62.1	4.0	62.0
Jun 17		1,835		81			1,372	151	55	140,254	30	175.3	63.1	4.0	62.0
Jun 18		1,867		64			1,539	146	53	118,358	26	187.0	67.6	5.0	62.0
Jun 19		1,580		63			1,873	146	68	238,008	64	136.8	53.7	5.0	62.0
Jun 20		1,443		52			1,667	166	71	173,069	44	180.2	63.1	5.0	63.0
Jun 21		1,758		77			2,677	183	69	175,432	83	176.5	48.8	*	*
Jun 22		2,007		68			2,218	201	84	134,796	55	193.7	67.5	5.0	63.0
Jun 23		1,592		74			1,998	206	83	105,840	72	222.9	74.3	5.0	63.0
Jun 24		2,380		192			2,922	306	97	81,471	42	197.2	71.5	5.0	64.0
Jun 25		1,955		64			2,036	351	242	210,006	67	204.5	67.6	5.0	64.0
Jun 26		1,613		90			2,327	209	103	103,492	63	185.3	71.8	5.0	64.0
Jun 27		1,578		66			2,616	243	163	93,212	76	203.5	72.2	5.0	64.0
Jun 28		2,059		104			3,568	348	166	67,372	120	179.5	70.2	5.0	64.0
Jun 29		1,756		60			3,258	275	198	90,274	124	192.5	72.2	5.0	65.0
Jun 30		1,482		80			3,389	374	164	50,901	135	199.0	69.7	5.0	65.0
TOTAL	3,703	42,857		1,945			38,474	4,483	2,051	5,123,516	1,322				
AVG.	1,234	1587		65			1,282	149	68	170,784	44	188.8	66.3	4.6	61.8

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
TOTALS TO DATE							
SPRING	60,964	3,210	38,478	5,657	2,513	5,798,851	1,324
SUMMER	42,857	1,831					
TOTAL	103,821	5,041					

TABLE 32

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

THE DALLES PROJECT
JULY 2005

FISH COUNTS												RIVER CONDITIONS					
DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY			
	SPRING	SUMMER	FALL											SECCHI	DEG F		
Jul 1		1,572		99	0		3,975	395	175	47,057	177	133.8	84.0	5.0	66.0		
Jul 2		1,648		94	0		3,491	528	253	35,411	232	180.0	71.8	5.0	66.0		
Jul 3		1,683		91	0		2,546	593	275	29,701	254	108.6	84.0	5.0	66.0		
Jul 4		1,997		100	0		2,900	665	340	23,592	242	118.3	54.0	4.5	67.0		
Jul 5		1,723		83	0		1,916	671	437	23,831	300	161.5	84.0	4.5	67.0		
Jul 6		1,177		54	0		1,644	798	564	34,103	389	149.5	84.0	5.0	66.0		
Jul 7		984		33	0		1,478	712	481	14,887	200	128.8	51.9	5.0	66.0		
Jul 8		1,409		94	0		1,639	972	457	10,148	311	165.7	68.0	5.0	66.0		
Jul 9		1,070		84	0		1,101	1,219	573	9,057	228	211.9	84.0	4.0	69.0		
Jul 10		823		55	0		735	973	442	5,976	229	166.2	70.0	4.5	67.0		
Jul 11		614		44	-1		444	882	600	4,329	142	166.7	84.0	4.0	67.0		
Jul 12		528		29	0		391	898	427	3,517	178	151.0	76.0	4.0	67.0		
Jul 13		598		51	0		411	856	426	2,806	203	153.2	70.9	5.0	68.0		
Jul 14		563		35	0		409	780	408	3,014	167	160.2	69.1	4.0	67.0		
Jul 15		891		44	0		527	1,125	562	3,355	175	187.5	80.0	4.0	68.0		
Jul 16		807		30	1		346	955	667	2,198	120	156.1	80.8	4.0	68.0		
Jul 17		691		61	0		378	985	471	1,678	136	169.5	80.2	4.0	69.0		
Jul 18		1,022		36	0		336	1,121	780	2,924	113	137.3	80.2	4.0	68.0		
Jul 19		938		43	0		470	1,254	616	1,467	163	156.0	63.6	4.0	68.0		
Jul 20		497		32	1		310	941	614	1,073	109	148.1	52.1	4.0	68.0		
Jul 21		505		38	0		292	941	450	762	115	163.6	81.5	3.5	68.0		
Jul 22		667		56	0		250	1,498	682	730	153	158.9	80.0	3.5	70.0		
Jul 23		630		41	0		184	1,763	822	887	198	133.4	54.0	4.5	69.0		
Jul 24		651		71	0		144	1,552	677	662	128	116.8	52.0	4.0	69.0		
Jul 25		605		39	0		95	1,953	878	306	95	144.9	79.3	4.0	70.0		
Jul 26		330		16	0		84	1,418	810	108	75	166.1	79.4	4.5	70.0		
Jul 27		410		22	0		58	1,611	732	431	149	155.9	78.1	4.0	71.0		
Jul 28		278		26	0		52	1,134	678	384	165	133.9	60.0	4.5	71.0		
Jul 29		260		30	0		37	1,402	568	467	152	127.2	76.0	4.0	70.0		
Jul 30		312		33	0		37	1,671	546	206	74	169.0	66.0	5.0	70.0		
Jul 31		209		29	0		8	1,210	453	75	118	118.6	54.1	5.0	71.0		
TOTAL		26,092		1,593	1		26,688	33,476	16,864	265,142	5,490						
AVG		842		51	0		861	1,080	544	8,553	177	151.6	72.0	4.4	68.2		
RUN YEAR																	
TOTALS TO DATE																	
CHINOOK ADULT		CHINOOK JACK		COHO ADULT		COHO JACK		SOCKEYE		TOTAL STEELHEAD		WILD STEELHEAD		SHAD		LAMPREY	
SPRING		3,210		1		0		65,166		39,133		19,377		6,063,993		6,814	
SUMMER		3,424															
TOTAL		6,634															

TABLE 33

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

THE DALLES PROJECT
AUGUST 2005

DATE	FISH COUNTS			FISH COUNTS							RIVER CONDITIONS				
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFs	SPILL KCFs	TURBIDITY SECCHI	DEG F
Aug 1		185		17	0	0	19	824	576	113	30	140.7	70.0	5.0	70.0
Aug 2		300		16	0	0	14	1,102	329	339	143	138.7	74.0	4.0	70.0
Aug 3		216		29	0	0	9	946	315	319	126	133.2	54.0	4.5	71.0
Aug 4			184	10	0	0	5	578	189	255	78	117.4	36.1	4.5	71.0
Aug 5			195	11	0	0	8	552	193	226	33	109.8	52.0	5.5	71.0
Aug 6			119	10	0	0	6	399	230	164	20	130.5	52.0	4.0	72.0
Aug 7			227	12	0	0	8	542	208	146	65	100.2	74.0	4.5	71.0
Aug 8			265	16	0	0	4	550	289	76	33	129.7	52.0	5.0	72.0
Aug 9			248	17	0	0	1	719	260	138	54	92.3	60.0	5.0	71.0
Aug 10			189	19	0	0	1	627	339	93	39	109.8	59.4	5.0	72.0
Aug 11			281	14	0	0	0	618	178	122	42	131.3	64.0	4.5	71.0
Aug 12			326	30	0	0	2	736	222	173	53	96.6	52.3	4.5	71.0
Aug 13			428	20	-1	0	1	1,010	318	23	38	108.6	54.0	4.5	72.0
Aug 14			324	31	0	0	5	643	223	52	54	97.7	38.0	4.5	71.0
Aug 15			283	25	0	0	2	800	264	63	59	96.8	60.0	5.0	72.0
Aug 16			289	31	0	0	2	467	212	32	36	92.0	68.4	4.5	71.0
Aug 17			387	44	0	0	0	479	153	28	41	95.8	47.9	4.0	72.0
Aug 18			307	41	0	0	1	592	226	17	21	114.3	61.9	4.0	71.0
Aug 19			282	29	0	0	0	965	253	30	16	125.5	69.6	4.5	71.0
Aug 20			260	21	0	0	0	666	252	61	25	101.4	50.1	5.0	71.0
Aug 21			391	30	0	0	0	666	184	34	41	99.3	48.1	4.5	72.0
Aug 22			1,420	77	2	0	2	878	408	68	22	108.8	40.0	5.0	72.0
Aug 23			542	32	12	0	1	1,276	387	48	10	104.3	65.0	4.5	71.0
Aug 24			1,042	97	11	10	1	3,070	820	68	21	104.0	48.0	5.0	72.0
Aug 25			1,001	96	21	3	2	2,306	614	106	21	124.3	38.4	5.0	71.0
Aug 26			1,289	75	25	2	1	2,260	622	42	17	110.6	44.0	5.0	71.0
Aug 27			2,743	113	47	5	1	1,840	487	88	19	96.0	50.0	5.0	71.0
Aug 28			2,728	138	97	11	1	1,907	446	40	30	99.3	55.0	44.0	71.0
Aug 29			2,952	109	66	13	1	1,613	581	21	13	93.7	36.5	5.0	71.0
Aug 30			2,269	131	49	6	0	1,365	347	43	11	140.6	40.1	5.0	70.0
Aug 31			2,541	210	45	14	0	2,336	784	7	6	133.9	47.0	5.0	70.0
TOTAL	701	23,512	1,551	374	64	98		33,332	10,909	3,035	1,217				
AVG.	234	840	50	12	2	3		1075	352	98	39	112.2	53.6	6.0	71.2

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	60,964	3,210
SUMMER	69,650	3,486
FALL	23,512	1,489
TOTAL	154,126	8,185

COHO ADULTS	COHO JACKS	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
375	64	65,264	72,465	30,286	6,067,028	8,031

TABLE 34

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

THE DALLES PROJECT
SEPTEMBER 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Sep 1			2,313	165	30	4	0	1,817	419	0	5	122.5	0.0	5.0	70.0
Sep 2			3,340	187	87	18	1	1,328	325	0	22	104.3	0.0	5.0	70.0
Sep 3			10,623	367	333	36	1	2,544	588	0	16	95.7	0.0	5.0	70.0
Sep 4			10,688	504	738	57	0	2,565	653	1	17	95.1	0.0	5.0	70.0
Sep 5			10,324	548	810	70	0	2,814	634	0	11	78.1	0.0	5.0	69.0
Sep 6			8,058	699	564	109	0	3,120	744	0	11	91.8	0.0	5.0	70.0
Sep 7			5,821	499	546	103	0	3,164	665	2	8	86.6	0.0	5.0	69.0
Sep 8			6,672	465	516	64	0	2,350	774	0	13	67.5	0.0	5.5	70.0
Sep 9			6,789	519	468	80	0	2,738	597	0	11	91.4	0.0	5.5	70.0
Sep 10			8,909	820	950	132	0	4,627	836	0	11	81.2	0.0	5.0	68.0
Sep 11			9,118	591	1,153	78	0	6,039	1,284	0	11	77.9	0.0	4.5	68.0
Sep 12			11,914	672	817	110	0	5,126	1,966	0	5	87.8	0.0	5.5	69.0
Sep 13			7,886	855	651	154	0	6,061	1,631	0	20	73.1	0.0	5.5	69.0
Sep 14			6,276	540	1,285	150	0	5,679	1,376	10	11	94.0	0.0	5.5	69.0
Sep 15			7,150	339	679	53	0	4,784	1,203	0	13	94.2	0.0	5.5	68.0
Sep 16			9,199	512	1,439	61	0	7,851	1,896	6	13	111.7	0.0	5.0	67.0
Sep 17			13,401	680	1,304	140	0	10,780	3,713	1	6	84.4	0.0	5.0	66.0
Sep 18			6,205	407	1,479	82	0	7,235	1,627	2	7	105.2	0.0	5.0	65.0
Sep 19			7,261	420	757	48	0	6,966	1,877	1	1	74.2	0.0	4.0	67.0
Sep 20			4,957	358	725	35	0	3,808	824	0	5	75.5	0.0	4.5	67.0
Sep 21			6,658	537	408	36	0	3,976	1,026	0	8	115.8	0.0	4.0	66.0
Sep 22			3,537	389	434	39	0	3,511	645	0	8	100.1	0.0	5.0	66.0
Sep 23			2,963	523	308	29	0	3,647	733	0	4	104.6	0.0	5.5	65.0
Sep 24			3,568	394	493	43	0	5,234	1,058	0	5	72.6	0.0	5.5	65.0
Sep 25			2,373	423	372	18	0	3,311	687	0	12	68.4	0.0	5.5	66.0
Sep 26			2,234	322	328	24	0	2,975	624	0	6	72.7	0.0	5.5	65.0
Sep 27			3,331	266	250	24	0	2,985	834	0	5	110.8	0.0	5.5	65.0
Sep 28			2,635	399	318	36	0	4,007	935	0	2	79.0	0.0	*	*
Sep 29			3,551	386	137	18	5	3,331	933	0	2	93.1	0.0	5.0	65.0
Sep 30			1,617	361	132	14	0	2,337	417	0	7	98.7	0.0	5.5	65.0
TOTAL			189,371	14,147	18,511	1,865	7	126,710	31,524	23	276				

AVG.			6,312	472	617	62		4,224	1,051	1	9	90.3	0.0	5.1	67.6
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*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	60,964	3,210
SUMMER	69,650	3,486
FALL	212,883	15,636
TOTAL	343,497	22,332

COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	PINK
18,886	1,929	65,271	199,175	61,810	6,067,028	8,307	23

TABLE 35

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

THE DALLES PROJECT

OCTOBER 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Oct 1			2,623	323	276	29	1	4,759	1,319		7	85.1	0.0	5.0	65.0
Oct 2			1,866	240	5,864	38	0	6,516	1,773		4	73.2	0.0	5.0	66.0
Oct 3			1,680	210	2,400	48	0	2,825	783		7	101.0	0.0	6.0	64.0
Oct 4			1,264	128	826	8	0	2,294	552		1	126.5	0.0	5.0	64.0
Oct 5			1,335	168	373	8	0	2,348	454		2	103.6	0.0	5.0	64.0
Oct 6			1,029	126	269	11	0	2,015	449		1	106.7	0.0	5.5	64.0
Oct 7			1,225	174	271	26	0	2,498	444		4	155.4	0.0	6.0	64.0
Oct 8			787	136	245	5	0	1,816	402		4	99.6	0.0	5.5	63.0
Oct 9			1,275	204	156	20	0	1,687	345		5	85.1	0.0	5.5	63.0
Oct 10			813	138	156	5	0	1,339	250		5	70.3	0.0	5.5	63.0
Oct 11			1,159	77	200	4	0	1,623	319		1	139.1	0.0	5.0	62.0
Oct 12			589	106	156	7	0	1,423	275		0	123.1	0.0	5.0	62.0
Oct 13			505	100	187	6	0	1,638	377		1	109.4	0.0	5.5	62.0
Oct 14			475	84	116	2	0	1,072	239		1	104.8	0.0	5.5	62.0
Oct 15			294	38	82	0	0	734	152		0	116.5	0.0	5.5	62.0
Oct 16			385	54	146	5	0	920	192		4	71.3	0.0	5.5	62.0
Oct 17			347	58	143	3	0	891	176		1	86.0	0.0	5.5	62.0
Oct 18			355	42	172	6	0	759	141		0	153.0	0.0	6.0	62.0
Oct 19			499	50	153	2	0	651	147		0	123.0	0.0	6.0	62.0
Oct 20			249	13	60	6	0	409	119		0	139.2	0.0	6.0	62.0
Oct 21			240	30	114	1	0	498	141		5	106.1	0.0	5.5	61.0
Oct 22			252	17	73	0	0	218	57		0	100.7	0.0	5.5	61.0
Oct 23			125	16	104	3	0	375	75		0	84.3	0.0	6.0	62.0
Oct 24			126	14	55	0	0	180	32		0	122.5	0.0	6.0	61.0
Oct 25			137	4	60	2	1	229	50		0	125.2	0.0	6.0	61.0
Oct 26			125	13	65	1	0	209	46		1	112.1	0.0	6.0	61.0
Oct 27			112	5	110	0	0	247	63		0	144.7	0.0	5.5	60.0
Oct 28			167	4	108	1	0	240	64		0	119.8	0.0	6.0	60.0
Oct 29			222	8	130	0	0	218	53		0	112.1	0.0	6.0	60.0
Oct 30			148	-20	215	2	0	306	74		0	92.8	0.0	6.0	60.0
Oct 31			88	8	276	4	0	237	42		0	131.8	0.0	6.0	59.0
TOTAL			20,496	2,568	13,561	253	2	41,174	9,605		54				

AVG.	661	83	437	8	0	1,328	310	2	110.5	0.0	5.6	62.1
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	PINK
TOTALS TO DATE										
SPRING	60,964	3,210	32,447	2,182	65,273	240,349	71,415	6,067,028	8,361	23
SUMMER	69,650	3,486								
FALL	233,379	18,204								
TOTAL	363,993	24,900								

Note: Visual counts ended October 31.

TABLE 36

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

THE DALLES PROJECT
NOVEMBER 2005

DATE	FISH COUNTS					SOCKEYE	TOTAL		SHAD	LAMPREY	RIVER CONDITIONS				
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT		COHO JACK	STEELHEAD			WILD STEELHEAD	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Nov 1			103	11	739	4		267	78			103.0	0.0	5.5	59.0
Nov 2			89	18	303	1		314	82			99.2	0.0	6.0	58.0
Nov 3			82	10	110	0		311	56			136.3	0.0	5.5	58.0
Nov 4			59	3	54	0		233	41			138.7	0.0	5.5	58.0
Nov 5			70	13	70	1		212	41			124.0	0.0	6.0	58.0
Nov 6			55	4	69	0		322	44			80.1	0.0	5.0	57.0
Nov 7			30	2	30	0		168	22			100.5	0.0	5.5	57.0
Nov 8			31	0	28	0		166	16			145.0	0.0	6.0	56.0
Nov 9			65	3	30	0		227	28			160.1	0.0	6.0	56.0
Nov 10			40	4	5	0		127	26			113.8	0.0	6.0	56.0
Nov 11			29	-1	12	0		99	19			105.0	0.0	5.5	55.0
Nov 12			17	2	13	0		62	10			109.5	0.0	5.5	55.0
Nov 13			13	4	13	0		36	11			120.1	0.0	5.5	54.0
Nov 14			19	5	0	0		71	14			112.5	0.0	6.0	54.0
Nov 15			26	6	0	0		73	19			132.3	0.0	5.5	53.0
Nov 16			24	0	6	0		56	7			138.0	0.0	6.0	53.0
Nov 17			13	0	-1	0		37	2			143.2	0.0	6.0	53.0
Nov 18			16	2	3	0		26	2			138.3	0.0	5.0	52.0
Nov 19			16	0	2	0		26	5			146.0	0.0	5.0	52.0
Nov 20			3	0	4	0		24	4			130.5	0.0	5.0	51.0
Nov 21			13	0	1	0		31	10			154.1	0.0	6.0	51.0
Nov 22			11	0	3	0		18	2			153.8	0.0	5.5	51.0
Nov 23			7	0	-2	0		8	2			146.5	0.0	6.0	50.0
Nov 24			5	0	1	0		13	1			133.0	0.0	5.5	50.0
Nov 25			11	2	1	0		15	1			143.8	0.0	5.5	50.0
Nov 26			6	0	2	0		25	5			119.0	0.0	5.5	49.0
Nov 27			0	1	-1	0		12	3			130.0	0.0	5.5	49.0
Nov 28			2	0	0	0		15	2			117.7	0.0	5.5	48.0
Nov 29			9	1	0	-1		13	1			117.1	0.0	5.5	48.0
Nov 30			4	0	0	0		13	2			121.3	0.0	5.5	*
TOTAL			868	90	1,495	5		3,020	556						
AVG.			29	3	50	0		101	19			127.1	0.0	5.6	53.5

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	PINK
TOTALS TO DATE										
SPRING	60,964	3,210	32,447	2,182	65,273	240,349	71,415	6,067,028	8,361	23
SUMMER	69,650	3,486								
FALL	233,379	18,204								
TOTAL	363,993	24,900								

Note: Video counts occurred from November 1 through December 5. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Video was disrupted resulting in lost data on November 7-8. Official Fall chinook run ended October 31st. November and December totals were not added to fall totals. Pink counts are total for entire calendar year.

TABLE 37

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

THE DALLES PROJECT
DECEMBER 2005

DATE	FISH COUNTS					RIVER CONDITIONS										
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F	
	SPRING	SUMMER	FALL													
Dec 1			4	0	-1			20	3			135.0	0.0	5.5	48.0	
Dec 2			3	1	2			8	1			163.6	0.0	5.0	47.0	
Dec 3			0	0	-1			11	5			122.0	0.0	5.0	47.0	
Dec 4			1	0	0			8	2			119.1	0.0	6.0	47.0	
Dec 5			0	0	0			2	0			134.4	0.0	*	*	
Dec 6												134.6	0.0	*	*	
Dec 7												136.7	0.0	6.0	46.0	
Dec 8												132.5	0.0	*	*	
Dec 9												116.0	0.0	5.5	45.0	
Dec 10												144.6	0.0	5.5	45.0	
Dec 11												145.7	0.0	5.5	43.0	
Dec 12												137.5	0.0	4.0	44.0	
Dec 13												134.0	0.0	5.5	43.0	
Dec 14												155.4	0.0	5.5	43.0	
Dec 15												136.8	0.0	5.5	42.0	
Dec 16												176.1	0.0	6.0	42.0	
Dec 17												144.4	0.0	6.0	42.0	
Dec 18												166.4	0.0	6.0	41.0	
Dec 19												121.1	0.0	5.5	40.0	
Dec 20												114.8	0.0	5.5	40.0	
Dec 21												130.7	0.0	5.5	41.0	
Dec 22												128.9	0.0	5.0	40.0	
Dec 23												113.8	0.0	5.5	40.0	
Dec 24												93.0	0.0	5.5	40.0	
Dec 25												92.9	0.0	6.0	40.0	
Dec 26												90.2	0.0	6.0	40.0	
Dec 27												110.2	0.0	6.0	40.0	
Dec 28												147.0	0.0	5.5	41.0	
Dec 29												173.7	0.0	5.0	40.0	
Dec 30												187.0	0.0	4.5	40.0	
Dec 31												151.4	0.0	1.5	40.0	
TOTAL			8	1	0			49	11							
AVG.			2	0	0			10	2			135.1	0.0	5.3	42.4	

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	PINK
TOTALS TO DATE										
SPRING	60,964	3,210								
SUMMER	69,650	3,486								
FALL	233,379	18,204								
TOTAL	363,993	24,900								23

Note: Video counts occurred from November 1 through December 5. 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 counts are totals for entire calendar year.

TABLE 38

**YEARLY TOTALS OF SALMONIDS COUNTED OVER THE DALLES DAM
1957 - 2005**

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
Totals	12,882,811	8,013,260	2,872,305	692,861	230	352	24,461,819
10-Year Average	383,546	245,576	50,344	26,335			705,821

*Jacks included

TABLE 39

MONTHLY COUNT OF CHINOOK SALMON
THE DALLES DAM 1957 - 2005

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	14,293			216,163	56,570	38,733	120,860	74,275
1977				72,726	16,672	22,084	22,059	12,266	69,927	9,216			224,950	90,373	44,378	90,199	55,067
1978				52,425	30,472	19,477	15,978	11,251	57,786	11,839			199,228	84,924	34,396	79,908	32,503
1979				13,993	12,569	14,310	17,687	20,458	61,757	9,516	357		150,647	27,297	32,298	91,052	42,886
1980				12,434	15,441	7,948	12,832	12,881	43,675	8,740			113,951	28,237	21,133	64,581	20,016
1981				24,227	16,335	8,491	10,779	15,802	53,840	5,702			135,176	41,160	19,676	74,340	33,919
1982				10,569	33,296	10,058	9,554	17,466	79,487	12,252			172,682	44,750	19,342	108,590	60,165
1983				13,270	22,893	8,766	8,430	12,501	73,942	16,388			156,190	36,856	17,051	102,283	41,335
1984				9,326	23,784	9,992	12,332	23,495	105,786	19,205			203,920	33,848	22,472	147,600	70,798
1985				36,035	39,173	15,785	10,332	37,806	203,470	27,058	1,323		370,982	76,514	25,385	269,083	145,007
1986			175	48,892	36,928	14,175	10,452	22,684	264,091	45,616			443,013	87,004	24,826	331,183	176,461
1987				48,812	27,586	17,923	12,145	50,680	236,216	27,828			421,190	77,453	30,804	312,933	65,115
1988				51,680	20,756	16,644	13,494	66,509	193,490	15,507			378,080	73,663	29,892	274,525	69,631
1989				24,474	27,477	15,539	13,899	58,674	130,931	10,438	736		282,168	53,014	30,555	198,599	28,671
1990			115	36,062	20,749	13,390	9,099	22,152	96,538	9,451			207,556	57,424	22,615	127,517	32,794
1991				14,513	17,313	10,949	7,638	8,384	84,861	9,365			153,023	32,359	18,467	102,197	36,820
1992				38,141	19,414	9,595	5,797	14,589	71,281	9,690			168,507	58,451	14,976	95,080	27,160
1993				42,391	25,824	14,165	6,481	19,297	71,395	5,400			184,953	69,356	20,063	95,534	12,298
1994				6,573	4,938	7,376	8,360	22,910	98,997	12,604			161,758	11,798	15,997	133,963	25,470
1995				3,008	4,244	6,176	7,111	23,094	82,723	15,437			141,793	7,553	13,558	120,682	32,813
1996				5,631	20,896	8,018	6,718	26,505	90,762	9,381			167,911	27,127	14,488	126,296	5,851
1997				25,639	42,467	14,718	8,011	23,666	100,652	8,648			223,801	69,740	21,134	132,704	16,249
1998				14,927	10,488	10,289	6,702	20,129	78,191	13,406			154,132	25,743	16,906	111,483	20,513
1999				5,396	17,579	10,972	13,864	30,830	107,411	13,439			199,491	23,743	24,937	150,811	28,412
2000				68,618	47,131	20,878	15,442	57,600	97,042	10,125			316,836	117,749	35,580	163,507	63,769
2001				228,568	79,627	50,030	35,889	38,452	172,871	23,897			629,334	313,865	80,249	233,081	72,644
2002				63,869	116,008	76,400	45,761	63,943	197,956	19,218			583,155	185,046	118,812	279,297	42,982
2003		11	7,227	84,312	54,173	70,347	43,926	42,146	280,091	33,070	3,085	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	958		389,905	64,219	73,136	252,550	24,991
Total				9,740	1,872,990	1,641,666	1,193,463	1,021,415	1,267,114	5,300,563	576,732	9,314	12,893,130	3,598,456	2,206,987	7,085,325	2,568,625
10-Year Average				59,046	48,906	37,002	23,500	37,097	158,993	18,661			384,577	111,543	58,510	214,289	38,615

*Jacks included

TABLE 40

MONTHLY COUNT OF SOCKEYE SALMON
THE DALLES DAM
1957 - 2005

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1957					125	33,476	54,294	2,081	221	4			90,201
1958					29	28,854	80,324	1,583	248	1			111,039
1959					413	7,176	76,347	2,245	77	1			86,259
1960					2	36,907	22,228	297	7				59,441
1961					66	5,863	10,629	116	15				16,689
1962					55	8,333	18,545	180	14				27,127
1963					199	17,914	38,633	185					56,931
1964					23	9,984	68,205	758	72				79,042
1965					184	11,023	31,622	1,438	12				44,279
1966					65	36,539	109,167	2,106	9				147,886
1967					114	15,713	103,862	892	8				120,589
1968					5	77,878	38,542	462	10				116,897
1969					22	15,165	21,933	102	3	1			37,226
1970					1	18,309	56,903	2,387	75	3			77,678
1971						8,887	66,841	369	6				76,103
1972						9,276	34,924	466	5				44,671
1973					8	19,510	32,674	105	6				52,303
1974					4	3,935	24,790	98					28,827
1975						7,679	35,291	225	2	1			43,198
1976					1	10,988	16,637	121					27,747
1977					5	60,049	26,146	52					86,252
1978					24	7,158	4,559	104					11,845
1979						14,750	17,734	307					32,791
1980						11,096	30,046	927	19				42,088
1981						17,692	17,686	68	1				35,447
1982						11,430	21,742	144	15				33,331
1983					1	34,684	49,302	197	19	1			84,204
1984						62,500	37,926	745	6				101,177
1985				1	17	75,603	41,107	521	4		1		117,254
1986					12	17,224	30,686	550	4	1			48,477
1987					1	48,798	38,443	348	8	1			87,599
1988					5	30,443	25,096	208	50				55,802
1989					1	22,196	17,321	152	2				39,672
1990						17,603	22,406	218	3				40,230
1991					1	14,106	48,824	443	27	4			63,405
1992					16	38,319	27,812	232	4	1			66,384
1993					2	36,517	25,584	146	3				62,252
1994						6,752	2,594	8	2				9,356
1995					1	4,195	2,890	61	15	4			7,166
1996						17,013	7,983	44	15				25,055
1997					4	11,707	20,292	395	29	3			32,430
1998						4,777	3,978	65	6				8,826
1999						5,210	8,445	57	3				13,715
2000					69	61,980	11,242	88	4				73,383
2001					12	85,939	16,527	82	2				102,562
2002					1	22,714	17,746	93					40,554
2003					8	21,233	12,862	70	3			4	34,180
2004					61	84,332	22,978	94	1				107,466
2005					4	38,474	26,688	98	7	2			65,273
Total				1	1,561	1,267,903	1,579,036	22,733	1,042	28		1	2,872,309
10-Year Average				23	35,338	14,874	109	8					50,344

TABLE 41

MONTHLY COUNT OF COHO SALMON
THE DALLES DAM: 1957-2005

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	JACKS
1957							220	605	5,615	342	11		6,793	
1958								96	2,132	161	6		2,395	
1959								46	2,428	234	1		2,709	
1960								475	2,288	227	10		3,000	
1961							4	5	1,898	232			2,139	
1962							5	258	3,194	239			3,696	
1963							2	361	2,931	422			3,716	
1964								506	4,723	749			5,978	
1965							7	200	13,064	4,197			17,468	
1966							225	3,850	25,476	2,728			32,279	
1967							192	494	27,860	3,469			32,015	20,456
1968							372	3,319	36,568	2,346	82		42,687	13,035
1969							412	970	13,179	2,493			17,054	11,218
1970							96	2,064	19,983	1,076			23,219	11,327
1971							1	1,589	26,066	1,405			29,061	11,174
1972							3	1,090	14,564	905			16,562	10,272
1973								793	9,443	916			11,152	5,256
1974								522	10,715	3,418			14,655	9,054
1975								465	10,356	3,155			13,976	8,534
1976								608	14,609	4,175			19,392	13,083
1977							1	91	8,131	1,798			10,021	6,096
1978								355	13,069	5,453			18,877	13,533
1979								211	7,109	1,367	39		8,726	4,836
1980								287	5,064	975			6,326	2,970
1981								295	6,061	585			6,941	4,405
1982								336	5,792	1,255			7,383	3,047
1983								65	2,343	1,051			3,459	2,256
1984								24	2,521	597			3,142	1,282
1985							4	208	3,537	828	48		4,625	1,555
1986							2	1	3,772	1,067			4,842	1,458
1987							12	91	2,409	798			3,310	1,953
1988								232	7,082	1,912			9,226	2,701
1989								283	9,027	3,173	128		12,611	4,781
1990								60	3,229	1,356			4,645	2,340
1991								30	7,714	1,857			9,601	1,053
1992								11	3,119	695			3,825	1,239
1993								18	3,256	1,086			4,360	3,416
1994							1	121	2,922	1,332			4,376	590
1995							6	204	2,013	1,046			3,269	483
1996							3	73	3,795	712			4,583	967
1997								35	3,649	1,045			4,729	662
1998								7	3,520	5,443			8,970	774
1999								37	11,456	3,548			15,041	1,226
2000								2,248	20,526	6,762			29,536	4,570
2001								1,351	36,099	27,107			64,557	2,179
2002								275	8,286	4,225			12,786	3,021
2003								1,084	29,129	15,161	713	14	46,101	2,853
2004			-1					565	29,591	10,408	1,072	10	41,645	1,919
2005							1	438	20,376	13,814	1,500	0	36,129	2,187
Total							1,569	27,352	511,689	149,345	3,610		693,588	193,761
10-Year Average							611	16,643	8,823				26,408	2,036

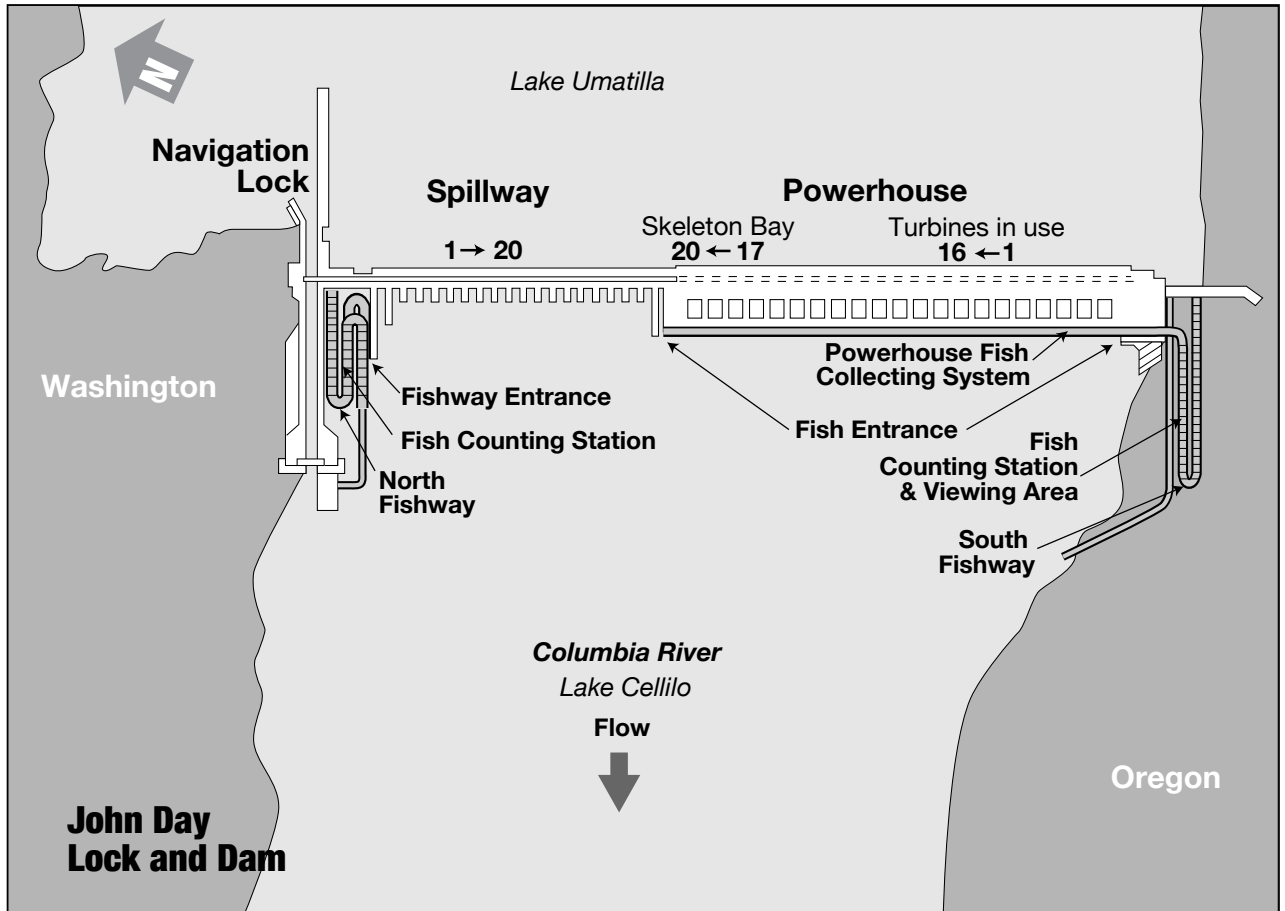
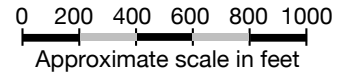
*Includes Jacks

TABLE 42

MONTHLY COUNT OF STEELHEAD
THE DALLES DAM 1957 - 2005

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
Total			9,390	45,473	33,045	151,387	1,612,513	1,805,253	3,586,040	760,900	17,310		8,022,663
10-Year Average				823	465	5,126	37,383	49,174	120,317	31,614			246,517

Plate 4 John Day Lock and Dam



JOHN DAY DAM

FISH COUNTING SCHEDULE

Feb 22 – Mar 31 Video counting daily 0400-2000 hours Pacific Standard Time.
Apr 1 – Oct 31 Visual counting daily 0400-2000 hours Pacific Standard Time.
Nov 1 – Dec 5 Video counting daily 0400-2000 hours Pacific Standard Time.

FISHWAY OPERATING SCHEDULE

The following information includes fishway operation for calendar year 2005. Total length of time for annual fishway outages can be determined by referring to previous years' annual reports. "Out of service" indicates fish ladder dewatered and auxiliary water system off for routine annual maintenance. Dive inspections were conducted 8/9/05 at John Day, per Fish Passage Plan, requiring a short period of fishway outage, with the auxiliary water system off.

South Adult Fishway

1/1-1/7: in service
1/7-1/10: orifice flow only
1/10-2/18: out of service
2/18-2/22: orifice flow
2/22-12/31: in service

North Adult Fishway

1/1-12/5: in service
12/5-12/31: out of service

Smolt Monitoring Facility

1/1-4/1: out of service
4/1-9/15: in service
9/15-12/31: out of service

Juvenile Bypass System

1/1-4/1: 1/3 service
4/1-12/15: full service
12/15-12/31: 1/3 service

Spillway

1/1-4/10: closed (except for a few tests):
4/10-5/18: spill 60% from 1900-0600
5/18-5/30: spill 30% from 0600-1900, 60% from 1900-0600
5/30-6/20: spill 60% from 1900-0600
6/20-6/21: spill 30% from 0600-1900, 60% from 1900-0600
6/21-8/31: spill 30%, 24 hours
8/31-9/3: closed
9/3-11/30: Bay 2 only, 1.5 KCFS daylight hours only (attraction water for north fishway)
11/30-12/31: closed

FISH RELATED DEWATERINGS

FISHWAY DEWATERING PROCEDURES

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

Fishway Dewaterings

South ladder (1/11) – Annual inspection and maintenance. Approximately 8 juvenile steelhead, 1 lamprey, and 1 carp removed and released to river.

South entrance (1/13) – Six juvenile steelhead, 3 adult steelhead, 3 lamprey, and 1 carp removed and released to river. Remainder of collection channel not dewatered due to safety concerns. Dive inspection used.

North ladder (12/6) - Annual inspection and maintenance. Approximately 30 adult steelhead and 12 shad pushed to tailwater. Fifteen steelhead removed and transported to forebay. Forty-three lamprey provided to Umatilla tribe for restocking efforts (permits provided). Thirty-seven lamprey flushed from diffuser 16 chamber into tailwater through piping system. Thirty-four lamprey removed from diffusers 15 and 16 by trap and dipnet the week following dewatering. Thirty-one lamprey died under grating one week after dewatering in area thought to have no lamprey. Many inspections did not reveal live lamprey. Investigation continues.

Juvenile Bypass System (12/27) – Annual inspection and maintenance. Two adult steelhead were removed and released to forebay.

Smolt Monitor Facility (9/15) – Dewatered for winter. Approximately 200 adult salmonids, approx 100 lamprey, approx 100 shad, 1 sturgeon, 2 catfish and 2 smallmouth bass were evacuated from the Primary Dewatering Structure and flumes.

Fishway Dives

South collection channel and pump stilling basin ROV (2/16) – All grating and 2/3 trashrack found in good condition. Could not access bottom 1/3 trashrack due to turbulence.

South penstock bulkhead remove, trashrack install (2/23) – Annual inspection.

South and north fishway ROV(8/10) – Annual mid season inspection. Grating found in good condition.

TURBINE DEWATERING PROCEDURES

Turbine dewatering for routine maintenance usually involves low numbers of fish, due to operational guidelines. If a turbine unit fails, operational guidelines cannot always be

followed, which usually results in higher numbers of fish entrapment. Removal of fish from these areas has a greater fish stress risk due to handling. Procedures are continually analyzed to determine the best method for preventing fish stress or loss. Fish are removed from scroll case and draft tubes by fish bags. If numbers of fish are higher than two bags, transport tanks are placed in the draft tube gallery for transport by crane. Fish are released to tailwater either with bag and rope or tank and crane.

Turbine Dewaterings

Main turbine unit 16 (6/7) – Routine maintenance. No fish in scroll case. Approx 150 catfish and 25 sturgeon removed from draft tube.

Main turbine unit 14 (12/13) – Routine maintenance. Scroll case 1 perch. Draft tube 4 sturgeon removed and released to river.

FISHWAY INSPECTION COMPARISON

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

FISHWAY INSPECTION RESULTS

<u>Criteria Item</u>	<u>2005</u>	<u>2004</u>	<u>2003</u>	<u>2002</u>
South Fishway				
Exit differential	0	0	0	0
<i>Count station differential</i>	0	0	0	0
<i>Weir crest depth</i>	0	2	0	0
SE1 differential		0	1	2
SE1 entrance depth	4	4	3	4
<i>Collection channel velocity</i>	23	26	20	-
NE1/NE2 differential	3	0	1	3
NE1 entrance depth	3	0	0	1
NE2 entrance depth	5	2	1	2
North Fishway				
Exit differential	0	0	0	0
<i>Count station differential</i>	0	1	0	0
<i>Weir crest depth</i>	0	6	4	0
EW1/EW2 differential	6	0	3	9
EW1 entrance depth	7	4	6	11
EW2 entrance depth	1	closed	closed	closed
<i>JBS Conduit differential</i>	1	1	4	1

<u>Criteria Item</u>	<u>2005</u>	<u>2004</u>	<u>2003</u>	<u>2002</u>
<i>Spill Pattern</i>	0	0	0	0
Turbine operation priority		0	6	-
<i>Turbine 1% operation</i>	0	0	1	-

Discussion

Overall, criteria operation continues to be well over 90%, similar to previous years. Velocity in the collection channel with a single meter still shows some problems. District hydraulics design section has provided guidance to optimal diffuser settings, but velocity continues to be the same. Meter calibration issues continue to be a problem. Investigation continues to determine if this is a fish passage problem. Float velocity tests will also be included to get a better understanding of total velocities.

COUNT ACTIVITY

Visual fish counting was conducted 4/1/05 to 10/31/06 by Washington Dept of Fish and Wildlife contract. Counts were sent electronically directly to data base.

WATER QUALITY

Temperature continues to be read at south forebay at John Day. Water clarity continues to be read by secchi dish at count stations. Fishway water temperatures are logged 24hrs/day during passage season and results provided with weekly fishway status reports.

TABLE 43

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

2005

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*
CHINOOK*			15	13,680	39,563	45,107	28,340	15,637	158,917	21,319	411	2	322,991
STEELHEAD		106	2,571	843	456	3,424	24,705	27,445	116,336	49,965	6,158	94	232,103
SOCKEYE					-3	35,616	33,988	162	6	1			69,770
COHO*								334	20,981	12,882	2,005	3	36,205
CHUM													
PINK									12				12
TOTAL			2,586	14,523	40,016	84,147	87,033	43,578	296,252	84,167	8,574	99	661,081
LAMPREY				-1	108	711	4,340	2,363	656	135			8,312

*Jacks Included

Counts are from February 22 to December 5. Visual counts occurred from April 1 to October 31. All other counts were from video.

Lamprey are not counted during video counts. Shad were not counted in 2005.

TABLE 44

DISCHARGE AND WATER QUALITY DATA

JOHN DAY PROJECT 2005

JANUARY

DATE	DISCH	SPILL	TURBIDITY	
	KCFS	KCFS	SECCHI	DEG F
Jan 1	128.3	0.0	*	*
Jan 2	115.1	0.0	6.0	45.0
Jan 3	154.3	0.0	6.0	43.0
Jan 4	155.1	0.0	7.0	43.0
Jan 5	155.1	0.0	6.0	43.0
Jan 6	176.9	0.0	6.0	42.0
Jan 7	161.4	0.0	6.0	42.0
Jan 8	163.1	0.0	6.0	41.0
Jan 9	103.2	0.0	6.0	41.0
Jan 10	143.4	0.0	6.0	41.0
Jan 11	140.6	0.0	7.0	40.0
Jan 12	116.0	0.0	6.0	40.0
Jan 13	171.4	0.0	*	*
Jan 14	192.5	0.0	7.0	40.0
Jan 15	152.8	0.0	6.0	39.0
Jan 16	128.0	0.0	6.0	38.0
Jan 17	143.3	0.0	5.0	38.0
Jan 18	116.9	0.0	*	*
Jan 19	140.2	0.0	6.0	38.0
Jan 20	125.1	0.0	6.0	38.0
Jan 21	130.2	0.0	6.0	38.0
Jan 22	128.9	0.0	6.0	38.0
Jan 23	123.1	0.0	6.0	38.0
Jan 24	124.5	0.0	6.0	38.0
Jan 25	138.4	0.0	6.0	38.0
Jan 26	158.0	0.0	6.0	38.0
Jan 27	155.0	0.0	6.0	38.0
Jan 28	145.6	0.0	6.0	38.0
Jan 29	142.1	0.0	6.0	38.0
Jan 30	114.0	0.0	6.0	38.0
Jan 31	124.0	0.0	6.0	39.0

AVG.	140.9	0.0	6.1	39.7
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* Data unavailable

TABLE 45

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

JOHN DAY PROJECT
FEBRUARY 2005

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
SPRING	SUMMER	FALL	SECCH											DEG F	
Feb 1												142.1	0.0	*	*
Feb 2												144.3	0.0	6.0	40.0
Feb 3												148.6	0.0	6.0	40.0
Feb 4												145.3	0.0	6.0	40.0
Feb 5												154.7	0.0	6.0	40.0
Feb 6												145.7	0.0	6.0	40.0
Feb 7												158.7	0.0	6.0	40.0
Feb 8												148.1	0.0	6.0	40.0
Feb 9												152.5	0.0	6.0	40.0
Feb 10												166.5	0.0	6.0	41.0
Feb 11												153.1	0.0	6.0	41.0
Feb 12												148.1	0.0	6.0	42.0
Feb 13												105.9	0.0	6.0	41.0
Feb 14												129.1	0.0	6.0	40.0
Feb 15												153.7	0.0	6.0	41.0
Feb 16												159.8	0.0	6.0	40.0
Feb 17												160.9	3.8	6.0	40.0
Feb 18												163.6	6.3	7.0	41.0
Feb 19												139.1	0.0	*	*
Feb 20												109.3	0.0	6.0	40.0
Feb 21												114.6	0.0	6.0	40.0
Feb 22								3	1			140.2	0.0	6.0	40.0
Feb 23								17	7			128.9	0.0	6.0	40.0
Feb 24								19	0			113.2	0.0	6.0	39.0
Feb 25								17	0			105.2	0.0	6.0	39.0
Feb 26								13	-1			101.5	0.0	6.0	40.0
Feb 27								36	1			122.3	0.0	6.0	40.0
Feb 28								1	-3			131.7	0.0	6.0	40.0
TOTAL								106	5						
AVG.								15	1			138.8	0.4	6.0	40.2

*Data not available

Note: From February 22 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 2005

DATE	FISH COUNTS					RIVER CONDITIONS									
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCH	DEG F
Mar 1	0							40	-2			108.0	0.0	6.0	40.0
Mar 2	0							36	0			133.6	0.0	6.0	40.0
Mar 3	0							57	6			116.9	0.0	6.0	40.0
Mar 4	0							103	0			144.6	0.0	6.0	39.0
Mar 5	0							116	1			137.0	0.0	6.0	40.0
Mar 6	0							110	2			100.1	0.0	6.0	40.0
Mar 7	0							76	6			127.6	0.0	6.0	41.0
Mar 8	0							72	6			118.5	0.0	6.0	42.0
Mar 9	0							105	10			109.6	0.0	6.0	42.0
Mar 10	0							77	14			143.0	0.0	6.0	43.0
Mar 11	0							143	4			123.8	0.0	6.0	41.0
Mar 12	0							104	12			117.7	0.0	*	*
Mar 13	0							150	12			118.4	0.0	6.0	44.0
Mar 14	0							130	14			118.0	0.0	6.0	44.0
Mar 15	0							86	7			110.4	0.0	6.0	44.0
Mar 16	1							96	6			130.5	0.0	6.0	44.0
Mar 17	0							98	4			114.9	0.0	6.0	44.0
Mar 18	0							96	4			156.1	0.0	6.0	44.0
Mar 19	0							110	14			131.8	0.0	6.0	45.0
Mar 20	7							104	14			107.6	0.0	6.0	45.0
Mar 21	8							93	7			135.3	0.0	6.0	45.0
Mar 22	-1							53	7			136.9	0.0	6.0	46.0
Mar 23	0							28	4			141.7	0.0	6.0	46.0
Mar 24	1							115	3			130.3	0.0	*	*
Mar 25	-1							37	5			126.1	0.0	5.0	46.0
Mar 26	0							55	3			112.3	0.0	6.0	45.0
Mar 27	0							55	5			91.1	0.0	6.0	44.0
Mar 28	0							64	0			114.4	0.0	5.0	45.0
Mar 29	0							42	13			143.5	0.0	5.0	45.0
Mar 30	0							83	23			135.4	0.0	5.0	45.0
Mar 31	0							37	15			162.0	0.0	5.0	45.0
TOTAL	15							2,571	219						
AVG.	0							83	7			125.7	0.0	5.8	43.2

*Data not available

Note: From February 22 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 2005

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Apr 1	2			0				46	46		0	135.6	0.0	5.0	46.0
Apr 2	1			0				63	31		0	142.6	0.0	5.0	46.0
Apr 3	7			0				31	20		0	115.6	0.0	5.0	47.0
Apr 4	-8			-5				15	2		0	121.6	0.0	5.0	46.0
Apr 5	7			0				18	11		0	149.9	0.0	5.0	46.0
Apr 6	0			0				44	12		0	167.2	0.0	4.0	*
Apr 7	3			0				17	11		0	127.4	0.0	4.0	47.0
Apr 8	3			0				32	29		0	117.0	0.0	4.0	46.0
Apr 9	9			0				46	32		0	105.1	0.0	4.0	47.0
Apr 10	5			0				54	20		0	125.5	21.1	4.0	47.0
Apr 11	13			0				40	20		0	125.6	39.6	4.0	49.0
Apr 12	9			0				23	15		0	141.7	37.2	5.0	48.0
Apr 13	11			0				35	20		0	139.1	39.0	5.0	48.0
Apr 14	6			0				10	-5		0	135.0	37.1	5.0	48.0
Apr 15	16			0				56	42		0	148.2	43.4	4.0	49.0
Apr 16	24			0				17	13		0	111.8	31.8	5.0	50.0
Apr 17	25			0				32	30		0	117.0	33.5	4.0	49.0
Apr 18	101			0				4	-4		0	118.9	26.7	5.0	49.0
Apr 19	230			0				47	40		0	121.3	26.7	5.0	49.0
Apr 20	148			0				18	15		1	128.6	30.8	5.0	49.0
Apr 21	363			0				48	28		0	124.1	36.8	6.0	49.0
Apr 22	378			1				14	7		0	166.4	56.2	5.0	50.0
Apr 23	608			-2				25	19		0	140.5	42.3	4.0	52.0
Apr 24	668			0				16	11		0	119.7	32.9	4.0	52.0
Apr 25	1,355			7				18	10		0	132.0	32.8	5.0	51.0
Apr 26	1,182			0				24	15		0	183.1	46.9	5.0	52.0
Apr 27	1,150			-1				24	15		0	175.3	43.8	5.0	53.0
Apr 28	2,107			2				9	1		-1	189.9	54.5	5.0	53.0
Apr 29	2,627			2				8	4		0	161.1	47.6	5.0	54.0
Apr 30	2,602			24				9	1		-1	164.6	47.5	5.0	54.0
TOTAL	13,652			28				843	511		-1				
AVG.	455			1				28	17		0	138.4	26.9	4.7	49.2

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 2005

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	WILD			PINK	LAMPREY	RIVER CONDITIONS			
	SPRING	SUMMER	FALL				SOCKEYE	STEELHEAD	STEELHEAD			DISCH KCFS	SPILL KCFS	TURBIDITY SECCH	DEG F
May 1	2,234			22			0	13	7		2	161.8	46.4	4.0	56.0
May 2	2,424			14			0	47	11		-2	178.6	50.7	5.0	56.0
May 3	2,297			44			0	13	2		1	175.0	50.3	4.0	55.0
May 4	1,948			25			0	3	2		1	178.6	51.7	5.0	56.0
May 5	833			28			0	4	2		1	184.9	41.6	4.0	55.0
May 6	2,590			33			0	11	6		2	190.3	39.0	4.0	56.0
May 7	2,769			82			0	7	0		2	196.4	40.1	4.0	56.0
May 8	2,321			102			0	10	5		6	203.5	40.5	5.0	56.0
May 9	1,436			108			0	9	-2		10	239.9	41.3	5.0	58.0
May 10	1,069			87			0	7	2		9	224.7	42.5	5.0	57.0
May 11	514			59			0	14	-4		17	253.6	55.7	5.0	58.0
May 12	538			54			0	11	-5		-1	258.9	68.3	5.0	58.0
May 13	530			37			0	4	-2		6	242.4	65.0	5.0	55.0
May 14	678			101			0	19	0		0	240.1	65.1	5.0	59.0
May 15	539			92			0	7	0		1	230.1	61.5	5.0	59.0
May 16	825			116			0	7	0		4	216.8	60.5	5.0	58.0
May 17	1,261			116			0	2	2		10	258.9	63.8	5.0	59.0
May 18	806			89			0	9	2		0	286.3	80.9	4.0	58.0
May 19	1,189			93			0	17	0		12	259.2	63.6	5.0	57.0
May 20	1,298			176			0	14	-4		12	258.1	75.0	4.0	57.0
May 21	998			167			0	22	6		4	271.4	47.2	5.0	57.0
May 22	429			79			0	13	1		3	262.3	97.3	5.0	58.0
May 23	354			69			0	15	-3		-2	265.9	92.1	4.0	58.0
May 24	533			66			0	10	-6		8	252.1	95.9	4.0	58.0
May 25	775			149			0	42	10		-1	222.2	88.3	4.0	57.0
May 26	786			129			0	8	-4		-2	255.8	104.4	4.0	58.0
May 27	762			54			0	32	2		8	254.4	99.3	4.0	58.0
May 28	510			66			-4	0	-5		0	276.9	107.5	4.0	59.0
May 29	1,145			61			1	32	1		0	220.9	95.9	5.0	59.0
May 30	1,126			72			0	22	0		-1	177.5	75.6	*	*
May 31	1,559			97			0	32	5		-2	181.5	40.3	5.0	60.0
TOTAL	37,076			2,487			-3	456	31		108				
AVG.	1196			80			0	15	1		3	228.4	66.0	4.6	57.4
RUN YEAR TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK				SOCKEYE	STEELHEAD	STEELHEAD		LAMPREY				
SPRING		50,728	2,515				-3	1,299	542		107				

*Data not available

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 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	WILD			PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL				STEELHEAD	STEELHEAD	STEELHEAD					SECCH	DEG F
Jun 1	1,263			66			0	24	0		10	222.4	65.3	5.0	59.0
Jun 2	1,063			44			7	59	11		-1	231.4	69.8	4.0	60.0
Jun 3	1,210			31			10	40	11		2	212.6	59.9	4.0	60.0
Jun 4	913			36			7	27	6		1	229.6	55.9	4.0	60.0
Jun 5	850			23			29	38	2		1	163.6	51.8	4.0	60.0
Jun 6		547		43			18	36	7		2	203.6	51.7	4.0	60.0
Jun 7		862		31			31	38	10		1	174.8	44.1	4.0	60.0
Jun 8		717		14			33	29	7		5	184.9	47.4	5.0	60.0
Jun 9		1,164		29			82	31	9		9	203.0	54.5	5.0	61.0
Jun 10		1,403		87			175	66	23		10	187.0	53.7	5.0	60.0
Jun 11		1,142		102			232	96	26		3	189.2	52.6	5.0	61.0
Jun 12		1,611		100			307	87	31		2	164.0	46.0	5.0	61.0
Jun 13		1,577		47			465	77	19		13	164.1	43.4	5.0	60.0
Jun 14		1,356		63			472	80	17		15	175.1	48.8	5.0	62.0
Jun 15		1,431		63			825	70	28		6	189.3	45.6	5.0	61.0
Jun 16		1,183		69			948	70	10		12	172.0	40.5	4.0	62.0
Jun 17		1,766		67			1,243	116	48		20	177.9	41.3	5.0	62.0
Jun 18		1,983		46			1,463	93	36		20	191.1	52.1	5.0	62.0
Jun 19		2,386		59			2,006	143	55		23	139.6	38.1	5.0	62.0
Jun 20		1,599		44			1,433	63	27		19	178.9	41.1	5.0	62.0
Jun 21		1,391		78			2,328	239	90		46	177.9	62.5	5.0	63.0
Jun 22		2,176		116			2,786	187	55		41	203.8	59.6	5.0	63.0
Jun 23		1,577		142			2,361	237	66		52	230.3	68.7	5.0	63.0
Jun 24		1,529		133			2,374	175	68		31	201.8	60.2	5.0	64.0
Jun 25		2,205		110			2,911	208	69		65	213.5	63.8	5.0	64.0
Jun 26		1,908		150			2,395	233	100		63	186.8	56.2	5.0	64.0
Jun 27		1,361		111			2,536	316	120		70	212.7	63.8	5.0	65.0
Jun 28		1,652		127			2,690	155	37		68	177.7	52.2	5.0	65.0
Jun 29		1,523		114			2,269	173	68		43	194.5	58.2	5.0	65.0
Jun 30		1,446		168			3,180	218	70		59	200.5	59.3	5.0	65.0
TOTAL	5,299	37,495		2,313			35,616	3,424	1,126		711				

AVG.	1060	1,500		77			1,187	114	38		24	191.8	53.6	4.8	61.9
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	56,027	2,715
SUMMER	37,495	2,113
TOTAL	93,522	4,828

WILD STEELHEAD	LAMPREY
SOCKEYE	STEELHEAD
35,613	4,723
1,668	818

TABLE 50

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

JOHN DAY PROJECT
JULY 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Jul 1		1,982		224			3,207	341	103		104	214.0	63.5	5.0	66.0
Jul 2		1,533		254			5,218	456	120		138	198.7	59.6	5.0	66.0
Jul 3		998		37			2,372	280	133		98	177.5	52.9	5.0	67.0
Jul 4		1,307		260			3,801	591	169		113	133.3	40.0	5.0	67.0
Jul 5		1,956		257			2,938	408	199		166	194.7	58.2	4.5	65.0
Jul 6		1,526		208			2,192	673	295		106	139.9	41.1	4.5	66.0
Jul 7		1,231		120			1,741	446	188		138	172.6	50.9	4.5	66.0
Jul 8		1,140		80			1,953	687	322		114	181.4	53.6	4.5	66.0
Jul 9		1,516		80			1,760	498	219		167	189.0	56.8	5.0	68.0
Jul 10		637		80			1,250	736	317		117	165.7	49.5	4.5	68.0
Jul 11		886		44			921	533	265		181	170.1	52.0	4.5	67.0
Jul 12		600		71			624	907	337		122	166.4	49.8	4.5	68.0
Jul 13		533		41			439	725	330		170	176.3	53.2	4.5	67.0
Jul 14		568		48			560	911	396		213	196.6	59.3	4.0	67.0
Jul 15		390		59			369	474	179		138	205.8	62.5	4.0	68.0
Jul 16		1,070		138			595	1,007	396		108	192.2	57.9	4.0	68.0
Jul 17		563		126			439	669	270		189	188.8	55.5	4.0	68.0
Jul 18		220		42			465	569	226		134	172.3	51.2	4.0	68.0
Jul 19		992		101			417	996	401		108	152.8	46.3	4.0	69.0
Jul 20		825		128			546	1,098	522		178	148.9	45.0	4.5	69.0
Jul 21		465		79			416	1,190	501		168	180.2	54.2	4.0	69.0
Jul 22		528		73			387	683	357		174	175.8	52.9	4.0	71.0
Jul 23		502		93			316	943	430		150	155.8	46.4	4.0	69.0
Jul 24		580		95			246	1,199	642		235	133.5	40.0	4.0	69.0
Jul 25		636		126			186	878	380		126	173.5	52.2	4.5	70.0
Jul 26		425		53			100	777	376		150	170.7	51.0	4.5	70.0
Jul 27		249		72			209	1,402	634		84	152.3	45.8	4.5	70.0
Jul 28		548		46			118	1,062	516		96	154.1	45.3	6.0	70.0
Jul 29		375		34			101	1,774	712		103	166.1	49.8	5.0	70.0
Jul 30		226		19			61	908	291		125	164.9	49.2	5.0	70.0
Jul 31		228		17			41	884	325		127	184.4	55.3	5.0	71.0
TOTAL		25,235		3,105			33,988	24,705	10,551		4,340				
AVG		814		100			1,096	797	340		140	172.5	51.6	4.5	68.2

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	56,027	2,715
SUMMER	62,730	5,218
TOTAL	118,757	7,933

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
69,601	29,428	12,219	5,158

TABLE 51

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

JOHN DAY PROJECT
AUGUST 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Aug 1		377		26	0	0	13	1,033	373		160	172.0	51.4	4.5	71.0
Aug 2		229		24	0	0	33	1,070	328		142	169.9	50.6	4.5	71.0
Aug 3		288		54	0	0	32	574	351		166	126.2	37.8	5.0	71.0
Aug 4		301		50	0	0	13	599	171		145	138.2	41.1	5.0	71.0
Aug 5		109		33	0	0	12	546	229		103	136.6	40.7	5.0	72.0
Aug 6			174	22	0	0	8	411	145		64	142.5	42.5	5.0	71.0
Aug 7			94	26	0	0	6	354	141		100	132.2	39.8	5.0	71.0
Aug 8			146	10	0	0	6	344	134		56	151.3	45.5	5.0	72.0
Aug 9			158	27	0	0	9	364	125		85	126.2	37.5	5.0	72.0
Aug 10			218	20	0	0	4	433	147		79	144.6	43.1	4.5	72.0
Aug 11			216	48	0	0	3	491	155		64	140.5	42.0	4.5	72.0
Aug 12			82	6	0	0	4	426	115		114	125.5	38.4	4.5	71.0
Aug 13			156	48	0	0	1	641	238		97	133.7	40.5	5.5	71.0
Aug 14			232	36	0	0	1	447	131		109	107.2	31.6	5.0	71.0
Aug 15			180	38	0	0	0	888	372		35	118.9	35.5	5.0	72.0
Aug 16			196	52	0	0	0	398	106		35	127.3	37.8	5.0	71.0
Aug 17			449	81	0	0	3	585	210		47	144.0	43.3	4.5	71.0
Aug 18			280	49	0	0	1	479	223		99	143.2	42.2	4.5	71.0
Aug 19			232	59	0	0	2	805	290		71	146.4	43.7	5.0	70.0
Aug 20			135	25	0	0	0	427	91		58	121.0	36.3	5.0	71.0
Aug 21			131	36	0	0	1	1,164	243		45	108.0	32.4	5.5	71.0
Aug 22			565	23	1	0	6	1,049	263		44	128.5	38.5	5.0	71.0
Aug 23			772	55	13	0	1	1,116	361		35	137.8	41.1	5.0	71.0
Aug 24			558	41	0	0	0	883	187		49	128.7	38.0	4.0	70.0
Aug 25			447	67	19	5	0	1,485	434		50	114.5	35.0	5.0	70.0
Aug 26			954	153	19	1	0	2,285	593		56	105.2	30.8	5.5	70.0
Aug 27			590	45	25	6	0	1,836	562		72	130.4	38.1	4.5	70.0
Aug 28			1,990	140	74	8	1	2,040	669		66	119.0	35.4	5.5	70.0
Aug 29			1,620	103	52	8	1	1,536	499		44	108.9	32.6	4.5	70.0
Aug 30			1,195	151	56	11	0	1,771	514		40	135.3	41.1	5.0	70.0
Aug 31			962	53	30	6	1	965	282		33	115.7	34.8	5.0	70.0

TOTAL	1,304	12,732	1,601	289	45	162	27,445	8,682	2,363	131.6	39.3	4.9	70.9
AVG.	261	490	52	9	1	5	885	280	76				

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	56,027	2,715
SUMMER	64,034	5,405
FALL	12,732	1,414
TOTAL	132,793	9,534

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
289	45	69,763	56,873	20,901	7,521

TABLE 52

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

JOHN DAY PROJECT
SEPTEMBER 2005

DATE	FISH COUNTS											RIVER CONDITIONS			
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCH	DEG F
Sep 1			1,001	73	33	5	0	844	290	0	22	112.2	0.5	5.0	71.0
Sep 2			2,746	149	99	19	0	1,683	522	1	49	97.8	0.0	5.5	71.0
Sep 3			2,546	178	185	19	0	1,401	351	-1	19	89.7	0.9	5.0	70.0
Sep 4			7,106	211	412	47	0	1,779	405	2	77	74.4	0.9	5.5	70.0
Sep 5			5,436	353	309	45	0	1,853	446	1	50	83.1	0.8	5.0	69.0
Sep 6			8,646	596	1,616	269	1	1,864	622	0	73	85.6	1.2	5.5	70.0
Sep 7			4,418	293	466	119	0	2,807	615	0	12	80.4	1.2	5.5	70.0
Sep 8			3,599	465	655	82	0	2,267	600	2	35	91.1	1.4	5.5	70.0
Sep 9			7,562	429	555	112	0	4,252	880	0	15	91.2	1.6	5.0	69.0
Sep 10			6,275	368	448	89	0	3,845	940	0	24	80.1	0.9	5.5	69.0
Sep 11			7,959	440	616	117	1	4,738	1,137	0	15	68.7	0.9	6.0	69.0
Sep 12			8,005	533	1,198	122	1	5,419	1,273	0	34	81.4	1.0	5.5	69.0
Sep 13			5,879	482	731	106	1	5,279	1,327	1	26	86.6	1.0	5.0	68.0
Sep 14			9,724	800	1,710	222	0	5,411	1,656	2	7	77.6	0.9	5.5	68.0
Sep 15			5,163	520	1,287	140	0	6,847	1,727	0	14	78.5	0.9	5.5	68.0
Sep 16			7,639	528	1,164	154	0	6,741	1,775	1	4	81.5	0.9	5.5	68.0
Sep 17			7,632	338	180	29	0	5,353	1,466	1	17	85.9	0.9	6.0	67.0
Sep 18			10,191	504	1,636	151	0	7,075	2,141	1	9	78.8	1.0	6.0	67.0
Sep 19			5,022	398	681	99	0	5,870	1,443	0	18	67.8	1.0	6.0	67.0
Sep 20			3,245	330	465	59	0	6,803	1,524	0	8	80.0	0.8	6.0	67.0
Sep 21			3,679	198	399	42	0	3,470	771	0	68	106.5	0.9	6.0	67.0
Sep 22			3,866	353	455	51	0	3,643	877	0	4	89.5	0.8	6.0	67.0
Sep 23			2,549	210	66	8	0	2,863	1,150	0	13	99.0	0.8	6.0	66.0
Sep 24			4,027	389	402	69	1	4,564	1,023	0	7	84.3	0.8	6.0	66.0
Sep 25			2,117	344	195	31	0	3,114	1,028	0	16	71.4	0.8	6.0	65.0
Sep 26			2,509	257	396	62	0	3,394	740	0	5	86.1	0.9	6.0	66.0
Sep 27			2,954	306	1,005	70	0	3,354	967	1	6	103.5	0.9	6.0	65.0
Sep 28			2,622	291	220	71	0	3,992	1,032	0	0	79.0	0.8	6.0	65.0
Sep 29			2,293	342	597	101	1	2,940	924	0	-1	97.4	0.7	6.0	66.0
Sep 30			1,646	183	226	64	0	2,871	681	0	10	103.0	0.8	5.5	66.0

TOTAL			148,056	10,861	18,407	2,574	6	116,336	30,333	12	656				
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AVG.			4,935	362	614	86	0	3,878	1,011		22	86.4	0.9	5.7	67.9
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RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	PINK
	SPRING	56,027	2,715	18,696	2,619	69,769	173,209	51,234	8,177
SUMMER	64,034	5,405							
FALL	160,788	12,275							
TOTAL	280,849	20,395							

TABLE 53

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

JOHN DAY PROJECT
OCTOBER 2005

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCH	DEG F
Oct 1			2,932	286	450	85	0	4,385	1,132		-8	90.8	0.8	5.0	66.0
Oct 2			2,103	309	381	55	0	5,129	1,323		12	63.5	0.8	5.5	65.0
Oct 3			1,427	150	2,414	107	0	7,344	2,191		8	91.7	0.9	5.5	65.0
Oct 4			1,447	191	4,179	127	0	6,054	1,721		19	111.2	0.8	6.0	65.0
Oct 5			1,133	87	1,642	65	0	3,399	924		0	118.1	0.9	6.0	65.0
Oct 6			1,134	121	445	26	0	2,561	714		17	101.8	0.7	6.0	64.0
Oct 7			1,119	176	241	54	1	2,297	613		2	123.3	0.8	6.0	64.0
Oct 8			610	108	207	23	0	1,832	449		10	99.1	0.8	6.0	63.0
Oct 9			495	111	196	23	0	1,503	380		7	95.4	0.8	6.0	63.0
Oct 10			741	93	127	8	0	1,533	386		15	106.3	0.8	6.0	62.0
Oct 11			564	96	113	16	0	1,178	253		4	116.9	0.8	6.0	63.0
Oct 12			739	84	103	7	0	1,376	294		1	108.3	0.8	6.0	63.0
Oct 13			670	80	126	22	0	1,273	245		10	101.0	0.8	6.0	63.0
Oct 14			399	83	170	15	0	1,267	298		13	110.9	0.8	5.5	63.0
Oct 15			397	36	88	12	0	1,163	268		2	110.6	0.8	6.0	62.0
Oct 16			433	73	192	6	0	1,102	253		-2	62.4	0.8	5.5	62.0
Oct 17			218	43	91	5	0	767	178		2	88.7	0.8	6.0	62.0
Oct 18			146	30	123	11	0	428	100		1	127.1	0.7	6.0	62.0
Oct 19			229	30	78	4	0	778	181		3	111.5	0.7	6.0	62.0
Oct 20			255	53	98	4	0	501	134		3	115.8	0.7	6.0	62.0
Oct 21			361	25	62	4	0	765	200		6	94.7	0.8	6.0	61.0
Oct 22			256	25	83	10	0	631	186		-6	94.5	0.7	6.0	61.0
Oct 23			162	13	69	1	0	553	146		5	77.7	0.8	6.0	61.0
Oct 24			150	60	54	3	0	296	83		4	112.4	0.7	6.0	62.0
Oct 25			73	29	49	2	0	410	92		2	112.7	0.7	6.0	62.0
Oct 26			66	2	48	4	0	279	54		0	107.3	0.7	5.5	61.0
Oct 27			85	8	37	1	0	379	94		0	120.4	0.8	6.0	61.0
Oct 28			119	27	48	0	0	154	27		-3	111.4	0.8	6.0	61.0
Oct 29			165	23	60	5	0	250	75		2	109.0	0.7	6.0	60.0
Oct 30			70	3	101	4	0	176	43		0	78.0	0.7	6.0	60.0
Oct 31			148	18	98	0	0	202	57		6	112.1	0.8	6.0	60.0
TOTAL			18,846	2,473	12,173	709	1	49,965	13,094		135				
AVG.			608	80	393	23	0	1,612	422		4	102.7	0.8	5.9	62.5
RUN YEAR TOTALS TO DATE			CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD		LAMPREY	PINK			
SPRING			56,027	2,715	30,869	3,328	69,770	223,174	64,328		8,312	12			
SUMMER			64,034	5,405											
FALL			179,634	14,748											
TOTAL			299,695	22,868											

Note: Visual counts ended October 31.

TABLE 54

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

JOHN DAY PROJECT
NOVEMBER 2005

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Nov 1			9	4	172	1		201	92			103.6	0.7	6.0	60.0
Nov 2			40	1	727	4		474	150			106.6	0.7	6.0	59.0
Nov 3			42	0	296	0		683	215			116.7	0.8	6.0	59.0
Nov 4			41	1	121	0		865	243			115.3	0.7	6.0	58.0
Nov 5			25	0	79	0		560	159			109.5	0.7	6.0	58.0
Nov 6			31	0	135	0		444	145			84.8	0.7	6.0	58.0
Nov 7			24	0	63	1		302	84			109.0	0.7	6.0	57.5
Nov 8			20	0	49	0		446	105			137.9	0.7	6.0	57.0
Nov 9			7	0	33	0		371	108			121.9	0.8	6.0	56.0
Nov 10			14	0	34	0		191	53			93.7	0.7	5.5	55.0
Nov 11			17	0	31	0		286	87			99.3	0.6	6.0	55.0
Nov 12			13	0	32	0		213	47			104.4	0.6	6.0	55.0
Nov 13			18	0	29	0		115	28			97.9	0.7	5.5	54.0
Nov 14			11	0	22	0		148	34			102.9	0.6	6.0	54.0
Nov 15			5	0	17	0		105	32			116.0	0.7	6.0	53.0
Nov 16			18	0	15	0		114	32			120.4	0.7	6.0	53.0
Nov 17			4	0	13	0		98	21			118.9	0.8	6.0	53.0
Nov 18			10	0	11	0		41	10			117.7	0.7	6.0	52.0
Nov 19			3	0	7	0		48	6			124.1	0.8	6.0	52.0
Nov 20			4	0	14	0		52	9			120.7	0.6	6.0	51.0
Nov 21			1	0	4	0		30	1			129.7	0.7	6.0	51.0
Nov 22			1	0	17	0		40	4			125.6	0.8	6.0	51.0
Nov 23			9	0	11	0		31	3			123.8	0.7	6.0	50.0
Nov 24			5	0	4	0		40	6			128.6	0.7	6.0	50.0
Nov 25			8	0	8	0		72	10			131.6	0.7	5.5	50.0
Nov 26			7	0	11	0		29	6			112.5	0.6	6.0	49.0
Nov 27			9	0	7	0		63	15			128.5	0.6	6.0	49.0
Nov 28			4	0	12	0		39	7			129.4	0.6	6.0	49.0
Nov 29			0	0	3	0		30	4			101.9	0.7	6.0	49.0
Nov 30			5	0	22	0		27	5			117.4	0.7	6.0	48.0
TOTAL			405	6	1,999	6		6,158	1,721						
AVG.			14	0	67	0		205	57			115.0	0.7	6.0	53.5

RUN YEAR	CHINOOK		COHO		WILD		LAMPREY	PINK		
	TOTALS TO DATE	ADULT	JACK	ADULT	JACK	STEELHEAD			STEELHEAD	
SPRING		56,027	2,715	30,869	3,328	69,770	223,174	64,328	8,312	12
SUMMER		64,034	5,405							
FALL		179,634	14,748							
TOTAL		299,695	22,868							

Note: From November 1 to December 5, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Official Fall Chinook run ended October 31st. November and December counts were not added to fall totals.

TABLE 55

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

JOHN DAY PROJECT
DECEMBER 2005

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	PINK	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCH	DEG F
	SPRING	SUMMER	FALL												
Dec 1			0		1			22	-1			124.0	0.0	6.0	48.0
Dec 2			1		1			29	7			133.3	0.0	6.0	48.0
Dec 3			1		1			19	5			104.7	0.0	6.0	47.0
Dec 4			0		0			16	4			105.2	0.0	6.0	47.0
Dec 5			0		0			8	-1			130.3	0.0	*	*
Dec 6												130.4	0.0	*	46.5
Dec 7												119.2	0.0	*	46.0
Dec 8												123.5	0.0	*	45.0
Dec 9												115.8	0.0	6.0	45.0
Dec 10												134.1	0.0	6.0	45.0
Dec 11												117.9	0.0	6.0	44.0
Dec 12												112.7	0.0	5.5	44.0
Dec 13												116.5	0.0	*	*
Dec 14												130.6	0.0	6.0	44.0
Dec 15												141.8	0.0	*	*
Dec 16												155.8	0.0	*	42.0
Dec 17												136.4	0.0	*	42.0
Dec 18												145.9	0.0	*	41.0
Dec 19												125.6	0.0	*	*
Dec 20												107.7	0.0	*	40.0
Dec 21												122.1	0.0	*	*
Dec 22												121.3	0.0	*	40.0
Dec 23												102.7	0.0	5.5	40.0
Dec 24												98.3	0.0	5.5	40.0
Dec 25												95.8	0.0	*	40.0
Dec 26												106.2	0.0	*	40.0
Dec 27												104.7	0.0	*	40.0
Dec 28												151.1	0.0	5.5	40.0
Dec 29												147.8	0.0	5.0	40.0
Dec 30												165.2	0.0	4.5	40.0
Dec 31												138.1	0.0	2.5	40.0

TOTAL			2		3			94	14						
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AVG.			0		1			19	3						
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124.7	0.0	5.5	42.9
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*Data not available

RUN YEAR	CHINOOK ADULT		CHINOOK JACK		COHO ADULT		COHO JACK		SOCKEYE		STEELHEAD		WILD STEELHEAD		LAMPREY	PINK
	TOTALS TO DATE															
SPRING	56,027	2,715			30,869	3,328	69,770	223,174	64,328						8,312	12
SUMMER	64,034	5,405														
FALL	179,634	14,748														
TOTAL	299,695	22,868														

Note: From November 1 to December 5, counts were from video tape. The counts are 16-hour counts and occurred between the hours of 0400-2000 PST. Official Fall Chinook run ended October 31st. November and December counts were not added to fall totals. Pink counts are totals for entire year.

TABLE 56

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
JOHN DAY DAM
1968 - 2005**

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
TOTALS	8,435,078	5,897,258	2,120,608	466,667	16,919,624
10-Year Average	307,524	248,265	54,301	22,496	632,588

*Jacks included

**Includes 1 pink

***Includes 12 pinks

TABLE 57

MONTHLY COUNT OF CHINOOK SALMON
JOHN DAY DAM 1968 - 2005

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
TOTAL				4,120	1,016,759	1,236,373	733,597	638,712	645,094	3,617,289	541,139	7,100	8,440,302	2,338,194	1,339,876	4,754,961	1,886,914
10-Year Average				43,755	44,992	34,284	23,394	22,439	120,853	17,603			308,046	92,714	55,179	159,426	33,936

*Jacks included

TABLE 58

**MONTHLY COUNT OF SOCKEYE SALMON
JOHN DAY DAM
1968 - 2005**

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
TOTAL						77	946,419	1,157,841	15,652	549	69	1	2,120,608
10-Year Average						35,542	18,576	163	12				54,301

TABLE 59

**MONTHLY COUNT OF COHO SALMON
JOHN DAY DAM 1968 - 2005**

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
TOTAL					2	0	97	10,155	323,913	129,184	3,495		466,855
10-Year Average								228	13,288	8,698			22,515

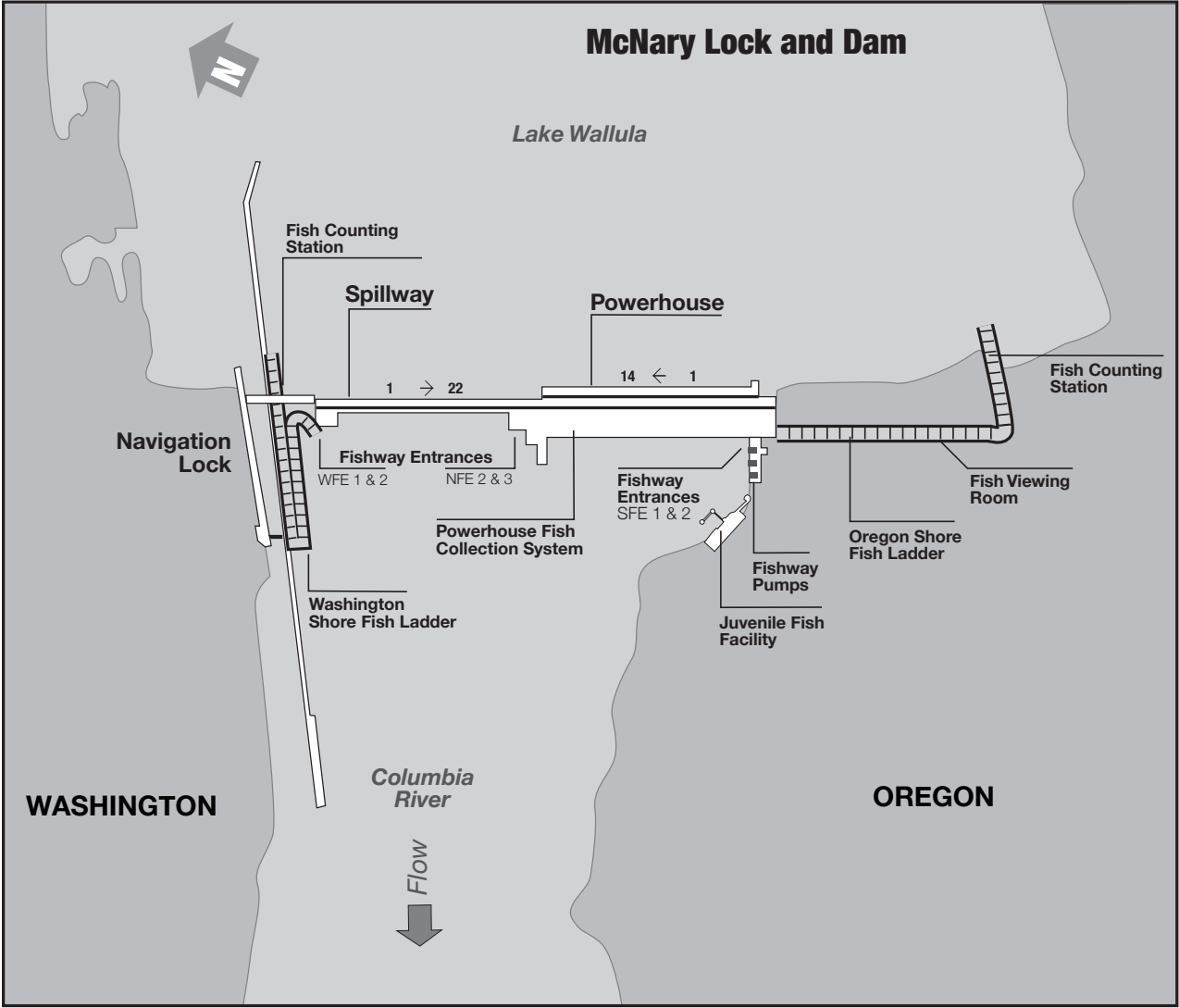
*Jacks included

TABLE 60

**MONTHLY COUNT OF STEELHEAD
JOHN DAY DAM 1968 - 2005**

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
TOTAL			18,879	102,184	37,816	85,368	616,794	890,438	2,905,531	1,226,779	30,487		5,916,124
10-YR Average			2,633	658	4,459	24,323	33,995	123,628	57,054				250,151

Plate 5 McNary Lock and Dam



McNARY DAM

FISH COUNTING SCHEDULE

1 Jan – 28 Feb	No counting.
1 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 – 2 Jan	Ladder in service.
3 Jan – 13 Jan	Ladder dewatered for annual maintenance.
14 Jan – 31 Dec	Ladder in service.

Oregon Ladder

1 Jan – 17 Jan	Ladder in service.
18 Jan – 17 Feb	Ladder dewatered for annual maintenance.
18 Feb – 31 Dec	Ladder in service.

FISHWAY ACTIVITIES

Water temperatures were recorded hourly in six locations within the adult fishways from June to September. The purpose of this effort is to determine if thermal barriers exist and take corrective action if needed.

One of three auxiliary water supply (AWS) pumps for the Oregon shore fishway (pump 3) was taken out of service on July 31, 2003 and remained out of service through 2005. There is significant damage to the bearings, pump shaft, and stay vanes. The complexity of repairs and funding problems has delayed the pump's return-to-service date until the summer of 2006.

The University of Idaho installed PIT tag antennas for adult lamprey during the winter outage. Locations included ladder entrances, junction pools, and ladder exits, well away from existing detectors for salmonids to avoid interference. Also, the PIT tags used will be half-duplex in contrast to the full-duplex tags used in salmonids to further avoid interference. Lamprey were trapped and tagged at McNary for tracking in 2005.

The juvenile fish facility was operated for juvenile fish transport/bypass and adult fallbacks from 18 March to 22 December.

TABLE 61

MONTHLY TOTALS OF SALMONIDS, SHAD AND LAMPREY COUNTED OVER McNARY DAM
2005

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*
CHINOOK*			4	6,750	38,439	45,654	28,928	11,655	111,701	25,976	825	71	270,003
STEELHEAD			2,271	847	377	2,669	17,371	19,933	109,198	63,710	7,248	668	224,292
SOCKEYE						27,341	36,009	182	8				63,540
COHO*								59	11,327	8,390	819	5	20,600
CHUM													
PINK													
TOTAL				7,597	38,816	75,664	82,308	31,829	232,234	98,076	8,892	744	578,435
SHAD					37,889	1,687,534	220,245	5,333					1,951,001
LAMPREY					4	233	1,578	1,586	722	35			4,158

*Jacks Included

Shad are not counted after September 1st.

TABLE 62

DISCHARGE AND WATER QUALITY DATA

MCNARY PROJECT 2005

JANUARY					FEBRUARY				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY		DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F				SECCHI	DEG F
Jan 1	125.1	0.0	*	43.0	Feb 1	142.3	0.0	6.0	40.0
Jan 2	111.7	0.0	*	42.0	Feb 2	135.2	0.0	6.0	40.0
Jan 3	153.4	0.0	*	43.0	Feb 3	141.8	0.0	*	40.0
Jan 4	157.9	0.0	6.0	42.0	Feb 4	143.0	0.0	*	40.0
Jan 5	155.2	0.0	*	42.0	Feb 5	155.1	0.0	*	40.0
Jan 6	165.6	0.0	*	42.0	Feb 6	137.2	0.0	6.0	40.0
Jan 7	151.0	0.0	*	40.0	Feb 7	148.8	0.0	6.0	40.0
Jan 8	158.5	0.0	*	40.0	Feb 8	139.1	0.0	*	40.0
Jan 9	110.8	0.0	*	39.0	Feb 9	161.8	0.0	*	40.0
Jan 10	144.1	0.0	6.0	39.0	Feb 10	155.8	0.0	6+	40.0
Jan 11	139.3	0.0	6.0	39.0	Feb 11	147.6	0.0	6.0	40.0
Jan 12	120.9	0.0	6.0	39.0	Feb 12	143.7	0.0	6+	40.0
Jan 13	155.9	0.0	*	39.0	Feb 13	112.1	0.0	6+	40.0
Jan 14	185.5	0.0	*	38.0	Feb 14	119.1	0.0	6+	40.0
Jan 15	151.5	0.0	*	37.0	Feb 15	153.4	0.0	*	40.0
Jan 16	125.8	0.0	*	37.0	Feb 16	152.7	0.0	*	40.0
Jan 17	138.6	0.0	6.0	36.0	Feb 17	160.3	0.0	6.0	40.0
Jan 18	120.4	0.0	6.0	36.0	Feb 18	155.4	0.0	6.0	39.0
Jan 19	137.7	0.0	6.0	36.0	Feb 19	141.9	0.0	6.0	38.0
Jan 20	123.3	0.0	*	36.0	Feb 20	102.5	0.0	6.0	38.0
Jan 21	126.1	0.0	*	36.0	Feb 21	102.0	0.0	*	38.0
Jan 22	124.8	0.0	*	37.0	Feb 22	113.6	0.0	*	39.0
Jan 23	112.2	0.0	*	37.0	Feb 23	139.5	0.0	*	39.0
Jan 24	119.0	0.0	*	37.0	Feb 24	107.2	0.0	6.0	39.0
Jan 25	138.2	0.0	6.0	38.0	Feb 25	111.1	0.0	6.0	39.0
Jan 26	156.1	0.0	6.0	39.0	Feb 26	105.2	0.0	6.0	40.0
Jan 27	145.8	0.0	6.0	39.0	Feb 27	116.5	0.0	6.0	40.0
Jan 28	142.6	0.0	6.0	39.0	Feb 28	118.7	0.0	*	*
Jan 29	136.2	0.0	6.0	40.0					
Jan 30	114.0	0.0	6.0	39.0					
Jan 31	119.7	0.0	6.0	39.0					
AVG.	137.6	0.0	6.0	38.9	AVG.	134.4	0.0	6.0	39.6

*Data unavailable.

TABLE 63

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

MCNARY PROJECT
MARCH 2005

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCH	DEG F
Mar 1	0							12	3			108.9	0.0	6.0	40.0
Mar 2	0							31	10			130.8	0.0	*	40.0
Mar 3	0							31	9			136.3	0.0	6.0	40.0
Mar 4	0							31	5			142.6	0.0	6.0	40.0
Mar 5	0							78	14			129.9	0.0	6.0	40.0
Mar 6	0							80	19			109.3	0.0	*	42.0
Mar 7	0							95	22			107.8	0.0	*	42.0
Mar 8	0							101	24			111.7	0.0	*	42.0
Mar 9	0							99	29			120.6	0.0	*	42.0
Mar 10	0							49	15			138.3	0.0	6.0	42.0
Mar 11	0							86	24			122.6	0.0	6.0	43.0
Mar 12	0							74	0			116.3	0.0	6.0	43.0
Mar 13	0							141	39			115.1	0.0	6.0	43.0
Mar 14	1							111	20			105.1	0.0	*	43.0
Mar 15	0							136	36			110.4	0.0	*	44.0
Mar 16	0							121	29			129.7	0.0	*	44.0
Mar 17	0							179	49			137.5	0.0	6.0	44.0
Mar 18	0							108	23			139.1	0.0	6.0	44.0
Mar 19	0							96	17			133.6	0.0	4.8	44.0
Mar 20	0							57	14			105.8	0.0	4.7	43.0
Mar 21	0							34	14			133.0	0.0	*	*
Mar 22	0							50	6			132.1	0.0	*	45.0
Mar 23	1							103	29			141.1	0.0	*	45.0
Mar 24	1							74	22			126.9	0.3	4.5	44.0
Mar 25	1							39	12			121.3	0.0	4.6	44.0
Mar 26	0							36	8			115.9	0.0	4.2	44.0
Mar 27	0							55	15			95.0	0.0	*	44.0
Mar 28	0							35	10			116.5	0.0	4.5	44.0
Mar 29	0							47	17			132.8	0.0	4.7	44.0
Mar 30	0							47	2			131.8	0.0	6.0	44.0
Mar 31	0							35	4			167.5	0.0	5.8	44.0
TOTAL	4							2,271	540						
AVG.	0							73	17			124.7	0.0	5.5	42.9

*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 2005

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCH	DEG F
Apr 1	0			0				18	10			123.7	9.3	5.9	45.0
Apr 2	0			0				54	27			134.9	20.9	5.9	45.0
Apr 3	0			0				35	18			126.9	13.4	4.7	44.0
Apr 4	0			0				43	15			125.2	11.4	5.7	45.0
Apr 5	0			0				78	32			153.9	33.6	4.5	45.0
Apr 6	2			0				52	17			161.8	19.4	4.5	45.0
Apr 7	1			0				41	16			134.9	0.0	4.0	45.0
Apr 8	4			0				58	17			117.6	0.0	4.6	46.0
Apr 9	3			0				25	13			111.7	0.0	4.7	47.0
Apr 10	2			0				39	14			111.5	17.8	4.8	47.0
Apr 11	1			0				15	0			126.6	35.8	4.5	47.0
Apr 12	7			0				31	11			134.1	34.5	4.7	47.0
Apr 13	4			0				27	16			127.1	36.0	4.4	48.0
Apr 14	9			0				24	13			140.5	42.3	4.5	49.0
Apr 15	11			0				38	14			143.9	44.6	4.5	49.0
Apr 16	9			0				27	11			122.4	31.1	4.6	49.0
Apr 17	5			0				29	15			116.7	27.3	4.6	49.0
Apr 18	16			0				43	24			122.4	24.7	4.8	49.0
Apr 19	28			0				18	13			119.9	25.5	4.8	48.0
Apr 20	48			0				16	12			121.2	25.6	5.2	49.0
Apr 21	90			0				14	11			142.5	45.4	5.1	49.0
Apr 22	124			0				5	0			160.8	64.9	5.1	50.0
Apr 23	189			1				12	10			145.0	45.2	5.1	51.0
Apr 24	258			0				7	6			121.8	30.8	5.1	51.0
Apr 25	245			0				19	8			138.0	75.0	5.1	51.0
Apr 26	536			4				11	4			183.8	84.0	5.0	51.0
Apr 27	850			12				17	4			181.1	81.7	5.2	51.0
Apr 28	1,409			20				18	8			195.8	85.1	5.0	52.0
Apr 29	1,290			6				18	12			164.2	45.8	4.8	53.0
Apr 30	1,560			6				15	6			166.8	46.8	4.8	53.0
TOTAL	6,701			49				847	377						
AVG.	223			2				28	13			139.2	35.3	4.9	48.3

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 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCH	DEG F
May 1	2,138			13				2	0	0	0	171.5	62.0	4.7	53.0
May 2	2,480			14				10	4	0	0	162.8	57.4	5.4	53.0
May 3	1,193			12				11	2	1	0	179.8	87.5	5.2	53.0
May 4	2,443			40				12	5	0	0	195.3	85.0	5.1	54.0
May 5	2,226			45				9	3	0	0	192.4	82.5	5.3	54.0
May 6	1,310			32				15	4	1	0	201.6	85.0	5.3	54.0
May 7	2,125			38				21	0	0	0	199.9	62.4	5.3	54.0
May 8	1,875			48				12	8	1	0	201.6	81.3	5.0	54.0
May 9	2,029			67				11	2	0	0	228.8	93.9	*	54.0
May 10	1,669			87				7	1	4	0	242.5	85.1	4.6	54.0
May 11	1,472			98				6	1	5	0	260.0	106.4	5.4	54.0
May 12	1,278			100				7	2	9	0	254.8	128.7	4.9	54.0
May 13	994			82				8	2	13	0	247.5	105.2	5.2	54.0
May 14	642			59				6	1	20	0	238.6	85.4	5.2	54.0
May 15	528			49				11	3	96	0	242.5	78.7	5.5	55.0
May 16	683			85				11	3	83	0	221.3	88.7	5.5	55.0
May 17	513			98				8	2	78	0	246.4	109.5	5.5	55.0
May 18	589			121				9	0	51	0	277.5	118.2	5.2	55.0
May 19	749			125				6	0	38	0	257.0	107.5	3.4	55.0
May 20	700			152				18	7	106	0	254.6	85.9	3.7	56.0
May 21	1,152			185				9	-2	65	0	290.5	136.0	*	56.0
May 22	1,111			178				9	2	80	0	263.8	173.9	4.0	55.0
May 23	740			186				7	0	542	0	251.3	105.0	4.0	55.0
May 24	542			85				15	1	665	0	255.5	85.0	5.0	55.0
May 25	612			70				16	1	1,526	0	237.7	72.2	4.2	55.0
May 26	366			70				13	1	1,632	1	247.9	103.1	4.3	56.0
May 27	474			77				19	0	1,191	0	258.9	110.5	4.6	56.0
May 28	614			129				22	4	1,804	0	283.8	108.9	4.4	56.0
May 29	692			84				19	0	5,350	0	219.7	81.3	4.4	57.0
May 30	783			90				25	4	8,022	1	191.7	85.5	*	57.0
May 31	1,105			93				23	4	16,506	2	193.0	65.3	*	59.0
TOTAL	35,827			2,612				377	65	37,889	4				

AVG.	1,156			84				12	2	1,222	0	231.3	94.3	4.8	54.9
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*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
TOTALS TO DATE						
SPRING	42,528	2,661	1,224	442	37,889	4

TABLE 66

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

MCNARY PROJECT
JUNE 2005

DATE	FISH COUNTS					RIVER CONDITIONS									
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCH	DEG F
	SPRING	SUMMER	FALL												
Jun 1	1,168			84			0	28	2	13,489	1	221.7	91.4	*	59.0
Jun 2	1,227			86			1	18	3	26,239	2	230.6	95.8	4.8	59.0
Jun 3	1,223			68			0	29	4	19,373	0	218.8	102.6	*	59.0
Jun 4	953			65			4	22	2	13,636	0	225.4	98.1	4.7	59.0
Jun 5	1,137			63			1	48	1	11,339	1	188.7	85.3	4.7	59.0
Jun 6	1,733			68			10	48	12	31,655	0	195.0	63.6	4.7	59.0
Jun 7	952			49			10	47	6	22,909	0	183.0	70.7	*	60.0
Jun 8	934			57			30	36	2	38,431	0	186.0	79.7	4.4	60.0
Jun 9		709		54			32	40	4	56,694	1	205.3	91.4	4.4	60.0
Jun 10		1,043		36			35	35	15	62,386	6	204.2	85.7	4.6	62.0
Jun 11		1,217		43			86	54	17	55,098	1	195.8	78.6	*	62.0
Jun 12		1,320		54			156	42	13	36,502	4	173.9	61.1	4.9	61.0
Jun 13		1,142		50			252	69	20	77,754	4	168.9	54.6	4.8	61.0
Jun 14		1,380		63			387	101	26	74,929	9	175.3	67.1	4.6	62.0
Jun 15		1,559		62			407	78	24	65,268	2	179.7	63.2	4.3	62.0
Jun 16		1,221		66			339	77	24	69,352	8	185.0	68.0	*	61.0
Jun 17		1,469		51			590	83	28	58,855	1	191.9	76.2	*	60.0
Jun 18		1,687		53			948	70	28	74,745	0	195.4	79.2	5.2	61.0
Jun 19		1,342		52			1,222	84	25	77,814	4	137.4	36.0	*	61.0
Jun 20		1,328		57			1,063	88	34	77,528	10	184.1	71.6	5.8	62.0
Jun 21		2,627		71			1,713	97	34	93,537	7	202.5	86.3	6.0	63.0
Jun 22		2,009		41			1,688	141	44	103,313	7	203.4	56.9	6.0	64.0
Jun 23		1,517		43			2,174	129	44	77,062	11	218.1	51.7	6.0	64.0
Jun 24		1,915		72			2,289	132	60	79,834	2	220.5	46.4	5.3	63.0
Jun 25		1,668		81			2,180	131	40	76,865	8	213.9	37.1	5.3	63.0
Jun 26		1,898		70			1,994	180	74	73,222	17	200.5	24.6	5.9	64.0
Jun 27		2,440		83			2,608	172	65	51,518	33	196.1	19.8	5.3	64.0
Jun 28		1,947		96			2,291	239	96	69,067	37	188.9	20.5	4.9	64.0
Jun 29		1,661		75			2,377	172	42	56,859	29	184.7	20.7	5.2	64.0
Jun 30		1,353		62			2,454	179	60	42,261	28	215.5	41.8	5.0	64.0
TOTAL	9,327	34,452		1,875			27,341	2,669	849	1,687,534	233				

AVG.	1166	1566		63			911	89	28	56,251	8	196.3	64.2	5.1	61.5
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*Data unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	51,855	3,201
SUMMER	34,452	1,335
TOTAL	86,307	4,536

	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
	27,341	3,893	1,291	1,725,423
			237	

TABLE 67

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

MCNARY PROJECT
JULY 2005

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Jul 1		1,690		64			2,994	185	75	18,725	40	230.1	175.3	5.0	65.0
Jul 2		1,539		42			3,082	264	95	16,806	49	203.2	148.5	5.9	65.0
Jul 3		2,253		38			3,203	231	88	18,419	35	184.9	130.1	5.7	65.0
Jul 4		1,543		64			3,382	256	101	20,999	26	153.4	98.7	*	65.0
Jul 5		1,466		68			3,591	224	68	18,610	33	204.2	148.2	5.8	66.0
Jul 6		1,455		81			2,615	315	138	18,330	36	147.2	91.3	5.8	66.0
Jul 7		1,286		74			2,656	405	148	16,290	51	191.4	135.2	5.7	67.0
Jul 8		1,389		68			1,893	372	157	17,551	46	207.1	151.9	5.7	67.0
Jul 9		1,165		57			2,025	472	194	12,198	55	197.7	143.0	5.7	67.0
Jul 10		1,379		77			1,783	469	187	9,026	59	172.8	117.9	*	67.0
Jul 11		1,370		80			1,443	630	246	8,951	69	186.6	131.6	4.8	68.0
Jul 12		909		55			934	558	256	5,633	72	198.8	144.0	4.8	68.0
Jul 13		726		52			845	534	220	5,443	49	188.5	133.0	6.0	68.0
Jul 14		518		33			479	506	186	4,406	82	201.6	147.1	6.0	68.0
Jul 15		573		59			467	566	221	3,229	41	214.4	159.3	6.0	68.0
Jul 16		558		33			455	442	195	3,144	42	203.0	147.9	6.0	68.0
Jul 17		431		32			467	643	258	2,586	44	198.6	143.0	6.0	68.0
Jul 18		976		55			500	568	226	3,049	35	178.4	123.0	6.0	67.0
Jul 19		592		31			410	480	226	3,278	37	170.9	115.6	6.0	69.0
Jul 20		383		33			377	675	298	1,532	42	166.8	112.3	5.9	69.0
Jul 21		691		85			422	790	304	1,615	74	193.9	139.2	5.9	69.0
Jul 22		906		58			484	810	348	2,194	32	187.0	131.9	*	68.0
Jul 23		414		27			293	651	303	1,883	27	159.4	104.3	*	68.0
Jul 24		420		53			271	684	295	1,266	27	153.1	98.2	6.0	68.0
Jul 25		474		41			234	714	289	1,433	34	177.9	122.4	5.4	69.0
Jul 26		467		34			210	744	291	856	49	174.2	118.7	5.6	69.0
Jul 27		366		34			153	827	374	1,007	70	173.9	119.3	5.6	*
Jul 28		477		45			115	785	290	372	93	163.5	109.3	6.0	69.0
Jul 29		165		17			78	692	284	418	111	188.2	133.7	6.0	71.0
Jul 30		430		30			85	879	356	562	60	176.9	121.8	6.0	70.0
Jul 31		365		32			63	1,000	363	434	58	197.7	144.6	6.0	70.0
TOTAL		27,376		1,552			36,009	17,371	7,080	220,245	1,578				

AVG.	883	50	1,162	560	228	7,105	51	185.3	130.3	5.8	67.7
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*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	51,855	3,201
SUMMER	61,828	2,887
TOTAL	113,683	6,088

	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
TOTALS TO DATE				
SPRING	63,350	21,264	8,371	1,945,668
SUMMER				1,815

TABLE 68

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

MCNARY PROJECT
AUGUST 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Aug 1		240		37	0	0	47	989	364	456	64	184.2	130.7	*	72.0
Aug 2		294		23	0	0	30	761	315	408	66	167.4	112.1	*	72.0
Aug 3		400		34	0	0	12	968	404	243	57	139.0	83.7	*	71.0
Aug 4		182		18	0	0	13	800	304	707	84	145.0	90.2	5.8	71.0
Aug 5		157		18	0	0	11	684	252	363	94	155.0	100.5	6.0	70.0
Aug 6		268		22	0	0	7	435	142	354	76	175.2	121.1	6.0	70.0
Aug 7		203		15	0	0	8	486	186	296	72	149.2	94.8	6.0	71.0
Aug 8		207		25	0	0	11	384	156	135	64	160.2	104.2	*	70.0
Aug 9			143	15	0	0	3	419	132	561	113	135.1	79.8	5.9	72.0
Aug 10			172	16	0	0	9	407	149	274	112	160.4	105.7	*	72.0
Aug 11			193	18	0	0	1	440	140	423	72	152.2	96.9	5.9	72.0
Aug 12			265	14	0	0	5	422	132	139	50	150.0	94.3	5.2	71.0
Aug 13			191	22	0	0	3	245	92	101	17	137.5	81.7	4.4	72.0
Aug 14			95	11	0	0	5	390	150	85	35	122.2	67.3	4.8	72.0
Aug 15			211	10	0	0	1	318	112	169	35	127.9	73.5	*	72.0
Aug 16			178	33	0	0	2	332	88	63	27	145.9	91.7	6.0	72.0
Aug 17			191	21	0	0	0	404	134	81	2	157.0	102.4	6.0	71.0
Aug 18			206	32	0	0	2	484	150	126	8	158.2	103.5	6.0	71.0
Aug 19			288	37	0	0	0	450	138	91	16	151.3	95.7	*	71.0
Aug 20			207	28	0	0	1	396	111	87	31	134.5	79.1	*	70.0
Aug 21			226	28	0	0	0	346	95	41	42	125.1	69.7	*	70.0
Aug 22			161	23	0	0	5	271	86	13	63	143.2	88.3	5.4	70.0
Aug 23			144	12	0	0	0	473	152	26	55	153.0	98.1	5.6	70.0
Aug 24			229	35	0	0	1	710	179	16	61	144.3	89.3	5.8	70.0
Aug 25			435	32	1	0	1	870	240	10	54	128.2	73.5	*	70.0
Aug 26			423	39	1	0	1	517	157	20	46	121.6	67.1	5.0	71.0
Aug 27			372	27	7	0	0	553	162	15	41	145.3	90.2	5.0	71.0
Aug 28			914	72	10	0	0	1,412	431	6	18	133.4	78.3	5.0	71.0
Aug 29			924	57	9	1	1	1,731	498	8	51	125.5	70.7	5.0	71.0
Aug 30			1,456	64	10	0	0	1,454	487	8	32	150.2	95.7	5.4	70.0
Aug 31			1,167	75	19	1	2	1,382	413	8	28	113.7	59.4	5.5	70.0
TOTAL		1,951	8,791	913	57	2	182	19,933	6,551	5,333	1,586				
AVG.		244	382	29	2	0	6	643	211	172	51	144.9	90.0	5.5	70.9

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	51,855	3,201
SUMMER	63,779	3,079
FALL	8,791	721
TOTAL	124,425	7,001

COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
57	2	63,532	41,197	14,922	1,951,001	3,401

TABLE 69

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

MCNARY PROJECT
SEPTEMBER 2005

DATE	FISH COUNTS							RIVER CONDITIONS						
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI
Sep 1		662	70	19	0	1	1,416	417		61	128.7	0.2	5.5	70.0
Sep 2		1,350	108	40	9	1	1,369	354		67	105.4	0.0	6.0	70.0
Sep 3		1,313	132	31	6	2	1,443	380		57	85.9	0.0	6.0	70.0
Sep 4		2,695	140	55	12	0	2,053	562		48	69.9	0.0	6.0	70.0
Sep 5		2,426	160	71	18	1	1,492	412		40	81.2	0.0	6.0	70.0
Sep 6		5,421	313	84	18	0	1,462	355		37	85.3	0.0	6.0	69.0
Sep 7		4,843	283	100	20	0	1,391	309		45	85.0	0.0	6.0	69.0
Sep 8		2,507	215	162	15	0	1,224	318		36	103.7	0.0	5.5	69.0
Sep 9		3,324	385	180	12	1	1,980	425		39	100.4	0.0	5.8	69.0
Sep 10		2,606	384	300	27	2	2,969	634		28	78.8	0.0	6.0	68.0
Sep 11		3,870	380	266	14	0	2,663	542		19	68.4	0.0	6.0	68.0
Sep 12		5,761	367	328	16	0	2,639	618		22	79.8	0.0	6.0	67.0
Sep 13		6,748	498	498	60	0	4,018	909		19	86.6	0.0	6.0	67.0
Sep 14		3,274	306	334	40	0	3,370	785		19	77.7	0.0	6.0	67.0
Sep 15		2,868	294	349	30	0	4,230	1,020		7	86.9	0.0	6.0	67.0
Sep 16		4,368	546	611	58	0	6,383	1,523		27	82.2	0.0	6.0	67.0
Sep 17		3,614	389	608	66	0	5,643	1,460		11	93.3	0.0	6.0	67.0
Sep 18		4,960	407	1,539	114	0	5,908	1,594		21	72.3	0.0	5.9	67.0
Sep 19		5,522	338	1,184	81	0	4,257	1,194		15	66.7	0.0	5.9	66.0
Sep 20		7,782	507	720	48	0	8,169	1,872		9	86.3	0.0	4.4	66.0
Sep 21		2,037	286	482	18	0	5,833	1,312		23	110.5	0.0	4.8	66.0
Sep 22		2,140	215	272	18	0	3,977	949		12	88.0	0.0	5.5	65.0
Sep 23		2,297	316	257	33	0	4,502	1,127		10	100.0	0.0	6.0	65.0
Sep 24		2,867	399	258	26	0	4,303	999		6	90.8	0.0	5.7	65.0
Sep 25		3,949	430	291	20	0	4,528	1,021		8	69.6	0.0	5.6	65.0
Sep 26		3,561	383	293	21	0	4,055	934		8	89.3	0.0	*	65.0
Sep 27		2,732	343	271	20	0	4,860	1,035		7	98.8	0.0	5.4	65.0
Sep 28		2,814	399	274	17	0	4,262	928		6	89.3	0.0	5.6	64.0
Sep 29		2,297	317	258	17	0	4,501	1,019		11	100.7	0.0	6.0	64.0
Sep 30		1,504	279	320	18	0	4,298	856		4	103.9	0.0	6.0	64.0
TOTAL		102,112	9,589	10,455	872	8	109,198	25,863		722				
AVG.		3,404	320	349	29	0	3,640	862		24	88.8	0.0	5.8	67.0

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	51,855	3,201
SUMMER	63,779	3,079
FALL	110,903	10,310
TOTAL	226,537	16,590

COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
10,512	874	63,540	150,395	40,785	1,951,001	4,123

TABLE 70

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

MCNARY PROJECT
OCTOBER 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Oct 1			1,257	218	300	27		4,408	1,053		7	104.6	0.0	5.4	64.0
Oct 2			2,246	282	251	21		4,230	898		3	68.0	0.0	5.4	64.0
Oct 3			1,919	191	178	13		2,730	562		3	88.3	0.0	6.0	64.0
Oct 4			2,187	254	228	11		3,277	845		1	118.8	0.0	6.0	64.0
Oct 5			2,396	249	810	24		5,444	1,376		2	115.1	0.0	*	64.0
Oct 6			1,253	174	1,087	35		5,516	1,470		6	99.9	0.0	6.0	64.0
Oct 7			1,496	140	1,374	49		5,243	1,345		2	126.2	0.0	6.0	63.0
Oct 8			1,349	156	1,522	37		5,284	1,371		1	104.9	0.0	6.0	63.0
Oct 9			651	120	402	23		4,124	1,112		1	96.0	0.0	6.0	63.0
Oct 10			903	110	320	10		2,698	630		2	105.1	0.0	6.0	63.0
Oct 11			518	98	122	6		1,974	440		1	96.4	0.0	6.0	63.0
Oct 12			818	114	115	7		1,541	362		2	113.1	0.0	6.0	62.0
Oct 13			707	109	144	8		2,110	400		0	109.4	0.0	6.0	62.0
Oct 14			713	74	171	6		2,179	480		1	118.2	0.0	6.0	62.0
Oct 15			527	57	107	6		1,174	288		0	119.4	0.0	6.0	62.0
Oct 16			541	64	102	8		1,333	321		1	62.1	0.0	6.0	61.0
Oct 17			521	69	125	8		1,887	300		1	96.5	0.0	6.0	61.0
Oct 18			425	45	86	4		1,039	213		0	114.5	0.0	6.0	61.0
Oct 19			248	19	49	4		783	159		0	119.8	0.0	6.0	62.0
Oct 20			291	42	62	4		763	158		0	106.5	0.0	6.0	62.0
Oct 21			268	46	60	1		924	187		0	106.5	0.0	6.0	62.0
Oct 22			327	45	73	2		664	111		1	89.7	0.0	6.0	62.0
Oct 23			312	37	40	2		632	101		0	71.4	0.0	6.0	61.0
Oct 24			287	22	46	1		566	114		0	116.1	0.0	6.0	61.0
Oct 25			238	42	43	1		518	111		0	118.1	0.0	6.0	61.0
Oct 26			204	33	54	0		564	141		0	111.2	0.0	6.0	60.0
Oct 27			123	19	45	1		613	124		0	113.9	0.0	6.0	60.0
Oct 28			118	16	48	0		471	98		0	120.5	0.0	*	60.0
Oct 29			85	16	28	4		413	84		0	110.0	0.0	6.0	59.0
Oct 30			90	6	30	0		379	78		0	72.0	0.0	*	59.0
Oct 31			78	13	43	2		229	40		0	102.0	0.0	6.0	59.0
TOTAL			23,096	2,880	8,065	325		63,710	14,972		35				

AVG.			745	93	260	10		2,055	483		1	103.7	0.0	6.0	61.9
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*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
TOTALS TO DATE									
SPRING	51,855	3,201	18,577	1,199	63,540	214,105	55,757	1,951,001	4,158
SUMMER	63,779	3,079							
FALL	133,999	13,190							
TOTAL	249,633	19,470							

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 2005

DATE	FISH COUNTS					RIVER CONDITIONS									
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Nov 1			108	8	27	2		220	59			106.3	0.0	6.0	59.0
Nov 2			64	5	83	0		163	55			122.5	0.0	*	58.0
Nov 3			73	5	90	3		192	47			115.8	0.0	6.0	57.0
Nov 4			57	5	183	2		296	76			113.7	0.0	6.0	57.0
Nov 5			73	10	191	6		419	109			113.8	0.0	6.0	57.0
Nov 6			35	6	110	2		687	218			91.2	0.0	6.0	56.0
Nov 7			31	4	41	2		572	201			114.8	0.0	6.0	56.0
Nov 8			22	1	13	5		511	181			131.8	0.0	6.0	54.0
Nov 9			31	0	24	2		602	163			111.4	0.0	6.0	54.0
Nov 10			17	1	7	1		530	150			97.5	0.0	6.0	53.0
Nov 11			20	0	6	2		417	134			93.9	0.0	6.0	53.0
Nov 12			23	1	13	1		590	197			95.2	0.0	6.0	53.0
Nov 13			19	3	2	0		353	100			99.0	0.0	6.0	53.0
Nov 14			14	4	9	0		253	76			103.5	0.0	6.0	53.0
Nov 15			13	3	7	0		267	66			109.6	0.0	6.0	53.0
Nov 16			12	1	0	0		177	40			114.1	0.0	6.0	52.0
Nov 17			8	0	1	0		158	38			128.8	0.0	6.0	52.0
Nov 18			15	5	-1	0		161	59			131.4	0.0	6.0	52.0
Nov 19			15	2	0	0		139	45			133.2	0.0	*	51.0
Nov 20			8	0	-5	0		58	13			124.9	0.0	6.0	51.0
Nov 21			14	0	1	0		48	5			116.9	0.0	6.0	51.0
Nov 22			6	0	-3	0		48	21			131.9	0.0	6.0	51.0
Nov 23			8	1	3	0		53	13			118.9	0.0	6.0	51.0
Nov 24			8	1	0	0		32	5			126.2	0.0	6.0	51.0
Nov 25			12	0	-3	0		32	8			123.1	0.0	6.0	50.0
Nov 26			10	0	0	0		45	13			106.7	0.0	6.0	50.0
Nov 27			14	4	-6	0		53	12			134.3	0.0	6.0	50.0
Nov 28			10	0	1	0		68	27			143.4	0.0	6.0	50.0
Nov 29			7	2	-2	0		63	12			111.9	0.0	6.0	49.0
Nov 30			6	0	-1	0		41	8			114.0	0.0	6.0	49.0
TOTAL			753	72	791	28		7,248	2,151						
AVG.			25	2	26	1		242	72			116.0	0.0	6.0	52.9

*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
TOTALS TO DATE									
SPRING	51,855	3,201	18,577	1,199	63,540	214,105	55,757	1,951,001	4,158
SUMMER	63,779	3,079							
FALL	133,999	13,190							
TOTAL	249,633	19,470							

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 2005

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Dec 1			8	0	0	0		59	11			129.1	0.0	*	49.0
Dec 2			2	0	0	0		63	9			128.8	0.0	6.0	49.0
Dec 3			6	0	0	0		41	11			116.7	0.0	6.0	48.0
Dec 4			7	0	1	0		39	16			105.6	0.0	6.0	48.0
Dec 5			5	0	1	0		23	7			128.9	0.0	6.0	48.0
Dec 6			4	1	-1	1		24	3			118.5	0.0	6.0	46.0
Dec 7			3	0	0	0		9	3			116.1	0.0	6.0	46.0
Dec 8			1	0	1	0		29	5			129.5	0.0	*	45.0
Dec 9			0	0	1	0		17	5			127.7	0.0	6.0	45.0
Dec 10			-1	0	0	0		17	5			125.2	0.0	6.0	45.0
Dec 11			4	0	-1	0		13	3			119.4	0.0	*	44.0
Dec 12			3	0	0	0		11	2			108.7	0.0	6.0	44.0
Dec 13			4	0	0	0		15	5			127.2	0.0	6.0	42.0
Dec 14			3	0	0	0		4	2			125.4	0.0	6.0	42.0
Dec 15			2	0	0	0		5	2			151.8	0.0	6.0	41.0
Dec 16			3	0	0	0		6	1			155.9	0.0	6.0	42.0
Dec 17			1	0	0	0		4	2			134.9	0.0	6.0	41.0
Dec 18			2	0	0	0		7	2			124.5	0.0	6.0	41.0
Dec 19			1	0	0	0		7	1			119.0	0.0	6.0	41.0
Dec 20			1	0	0	0		9	0			119.4	0.0	6.0	41.0
Dec 21			1	0	0	0		6	2			115.9	0.0	6.0	41.0
Dec 22			0	0	0	0		7	2			120.6	0.0	6.0	41.0
Dec 23			1	0	0	0		6	2			116.5	0.0	6.0	40.0
Dec 24			1	0	0	0		10	3			105.5	0.0	6.0	40.0
Dec 25			1	1	1	0		10	4			96.8	0.0	6.0	41.0
Dec 26			0	0	0	0		14	3			100.0	0.0	*	41.0
Dec 27			0	0	0	0		0	0			107.6	0.0	6.0	41.0
Dec 28			1	0	0	0		24	6			133.2	0.0	6.0	41.0
Dec 29			2	0	0	0		88	32			142.1	0.0	6.0	41.0
Dec 30			2	0	0	0		33	11			140.9	0.0	6.0	42.0
Dec 31			1	0	1	0		68	18			137.4	0.0	6.0	42.0
TOTAL			69	2	4	1		668	178						

AVG.	2	0	0	22	6	123.5	0.0	6.0	43.2
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*Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
TOTALS TO DATE									
SPRING	51,855	3,201	18,577	1,199	63,540	214,105	55,757	1,951,001	4,158
SUMMER	63,779	3,079							
FALL	133,999	13,190							
TOTAL	249,633	19,470							

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 - 2005

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
Totals	9,724,657	6,230,166	2,997,269	507,517	19,459,609
10-Year Average	268,796	192,110	47,004	11,561	519,472

*Jacks included

TABLE 74
MONTHLY COUNT OF CHINOOK SALMON
McNARY DAM
1954 - 2005

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	SPRING MAR 15- JUN 8	SUMMER JUN 9- AUG 8	FALL 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 - 2005

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
Total			991	921,938	1,753,351	1,148,883	1,183,296	644,157	3,344,255	720,061	10,095	395	9,727,422	2,884,913	2,284,124	4,553,784
10-Year Average				33,374	46,197	32,755	25,802	15,078	94,291	21,024			269,072	85,972	54,598	128,042

*Jacks included

TABLE 75
MONTHLY COUNT OF SOCKEYE SALMON
McNARY DAM
1954 - 2005

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 - 2005**

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					32,037
2004					10	61,547	28,107	38	5				89,707
2005						27,341	36,009	182	8				63,540
Total				1	204	661,954	2,236,160	85,737	9,409	3,798	5	1	2,997,269
10-Year Average						25,512	21,322	163	6				47,004

TABLE 76

**MONTHLY COUNT OF COHO SALMON
McNARY DAM
1954 - 2005**

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 - 2005**

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
TOTAL				1	14	50	515	20,027	377,796	104,499	4,980	36	507,918
10-Year Average								52	6,382	5,001			11,602

*Jacks included

TABLE 77

**MONTHLY COUNT OF STEELHEAD
McNARY DAM: 1954-2005**

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

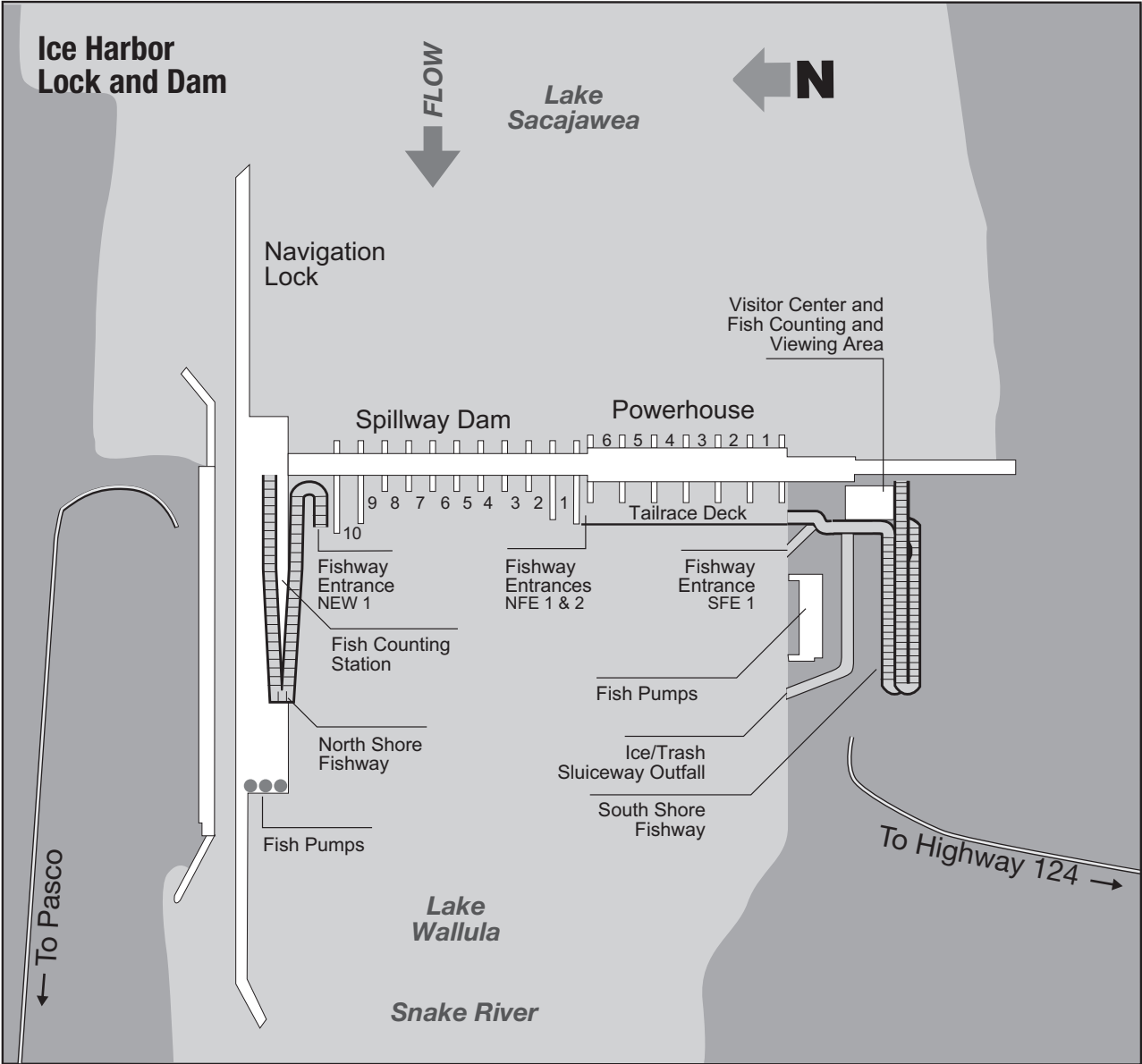
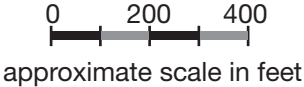
TABLE 77

(Continued)

MONTHLY COUNT OF STEELHEAD
McNARY DAM; 1954 - 2005

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
Total	1,059	925	26,180	103,052	39,717	66,897	560,573	1,057,716	2,948,555	1,385,229	46,667	10,346	6,246,916
10-Year Avg.				1,326	335	2,595	17,790	25,375	93,435	49,073			193,758

Plate 6 Ice Harbor Lock and Dam



ICE HARBOR 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.
1 Nov – 31 Dec	No counting.

FISH LADDER OPERATING SCHEDULE

North Ladder

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

South Ladder

1 Jan – 2 Jan	Ladder in service.
3 Jan – 14 Feb	Ladder dewatered for annual maintenance.
15 Feb – 31 Dec	Ladder in service.

FISHWAY ACTIVITIES

Water temperatures were recorded hourly in six locations within the adult fishways from June to September. The purpose of this effort is to determine if thermal barriers exist and take corrective action if needed.

The Walla Walla District completed a hydraulic evaluation of the south shore adult fishway in 2005. The purpose was to analyze existing operating conditions and investigate alternatives to improve fish passage. Operational changes are anticipated.

The three AWS pumps for the north shore fishway, newly installed during the winter of 2002-03, were outfitted with new babbit bearings in 2005. The original roller bearings had to be replaced due to excessive maintenance.

The gear reducer for north shore AWS pump 2 failed on October 31, 2005 due to a fractured input shaft. Repairs are scheduled for completion in early 2006.

Agris-Schoen Vision Systems and Brigham Young University tested a system for counting adult fish by computer imaging. A camera and computer identify fish by species.

The University of Idaho installed half-duplex PIT tag antennas for adult lamprey during the winter outage. Locations included ladder entrances, junction pools, and ladder exits. Lamprey were trapped and tagged at McNary for tracking in 2005.

The adult fish trap was not operated in 2005.

The juvenile fish facility was operated for juvenile fish bypass and adult fallbacks from 4 March to 21 December.

TABLE 78

**MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER ICE HARBOR DAM
COUNTS FROM MARCH 1 THROUGH OCTOBER 31, 2005**

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				1,763	20,798	14,089	2,323	1,389	14,672	3,327			58,361
STEELHEAD			1,379	1,205	124	1,364	4,619	11,902	76,394	59,933			156,920
SOCKEYE					3	2	13						18
COHO*									590	1,031			1,621
PINK													0
TOTAL			1,379	2,968	20,925	15,455	6,955	13,291	91,656	64,291			216,920
SHAD					148	207,723	71,566	1,677					281,114
LAMPREY					1	22	216	160	60	2			461

*Jacks included

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

TABLE 79

DISCHARGE AND WATER QUALITY DATA
ICE HARBOR PROJECT 2005

JANUARY					FEBRUARY				
DATE	DISCH	SPILL	TURBIDITY		DATE	DISCH	SPILL	TURBIDITY	
	KCFS	KCFS	SECCHI	DEG F		KCFS	KCFS	SECCHI	DEG F
Jan 1	23.3	0.0	8.4	42.0	Feb 1	27.6	0.0	7.8	38.0
Jan 2	24.4	0.0	8.4	42.0	Feb 2	25.9	0.0	7.8	38.0
Jan 3	26.0	0.0	8.4	40.0	Feb 3	27.0	0.0	7.8	38.0
Jan 4	18.1	0.0	8.4	40.0	Feb 4	26.0	0.0	7.8	38.0
Jan 5	23.0	0.0	8.4	40.0	Feb 5	27.4	0.0	7.8	38.0
Jan 6	24.4	0.0	8.4	40.0	Feb 6	21.9	0.0	7.8	38.0
Jan 7	34.8	0.0	8.4	39.0	Feb 7	25.0	0.0	7.8	38.0
Jan 8	13.3	0.0	8.4	38.0	Feb 8	22.3	0.0	7.8	38.0
Jan 9	8.6	0.0	8.4	38.0	Feb 9	21.4	0.0	11.0	38.0
Jan 10	23.6	0.0	8.4	38.0	Feb 10	15.5	0.0	11.0	38.0
Jan 11	17.8	0.0	8.4	38.0	Feb 11	24.0	0.0	11.0	38.0
Jan 12	15.9	0.0	8.4	38.0	Feb 12	13.8	0.0	11.0	38.0
Jan 13	28.1	0.0	8.4	38.0	Feb 13	21.6	0.0	11.0	38.0
Jan 14	40.6	0.0	7.9	38.0	Feb 14	21.9	0.0	11.0	38.0
Jan 15	23.1	0.0	7.9	38.0	Feb 15	21.7	0.0	11.0	38.0
Jan 16	17.8	0.0	7.9	38.0	Feb 16	24.5	0.0	11.0	38.0
Jan 17	17.8	0.0	7.9	38.0	Feb 17	15.4	0.0	11.0	38.0
Jan 18	21.8	0.0	7.9	38.0	Feb 18	18.7	0.0	11.0	39.0
Jan 19	31.4	0.0	7.9	38.0	Feb 19	20.2	0.0	11.0	39.0
Jan 20	39.1	0.0	7.9	38.0	Feb 20	15.6	0.0	11.0	40.0
Jan 21	25.7	0.0	7.9	38.0	Feb 21	22.9	0.0	11.0	40.0
Jan 22	25.5	0.0	7.9	38.0	Feb 22	24.9	0.0	11.0	40.0
Jan 23	23.6	0.0	7.9	38.0	Feb 23	11.8	0.0	11.0	40.0
Jan 24	32.4	0.0	7.9	38.0	Feb 24	22.1	0.0	11.0	40.0
Jan 25	31.8	0.0	7.9	38.0	Feb 25	18.3	0.0	11.0	40.0
Jan 26	29.6	0.0	7.9	38.0	Feb 26	13.1	0.0	11.0	40.0
Jan 27	35.6	0.0	7.9	38.0	Feb 27	16.1	0.0	11.0	40.0
Jan 28	35.6	0.0	7.9	38.0	Feb 28	29.2	0.0	11.0	40.0
Jan 29	26.4	0.0	7.9	38.0					
Jan 30	22.2	0.0	7.9	38.0					
Jan 31	34.1	0.0	7.9	38.0					
AVG.	25.4	0.0	8.1	38.6	AVG.	21.0	0.0	10.1	38.7

TABLE 80

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

ICE HARBOR PROJECT
MARCH 2005

DATE	FISH COUNTS					SHAD	LAMPREY	RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT			COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F	
	SPRING	SUMMER	FALL													
Mar 1								31	8			13.9	0.0	11.0	40.0	
Mar 2								33	7			24.0	0.0	11.0	41.0	
Mar 3								11	2			20.7	0.0	11.0	41.0	
Mar 4								25	6			13.6	0.0	8.5	41.0	
Mar 5								52	18			15.5	0.0	8.5	41.0	
Mar 6								64	21			21.7	0.0	8.5	42.0	
Mar 7								38	9			22.6	0.0	8.8	42.0	
Mar 8								64	13			25.6	0.0	6.8	42.0	
Mar 9								72	20			16.4	0.0	6.8	42.0	
Mar 10								55	19			31.5	0.0	6.8	42.0	
Mar 11								53	15			15.7	0.0	6.8	43.0	
Mar 12								43	14			18.6	0.0	6.8	43.0	
Mar 13								47	9			17.5	0.0	6.8	44.0	
Mar 14								54	13			27.1	0.0	6.8	44.0	
Mar 15								76	20			25.4	0.0	6.8	44.0	
Mar 16								64	10			30.3	0.0	6.8	44.0	
Mar 17								70	11			20.2	0.0	6.8	44.0	
Mar 18								54	5			27.4	0.0	6.8	44.0	
Mar 19								61	22			18.2	0.0	6.8	44.0	
Mar 20								55	17			23.5	0.0	6.8	44.0	
Mar 21								54	8			23.8	0.0	6.8	44.0	
Mar 22								28	9			27.7	0.0	6.8	44.0	
Mar 23								25	11			25.8	0.0	6.8	44.0	
Mar 24								24	4			21.6	0.0	6.8	44.0	
Mar 25								39	10			16.2	0.0	6.8	44.0	
Mar 26								39	9			25.0	0.0	6.8	44.0	
Mar 27								38	6			26.5	0.0	6.8	44.0	
Mar 28								25	9			44.1	0.0	6.8	45.0	
Mar 29								23	9			56.7	0.0	6.8	45.0	
Mar 30								31	15			49.9	0.0	3.8	45.0	
Mar 31								31	13			35.6	0.2	3.8	45.0	
TOTAL								1,379	362							
AVG.								44	12			25.2	0.0	7.2	43.2	

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 2005

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Apr 1	0			0				25	8			32.4	0.0	4.0	45.0
Apr 2	0			0				36	17			44.0	0.0	4.0	45.0
Apr 3	0			0				45	24			35.0	0.0	4.0	46.0
Apr 4	0			0				39	16			32.6	0.2	4.0	46.0
Apr 5	0			0				34	18			44.0	3.2	4.0	47.0
Apr 6	0			0				41	14			41.2	2.9	4.0	47.0
Apr 7	0			0				24	8			40.5	13.0	4.0	47.0
Apr 8	10			0				54	23			39.0	23.2	4.0	47.0
Apr 9	7			0				89	36			42.2	27.0	4.0	47.0
Apr 10	0			0				118	54			45.4	31.6	4.0	48.0
Apr 11	10			0				77	18			55.3	28.4	4.0	48.0
Apr 12	4			0				34	19			51.0	26.3	3.8	48.0
Apr 13	0			0				48	19			45.4	24.9	3.8	48.0
Apr 14	0			0				31	16			41.3	22.6	3.8	48.0
Apr 15	1			0				52	23			41.7	21.6	3.8	48.0
Apr 16	0			0				42	27			35.4	20.7	3.8	48.0
Apr 17	1			0				42	20			42.6	28.1	3.8	48.0
Apr 18	4			0				58	36			47.5	35.7	3.8	48.0
Apr 19	6			0				67	19			46.9	34.6	3.8	48.0
Apr 20	8			0				46	28			46.3	35.4	4.8	48.0
Apr 21	19			0				27	12			44.0	34.8	5.3	49.0
Apr 22	37			0				40	27			41.6	33.2	5.3	49.0
Apr 23	29			0				18	13			43.3	35.8	5.3	50.0
Apr 24	81			0				23	17			41.4	34.4	5.3	50.0
Apr 25	117			0				19	12			49.6	41.8	5.3	50.0
Apr 26	112			0				23	18			53.8	39.0	5.3	50.0
Apr 27	160			0				19	8			54.3	18.4	5.3	52.0
Apr 28	327			0				8	6			55.6	18.2	5.3	52.0
Apr 29	362			1				9	5			53.5	17.6	5.3	52.0
Apr 30	466			1				17	7			55.0	19.0	5.8	52.0
TOTAL	1,761			2				1,205	568			44.7	22.4	4.4	48.4
AVG.	59			0				40	19						

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 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
May 1	438			0			0	5	2	0	0	55.5	41.3	5.8	53.0
May 2	901			1			0	6	2	0	0	49.4	43.3	5.8	53.0
May 3	1,953			8			0	7	5	0	0	51.1	43.3	5.8	54.0
May 4	818			4			0	6	3	0	0	50.3	43.1	5.8	54.0
May 5	863			7			0	7	6	0	0	62.0	23.0	5.0	54.0
May 6	1,218			11			0	3	2	0	0	65.7	22.1	5.0	54.0
May 7	735			12			0	4	1	0	0	82.5	26.7	5.0	54.0
May 8	848			7			0	8	2	0	0	84.0	27.7	5.0	54.0
May 9	894			15			0	5	4	0	0	82.2	61.4	5.0	54.0
May 10	1,560			10			0	2	1	0	0	93.1	84.0	5.0	55.0
May 11	883			29			0	2	0	0	0	104.2	46.0	5.0	55.0
May 12	966			44			0	0	0	0	0	94.2	29.2	5.2	55.0
May 13	913			70			0	6	0	0	0	88.9	69.8	5.2	55.0
May 14	417			22			0	2	2	0	0	89.4	81.7	5.2	55.0
May 15	275			16			0	2	0	0	0	88.4	41.2	5.2	55.0
May 16	203			12			0	1	0	0	0	91.0	29.3	3.0	56.0
May 17	93			15			0	0	0	0	0	124.7	76.0	2.0	56.0
May 18	174			16			0	0	0	0	0	123.6	91.6	2.0	56.0
May 19	176			17			0	1	1	2	0	119.9	91.6	2.0	56.0
May 20	589			50			0	1	0	1	0	132.6	91.8	2.0	56.0
May 21	667			57			3	6	2	4	0	138.0	57.8	2.0	56.0
May 22	598			52			0	2	0	0	0	128.1	59.1	2.0	56.0
May 23	322			21			0	0	0	0	0	118.5	37.8	2.0	56.0
May 24	214			24			0	0	0	0	0	118.9	37.8	2.0	56.0
May 25	360			45			0	5	0	0	0	105.5	73.3	2.8	56.0
May 26	392			35			0	8	0	0	0	106.0	85.4	2.8	57.0
May 27	341			33			0	10	2	2	0	91.2	80.5	2.8	57.0
May 28	644			51			0	4	0	14	0	90.6	80.7	2.8	57.0
May 29	645			62			0	5	0	30	1	90.4	42.1	2.8	57.0
May 30	464			47			0	11	0	60	0	82.0	27.5	2.8	57.0
May 31	394			47			0	5	1	35	0	79.2	55.8	2.8	57.0
TOTAL	19,958			840			3	124	36	148	1				
AVG.	644			27			0	4	1	5	0	92.9	54.9	3.8	55.4

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	21,719	842
SPRING		

SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
3	1,329	604	148	1

TABLE 83

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

ICE HARBOR PROJECT
JUNE 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Jun 1	527			40			0	5	0	62	1	91.2	84.1	2.8	57.0
Jun 2	473			31			0	7	0	110	0	95.1	44.4	3.7	57.0
Jun 3	641			60			0	24	0	272	0	89.1	27.6	3.7	57.0
Jun 4	873			52			0	7	0	360	1	80.7	25.8	4.0	57.0
Jun 5	488			46			0	23	5	642	1	73.7	23.2	4.0	57.0
Jun 6	632			40			0	13	0	479	1	77.4	61.8	4.0	59.0
Jun 7	1,019			54			0	16	0	550	1	73.9	66.6	4.0	59.0
Jun 8	618			30			0	10	4	1,059	0	64.2	30.6	4.0	59.0
Jun 9	320			17			0	12	0	1,524	2	63.3	23.0	4.0	59.0
Jun 10	344			31			0	7	0	1,449	0	57.8	44.2	4.0	59.0
Jun 11	385			24			0	15	0	3,065	5	50.7	43.1	4.0	59.0
Jun 12		364		19			0	19	5	3,501	0	53.3	25.3	4.0	59.0
Jun 13		350		36			0	41	7	3,196	0	50.9	18.4	4.0	59.0
Jun 14		509		34			0	22	2	4,283	0	53.3	37.5	4.0	59.0
Jun 15		487		31			0	24	5	3,160	0	52.6	45.0	4.8	59.0
Jun 16		466		18			0	32	6	6,932	0	45.0	37.5	4.8	59.0
Jun 17		604		18			0	45	5	2,262	0	47.4	39.5	4.8	59.0
Jun 18		389		36			0	44	8	9,284	1	52.0	23.5	4.8	59.0
Jun 19		379		46			0	56	12	19,570	4	54.2	18.7	4.8	60.0
Jun 20		283		11			0	36	9	18,970	1	53.2	31.0	4.8	60.0
Jun 21		283		33			0	85	22	18,006	0	51.4	41.5	6.6	60.0
Jun 22		408		36			0	35	10	5,629	0	53.2	44.8	6.6	60.0
Jun 23		402		33			0	58	23	14,793	0	47.0	36.7	6.6	60.0
Jun 24		362		36			1	106	30	28,501	1	46.5	33.3	6.0	60.0
Jun 25		178		41			0	85	20	21,417	1	48.4	19.3	6.0	60.0
Jun 26		243		26			0	104	29	10,774	1	39.9	26.6	6.0	60.0
Jun 27		209		30			0	97	23	5,133	0	45.0	34.8	6.0	61.0
Jun 28		358		42			1	125	25	6,308	1	47.0	36.6	6.0	62.0
Jun 29		293		49			0	105	32	6,308	0	57.6	47.0	6.0	62.0
Jun 30		192		10			0	106	20	10,124	0	54.0	25.4	6.0	62.0
TOTAL	6,320	6,759		1,010			2	1,364	302	207,723	22				
AVG.	575	356		34			0	45	10	6924	1	59.0	36.6	4.8	59.3

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	28,039	1,267
SUMMER	6,759	585
TOTAL	34,798	1,852

WILD STEELHEAD		SHAD	LAMPREY
SOCKEYE	STEELHEAD		
5	2,693	906	207,871
		23	

TABLE 84

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

ICE HARBOR PROJECT
JULY 2005

DATE	FISH COUNTS			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	RIVER CONDITIONS			
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL									DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jul 1		115		19			0	107	15	8,752	0	52.0	19.6	6.0	62.0
Jul 2		123		18			0	85	17	4,352	9	39.7	27.3	6.0	62.0
Jul 3		90		11			0	77	21	2,992	4	35.4	25.1	6.0	63.0
Jul 4		127		14			0	68	25	3,390	5	45.6	22.9	6.0	63.0
Jul 5		146		36			1	132	42	12,576	11	40.3	17.8	6.0	64.0
Jul 6		189		47			2	177	61	4,640	16	42.1	29.7	6.5	64.0
Jul 7		131		36			0	158	50	4,220	6	45.4	35.2	6.5	65.0
Jul 8		89		20			3	123	41	4,154	8	41.3	19.0	5.0	65.0
Jul 9		89		19			1	204	70	4,085	9	38.7	15.8	5.0	66.0
Jul 10		64		22			2	180	56	4,443	1	29.6	17.0	5.0	67.0
Jul 11		90		7			0	194	67	3,144	4	37.9	27.9	5.0	67.0
Jul 12		72		6			0	170	48	3,401	1	37.2	16.9	5.0	67.0
Jul 13		43		12			0	191	78	1,946	4	33.7	16.4	6.0	67.0
Jul 14		64		7			0	152	62	1,202	8	39.0	15.8	6.0	67.0
Jul 15		30		8			1	215	91	1,792	11	33.2	15.8	6.0	67.0
Jul 16		44		13			1	228	78	1,223	16	39.5	26.0	6.0	67.0
Jul 17		43		8			0	180	65	677	13	30.2	19.8	6.0	68.0
Jul 18		39		11			0	153	43	741	11	38.1	28.0	6.0	68.0
Jul 19		27		5			1	137	51	262	11	31.9	21.7	6.0	68.0
Jul 20		35		6			0	134	46	592	10	36.0	18.1	6.0	69.0
Jul 21		22		3			0	77	25	899	4	33.7	15.8	6.0	69.0
Jul 22		46		6			0	153	47	373	12	34.6	20.8	6.0	70.0
Jul 23		35		9			0	131	45	453	3	34.0	23.6	6.0	70.0
Jul 24		27		6			0	124	33	191	9	30.5	20.2	6.0	70.0
Jul 25		29		4			1	72	23	53	4	25.3	15.1	6.0	70.0
Jul 26		18		6			0	97	21	152	5	30.6	20.7	6.0	70.0
Jul 27		14		3			0	167	36	135	1	30.3	20.3	10.0	70.0
Jul 28		20		4			0	138	36	255	5	28.3	17.9	10.0	71.0
Jul 29		32		5			0	180	58	196	4	33.8	23.7	10.0	71.0
Jul 30		28		7			0	201	53	126	2	38.1	27.8	10.0	71.0
Jul 31		18		6			0	214	35	149	9	31.4	21.2	10.0	71.0
TOTAL		1,939		384			13	4,619	1,439	71,566	216				
AVG.		63		12			0	149	46	2,309	7	36.0	21.4	6.5	67.4
RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK					SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY				
SPRING	28,039	1,267					18	7,312	2,345	279,437	239				
SUMMER	8,698	969													
TOTAL	36,737	2,236													

TABLE 85

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

ICE HARBOR PROJECT
AUGUST 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Aug 1		6		0				261	43	80	4	29.3	19.2	10.0	71.0
Aug 2		16		1				142	23	129	7	35.9	25.7	10.0	71.0
Aug 3		18		1				160	39	66	0	28.1	17.9	9.8	72.0
Aug 4		5		1				177	23	47	2	25.4	15.1	9.8	72.0
Aug 5		8		2				198	53	122	5	28.9	18.6	9.8	72.0
Aug 6		9		1				248	73	77	6	36.3	26.0	9.8	72.0
Aug 7		11		2				371	101	32	7	35.0	25.0	9.8	72.0
Aug 8		7		1				340	69	46	4	28.4	18.4	9.8	72.0
Aug 9		12		6				435	93	37	6	29.4	19.5	9.8	72.0
Aug 10		20		4				594	155	92	11	27.8	17.3	9.8	72.0
Aug 11		17		2				377	53	7	9	33.5	22.7	9.8	72.0
Aug 12			9	0				433	76	185	10	21.6	10.8	9.8	72.0
Aug 13			8	0				252	64	132	6	23.5	13.6	9.8	72.0
Aug 14			29	8				159	10	43	10	23.8	13.8	9.8	72.0
Aug 15			9	0				172	35	70	1	24.5	13.4	9.8	72.0
Aug 16			8	1				198	52	86	2	21.5	11.4	9.8	72.0
Aug 17			4	1				251	77	50	0	19.8	9.7	9.8	72.0
Aug 18			22	2				261	64	29	6	26.2	16.4	9.8	72.0
Aug 19			22	7				436	114	38	4	22.9	13.1	9.8	72.0
Aug 20			22	5				437	85	92	11	17.5	7.3	9.8	72.0
Aug 21			27	5				569	119	43	12	22.1	12.0	9.8	72.0
Aug 22			54	18				511	123	54	4	15.0	5.0	9.8	72.0
Aug 23			85	23				413	96	29	4	26.2	16.1	9.8	72.0
Aug 24			54	12				325	62	26	7	19.9	10.0	9.8	72.0
Aug 25			72	14				327	60	30	2	20.3	13.9	9.8	72.0
Aug 26			59	6				396	93	8	3	20.2	10.1	9.8	72.0
Aug 27			66	7				441	96	7	7	22.7	12.4	9.8	72.0
Aug 28			72	13				500	107	8	6	20.3	9.9	9.8	70.0
Aug 29			92	4				505	98	7	0	19.1	8.9	9.8	70.0
Aug 30			132	43				972	259	5	2	24.5	14.4	9.8	70.0
Aug 31			197	27				1,041	256	0	2	20.5	10.1	8.4	70.0
TOTAL		129	1,043	217				11,902	2,671	1,677	160				
AVG.		12	52	7				384	86	54	5	24.8	14.8	9.8	71.7

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	28,039	1,267
SUMMER	8,827	990
FALL	1,043	196
TOTAL	37,909	2,453

	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
	18	19,214	5,016	281,114	399

TABLE 86

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

ICE HARBOR PROJECT
SEPTEMBER 2005
RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Sep 1			118	32	0	0		450	81		0	16.0	0.1	8.4	70.0
Sep 2			213	31	0	0		963	247		10	22.8	0.0	8.4	70.0
Sep 3			163	41	4	0		1,129	252		2	18.5	0.0	8.4	69.0
Sep 4			164	26	2	1		1,025	255		1	15.6	0.0	8.4	68.0
Sep 5			301	49	5	0		1,187	273		5	22.7	0.0	8.4	68.0
Sep 6			174	24	0	0		527	132		2	19.2	0.0	8.4	68.0
Sep 7			311	53	2	0		766	178		1	20.8	0.0	8.4	68.0
Sep 8			264	33	2	0		748	162		1	15.6	0.0	8.4	68.0
Sep 9			571	152	12	0		1,384	319		13	15.5	0.0	8.4	68.0
Sep 10			463	107	35	0		1,595	360		7	20.9	0.0	8.4	68.0
Sep 11			584	129	28	0		2,140	505		2	20.9	0.0	8.4	68.0
Sep 12			477	128	20	0		1,743	423		5	20.9	0.0	8.4	67.0
Sep 13			579	89	12	6		1,444	332		3	18.3	0.0	8.4	67.0
Sep 14			739	129	0	6		1,935	366		2	13.2	0.0	8.4	67.0
Sep 15			611	148	4	0		1,442	258		2	13.0	0.0	8.4	67.0
Sep 16			550	114	31	0		3,690	825		0	12.5	0.0	8.4	67.0
Sep 17			540	130	44	2		4,037	895		1	12.6	0.0	8.4	67.0
Sep 18			509	129	42	1		4,578	1,128		0	13.1	0.0	8.4	67.0
Sep 19			577	137	36	1		4,523	1,066		0	13.2	0.0	8.4	66.0
Sep 20			594	150	34	0		2,518	635		0	12.2	0.0	8.1	66.0
Sep 21			741	248	47	0		3,361	764		0	12.4	0.0	8.1	66.0
Sep 22			370	83	47	0		2,863	546		0	19.8	0.0	8.1	66.0
Sep 23			264	61	7	0		3,689	680		0	16.7	0.0	8.1	66.0
Sep 24			295	100	36	1		4,864	979		0	14.0	0.0	8.1	66.0
Sep 25			215	86	11	0		4,022	783		0	17.6	0.0	8.1	66.0
Sep 26			221	64	13	0		3,071	618		1	14.0	0.0	8.1	66.0
Sep 27			247	128	12	0		4,072	896		2	19.5	0.0	9.0	66.0
Sep 28			165	90	5	0		3,107	677		0	19.1	0.0	9.0	66.0
Sep 29			296	178	26	0		5,040	1,164		0	14.1	0.0	9.0	65.0
Sep 30			350	137	55	0		4,481	944		0	13.9	0.0	9.0	65.0
TOTAL			11,666	3,006	572	18		76,394	16,743		60				

AVG.			389	100	19	1		2,546	558		2	16.6	0.0	8.4	67.1
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	28,039	1,267
SUMMER	8,827	990
FALL	12,709	3,202
TOTAL	49,575	5,459

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
572	18	18	95,608	21,759	281,114	459

TABLE 87

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

ICE HARBOR PROJECT

OCTOBER 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Oct 1			242	113	69	1		4,025	896		0	16.6	0.0	9.0	65.0
Oct 2			197	92	67	0		3,078	695		2	17.8	0.0	9.0	64.0
Oct 3			166	138	37	0		3,357	781		0	20.7	0.0	9.0	64.0
Oct 4			144	74	11	0		3,289	580		0	23.0	0.0	8.1	64.0
Oct 5			117	54	25	0		2,214	394		0	15.9	0.0	8.1	63.0
Oct 6			123	40	42	0		3,406	673		0	22.0	0.0	8.1	62.0
Oct 7			144	120	147	0		5,942	1,412		0	18.9	0.0	7.0	62.0
Oct 8			130	88	133	1		4,637	1,124		0	26.0	0.0	7.0	62.0
Oct 9			121	94	139	0		4,748	1,161		0	13.7	0.0	7.0	62.0
Oct 10			45	26	13	0		1,601	339		0	19.1	0.0	7.0	62.0
Oct 11			66	78	61	0		3,919	906		0	14.7	0.0	7.0	62.0
Oct 12			69	56	52	0		3,846	905		0	13.2	0.0	7.0	61.0
Oct 13			18	15	28	0		1,848	372		0	15.1	0.0	7.0	61.0
Oct 14			61	47	25	0		1,747	318		0	17.8	0.0	7.0	61.0
Oct 15			65	67	30	0		1,694	379		0	13.3	0.0	7.0	61.0
Oct 16			53	68	24	0		2,006	464		0	16.9	0.0	7.0	61.0
Oct 17			33	12	18	0		678	168		0	15.3	0.0	7.0	61.0
Oct 18			21	42	15	0		1,132	289		0	15.7	0.0	7.0	61.0
Oct 19			27	39	11	0		1,305	345		0	14.2	0.0	7.0	61.0
Oct 20			23	21	8	0		1,149	263		0	17.4	0.0	7.0	60.0
Oct 21			14	11	8	0		547	141		0	25.1	0.0	7.0	60.0
Oct 22			7	18	13	0		631	135		0	14.4	0.0	7.0	60.0
Oct 23			13	9	11	0		490	121		0	13.7	0.0	7.0	60.0
Oct 24			11	12	12	0		363	87		0	14.6	0.0	7.0	60.0
Oct 25			11	0	4	0		318	61		0	14.6	0.0	7.0	60.0
Oct 26			6	3	8	0		423	103		0	14.7	0.0	9.4	60.0
Oct 27			12	0	5	0		295	61		0	15.8	0.0	9.4	59.0
Oct 28			12	8	2	0		290	79		0	14.3	0.0	9.4	59.0
Oct 29			10	6	5	0		339	71		0	17.5	0.0	9.4	59.0
Oct 30			5	4	6	0		283	66		0	15.8	0.0	9.4	59.0
Oct 31			2	4	0	0		333	101		0	16.5	0.0	9.4	59.0
TOTAL			1,968	1,359	1,029	2		59,933	13,490		2				
AVG.			63	44	33			1,933	435		0	16.9	0.0	7.8	61.1

RUN YEAR	CHINOOK		COHO		SOCKEYE	STEELHEAD	WILD		SHAD	LAMPREY
	ADULT	JACK	ADULT	JACK			STEELHEAD	SHAD		
TOTALS TO DATE										
SPRING	28,039	1,267			18	155,541	35,249		281,114	461
SUMMER	8,827	990								
FALL	14,677	4,561								
TOTAL	51,543	6,818								

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 - 2005

NOVEMBER					DECEMBER				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY		DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F				SECCHI	DEG F
Nov 1	16.1	0.0	9.4	59.0	Dec 1	12.9	0.0	8.5	49.0
Nov 2	18.1	0.0	9.4	59.0	Dec 2	12.6	0.0	8.5	48.0
Nov 3	18.9	0.0	9.4	59.0	Dec 3	16.6	0.0	8.5	48.0
Nov 4	18.6	0.0	9.4	59.0	Dec 4	16.4	0.0	8.5	48.0
Nov 5	20.0	0.0	9.4	59.0	Dec 5	16.3	0.0	8.5	48.0
Nov 6	13.1	0.0	9.4	56.0	Dec 6	18.1	0.0	8.5	47.0
Nov 7	19.1	0.0	9.4	56.0	Dec 7	16.8	0.0	8.5	47.0
Nov 8	18.8	0.0	9.4	55.0	Dec 8	14.7	0.0	8.5	47.0
Nov 9	16.5	0.0	9.4	55.0	Dec 9	15.0	0.0	10.0	45.0
Nov 10	27.4	0.0	7.2	55.0	Dec 10	14.0	0.0	10.0	45.0
Nov 11	18.6	0.0	7.2	55.0	Dec 11	11.6	0.0	10.0	45.0
Nov 12	20.1	0.0	7.2	55.0	Dec 12	13.3	0.0	10.0	45.0
Nov 13	17.8	0.0	7.2	54.0	Dec 13	17.3	0.0	10.0	44.0
Nov 14	21.3	0.0	7.2	54.0	Dec 14	20.6	0.0	10.0	44.0
Nov 15	22.1	0.0	7.2	53.0	Dec 15	20.9	0.0	10.0	43.0
Nov 16	15.6	0.0	7.2	53.0	Dec 16	25.1	0.0	10.0	43.0
Nov 17	15.2	0.0	7.5	52.0	Dec 17	19.5	0.0	10.0	43.0
Nov 18	23.8	0.0	7.5	52.0	Dec 18	14.3	0.0	10.0	41.0
Nov 19	15.4	0.0	7.5	52.0	Dec 19	17.7	0.0	10.0	41.0
Nov 20	17.0	0.0	7.5	52.0	Dec 20	18.7	0.0	10.0	41.0
Nov 21	19.1	0.0	7.5	52.0	Dec 21	24.1	0.0	10.0	40.0
Nov 22	19.8	0.0	7.5	52.0	Dec 22	14.3	0.0	10.0	40.0
Nov 23	14.1	0.0	7.5	50.0	Dec 23	21.0	0.0	10.0	40.0
Nov 24	18.2	0.0	7.5	50.0	Dec 24	21.3	0.0	6.0	40.0
Nov 25	15.3	0.0	7.5	50.0	Dec 25	22.4	0.0	6.0	39.0
Nov 26	14.9	0.0	7.5	49.0	Dec 26	21.7	0.0	6.0	39.0
Nov 27	17.9	0.0	7.5	49.0	Dec 27	28.0	0.0	6.0	39.0
Nov 28	35.8	0.0	7.5	49.0	Dec 28	30.2	0.0	6.0	39.0
Nov 29	11.9	0.0	7.5	49.0	Dec 29	61.6	0.0	12.0	39.0
Nov 30	11.1	0.0	8.5	49.0	Dec 30	64.3	0.0	12.0	40.0
					Dec 31	49.9	0.0	12.0	39.0
AVG.	18.5	0.0	8.0	53.2	AVG.	22.6	0.0	9.2	42.9

TABLE 89

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
ICE HARBOR DAM
1962 - 2005**

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
Totals	2,500,560	3,960,901	10,803	53,745	6,526,009
10-Year Average	87,841	151,057	49	997	239,944

*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 - 2005

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL*	SPRING	SUMMER	FALL
														1 APR- 11 JUN	12 JUN- 11 AUG	12 AUG- 31 OCT
1962				2,579	28,951	23,250	8,315	3,547	20,578	7,081			94,301	33,613	30,639	30,049
1963				3,434	21,790	14,001	7,591	1,415	9,342	2,918	677	22	61,190	26,778	20,875	13,537
1964		1	2	4,048	19,611	5,409	18,832	2,161	8,159	1,701	156	17	60,097	24,304	24,696	11,097
1965			4	1,677	9,649	5,072	10,209	803	9,318	2,152	349		39,233	12,178	14,701	12,354
1966				23,382	19,294	10,611	7,166	1,933	10,756	2,740			75,882	43,881	16,983	15,018
1967				15,973	18,137	9,020	22,218	820	11,947	6,815			84,930	35,593	30,315	19,022
1968				1,595	41,398	12,119	17,751	3,433	16,588	5,275	493	29	98,681	44,773	29,531	24,377
1969			195	697	43,181	24,918	12,861	2,369	12,027	3,555	708	3	100,514	52,090	30,917	17,507
1970				12,167	33,881	12,338	8,185	1,747	7,702	1,456	219	3	77,698	47,931	19,382	10,385
1971				1,104	25,089	19,265	13,364	873	8,960	1,593			70,248	32,638	26,606	11,004
1972				14,535	34,734	7,544	15,177	1,869	6,089	2,684			82,632	50,350	22,846	9,436
1973				34,277	23,627	10,925	4,254	840	6,657	1,241			81,821	60,639	12,829	8,353
1974				842	16,670	5,315	6,494	483	2,066	574			32,444	19,361	10,269	2,814
1975				1,314	17,796	5,817	3,972	506	1,875	406			31,686	21,401	7,727	2,558
1976				3,146	19,269	8,544	3,921	349	1,123	204			36,556	25,056	10,026	1,474
1977				24,003	17,626	9,328	3,606	297	1,370	284			56,514	44,421	10,337	1,756
1978				14,891	29,333	9,999	4,888	892	1,064	269	16		61,352	49,303	10,440	1,609
1979				1,731	6,528	2,234	1,216	379	1,489	333	19		13,929	9,247	2,608	2,074
1980				1,678	7,321	2,285	1,569	301	1,034	504	25		14,717	9,668	3,305	1,744
1981			1	6,744	8,542	2,884	1,751	161	1,530	470	9		22,092	16,167	3,814	2,111
1982			3	656	11,543	4,522	2,347	283	2,601	691			22,646	14,600	4,527	3,519
1983				1,925	9,418	4,132	1,921	316	1,945	602			20,259	12,602	4,922	2,735
1984				823	7,292	5,353	1,943	223	1,762	361			17,757	9,183	6,307	2,267
1985				12,245	18,334	6,885	1,294	546	5,414	3,263			47,981	33,527	5,290	9,164
1986			1	14,764	22,025	8,299	1,672	169	3,664	2,021			52,615	39,087	7,745	5,783
1987				11,141	18,821	6,550	2,437	329	6,089	2,110			47,477	32,083	6,982	8,412
1988				14,274	17,196	8,609	1,904	702	3,621	1,760			48,066	34,394	7,790	5,882
1989				3,307	11,724	4,946	1,143	776	3,917	1,421			27,234	17,029	4,215	5,990
1990				7,578	12,166	5,353	1,337	320	3,315	1,773			31,842	20,730	5,794	5,317
1991				1,639	7,953	5,367	2,101	155	4,053	1,907			23,175	11,288	5,861	6,026
1992				11,462	12,001	5,791	1,189	228	3,716	1,634			36,021	26,114	4,377	5,530
1993				5,776	15,879	8,705	1,405	338	2,087	801			34,991	24,935	6,919	3,137
1994				717	2,268	1,183	289	170	1,693	1,257			7,577	3,472	1,003	3,102
1995				256	1,253	928	315	387	2,920	1,931			7,990	1,873	915	5,202
1996				97	6,254	3,954	1,367	792	2,983	928	44	0	16,419	7,671	4,086	4,662
1997				3,442	30,332	14,678	2,224	411	2,502	1,680	143	0	55,412	41,473	9,318	4,621
1998				3,850	7,285	6,001	1,165	421	4,324	3,006	64	1	26,117	12,564	5,777	7,776
1999				260	5,717	5,659	1,461	917	6,283	2,943	89	2	23,331	8,008	5,211	10,112
2000				13,749	29,916	9,877	2,076	1,928	9,763	4,738	105	2	72,154	48,278	7,420	16,456
2001				104,883	55,788	26,709	4,268	1,327	18,315	4,262	140	5	215,697	174,199	17,667	23,831
2002				5,016	71,511	33,555	5,750	2,752	15,874	2,946	100	3	137,507	87,033	29,044	21,327
2003			132	42,343	34,581	28,636	5,732	1,286	23,445	7,174			143,329	86,190	25,344	31,663
2004			5	36,168	37,934	19,580	4,094	908	26,998	4,531			130,218	81,752	16,185	32,276
2005				1,763	20,798	14,089	2,323	1,389	14,672	3,327			58,361	1,267	990	4,561
TOTAL		1	343	467,951	910,416	440,239	225,097	42,251	311,630	99,322	3,356	87	2,500,693	1,488,744	532,535	427,630
10-Year Average				21,157	30,012	16,274	3,046	1,213	12,516	3,554			87,855	54,844	12,104	15,729

*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.

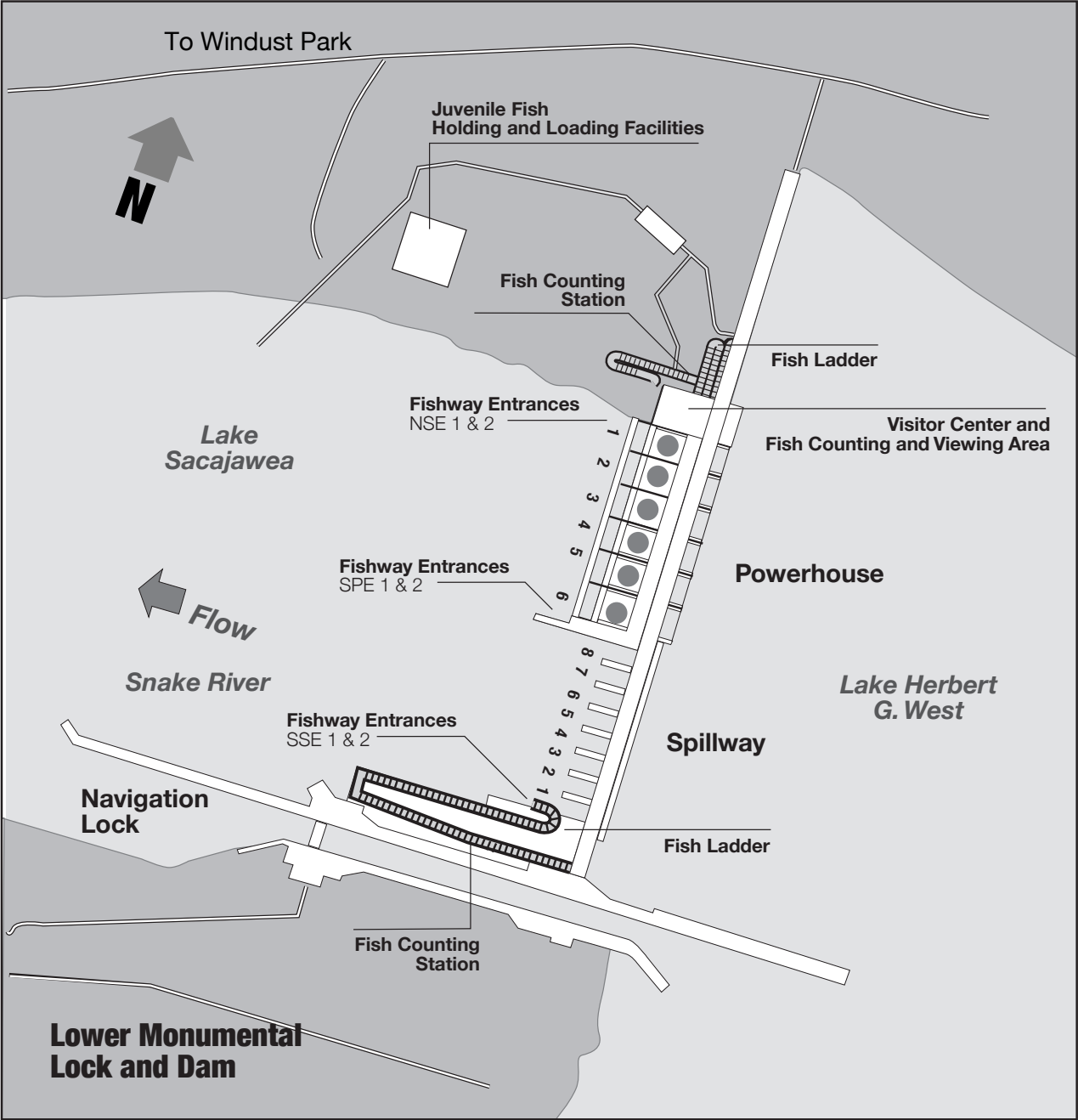
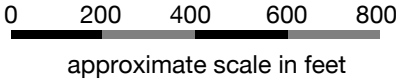
TABLE 91

MONTHLY COUNT OF STEELHEAD
ICE HARBOR DAM
1962 -2005

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
Totals	268	287	20,392	98,683	21,220	19,384	178,444	340,042	1,959,520	1,232,290	81,529	14,043	3,966,102
10-Year Average				1,544	114	1,047	7,838	14,684	74,139	44,537			151,578

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 – 1 Mar Ladder dewatered for annual maintenance and construction.
2 Mar – 31 Dec Ladder in service.

South Ladder

1 Jan – 9 Jan Ladder in service.
10 Jan – 25 Jan Ladder dewatered for annual maintenance.
26 Jan – 31 Dec Ladder in service.

FISHWAY ACTIVITIES

Water temperatures were recorded hourly in six locations within the adult fishways from June to September. The purpose of this effort is to determine if thermal barriers exist and take corrective action if needed.

The Walla Walla District completed a hydraulic evaluation of both adult fishways in 2005. The purpose was to analyze existing operating conditions and investigate alternatives to improve fish passage. Operational changes are anticipated.

The in-water sections of the north shore counting station were reconstructed during the winter maintenance period.

The juvenile fish facility was operated for juvenile fish transport/bypass and adult fallbacks from 15 March to 19 December.

TABLE 92

MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER LOWER MONUMENTAL DAM
2005

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				1,174	18,726	13,028	2,942	948	12,215	3,248			52,281
STEELHEAD				783	181	1,062	5,193	7,445	70,701	68,427			153,792
SOCKEYE						4	14						18
COHO*									797	1,298			2,095
PINK													0
TOTAL				1,957	18,907	14,094	8,149	8,393	83,713	72,973			208,186
SHAD													0
LAMPREY				1	18	15	67	94	20	7			222

*Jacks included
No Shad counts in 2005

TABLE 93

DISCHARGE AND WATER QUALITY DATA
LOWER MONUMENTAL PROJECT 2005

JANUARY				
DATE	DISCH	SPILL	TURBIDITY	
	KCFS	KCFS	SECCHI	DEG F
Jan 1	21.4	0.0		
Jan 2	19.4	0.0		
Jan 3	23.1	0.0		
Jan 4	18.8	0.0		
Jan 5	19.2	0.0		
Jan 6	24.4	0.0		
Jan 7	30.8	0.0		
Jan 8	14.1	0.0		
Jan 9	13.4	0.0		
Jan 10	21.7	0.0		
Jan 11	21.7	0.0		
Jan 12	20.8	0.0		
Jan 13	26.8	0.0		
Jan 14	34.7	0.0		
Jan 15	22.0	0.0		
Jan 16	20.3	0.0		
Jan 17	16.7	0.0		
Jan 18	22.9	0.0		
Jan 19	29.0	0.0		
Jan 20	33.6	0.0		
Jan 21	27.3	0.0		
Jan 22	25.9	0.0		
Jan 23	24.1	0.0		
Jan 24	29.4	0.0		
Jan 25	29.7	0.0		
Jan 26	28.6	0.0		
Jan 27	32.6	0.0		
Jan 28	32.4	0.0		
Jan 29	29.7	0.0		
Jan 30	23.8	0.0		
Jan 31	28.7	0.0		

AVG 24.7 0.0

FEBRUARY				
DATE	DISCH	SPILL	TURBIDITY	
	KCFS	KCFS	SECCHI	DEG F
Feb 1	27.7	0.0		
Feb 2	27.3	0.0		
Feb 3	23.9	0.0		
Feb 4	27.3	0.0		
Feb 5	25.0	0.0		
Feb 6	21.0	0.0		
Feb 7	26.2	0.0		
Feb 8	20.0	0.0		
Feb 9	20.4	0.0		
Feb 10	18.7	0.0		
Feb 11	21.3	0.0		
Feb 12	15.1	0.0		
Feb 13	19.7	0.0		
Feb 14	22.1	0.0		
Feb 15	17.7	0.0		
Feb 16	20.2	0.0		
Feb 17	20.5	0.0		
Feb 18	19.7	0.0		
Feb 19	17.1	0.0		
Feb 20	19.3	0.0		
Feb 21	18.5	0.0		
Feb 22	21.0	0.0		
Feb 23	17.1	0.0		
Feb 24	17.3	0.0		
Feb 25	20.6	0.0		
Feb 26	16.1	0.0		
Feb 27	16.6	0.0		
Feb 28	22.0	0.0		

AVG 20.7 0.0

MARCH				
DATE	DISCH	SPILL	TURBIDITY	
	KCFS	KCFS	SECCHI	DEG F
Mar 1	16.8	0.0	6.0	41.0
Mar 2	21.2	0.0	6.0	41.0
Mar 3	21.1	0.0	6.0	41.0
Mar 4	14.9	0.0	6.0	40.0
Mar 5	19.2	0.0	6.0	40.0
Mar 6	20.6	0.0	6.0	40.0
Mar 7	21.3	0.0	6.0	40.0
Mar 8	22.7	0.0	6.0	40.0
Mar 9	18.4	0.0	6.0	41.0
Mar 10	25.7	0.0	6.0	41.0
Mar 11	16.3	0.0	6.0	42.0
Mar 12	19.6	0.0	6.0	42.0
Mar 13	20.8	0.0	6.0	42.0
Mar 14	22.1	0.0	6.0	41.0
Mar 15	23.9	0.0	6.0	41.0
Mar 16	26.8	0.0	6.0	45.0
Mar 17	19.4	0.0	6.0	45.0
Mar 18	26.0	0.0	6.0	46.0
Mar 19	22.7	0.0	6.0	46.0
Mar 20	26.2	0.0	6.0	46.0
Mar 21	22.3	0.0	6.0	46.0
Mar 22	22.6	0.0	*	46.0
Mar 23	25.6	0.0	6.0	46.0
Mar 24	20.1	0.0	6.0	46.0
Mar 25	21.8	0.0	5.0	46.0
Mar 26	24.3	0.0	5.0	46.0
Mar 27	25.0	0.0	5.0	46.0
Mar 28	34.7	0.0	5.0	46.0
Mar 29	48.0	0.0	2.0	42.0
Mar 30	43.5	0.0	2.0	41.0
Mar 31	41.6	0.0	2.0	41.0

AVG 24.4 0.0 5.5 43.0

*Data Unavailable

TABLE 94

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

LOWER MONUMENTAL PROJECT
APRIL 2005

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Apr 1	0			0				49	24		0	38.9	0.0	2.0	46.0
Apr 2	0			0				43	16		0	38.2	0.0	2.0	45.0
Apr 3	0			0				37	14		0	36.1	0.0	2.0	45.0
Apr 4	0			0				23	8		0	33.9	0.0	2.5	45.0
Apr 5	0			0				27	14		0	41.1	0.0	2.3	45.0
Apr 6	0			0				61	26		0	42.9	0.0	3.0	45.0
Apr 7	0			0				56	29		0	37.7	0.0	3.0	45.0
Apr 8	0			0				24	6		0	36.3	0.0	4.0	45.0
Apr 9	0			0				40	16		0	42.8	0.0	3.0	47.0
Apr 10	0			0				29	8		0	40.4	0.0	3.5	49.0
Apr 11	1			0				28	8		0	47.0	0.0	3.5	50.0
Apr 12	1			0				11	3		0	37.1	0.0	4.0	50.0
Apr 13	1			0				15	3		0	38.0	0.0	3.8	50.0
Apr 14	0			0				24	9		0	39.1	0.0	3.0	50.0
Apr 15	0			0				17	8		0	39.5	0.0	4.0	50.0
Apr 16	0			0				22	15		0	35.7	0.0	4.0	50.0
Apr 17	4			0				23	18		0	37.7	0.0	4.2	49.0
Apr 18	1			0				28	12		0	45.0	0.0	4.2	49.0
Apr 19	0			0				16	11		0	43.3	0.0	4.0	49.0
Apr 20	1			0				24	15		0	43.5	0.0	4.1	49.0
Apr 21	12			0				17	13		0	41.3	0.0	4.3	49.0
Apr 22	7			0				27	16		0	39.6	0.0	4.0	50.0
Apr 23	21			0				18	16		0	39.8	0.0	3.6	50.0
Apr 24	36			0				13	7		0	41.9	0.0	4.0	50.0
Apr 25	36			0				15	15		0	45.9	0.0	3.5	51.0
Apr 26	58			0				22	14		1	47.9	0.0	4.3	52.0
Apr 27	164			1				18	11		0	52.7	0.0	4.1	52.0
Apr 28	183			0				26	18		0	55.1	0.0	4.3	52.0
Apr 29	171			0				15	8		0	54.9	0.0	4.2	52.0
Apr 30	476			0				15	13		0	54.1	2.7	4.5	52.0
TOTAL	1,173			1				783	394		1				
AVG.	39			0				26	13			42.2	0.1	3.6	48.8

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 2005

FISH COUNTS											RIVER CONDITIONS				
DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
May 1	572			1				12	5		0	51.6	0.0	4.8	53.0
May 2	229			0				8	7		0	47.7	3.8	4.5	52.0
May 3	390			6				6	6		0	46.1	0.0	4.8	52.0
May 4	1,707			27				18	17		1	49.4	0.0	5.0	52.0
May 5	1,383			1				6	2		0	60.4	0.0	4.8	53.0
May 6	1,054			5				5	3		1	67.0	0.0	5.2	53.0
May 7	1,031			8				14	10		1	79.4	3.1	4.8	53.0
May 8	646			6				9	6		1	82.4	0.0	3.8	53.0
May 9	415			4				6	0		-2	77.6	6.2	0.5	53.0
May 10	1,096			24				7	5		0	91.3	6.2	0.5	53.0
May 11	1,357			19				7	4		0	98.9	13.5	1.8	52.0
May 12	918			33				3	2		0	88.7	4.0	1.3	52.0
May 13	691			11				2	1		2	85.1	1.5	1.5	53.0
May 14	756			29				2	2		1	84.6	0.0	2.3	53.0
May 15	298			12				6	2		2	83.9	0.0	3.5	53.0
May 16	312			11				0	0		1	91.7	7.6	3.7	53.0
May 17	221			8				0	0		1	124.1	37.9	3.3	53.0
May 18	194			12				4	4		1	121.8	35.8	2.4	53.0
May 19	335			14				6	1		1	118.7	33.6	1.5	53.0
May 20	224			22				1	1		0	135.3	48.6	2.1	52.0
May 21	387			24				4	2		0	138.0	51.6	2.0	53.0
May 22	275			17				0	0		1	125.6	39.9	2.0	54.0
May 23	236			32				0	0		0	122.8	37.2	2.1	54.0
May 24	329			25				2	1		0	116.2	30.3	1.8	54.0
May 25	364			28				6	2		0	100.9	15.8	2.0	53.0
May 26	325			29				8	1		1	98.8	14.0	2.4	54.0
May 27	503			29				3	0		2	89.2	4.7	2.8	56.0
May 28	462			34				11	1		1	87.4	2.7	3.4	56.0
May 29	477			75				5	0		1	84.3	0.0	4.2	56.0
May 30	460			42				6	0		1	81.4	0.0	4.0	56.0
May 31	419			72				14	2		0	79.0	5.0	4.0	56.0
TOTAL	18,066			660				181	87		18				
AVG.	583			21				6	3		1	90.6	13.0	3.0	53.4
RUN YEAR		CHINOOK ADULT	CHINOOK JACK					STEELHEAD	WILD STEELHEAD		LAMPREY				
TOTALS TO DATE		19,239	661					964	481		19				

TABLE 96

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

LOWER MONUMENTAL PROJECT
JUNE 2005

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jun 1	553			39			0	9	0		1	88.7	11.2	3.6	56.0
Jun 2	524			39			0	3	1		1	89.9	8.0	3.8	56.0
Jun 3	620			62			0	6	0		-1	83.8	1.6	3.7	57.0
Jun 4	687			49			0	16	1		0	76.5	0.0	3.8	57.0
Jun 5	584			29			0	7	0		0	74.3	0.0	4.0	57.0
Jun 6	418			21			0	17	5		0	74.0	11.0	3.7	56.0
Jun 7	601			19			0	13	0		1	74.2	16.8	3.8	56.0
Jun 8	757			20			0	24	0		0	62.7	0.0	3.9	56.0
Jun 9	598			10			0	20	2		1	59.9	2.9	4.0	58.0
Jun 10	332			11			0	9	3		0	54.1	0.0	4.3	58.0
Jun 11	355			20			0	12	0		0	51.6	0.0	4.7	57.0
Jun 12	364			14			0	13	1		0	50.3	0.0	4.7	58.0
Jun 13	301			8			0	17	4		2	50.6	0.0	4.8	57.0
Jun 14		331		23			0	18	6		1	50.4	0.0	5.2	57.0
Jun 15		462		32			0	14	1		0	48.3	0.0	4.1	58.0
Jun 16		362		11			0	30	3		0	45.5	0.0	5.3	58.0
Jun 17		384		12			0	28	5		0	46.3	0.0	6.0	58.0
Jun 18		498		21			0	43	6		0	50.7	0.0	6.0	58.0
Jun 19		301		14			0	27	3		0	52.6	0.1	6.0	59.0
Jun 20		226		34			0	42	6		2	55.6	39.2	6.0	59.0
Jun 21		227		29			0	31	7		0	51.5	23.4	5.5	59.0
Jun 22		357		25			0	45	16		1	51.0	18.1	6.0	58.0
Jun 23		374		31			0	48	7		1	51.5	33.9	6.0	59.0
Jun 24		237		30			2	49	12		2	50.0	37.6	6.0	62.0
Jun 25		339		17			1	38	8		0	49.0	23.2	5.5	64.0
Jun 26		242		8			0	60	13		0	43.7	28.0	5.7	66.0
Jun 27		90		23			0	64	11		1	42.5	21.0	5.5	65.0
Jun 28		423		30			0	81	27		0	48.4	18.7	5.7	65.0
Jun 29		476		18			0	135	30		0	60.0	33.9	6.0	65.0
Jun 30		295		11			1	143	33		2	55.6	40.1	6.0	65.0
TOTAL	6,694	5,624		710			4	1,062	211		15				
AVG.	515	331		24			0	35	7		1	58.1	12.3	5.0	59.1

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	25,933	1,002
SUMMER	5,624	369
TOTAL	31,557	1,371

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
4	2,026	692	34

TABLE 97

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

LOWER MONUMENTAL PROJECT
JULY 2005

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	RIVER CONDITIONS			
	SPRING	SUMMER	FALL									DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jul 1		213		18			1	111	21		1	53.1	21.9	3.5	64.0
Jul 2		145		27			1	150	34		0	40.8	21.9	3.5	64.0
Jul 3		152		43			0	134	34		1	36.7	21.2	3.5	64.0
Jul 4		164		25			0	150	45		0	44.9	21.9	3.5	64.0
Jul 5		168		17			1	131	42		1	39.1	17.6	3.5	64.0
Jul 6		158		25			2	148	41		1	42.6	22.8	4.0	68.0
Jul 7		272		38			1	186	59		3	44.2	23.8	4.5	67.0
Jul 8		83		11			2	126	37		1	40.8	23.4	4.5	67.0
Jul 9		136		17			0	195	55		2	40.7	22.8	4.5	68.0
Jul 10		116		14			2	183	59		3	28.4	16.0	4.2	68.0
Jul 11		96		14			2	197	68		1	37.4	22.4	4.2	68.0
Jul 12		95		22			0	210	62		1	37.9	21.5	4.2	68.0
Jul 13		66		13			0	234	77		4	34.9	20.4	4.2	69.0
Jul 14		85		9			0	203	69		0	38.8	22.8	4.0	69.0
Jul 15		75		12			0	254	98		4	32.7	20.0	4.0	69.0
Jul 16		67		12			1	233	87		0	37.9	21.8	4.0	69.0
Jul 17		40		4			0	196	74		1	31.1	16.9	4.0	69.0
Jul 18		46		8			1	170	67		5	34.1	17.7	4.0	69.0
Jul 19		40		1			0	197	75		2	34.2	18.6	4.0	69.0
Jul 20		45		6			0	171	56		4	34.0	20.5	4.0	69.0
Jul 21		14		1			0	90	30		2	37.2	21.4	4.0	69.0
Jul 22		22		5			0	144	49		2	35.4	21.7	4.0	69.0
Jul 23		32		8			0	146	53		1	36.2	21.0	4.0	69.0
Jul 24		36		11			0	182	66		4	29.3	16.1	4.0	69.0
Jul 25		46		14			0	161	60		8	24.9	12.5	4.5	70.0
Jul 26		18		7			0	101	18		2	31.0	18.4	4.5	70.0
Jul 27		22		4			0	113	34		1	26.9	14.4	4.5	70.0
Jul 28		21		1			0	145	21		5	29.5	16.6	4.5	70.0
Jul 29		18		6			0	155	42		2	35.0	22.3	4.6	70.0
Jul 30		20		1			0	174	60		5	36.9	25.4	4.5	70.0
Jul 31		33		4			0	203	59		0	29.0	16.4	4.5	70.0
TOTAL		2,544		398			14	5,193	1,652		67				
AVG.		82		13			0	168	53		2	36.0	20.1	4.1	68.1

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	25,933	1,002
SUMMER	8,168	767
TOTAL	34,101	1,769

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
18	7,219	2,344	101

TABLE 98

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

LOWER MONUMENTAL PROJECT
AUGUST 2005

FISH COUNTS											RIVER CONDITIONS				
DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Aug 1		11		1				145	34		5	30.6	18.2	4.5	70.0
Aug 2		14		0				127	35		6	33.6	21.2	4.5	70.0
Aug 3		23		6				137	51		6	27.8	15.0	4.5	70.0
Aug 4		14		4				107	28		6	24.8	12.4	4.5	70.0
Aug 5		10		4				110	30		4	28.0	15.4	4.5	70.0
Aug 6		18		2				210	58		3	34.4	22.0	4.5	69.0
Aug 7		23		5				238	67		7	31.6	19.4	4.5	69.0
Aug 8		11		1				218	52		1	27.3	14.7	4.5	69.0
Aug 9		6		4				229	55		2	31.4	19.0	4.5	69.0
Aug 10		17		4				263	74		3	25.1	12.5	4.5	69.0
Aug 11		10		4				248	76		4	30.6	18.4	4.5	70.0
Aug 12		18		1				375	102		5	21.8	9.3	4.5	70.0
Aug 13		11		1				292	73		2	22.2	9.8	4.5	70.0
Aug 14			13	5				285	78		6	24.6	12.5	4.5	70.0
Aug 15			14	5				252	75		3	23.1	11.0	4.5	69.0
Aug 16			17	1				173	47		4	21.1	8.7	4.5	69.0
Aug 17			5	2				119	36		0	21.1	8.7	4.5	69.0
Aug 18			18	0				122	26		2	23.9	11.6	4.5	69.0
Aug 19			21	3				268	62		1	19.8	8.2	4.5	69.0
Aug 20			10	0				234	59		0	18.6	9.2	4.5	69.0
Aug 21			17	6				202	59		4	21.0	8.5	4.5	69.0
Aug 22			20	4				114	30		3	15.2	11.4	4.5	69.0
Aug 23			52	3				270	66		1	23.4	11.0	4.5	69.0
Aug 24			27	7				227	70		2	21.0	8.6	4.5	69.0
Aug 25			27	7				276	83		1	20.9	8.6	4.5	69.0
Aug 26			18	4				236	66		0	19.7	9.2	4.5	69.0
Aug 27			39	0				330	60		3	21.1	8.7	4.5	69.0
Aug 28			61	8				305	78		5	19.3	9.1	4.5	69.0
Aug 29			46	7				218	48		0	20.8	8.4	4.2	68.0
Aug 30			114	9				474	94		1	22.5	11.3	4.2	68.0
Aug 31			117	18				641	121		4	17.7	10.1	4.2	68.0
TOTAL		186	636	126				7,445	1,893		94				
AVG.		14	35	4				240	61		3	24.0	12.3	4.5	69.2

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	25,933	1,002
SPRING		
SUMMER	8,354	804
FALL	636	89
TOTAL	34,923	1,895

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
18	14,664	4,237	195

TABLE 99

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

LOWER MONUMENTAL PROJECT
SEPTEMBER 2005

DATE	FISH COUNTS					SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	RIVER CONDITIONS			
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT						COHO JACK	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI
Sep 1			111	8	0	0	988	283		2	20.4	0.0	4.2	69.0
Sep 2			177	11	0	0	906	256		0	25.2	0.0	4.2	68.0
Sep 3			124	17	0	0	767	197		0	20.4	0.0	4.2	68.0
Sep 4			130	15	0	0	852	219		2	17.3	0.0	4.2	68.0
Sep 5			135	15	0	0	1,035	247		0	23.0	0.0	4.2	68.0
Sep 6			196	10	0	0	807	194		0	19.8	0.0	4.2	68.0
Sep 7			221	38	5	0	1,027	289		0	20.8	0.0	4.2	68.0
Sep 8			296	25	1	0	685	173		1	18.0	0.0	4.2	68.0
Sep 9			720	54	6	1	1,380	330		1	15.1	0.0	4.2	68.0
Sep 10			526	49	17	0	1,883	458		1	21.6	0.0	4.2	67.0
Sep 11			425	50	13	0	1,133	263		2	21.3	0.0	4.2	67.0
Sep 12			415	65	16	0	1,414	341		6	22.1	0.0	4.2	67.0
Sep 13			389	61	24	0	1,640	353		0	18.5	0.0	4.2	67.0
Sep 14			411	97	28	0	1,524	343		1	13.7	0.0	4.2	67.0
Sep 15			794	103	19	0	1,757	402		0	13.7	0.0	4.5	66.0
Sep 16			524	67	25	1	2,371	550		0	14.7	0.0	4.5	66.0
Sep 17			288	52	14	0	1,910	456		2	14.4	0.0	4.5	66.0
Sep 18			649	94	37	0	3,616	865		0	12.6	0.0	4.5	66.0
Sep 19			435	81	35	2	3,043	712		0	14.5	0.0	4.5	66.0
Sep 20			542	103	60	1	3,803	928		0	14.3	0.0	4.5	66.0
Sep 21			361	94	53	2	2,710	660		0	15.3	0.0	4.5	65.0
Sep 22			480	92	51	0	3,173	795		2	16.1	0.0	4.5	65.0
Sep 23			390	79	66	1	3,630	845		2	18.9	0.0	4.5	65.0
Sep 24			236	28	36	0	5,170	1,158		-1	15.1	0.0	4.5	65.0
Sep 25			273	32	42	0	4,078	1,029		-1	15.6	0.0	4.5	65.0
Sep 26			215	100	63	0	4,023	892		0	17.8	0.0	4.5	65.0
Sep 27			249	74	41	0	4,113	970		0	19.5	0.0	4.5	65.0
Sep 28			202	87	33	1	3,769	860		0	19.8	0.0	4.5	65.0
Sep 29			269	94	58	1	3,781	894		0	14.9	0.0	4.5	64.0
Sep 30			244	93	43	1	3,713	865		0	15.0	0.0	4.5	63.0
TOTAL			10,427	1,788	786	11	70,701	16,827		20				
AVG.			348	60	26	0	2,357	561		1	17.6	0.0	4.4	66.4

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	25,933	1,002
SUMMER	8,354	804
FALL	11,063	1,877
TOTAL	45,350	3,683

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
786	11	18	85,365	21,064	215

TABLE 100

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

LOWER MONUMENTAL PROJECT
OCTOBER 2005

DATE	FISH COUNTS					SOCKEYE	TOTAL		PINK	LAMPREY	RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT		COHO JACK	STEELHEAD			WILD STEELHEAD	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Oct 1			166	88	40	0		3,354	828		1	16.2	0.0	4.0	63.0
Oct 2			302	125	63	2		4,420	1,056		0	17.0	0.0	4.5	63.0
Oct 3			165	81	75	1		4,323	920		1	21.6	0.0	4.2	63.0
Oct 4			140	71	35	1		3,491	786		0	23.8	0.0	4.0	63.0
Oct 5			132	76	36	0		3,616	805		0	17.9	0.0	4.0	63.0
Oct 6			137	88	33	1		3,574	790		0	21.3	0.0	3.5	62.0
Oct 7			169	95	64	1		3,984	925		0	20.4	0.0	3.5	62.0
Oct 8			158	65	127	0		4,038	861		0	27.1	0.0	3.5	62.0
Oct 9			111	68	153	1		4,667	1,036		0	14.9	0.0	3.5	62.0
Oct 10			99	33	141	1		4,008	1,035		0	19.0	0.0	3.5	62.0
Oct 11			70	35	84	0		3,462	832		0	16.1	0.0	3.5	60.0
Oct 12			69	47	81	5		3,162	785		0	13.8	0.0	3.5	60.0
Oct 13			40	35	56	0		3,187	578		0	15.6	0.0	3.5	60.0
Oct 14			10	11	23	0		1,955	498		0	17.9	0.0	3.5	60.0
Oct 15			24	27	25	1		1,876	420		0	13.4	0.0	3.5	60.0
Oct 16			43	19	30	0		1,606	403		0	17.3	0.0	3.5	60.0
Oct 17			18	22	24	1		2,172	582		0	18.2	0.0	3.5	60.0
Oct 18			8	11	7	0		810	182		0	15.4	0.0	3.5	60.0
Oct 19			26	18	25	1		1,152	293		1	14.8	0.0	3.5	60.0
Oct 20			21	23	26	0		1,464	374		1	16.1	0.0	3.8	59.0
Oct 21			24	18	25	1		1,380	387		0	25.5	0.0	3.8	59.0
Oct 22			30	24	15	0		1,355	346		0	16.1	0.0	4.0	60.0
Oct 23			22	20	22	0		945	234		0	13.8	0.0	4.0	60.0
Oct 24			12	21	10	1		887	204		0	15.3	0.0	4.0	60.0
Oct 25			3	9	5	0		695	162		0	15.4	0.0	4.0	59.0
Oct 26			15	13	7	0		631	144		1	14.7	0.0	4.0	59.0
Oct 27			15	9	10	0		420	104		0	17.1	0.0	4.0	59.0
Oct 28			12	6	8	0		503	126		2	14.5	0.0	3.5	58.0
Oct 29			13	5	5	0		399	99		0	16.1	0.0	3.5	58.0
Oct 30			10	9	18	1		509	139		0	15.8	0.0	3.5	57.0
Oct 31			10	2	6	0		382	108		0	16.8	0.0	3.5	57.0
TOTAL			2,074	1,174	1,279	19		68,427	16,042		7				
AVG.			67	38	41	1		2,207	517		0	17.4	0.0	3.7	60.3

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	25,933	1,002
SUMMER	8,354	804
FALL	13,137	3,051
TOTAL	47,424	4,857

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
2,065	30	18	153,792	37,106	222

TABLE 101

DISCHARGE AND WATER QUALITY DATA
LOWER MONUMENTAL PROJECT 2005

NOVEMBER					DECEMBER				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F	DATE	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Nov 1	17.6	0.0	3.5	57.0	Dec 1	13.5	0.0	5.0	47.0
Nov 2	16.4	0.0	3.5	56.0	Dec 2	13.8	0.0	5.0	46.0
Nov 3	21.3	0.0	3.5	56.0	Dec 3	16.1	0.0	5.0	46.0
Nov 4	20.2	0.0	3.5	56.0	Dec 4	16.6	0.0	5.0	45.0
Nov 5	18.9	0.0	3.5	56.0	Dec 5	16.8	0.0	5.0	45.0
Nov 6	16.5	0.0	3.5	56.0	Dec 6	18.9	0.0	5.0	45.0
Nov 7	17.6	0.0	4.5	56.0	Dec 7	17.9	0.0	5.0	44.0
Nov 8	19.3	0.0	4.5	56.0	Dec 8	15.2	0.0	5.0	44.0
Nov 9	17.8	0.0	4.5	54.0	Dec 9	15.2	0.0	5.0	44.0
Nov 10	26.1	0.0	5.0	54.0	Dec 10	14.5	0.0	5.0	43.0
Nov 11	15.0	0.0	5.0	54.0	Dec 11	10.8	0.0	5.0	43.0
Nov 12	20.4	0.0	5.0	53.0	Dec 12	13.7	0.0	5.0	42.0
Nov 13	18.5	0.0	5.0	52.0	Dec 13	18.1	0.0	5.0	42.0
Nov 14	21.8	0.0	5.0	52.0	Dec 14	20.2	0.0	5.0	42.0
Nov 15	22.2	0.0	5.0	52.0	Dec 15	19.9	0.0	5.0	40.0
Nov 16	16.2	0.0	5.0	52.0	Dec 16	27.5	0.0	5.0	40.0
Nov 17	16.2	0.0	5.0	52.0	Dec 17	19.9	0.0	5.0	40.0
Nov 18	24.6	0.0	5.0	52.0	Dec 18	16.3	0.0	5.0	39.0
Nov 19	15.6	0.0	5.0	52.0	Dec 19	18.1	0.0	5.0	39.0
Nov 20	17.1	0.0	5.0	51.0	Dec 20	19.2	0.0	4.8	39.0
Nov 21	19.7	0.0	5.0	51.0	Dec 21	24.2	0.0	4.5	39.0
Nov 22	18.6	0.0	5.0	51.0	Dec 22	15.3	0.0	4.5	38.0
Nov 23	16.3	0.0	5.0	50.0	Dec 23	20.6	0.0	4.5	38.0
Nov 24	17.4	0.0	5.0	50.0	Dec 24	22.9	0.0	4.5	38.0
Nov 25	17.5	0.0	5.0	49.0	Dec 25	23.3	0.0	4.5	39.0
Nov 26	15.0	0.0	5.0	49.0	Dec 26	22.0	0.0	4.5	39.0
Nov 27	18.5	0.0	5.0	49.0	Dec 27	28.3	0.0	4.5	38.0
Nov 28	32.7	0.0	5.0	48.0	Dec 28	30.5	0.0	4.5	38.0
Nov 29	13.5	0.0	5.0	47.0	Dec 29	61.4	0.0	4.0	38.0
Nov 30	13.6	0.0	5.0	47.0	Dec 30	63.7	0.0	4.0	39.0
					Dec 31	54.0	0.0	4.0	39.0
AVG.	18.7	0.0	4.7	52.3	AVG.	22.9	0.0	4.8	41.2

TABLE 102

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
LOWER MONUMENTAL DAM
1969 - 2005**

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
Total	1,838,818	3,161,461	5,080	25,385	5,030,744
10-Year Average	81,762	143,752	52	900	226,466

*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
1969-2005

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
Total	2		60	334,192	741,320	369,031	142,750	23,039	166,005	60,250	1,487	23	1,838,159
10-Year Average				18,609	28,249	16,613	3,488	927	10,378	3,427			81,796

*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.

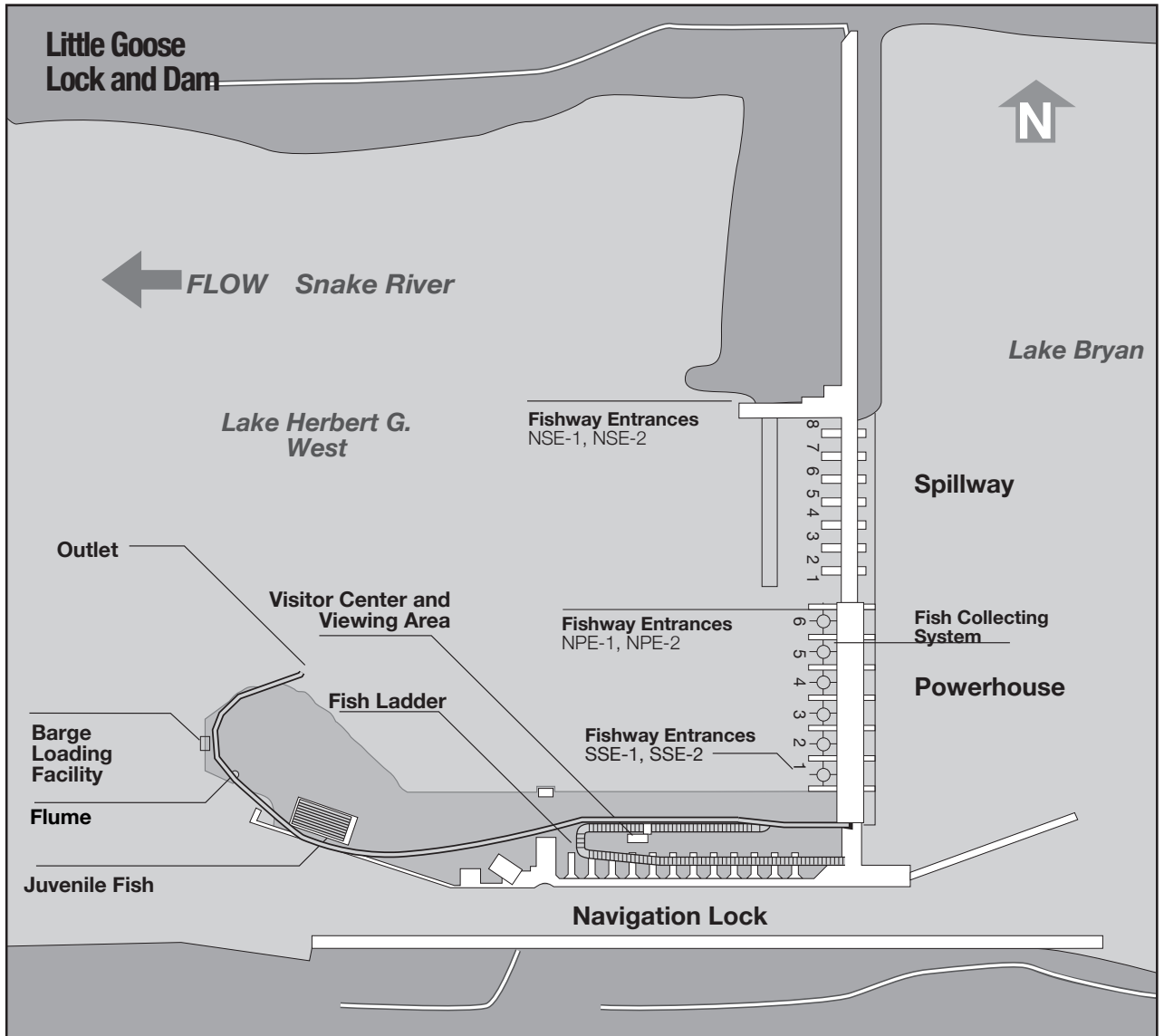
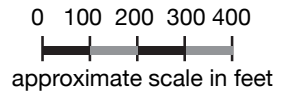
Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST and November and December 0600-1600 PST.

TABLE 104
MONTHLY COUNT OF STEELHEAD
LOWER MONUMENTAL DAM
1969 - 2005

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
Total	4,829	7,610	14,839	84,054	18,752	11,632	133,019	258,703	1,446,293	1,153,527	49,239	14,375	3,196,872
10-Year Average				1,562	102	768	6,670	11,564	67,624	49,229			145,226

Includes 2001 extended season counts for November and December 0600-1600 PST.
Includes 2002 extended season counts for February and March 0800-1600 PST and November and December 0600-1600 PST.
Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST and November and December 0600-1600 PST.

Plate 8 Little Goose Lock and Dam



LITTLE GOOSE DAM

FISH COUNTING SCHEDULE

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

FISH LADDER OPERATING SCHEDULE

Project Ladder

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

FISHWAY ACTIVITIES

Water temperatures were recorded hourly in four locations within the adult fishway from June to September. The purpose of this effort is to determine if thermal barriers exist and take corrective action if needed.

The Walla Walla District completed a hydraulic evaluation of the adult fishway in 2005. The purpose was to analyze existing operating conditions and investigate alternatives to improve fish passage. Operational changes are anticipated.

Weir NSE-2 was out of service from March 14 to the end of the year. Cables on the hoist were entangled with the gears. The weir was manually operated through the season at various depths to provide fish passage. Repair parts arrived September 6 but it was decided to complete the repairs during the 2005-06 winter outage. A similar problem occurred with weir NSE-1 on March 14 but it was fixed by April 27 after pirating parts from NSE-2.

The juvenile fish facility was operated for juvenile fish transport/bypass and adult fallbacks from 17 March to 20 December.

TABLE 105

MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER LITTLE GOOSE DAM
2005

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				599	16,952	11,484	3,638	679	10,362	2,839			46,553
STEELHEAD				896	128	494	2,528	5,165	62,611	71,715			143,537
SOCKEYE						2	11						13
COHO									742	1,250			1,992
PINK													0
TOTAL				1,495	17,080	11,980	6,177	5,844	73,715	75,804			192,095
SHAD													0
LAMPREY					6	22	74	64	35	10			211

*Jacks included

TABLE 106

DISCHARGE AND WATER QUALITY DATA
LITTLE GOOSE PROJECT 2005

JANUARY				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F
Jan 1	21.1	0.0		
Jan 2	20.1	0.0		
Jan 3	24.6	0.0		
Jan 4	17.5	0.0		
Jan 5	20.9	0.0		
Jan 6	24.5	0.0		
Jan 7	30.7	0.0		
Jan 8	14.8	0.0		
Jan 9	10.1	0.0		
Jan 10	22.4	0.0		
Jan 11	21.3	0.0		
Jan 12	18.2	0.0		
Jan 13	26.6	0.0		
Jan 14	36.4	0.0		
Jan 15	23.1	0.0		
Jan 16	17.4	0.0		
Jan 17	16.4	0.0		
Jan 18	21.5	0.0		
Jan 19	30.7	0.0		
Jan 20	34.0	0.0		
Jan 21	25.9	0.0		
Jan 22	25.2	0.0		
Jan 23	23.3	0.0		
Jan 24	29.6	0.0		
Jan 25	29.9	0.0		
Jan 26	28.8	0.0		
Jan 27	32.3	0.0		
Jan 28	33.7	0.0		
Jan 29	28.9	0.0		
Jan 30	22.0	0.0		
Jan 31	30.0	0.0		

AVG.

24.6	0.0
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FEBRUARY				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F
Feb 1	28.3	0.0		
Feb 2	26.4	0.0		
Feb 3	24.2	0.0		
Feb 4	25.6	0.0		
Feb 5	25.8	0.0		
Feb 6	20.1	0.0		
Feb 7	25.5	0.0		
Feb 8	20.0	0.0		
Feb 9	20.2	0.0		
Feb 10	16.6	0.0		
Feb 11	21.2	0.0		
Feb 12	15.4	0.0		
Feb 13	18.2	0.0		
Feb 14	22.2	0.0		
Feb 15	18.2	0.0		
Feb 16	18.5	0.0		
Feb 17	20.0	0.0		
Feb 18	19.5	0.0		
Feb 19	16.6	0.0		
Feb 20	19.5	0.0		
Feb 21	19.9	0.0		
Feb 22	21.8	0.0		
Feb 23	12.7	0.0		
Feb 24	19.4	0.0		
Feb 25	18.5	0.0		
Feb 26	14.8	0.0		
Feb 27	14.4	0.0		
Feb 28	23.3	0.0		

AVG.

20.2	0.0
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MARCH				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F
Mar 1	16.5	0.0		
Mar 2	22.6	0.0		
Mar 3	21.8	0.0		
Mar 4	14.1	0.0		
Mar 5	16.5	0.0		
Mar 6	21.9	0.0		
Mar 7	21.3	0.0		
Mar 8	24.8	0.0		
Mar 9	18.0	0.0		
Mar 10	27.6	0.0		
Mar 11	16.7	0.0		
Mar 12	18.4	0.0		
Mar 13	19.6	0.0		
Mar 14	25.5	0.0		
Mar 15	23.1	0.0		
Mar 16	27.7	0.0		
Mar 17	19.0	0.0		
Mar 18	25.0	0.0		
Mar 19	23.4	0.0		
Mar 20	26.2	0.0		
Mar 21	23.9	0.0		
Mar 22	24.0	0.0		
Mar 23	27.3	0.0		
Mar 24	21.6	0.0		
Mar 25	17.1	0.0		
Mar 26	24.7	0.0		
Mar 27	25.9	0.0		
Mar 28	39.7	0.0		
Mar 29	53.1	0.0		
Mar 30	43.7	0.0		
Mar 31	41.2	0.0		

AVG.

24.9	0.0
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*All water temperature and turbidity data unavailable.

TABLE 107

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

LITTLE GOOSE PROJECT
APRIL 2005

DATE	FISH COUNTS						RIVER CONDITIONS									
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY		
SPRING	SUMMER	FALL	SECCHI											DEG F		
Apr 1	1			0				48	18			31.8	0.0	4.6	45.0	
Apr 2	1			0				56	17			39.2	0.0	4.6	45.0	
Apr 3	0			0				46	12			34.7	0.0	4.6	45.0	
Apr 4	0			0				36	17			33.1	0.0	4.5	46.0	
Apr 5	0			0				37	16			40.7	0.0	4.6	46.0	
Apr 6	0			0				50	22			40.0	0.0	4.6	46.0	
Apr 7	0			0				49	23			38.1	0.0	4.6	46.0	
Apr 8	0			0				53	12			34.6	0.0	4.5	47.0	
Apr 9	0			0				25	10			41.2	0.0	4.5	47.0	
Apr 10	0			0				30	13			42.1	0.0	4.3	47.0	
Apr 11	0			0				30	13			50.7	0.0	4.4	48.0	
Apr 12	0			0				43	19			48.0	0.0	4.4	48.0	
Apr 13	0			0				38	26			36.9	0.0	4.4	48.0	
Apr 14	1			0				22	10			38.1	0.0	4.6	48.0	
Apr 15	0			0				40	14			39.2	0.0	4.6	48.0	
Apr 16	0			0				20	8			35.2	0.0	4.0	48.0	
Apr 17	0			0				20	10			38.3	0.0	3.9	49.0	
Apr 18	1			0				23	12			43.6	0.0	4.0	49.0	
Apr 19	1			0				19	7			42.8	0.0	4.3	50.0	
Apr 20	1			0				17	6			44.2	0.0	4.4	50.0	
Apr 21	1			0				28	16			43.1	0.0	4.3	50.0	
Apr 22	8			0				18	11			39.4	0.0	4.3	50.0	
Apr 23	2			0				25	16			40.8	0.0	4.4	51.0	
Apr 24	10			0				14	11			41.3	0.0	4.4	51.0	
Apr 25	36			0				24	17			46.4	0.0	4.5	52.0	
Apr 26	28			0				18	13			49.7	0.0	4.6	53.0	
Apr 27	47			0				19	13			53.0	0.0	4.3	53.0	
Apr 28	134			1				25	20			54.9	0.0	4.4	53.0	
Apr 29	146			0				12	11			55.8	0.0	4.4	53.0	
Apr 30	180			0				11	7			53.4	0.0	4.5	53.0	
TOTAL	598			1				896	420							
AVG.	20			0				30	14			42.3	0.0	4.4	48.8	

TABLE 108

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

LITTLE GOOSE PROJECT
MAY 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
May 1	436			0				6	5		0	53.6	0.0	4.5	53.0
May 2	420			0				16	11		0	47.8	0.0	4.6	54.0
May 3	355			0				8	7		0	48.1	0.0	4.6	54.0
May 4	338			0				4	2		0	47.8	0.0	4.6	54.0
May 5	1,252			0				11	7		0	60.5	0.0	4.7	55.0
May 6	898			2				4	2		0	65.5	0.0	4.8	55.0
May 7	1,214			10				10	6		0	79.7	0.0	4.9	54.0
May 8	1,010			11				6	4		0	82.5	0.0	4.0	54.0
May 9	542			5				11	6		0	78.5	0.0	4.0	54.0
May 10	554			5				1	1		0	89.6	0.0	5.1	54.0
May 11	611			11				5	1		0	97.9	0.0	1.2	53.0
May 12	934			7				0	0		0	88.5	0.0	1.1	53.0
May 13	827			10				4	1		4	85.0	0.0	1.2	54.0
May 14	998			13				4	1		1	84.8	0.0	1.2	54.0
May 15	618			29				2	1		0	84.0	0.0	1.9	54.0
May 16	296			16				2	1		0	89.2	0.0	1.9	53.0
May 17	275			10				4	1		0	121.8	13.5	2.2	53.0
May 18	366			11				1	0		0	115.8	6.7	2.4	54.0
May 19	286			20				0	0		0	112.6	5.5	2.8	54.0
May 20	270			10				0	0		0	129.1	18.6	2.5	54.0
May 21	192			17				0	0		0	134.1	24.1	2.0	54.0
May 22	389			28				0	0		0	120.2	23.1	2.0	54.0
May 23	326			38				0	0		0	118.4	9.5	2.1	54.0
May 24	199			36				0	0		0	111.9	2.0	2.1	54.0
May 25	211			26				2	0		0	98.2	0.0	2.0	54.0
May 26	196			25				1	1		0	97.1	0.0	2.0	54.0
May 27	494			24				2	0		0	88.4	0.0	2.0	54.0
May 28	408			37				4	0		1	86.0	0.0	2.0	54.0
May 29	497			30				7	2		0	85.8	0.0	2.1	55.0
May 30	458			43				6	0		0	81.5	0.0	2.2	55.0
May 31	559			49				7	0		0	77.7	0.0	2.4	55.0
TOTAL	16,429			523				128	60		6				
AVG.	530			17				4	2		0	89.1	3.3	2.8	54.0
RUN YEAR															
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK					STEELHEAD	WILD STEELHEAD		LAMPREY				
SPRING		17,027	524					1,024	480		6				

TABLE 109

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

LITTLE GOOSE PROJECT
JUNE 2005

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL												
Jun 1	430			49			0	6	1		0	86.0	1.0	3.0	56.0
Jun 2	389			30			0	7	0		0	89.1	0.0	3.3	56.0
Jun 3	619			31			0	10	4		5	84.7	0.0	3.8	56.0
Jun 4	580			32			0	5	4		0	75.2	0.0	4.0	57.0
Jun 5	511			22			0	7	0		4	73.8	0.0	4.0	57.0
Jun 6	535			22			0	5	0		0	72.8	0.0	4.3	58.0
Jun 7	408			24			0	8	1		1	70.6	0.0	3.5	57.0
Jun 8	668			22			0	12	0		1	62.0	0.0	5.0	58.0
Jun 9	592			22			0	5	0		0	60.7	0.0	5.0	58.0
Jun 10	590			34			0	13	1		0	54.1	0.0	4.3	58.0
Jun 11	311			16			0	8	0		0	50.4	0.0	4.1	57.0
Jun 12	343			35			0	7	0		0	49.0	0.0	4.2	57.0
Jun 13	386			25			0	5	0		0	51.2	0.0	4.2	58.0
Jun 14	287			19			0	12	0		0	51.5	0.0	4.3	58.0
Jun 15	319			16			0	16	5		0	47.3	0.0	4.4	58.0
Jun 16		280		44			0	8	2		0	43.9	0.0	4.8	60.0
Jun 17		417		15			0	13	2		0	45.3	0.0	4.8	60.0
Jun 18		352		16			0	9	3		0	50.9	0.0	4.8	60.0
Jun 19		403		13			0	31	4		1	53.7	0.0	4.3	60.0
Jun 20		65		12			0	8	2		2	51.8	36.7	4.5	61.0
Jun 21		88		18			0	10	1		0	49.6	33.5	4.5	61.0
Jun 22		54		13			0	16	5		1	51.8	33.5	4.8	61.0
Jun 23		112		19			0	14	2		1	51.2	38.0	4.8	62.0
Jun 24		61		20			0	24	7		1	47.1	34.6	4.8	63.0
Jun 25		41		6			0	28	7		0	50.6	35.5	4.5	63.0
Jun 26		56		18			2	25	11		2	43.8	31.6	5.0	63.0
Jun 27		52		11			0	19	7		0	44.0	28.7	4.8	63.0
Jun 28		56		14			0	13	6		1	49.0	30.6	4.5	63.0
Jun 29		154		32			0	52	14		1	58.7	30.5	4.8	64.0
Jun 30		1,585		90			0	98	30		1	53.3	23.8	50.0	64.0
TOTAL	6,968	3,776		740			2	494	119		22				
AVG.	465	252		25			0	16	4		1	57.4	11.9	5.9	59.6
RUN YEAR															
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK				SOCKEYE	STEELHEAD	WILD STEELHEAD		LAMPREY				
SPRING		23,995	923				2	1,518	599		28				
SUMMER		3,776	341												
TOTALS		27,771	1,264												

TABLE 110

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

LITTLE GOOSE PROJECT
JULY 2005

FISH COUNTS											RIVER CONDITIONS				
DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Jul 1		806		70			2	92	25		1	53.4	17.8	*	64.4
Jul 2		349		44			0	97	27		1	41.7	17.4	*	65.1
Jul 3		189		25			2	81	26		1	39.6	17.4	*	65.8
Jul 4		142		32			0	38	13		0	43.8	17.9	5.5	66.4
Jul 5		57		13			0	45	13		1	41.1	17.5	5.7	65.8
Jul 6		142		22			1	92	37		1	44.1	18.7	5.3	65.7
Jul 7		192		39			0	90	24		1	46.6	19.2	6.0	66.0
Jul 8		178		57			0	115	30		2	41.4	17.2	4.9	66.7
Jul 9		103		20			0	75	24		2	40.5	17.3	5.6	67.1
Jul 10		86		27			0	69	20		0	31.0	13.0	5.5	67.3
Jul 11		55		4			0	55	19		0	38.5	16.1	5.7	67.1
Jul 12		52		21			0	105	43		0	38.3	15.8	5.7	67.1
Jul 13		94		34			0	104	31		6	37.0	15.3	5.8	66.7
Jul 14		44		12			0	87	24		6	40.3	16.8	5.1	67.5
Jul 15		39		7			0	72	26		3	33.4	13.7	5.0	68.4
Jul 16		79		15			0	93	36		2	38.9	16.5	5.5	68.2
Jul 17		78		10			1	90	28		3	34.9	15.4	5.5	67.8
Jul 18		26		12			0	78	26		2	34.2	13.5	5.0	68.0
Jul 19		44		10			0	91	28		0	34.7	14.4	5.7	67.6
Jul 20		46		9			1	152	62		2	36.3	14.6	4.9	67.6
Jul 21		41		12			1	80	32		4	37.4	15.5	6.0	68.0
Jul 22		12		18			1	41	16		5	33.7	13.6	6.0	68.2
Jul 23		20		13			0	55	17		5	35.6	13.9	6.0	67.6
Jul 24		16		6			0	59	20		0	28.7	11.4	*	68.0
Jul 25		40		10			0	72	22		2	28.3	10.9	*	67.6
Jul 26		30		10			2	91	36		6	32.3	12.9	6.0	67.8
Jul 27		11		11			0	98	36		0	28.9	11.8	*	68.4
Jul 28		19		5			0	92	40		5	32.3	13.6	6.0	67.3
Jul 29		30		16			0	68	24		4	35.2	15.0	*	67.3
Jul 30		16		4			0	108	36		5	36.6	15.4	*	67.8
Jul 31		7		7			0	43	11		4	31.4	13.1	*	68.7
TOTAL		3,043		595			11	2,528	852		74				
AVG.		98		19			0	82	27		2	37.1	15.2	5.6	67.2

RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	LAMPREY	
	SPRING	23,995	923	13	4,046	1,451	102
	SUMMER	6,819	936				
TOTAL	30,814	1,859					

*Data unavailable.

TABLE 111

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

LITTLE GOOSE PROJECT
AUGUST 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Aug 1		17		10				90	26		6	32.8	13.2	*	68.0
Aug 2		13		2				100	35		5	34.2	14.4	*	67.3
Aug 3		17		2				110	38		1	28.5	11.4	*	69.3
Aug 4		16		4				84	32		2	29.1	10.6	6.0	67.8
Aug 5		7		4				85	26		1	30.6	12.8	6.0	66.6
Aug 6		5		0				92	32		0	36.2	15.5	6.0	67.3
Aug 7		8		5				121	34		5	33.8	14.0	6.0	66.9
Aug 8		13		1				104	42		2	28.9	12.4	6.0	66.6
Aug 9		11		4				211	86		2	32.6	12.7	6.0	67.3
Aug 10		14		0				160	53		2	27.1	10.7	6.0	66.6
Aug 11		14		2				323	104		4	30.4	11.4	6.0	66.6
Aug 12		4		2				220	59		0	23.8	9.9	6.0	66.7
Aug 13		7		2				222	64		2	25.5	9.6	6.0	68.4
Aug 14		12		0				155	42		2	25.4	9.6	6.0	67.5
Aug 15		10		0				113	18		0	24.7	8.9	6.0	67.1
Aug 16			11	6				169	47		2	21.9	7.2	6.0	66.7
Aug 17			25	0				133	35		0	22.5	7.8	6.0	65.7
Aug 18			10	2				114	31		0	26.0	10.2	6.0	66.4
Aug 19			11	4				197	67		1	22.5	8.1	6.0	66.7
Aug 20			13	2				102	30		4	20.2	8.2	6.0	66.6
Aug 21			12	0				110	29		1	21.6	7.4	6.0	66.7
Aug 22			8	4				62	17		0	19.6	9.3	6.0	66.4
Aug 23			14	1				121	32		5	21.8	9.0	6.0	65.5
Aug 24			35	6				136	34		0	20.8	7.0	6.0	65.3
Aug 25			17	8				149	42		6	22.6	8.3	6.0	66.7
Aug 26			26	5				244	71		1	21.0	7.6	6.0	66.4
Aug 27			30	1				188	65		4	22.1	7.8	6.0	66.4
Aug 28			25	1				188	48		2	21.2	7.6	6.0	65.5
Aug 29			42	4				330	72		0	21.5	8.0	5.7	63.7
Aug 30			62	5				398	88		0	20.7	7.2	6.0	65.5
Aug 31			77	6				334	62		4	20.4	6.9	6.0	66.0
TOTAL		168	418	93				5,165	1,461		64				
AVG.		11	26	3				167	47		2	25.5	9.8	6.0	66.7

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	23,995	923
SUMMER	6,987	974
FALL	418	55
TOTALS	31,400	1,952

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
13	9,211	2,912	166

*Data unavailable.

TABLE 112

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

LITTLE GOOSE PROJECT
SEPTEMBER 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Sep 1			116	11	0	0		535	130		1	21.9	0.1	6.0	66.5
Sep 2			67	7	0	0		551	131		2	22.5	0.0	6.0	66.6
Sep 3			128	8	0	0		694	121		1	21.6	0.0	5.2	65.7
Sep 4			103	16	0	0		867	215		1	17.2	0.0	5.9	65.7
Sep 5			106	25	0	0		1,019	229		1	21.5	0.0	6.0	65.1
Sep 6			92	23	0	0		734	184		1	19.7	0.0	6.0	65.6
Sep 7			130	22	0	0		964	242		2	21.6	0.0	6.0	65.0
Sep 8			157	24	0	0		690	168		4	20.9	0.0	6.0	65.5
Sep 9			395	46	0	0		835	196		2	19.2	0.0	6.0	65.1
Sep 10			470	36	5	0		992	200		1	21.0	0.0	6.0	64.8
Sep 11			649	44	17	0		1,728	432		1	20.7	0.0	5.0	64.6
Sep 12			228	26	12	0		815	210		0	21.4	0.0	5.4	64.6
Sep 13			468	82	2	0		1,662	384		1	18.4	0.0	5.6	64.5
Sep 14			245	46	10	5		1,657	322		-1	14.2	0.0	5.3	64.8
Sep 15			450	79	43	12		1,774	368		6	14.0	0.0	4.2	63.7
Sep 16			523	73	18	2		1,762	397		1	13.4	0.0	6.0	63.3
Sep 17			290	42	13	4		1,590	311		1	13.4	0.0	5.1	63.3
Sep 18			325	40	34	2		1,918	328		1	13.0	0.0	5.9	63.1
Sep 19			556	66	47	7		2,736	535		2	14.8	0.0	5.2	63.1
Sep 20			472	92	73	10		3,792	824		0	13.0	0.0	6.0	63.1
Sep 21			402	71	40	5		2,706	608		0	14.0	0.0	5.7	63.1
Sep 22			347	66	61	2		3,316	708		0	16.0	0.0	5.0	63.0
Sep 23			481	86	50	0		3,797	823		1	18.8	0.0	5.0	62.4
Sep 24			294	82	43	1		2,674	631		0	15.6	0.0	5.5	61.9
Sep 25			284	61	28	0		3,733	716		0	13.9	0.0	5.7	61.9
Sep 26			264	61	47	4		4,229	799		1	17.9	0.0	5.8	61.7
Sep 27			347	70	58	1		4,182	824		1	18.9	0.0	5.7	61.9
Sep 28			172	40	44	2		4,104	812		0	19.0	0.0	5.7	61.5
Sep 29			284	40	23	5		4,546	994		2	14.8	0.0	5.5	61.7
Sep 30			86	46	12	0		2,009	402		2	15.1	0.0	5.5	61.3
TOTAL			8,931	1,431	680	62		62,611	13,244		35				
AVG.			298	48	23	2		2,087	441		1	17.6	0.0	5.6	63.8

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	23,995	923
SUMMER	6,987	974
FALL	9,349	1,486
TOTALS	40,331	3,383

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD
680	62	13	71,822	16,156

LAMPREY
201

TABLE 113

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

LITTLE GOOSE PROJECT
OCTOBER 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Oct 1			209	55	46	0		3,613	802		0	14.7	0.0	4.9	61.5
Oct 2			181	49	35	4		4,117	900		2	16.1	0.0	5.9	61.3
Oct 3			166	49	41	1		3,451	689		0	21.2	0.0	6.0	61.2
Oct 4			184	64	49	1		3,674	718		0	22.7	0.0	6.0	60.8
Oct 5			143	64	43	2		4,111	761		1	17.4	0.0	6.0	60.4
Oct 6			148	23	38	0		4,051	780		0	20.1	0.0	6.0	60.6
Oct 7			79	26	34	2		3,613	764		0	20.2	0.0	6.0	60.4
Oct 8			157	29	53	1		3,744	804		0	25.1	0.0	6.0	59.7
Oct 9			119	31	72	0		3,096	635		1	14.6	0.0	6.0	60.3
Oct 10			67	13	101	1		3,316	656		1	18.4	0.0	6.0	59.7
Oct 11			66	22	100	0		2,982	602		1	15.4	0.0	5.9	59.9
Oct 12			55	28	142	1		4,630	1048		1	13.4	0.0	6.0	59.5
Oct 13			30	10	42	0		2,141	414		0	15.4	0.0	6.0	59.9
Oct 14			101	55	108	0		3,876	901		2	17.3	0.0	6.0	59.5
Oct 15			49	34	73	0		3,371	745		0	12.9	0.0	6.0	59.7
Oct 16			37	26	41	0		2,624	581		1	17.1	0.0	6.0	59.4
Oct 17			62	37	36	0		2,058	484		0	17.5	0.0	6.0	59.7
Oct 18			34	17	26	0		1,961	397		0	14.8	0.0	6.0	59.5
Oct 19			11	1	7	0		1,079	208		0	14.4	0.0	6.0	59.4
Oct 20			18	11	11	0		1,187	188		0	16.0	0.0	5.8	59.2
Oct 21			14	17	28	0		1,620	354		0	22.6	0.0	6.0	58.8
Oct 22			17	20	14	1		1,178	258		0	14.0	0.0	6.0	58.8
Oct 23			18	14	25	0		1,356	322		0	14.5	0.0	5.6	58.5
Oct 24			23	28	24	2		1,112	242		0	15.3	0.0	6.0	58.5
Oct 25			24	16	16	0		826	175		0	14.6	0.0	6.0	58.1
Oct 26			7	6	5	0		535	108		0	14.0	0.0	6.0	58.1
Oct 27			7	13	10	0		461	91		0	15.1	0.0	6.0	57.7
Oct 28			10	4	1	0		595	110		0	15.7	0.0	6.0	57.6
Oct 29			13	12	6	0		557	122		0	15.4	0.0	6.0	57.4
Oct 30			7	1	2	0		430	76		0	16.6	0.0	5.9	57.0
Oct 31			6	2	4	1		350	66		0	16.6	0.0	6.0	56.8

TOTAL			2,062	777	1,233	17		71,715	15,001		10					
AVG.			67	25	40	1		2,313	484		0	16.7	0.0	5.9	59.3	

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	23,995	923
SUMMER	6,987	974
FALL	11,411	2,263
TOTALS	42,393	4,160

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
1,913	79	13	143,537	31,157	211

TABLE 114

DISCHARGE AND WATER QUALITY DATA
LITTLE GOOSE PROJECT 2005

NOVEMBER					DECEMBER				
DATE	DISCH KCFS	SPILL KCFS	TURBIDITY		DATE	DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F				SECCHI	DEG F
Nov 1	18.0	0.0	6.0	57.9	Dec 1	14.2	0.0	*	*
Nov 2	15.4	0.0	*	*	Dec 2	13.4	0.0	*	*
Nov 3	20.0	0.0	*	*	Dec 3	17.4	0.0	*	*
Nov 4	18.1	0.0	*	*	Dec 4	16.0	0.0	6.0	45.5
Nov 5	18.9	0.0	*	*	Dec 5	16.0	0.0	*	*
Nov 6	16.5	0.0	6.0	57.5	Dec 6	17.7	0.0	*	*
Nov 7	16.5	0.0	*	*	Dec 7	17.0	0.0	6.0	44.3
Nov 8	18.8	0.0	*	*	Dec 8	14.3	0.0	*	*
Nov 9	18.3	0.0	*	*	Dec 9	13.1	0.0	*	*
Nov 10	22.7	0.0	*	*	Dec 10	12.9	0.0	*	*
Nov 11	16.9	0.0	*	*	Dec 11	11.8	0.0	6.0	42.7
Nov 12	18.7	0.0	*	*	Dec 12	13.8	0.0	*	*
Nov 13	17.4	0.0	6.0	53.2	Dec 13	17.4	0.0	*	*
Nov 14	20.8	0.0	*	*	Dec 14	19.2	0.0	*	*
Nov 15	21.7	0.0	*	*	Dec 15	18.8	0.0	6.0	42.0
Nov 16	15.7	0.0	6.0	51.9	Dec 16	24.7	0.0	*	*
Nov 17	15.8	0.0	*	*	Dec 17	21.2	0.0	*	*
Nov 18	22.1	0.0	*	*	Dec 18	15.2	0.0	6.0	39.8
Nov 19	16.1	0.0	*	*	Dec 19	16.8	0.0	*	*
Nov 20	16.6	0.0	6.0	50.3	Dec 20	20.2	0.0	*	*
Nov 21	20.1	0.0	*	*	Dec 21	22.0	0.0	6.0	40.0
Nov 22	16.8	0.0	6.0	49.8	Dec 22	14.6	0.0	6.0	39.0
Nov 23	16.0	0.0	*	*	Dec 23	20.4	0.0	*	*
Nov 24	16.1	0.0	*	*	Dec 24	22.4	0.0	*	*
Nov 25	17.1	0.0	*	*	Dec 25	22.2	0.0	*	*
Nov 26	14.8	0.0	*	*	Dec 26	21.4	0.0	*	*
Nov 27	18.2	0.0	6.0	48.1	Dec 27	26.1	0.0	*	*
Nov 28	27.5	0.0	*	*	Dec 28	29.0	0.0	*	*
Nov 29	13.0	0.0	*	*	Dec 29	55.5	0.0	*	*
Nov 30	13.4	0.0	6.0	47.2	Dec 30	60.0	0.0	*	*
					Dec 31	50.3	0.0	*	*

AVG.	17.9	0.0
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AVG.	21.8	0.0
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*Data Unavailable

TABLE 115

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
LITTLE GOOSE DAM
1970 - 1981, 1991 - 2005**

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
Total	1,345,416	2,170,540	4,351	17,692	3,537,999
1972-1981					
10-Yr Avg	36,837	32,403	264	530	70,035
1996-2005					
10-Yr Avg	75,929	131,903	56	720	208,607

*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, 1991-2005

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
Total		3		230,122	547,312	287,955	118,093	14,404	106,196	40,015	1,732	28	1,345,860

**1972-1981

10-Year Average		5,003		18,657		6,421		4,851		498		981		421		36,837
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**1996-2005

10-Year Average		16,232		27,631		16,211		3,756		652		8,218		3,157		75,973
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**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.

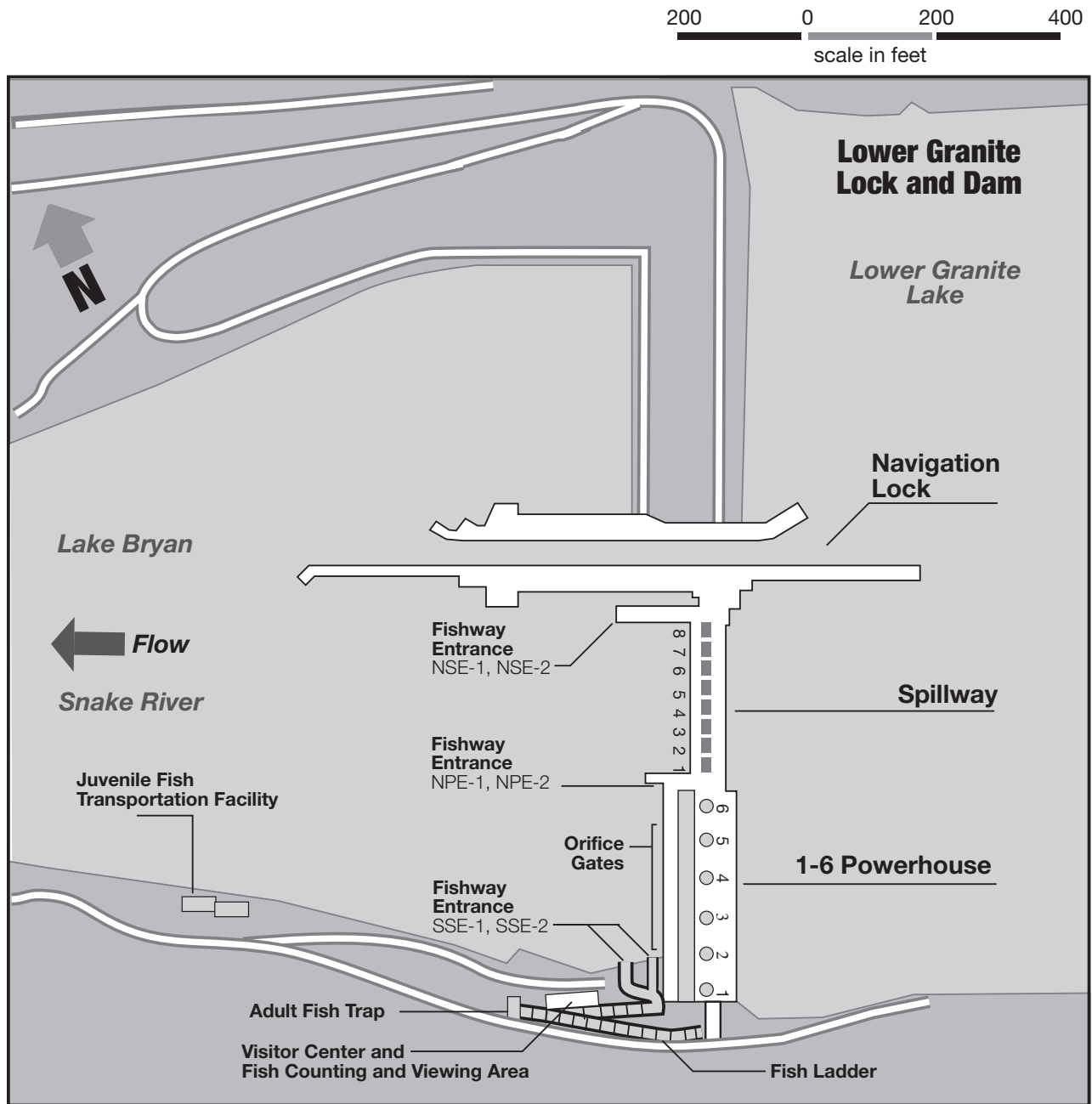
Includes 2003 and 2004 extended season counts for January, February, and March 0800-1600 PST and November and December 0600-1600 PST.

TABLE 117
MONTHLY COUNT OF STEELHEAD
LITTLE GOOSE DAM
1970 - 1981, 1991 - 2005

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
Total	1,084	5,065	19,305	44,649	10,095	6,054	58,861	142,702	922,858	893,004	68,316	13,704	2,185,697
1972-1981													
10-Year Average				1,564	445	63	1,097	3,225	12,337	12,898			32,402
1996-2005													
10-Year Average				1,815	139	435	3,572	8,255	59,311	53,423			133,420

** 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 24 hours per day.
1 Nov – 15 Dec	Video counting daily 0600-1600 hours PST.
16 Dec – 31 Dec	No counting.

FISH LADDER OPERATING SCHEDULE

Project Ladder

1 Jan – 2 Jan	Ladder in service.
3 Jan – 24 Feb	Ladder dewatered for annual maintenance.
25 Feb – 31 Dec	Ladder in service.

FISHWAY ACTIVITIES

Water temperatures were recorded hourly in four locations within the adult fishway from June to September. The purpose of this effort is to determine if thermal barriers exist and take corrective action if needed.

The Walla Walla District completed a hydraulic evaluation of the adult fishway in 2005. The purpose was to analyze existing operating conditions and investigate alternatives to improve fish passage. Operational and possibly structural changes are anticipated.

The gearbox for AWS pump 3 was replaced in August and September.

The adult fish trap was operated from March through November. The trap was shut down during part of the summer due to high water temperatures. The trap was used for the following studies: 1) sampling 13% of the fall Chinook for run reconstruction by WDFW, 2) sampling 13% of the wild/natural steelhead for run reconstruction by IDFG, 3) collecting fall Chinook broodstock for the Lyons Ferry Hatchery and Nez Perce Tribal Hatchery, 4) radio-tagging unlisted hatchery steelhead and scale sampling for run composition analysis by USFWS, and 5) using the separation-by-code system for fall Chinook as part of an early life history study by NMFS.

The juvenile fish facility was operated for juvenile fish transport/bypass and adult fallbacks from 23 March to 21 December.

TABLE 118

**MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER LOWER GRANITE DAM
MARCH 1 THROUGH DECEMBER 15, 2005**

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				327	17,557	11,709	5,320	445	11,295	2,767	105	5	49,530
STEELHEAD			3,479	1,204	180	433	2,156	3,315	57,231	79,926	6,882	977	155,783
SOCKEYE						8	10						18
COHO*									604	1,485	94		2,183
PINK													0
TOTAL			3,479	1,531	17,737	12,150	7,486	3,760	69,130	84,178	7,081	982	207,514
SHAD					22	174	13,126	262					13,584
LAMPREY					1	4	13	16	8	0	-2		40

*Jacks included

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

TABLE 119

DISCHARGE AND WATER DATA
LOWER GRANITE PROJECT 2005

	JANUARY				FEBRUARY			
	DISCH KCFS	SPILL KCFS	TURBIDITY		DISCH KCFS	SPILL KCFS	TURBIDITY	
			SECCHI	DEG F			SECCHI	DEG F
Jan 1	21.4	0.0			Feb 1	27.7	0.0	
Jan 2	19.4	0.0			Feb 2	27.3	0.0	
Jan 3	23.1	0.0			Feb 3	23.9	0.0	
Jan 4	18.8	0.0			Feb 4	27.3	0.0	
Jan 5	19.2	0.0			Feb 5	25.0	0.0	
Jan 6	24.4	0.0			Feb 6	21.0	0.0	
Jan 7	30.8	0.0			Feb 7	26.2	0.0	
Jan 8	14.1	0.0			Feb 8	20.0	0.0	
Jan 9	13.4	0.0			Feb 9	20.4	0.0	
Jan 10	21.7	0.0			Feb 10	18.7	0.0	
Jan 11	21.7	0.0			Feb 11	21.3	0.0	
Jan 12	20.8	0.0			Feb 12	15.1	0.0	
Jan 13	26.8	0.0			Feb 13	19.7	0.0	
Jan 14	34.7	0.0			Feb 14	22.1	0.0	
Jan 15	22.0	0.0			Feb 15	17.7	0.0	
Jan 16	20.3	0.0			Feb 16	20.2	0.0	
Jan 17	16.7	0.0			Feb 17	20.5	0.0	
Jan 18	22.9	0.0			Feb 18	19.7	0.0	
Jan 19	29.0	0.0			Feb 19	17.1	0.0	
Jan 20	33.6	0.0			Feb 20	19.3	0.0	
Jan 21	27.3	0.0			Feb 21	18.5	0.0	
Jan 22	25.9	0.0			Feb 22	21.0	0.0	
Jan 23	24.1	0.0			Feb 23	17.1	0.0	
Jan 24	29.4	0.0			Feb 24	17.3	0.0	
Jan 25	29.7	0.0			Feb 25	20.6	0.0	
Jan 26	28.6	0.0			Feb 26	16.1	0.0	
Jan 27	32.6	0.0			Feb 27	16.6	0.0	
Jan 28	32.4	0.0			Feb 28	22.0	0.0	
Jan 29	29.7	0.0						
Jan 30	23.8	0.0						
Jan 31	28.7	0.0						

AVG.

24.7	0.0
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*All water temperature and turbidity data unavailable.

AVG.

20.7	0.0
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TABLE 120

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

LOWER GRANITE PROJECT
MARCH 2005

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Mar 1								12	0			16.8	0.0	6.0	41.0
Mar 2								26	4			21.2	0.0	6.0	41.0
Mar 3								39	7			21.1	0.0	6.0	41.0
Mar 4								115	20			14.9	0.0	6.0	40.0
Mar 5								176	26			19.2	0.0	6.0	40.0
Mar 6								124	17			20.6	0.0	6.0	40.0
Mar 7								96	15			21.3	0.0	6.0	40.0
Mar 8								113	22			22.7	0.0	6.0	40.0
Mar 9								68	19			18.4	0.0	6.0	41.0
Mar 10								73	21			25.7	0.0	6.0	41.0
Mar 11								80	14			16.3	0.0	6.0	42.0
Mar 12								120	36			19.6	0.0	6.0	42.0
Mar 13								193	57			20.8	0.0	6.0	42.0
Mar 14								230	69			22.1	0.0	6.0	41.0
Mar 15								242	58			23.9	0.0	6.0	41.0
Mar 16								166	41			26.8	0.0	6.0	45.0
Mar 17								131	27			19.4	0.0	6.0	45.0
Mar 18								139	37			26.0	0.0	6.0	46.0
Mar 19								216	49			22.7	0.0	6.0	46.0
Mar 20								175	53			26.2	0.0	6.0	46.0
Mar 21								81	27			22.3	0.0	6.0	46.0
Mar 22								87	32			22.6	0.0	*	46.0
Mar 23								60	21			25.6	0.0	6.0	46.0
Mar 24								75	35			20.1	0.0	6.0	46.0
Mar 25								80	22			21.8	0.0	5.0	46.0
Mar 26								117	26			24.3	0.0	5.0	46.0
Mar 27								109	41			25.0	0.0	5.0	46.0
Mar 28								102	30			34.7	0.0	5.0	46.0
Mar 29								96	34			48.0	0.0	2.0	42.0
Mar 30								85	38			43.5	0.0	2.0	41.0
Mar 31								53	16			41.6	0.0	2.0	41.0
TOTAL								3,479	914						
AVG.								112	29			24.4	0.0	5.5	43.0

*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 2005

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Apr 1	0							148	74			38.9	0.0	2.0	46.0
Apr 2	0							100	37			38.2	0.0	2.0	45.0
Apr 3	0							40	13			36.1	0.0	2.0	45.0
Apr 4	0							30	6			33.9	0.0	2.5	45.0
Apr 5	0							36	17			41.1	0.0	2.3	45.0
Apr 6	1							30	14			42.9	0.0	3.0	45.0
Apr 7	0							46	16			37.7	0.0	3.0	45.0
Apr 8	0							52	25			36.3	0.0	4.0	45.0
Apr 9	0							54	20			42.8	0.0	3.0	47.0
Apr 10	0							65	31			40.4	0.0	3.5	49.0
Apr 11	0							47	14			47.0	0.0	3.5	50.0
Apr 12	0							40	20			37.1	0.0	4.0	50.0
Apr 13	0							38	13			38.0	0.0	3.8	50.0
Apr 14	0							49	24			39.1	0.0	3.0	50.0
Apr 15	1							50	28			39.5	0.0	4.0	50.0
Apr 16	0							35	20			35.7	0.0	4.0	50.0
Apr 17	1							26	16			37.7	0.0	4.2	49.0
Apr 18	0							36	19			45.0	0.0	4.2	49.0
Apr 19	0							20	14			43.3	0.0	4.0	49.0
Apr 20	0							28	11			43.5	0.0	4.1	49.0
Apr 21	1							25	18			41.3	0.0	4.3	49.0
Apr 22	1							18	12			39.6	0.0	4.0	50.0
Apr 23	6							19	7			39.8	0.0	3.6	50.0
Apr 24	1							16	11			41.9	0.0	4.0	50.0
Apr 25	4							28	20			45.9	0.0	3.5	51.0
Apr 26	19							18	12			47.9	0.0	4.3	52.0
Apr 27	36							13	8			52.7	0.0	4.1	52.0
Apr 28	28							37	28			55.1	0.0	4.3	52.0
Apr 29	107							24	18			54.9	0.0	4.2	52.0
Apr 30	121							36	22			54.1	2.7	4.5	52.0
TOTAL	327							1,204	588						
AVG.	11							40	20			42.2	0.1	3.6	48.8
RUN YEAR TOTALS TO DATE															
	CHINOOK ADULT	CHINOOK JACK						STEELHEAD	WILD STEELHEAD						
	327	0						4,683	1,502						

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 2005

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
May 1	204			0				14	10	0	0	51.6	0.0	4.8	53.0
May 2	319			0				12	10	0	0	47.7	3.8	4.5	52.0
May 3	348			2				12	6	0	0	46.1	0.0	4.8	52.0
May 4	324			0				12	10	0	0	49.4	0.0	5.0	52.0
May 5	428			0				11	8	0	0	60.4	0.0	4.8	53.0
May 6	1,092			5				6	6	0	0	67.0	0.0	5.2	53.0
May 7	845			4				8	8	0	0	79.4	3.1	4.8	53.0
May 8	1,523			11				10	7	0	0	82.4	0.0	3.8	53.0
May 9	390			0				5	5	0	0	77.6	6.2	0.5	53.0
May 10	937			11				5	1	0	0	91.3	6.2	0.5	53.0
May 11	847			10				11	8	0	0	98.9	13.5	1.8	52.0
May 12	605			14				12	11	0	0	88.7	4.0	1.3	52.0
May 13	798			14				5	4	0	0	85.1	1.5	1.5	53.0
May 14	1,076			23				1	1	0	0	84.6	0.0	2.3	53.0
May 15	872			20				6	4	0	0	83.9	0.0	3.5	53.0
May 16	791			23				4	1	0	0	91.7	7.6	3.7	53.0
May 17	566			23				4	0	0	0	124.1	37.9	3.3	53.0
May 18	484			24				0	0	0	0	121.8	35.8	2.4	53.0
May 19	263			11				1	0	0	0	118.7	33.6	1.5	53.0
May 20	388			32				5	1	0	1	135.3	48.6	2.1	52.0
May 21	302			22				2	0	0	0	138.0	51.6	2.0	53.0
May 22	256			18				6	1	0	0	125.6	39.9	2.0	54.0
May 23	235			24				1	0	0	0	122.8	37.2	2.1	54.0
May 24	412			41				2	4	0	0	116.2	30.3	1.8	54.0
May 25	293			34				5	1	0	0	100.9	15.8	2.0	53.0
May 26	295			54				0	0	0	0	98.8	14.0	2.4	54.0
May 27	330			65				2	0	5	0	89.2	4.7	2.8	56.0
May 28	268			38				7	1	1	0	87.4	2.7	3.4	56.0
May 29	457			48				5	0	1	0	84.3	0.0	4.2	56.0
May 30	457			40				6	0	11	0	81.4	0.0	4.0	56.0
May 31	488			53				0	0	4	0	79.0	5.0	4.0	56.0
TOTAL	16,893			664				180	108	22	1				
AVG.	545			21				6	3	1	0	90.6	13.0	3.0	53.4
RUN YEAR		CHINOOK ADULT	CHINOOK JACK					WILD STEELHEAD	SHAD	LAMPREY					
TOTALS TO DATE															
SPRING		17,220	664					4,863	1,610	22	1				

TABLE 123

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

LOWER GRANITE PROJECT
JUNE 2005

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Jun 1	593			49			0	5	0	14	0	88.7	11.2	3.6	56.0
Jun 2	472			80			0	7	0	4	1	89.9	8.0	3.8	56.0
Jun 3	499			38			0	14	1	1	0	83.8	1.6	3.7	57.0
Jun 4	688			47			0	8	0	0	0	76.5	0.0	3.8	57.0
Jun 5	518			25			0	5	1	0	0	74.3	0.0	4.0	57.0
Jun 6	707			41			0	5	0	1	0	74.0	11.0	3.7	56.0
Jun 7	421			40			0	16	5	1	0	74.2	16.8	3.8	56.0
Jun 8	679			46			0	13	4	1	1	62.7	0.0	3.9	56.0
Jun 9	698			31			0	10	1	0	0	59.9	2.9	4.0	58.0
Jun 10	749			35			0	14	0	0	0	54.1	0.0	4.3	58.0
Jun 11	650			37			1	28	5	0	0	51.6	0.0	4.7	57.0
Jun 12	432			20			6	17	5	1	0	50.3	0.0	4.7	58.0
Jun 13	262			26			0	11	2	1	0	50.6	0.0	4.8	57.0
Jun 14	448			16			0	12	2	1	0	50.4	0.0	5.2	57.0
Jun 15	389			16			0	8	2	1	0	48.3	0.0	4.1	58.0
Jun 16	289			19			0	11	1	2	0	45.5	0.0	5.3	58.0
Jun 17	314			28			0	14	1	2	0	46.3	0.0	6.0	58.0
Jun 18		390		34			0	16	5	7	0	50.7	0.0	6.0	58.0
Jun 19		428		17			1	10	0	4	0	52.6	0.1	6.0	59.0
Jun 20		348		12			0	16	4	0	1	55.6	39.2	6.0	59.0
Jun 21		149		12			0	22	5	44	0	51.5	23.4	5.5	59.0
Jun 22		113		19			0	12	1	6	0	51.0	18.1	6.0	58.0
Jun 23		98		16			0	11	2	6	0	51.5	33.9	6.0	59.0
Jun 24		120		31			0	22	7	8	1	50.0	37.6	6.0	62.0
Jun 25		78		20			0	19	8	30	0	49.0	23.2	5.5	64.0
Jun 26		38		16			0	19	5	2	0	43.7	28.0	5.7	66.0
Jun 27		43		17			0	24	7	4	0	42.5	21.0	5.5	65.0
Jun 28		67		13			0	17	6	16	0	48.4	18.7	5.7	65.0
Jun 29		71		22			0	23	7	16	0	60.0	33.9	6.0	65.0
Jun 30		92		43			0	24	5	1	0	55.6	40.1	6.0	65.0
TOTAL	8,808	2,035		866			8	433	92	174	4				
AVG.	518	157		29			0	14	3	6	0	58.1	12.3	5.0	59.1

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	26,028	1,258
SUMMER	2,035	272
TOTAL	28,063	1,530

SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
8	5,296	1,702	196	5

TABLE 124

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

LOWER GRANITE PROJECT
JULY 2005

DATE	FISH COUNTS										RIVER CONDITIONS				
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Jul 1		1,231		95			1	65	16	596	0	51.5	24.2	6.0	65.0
Jul 2		809		47			1	86	30	83	0	45.0	29.7	6.0	66.0
Jul 3		461		36			0	84	26	997	0	41.0	21.2	6.0	66.0
Jul 4		235		40			1	86	31	1,176	1	40.6	18.3	6.0	67.0
Jul 5		115		40			0	54	20	262	-1	42.4	30.1	6.0	68.0
Jul 6		138		42			0	64	19	797	0	44.2	21.4	5.6	67.0
Jul 7		178		38			1	52	19	343	1	49.2	33.1	5.8	68.0
Jul 8		169		42			1	76	23	139	0	44.0	32.2	6.0	68.0
Jul 9		172		49			0	95	41	594	0	41.3	21.2	6.0	68.0
Jul 10		142		25			0	62	20	352	0	32.7	18.3	6.0	68.0
Jul 11		80		36			0	67	34	961	0	37.8	24.6	6.0	68.0
Jul 12		70		30			2	108	30	422	0	40.3	28.4	6.0	68.0
Jul 13		164		24			0	73	24	1,500	0	38.2	18.9	4.5	68.0
Jul 14		76		28			0	104	42	673	0	40.9	27.1	5.5	66.0
Jul 15		38		6			0	58	35	553	0	33.7	17.9	6.0	67.0
Jul 16		86		30			0	78	37	398	1	37.6	18.9	6.0	66.0
Jul 17		54		10			1	76	41	310	0	36.3	24.1	6.0	66.0
Jul 18		25		11			0	49	18	340	0	33.0	17.7	*	*
Jul 19		38		18			0	80	37	582	0	38.1	25.9	6.0	67.0
Jul 20		42		12			2	54	26	629	2	37.0	19.9	6.0	67.0
Jul 21		13		16			0	55	25	182	0	38.5	25.5	6.0	66.0
Jul 22		25		13			0	50	26	245	1	33.6	21.3	6.0	66.0
Jul 23		70		16			0	103	43	317	0	35.1	22.9	6.0	66.0
Jul 24		28		4			0	55	22	148	2	29.7	17.5	6.0	65.0
Jul 25		40		12			0	86	32	125	0	28.5	16.0	6.0	64.0
Jul 26		16		6			0	54	23	100	2	32.8	20.7	6.0	65.0
Jul 27		14		10			0	37	16	79	1	26.8	15.0	6.0	69.0
Jul 28		16		7			0	41	25	22	1	31.4	19.7	6.0	70.0
Jul 29		5		2			0	44	14	128	2	33.0	21.1	6.0	70.0
Jul 30		6		4			0	94	36	38	0	35.6	23.8	6.0	64.0
Jul 31		8		7			0	66	32	35	0	28.9	16.9	6.0	65.0
TOTAL		4,564		756			10	2,156	863	13,126	13				
AVG.		147		24			0	70	28	423	0	37.4	22.4	5.9	66.8

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	26,028	1,258
SUMMER	6,599	1,028
TOTAL	32,627	2,286

SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
18	7,452	2,565	13,322	18

TABLE 125

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

LOWER GRANITE PROJECT
AUGUST 2005

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Aug 1		12		5				49	22	30	0	32.1	20.1	6.0	66.0
Aug 2		17		16				49	13	32	0	30.6	19.1	6.0	64.0
Aug 3		12		6				77	24	23	1	28.2	16.4	6.0	64.0
Aug 4		6		2				32	17	16	2	26.5	14.4	6.0	64.0
Aug 5		1		1				23	11	7	1	29.8	17.4	6.0	64.0
Aug 6		5		1				42	14	18	0	33.7	21.4	6.0	70.0
Aug 7		14		4				83	35	34	0	32.2	19.9	6.0	70.0
Aug 8		4		1				34	14	34	2	27.6	16.5	6.0	70.0
Aug 9		0		1				23	8	10	0	29.2	17.3	5.7	70.0
Aug 10		13		1				80	24	1	0	27.6	15.6	6.0	64.0
Aug 11		7		4				110	38	2	0	26.0	14.1	6.0	64.0
Aug 12		5		1				104	40	10	0	23.6	11.5	6.0	64.0
Aug 13		12		1				163	62	10	0	23.5	11.5	6.0	64.0
Aug 14		8		4				116	50	11	0	23.4	11.5	*	*
Aug 15		1		0				56	26	5	0	23.2	11.2	6.0	64.0
Aug 16		2		0				56	28	1	5	20.8	10.0	5.5	64.0
Aug 17		18		2				108	36	2	1	22.3	13.4	6.0	64.0
Aug 18			2	1				89	34	1	0	23.0	11.0	6.0	64.0
Aug 19			8	1				108	30	2	0	18.6	7.9	6.0	64.0
Aug 20			7	1				80	32	2	1	20.0	9.3	6.0	64.0
Aug 21			11	0				137	54	2	0	19.7	7.7	6.0	63.0
Aug 22			17	4				97	28	2	0	18.7	9.6	6.0	68.0
Aug 23			13	11				224	66	1	0	19.9	8.0	6.0	68.0
Aug 24			6	0				172	48	0	-1	18.6	6.8	6.0	68.0
Aug 25			7	6				139	52	1	0	19.9	8.1	6.0	68.0
Aug 26			25	2				150	53	0	0	20.5	8.4	6.0	68.0
Aug 27			14	5				128	40	0	2	20.5	8.4	6.0	68.0
Aug 28			10	2				169	53	5	0	20.7	8.4	5.5	68.0
Aug 29			18	5				98	23	0	1	21.5	14.6	6.6	68.0
Aug 30			19	8				248	72	0	1	20.7	13.8	6.0	68.0
Aug 31			49	6				271	73	0	0	19.9	11.5	6.0	68.0
TOTAL		137	206	102				3,315	1,120	262	16				
AVG		8	15	3				107	36	8	1	24.0	12.7	6.0	66.2

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	26,028	1,258
SUMMER	6,736	1,078
FALL	206	52
TOTAL	32,970	2,388

SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
18	10,767	3,685	13,584	34

TABLE 126

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

LOWER GRANITE PROJECT
SEPTEMBER 2005

DATE	FISH COUNTS						SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	RIVER CONDITIONS			
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK						DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	TURBIDITY DEG F
Sep 1			31	11	0	0		223	67		1	20.0	3.9	6.0	68.0
Sep 2			103	11	0	0		492	148		0	21.2	0.0	3.5	66.0
Sep 3			148	24	0	0		468	110		1	21.8	0.0	6.0	67.0
Sep 4			136	17	0	0		876	236		0	17.0	0.0	6.0	67.0
Sep 5			176	22	0	0		886	254		1	20.9	0.0	6.0	67.0
Sep 6			61	12	0	0		547	142		0	20.7	0.0	6.0	67.0
Sep 7			97	24	0	0		517	128		0	21.4	0.0	6.0	67.0
Sep 8			68	13	0	0		394	85		0	21.2	0.0	6.0	66.0
Sep 9			205	37	0	0		666	160		0	19.3	0.0	6.0	66.0
Sep 10			442	85	0	0		1,420	359		0	20.5	0.0	6.0	66.0
Sep 11			443	74	0	0		936	254		1	19.8	0.0	6.0	66.0
Sep 12			589	104	1	0		851	180		0	19.6	0.0	6.0	66.0
Sep 13			317	60	5	0		1,240	289		0	20.2	0.0	6.0	66.0
Sep 14			437	79	5	0		934	227		2	16.1	0.0	6.0	64.0
Sep 15			437	108	7	0		1,669	383		0	14.2	0.0	6.0	64.0
Sep 16			502	143	6	0		1,816	420		1	14.2	0.0	6.0	63.0
Sep 17			353	96	8	1		1,603	360		0	15.7	0.0	6.0	62.0
Sep 18			260	78	8	0		1,168	258		0	15.5	0.0	6.0	62.0
Sep 19			389	80	12	0		1,607	372		0	14.6	0.0	6.0	62.0
Sep 20			457	110	7	0		1,847	383		0	13.9	0.0	6.0	63.0
Sep 21			475	125	30	7		3,004	640		1	14.3	0.0	6.0	62.0
Sep 22			530	112	41	4		2,764	559		0	19.1	0.0	6.0	62.0
Sep 23			611	150	60	2		4,534	1,079		0	18.1	0.0	6.0	62.0
Sep 24			313	79	34	1		3,366	782		0	16.4	0.0	6.0	62.0
Sep 25			350	72	53	0		3,342	774		0	14.4	0.0	6.0	63.0
Sep 26			236	73	46	0		2,612	648		0	16.8	0.0	6.0	62.0
Sep 27			236	64	62	4		3,756	848		0	19.2	0.0	5.5	62.0
Sep 28			240	89	54	5		4,153	882		0	18.2	0.0	5.5	62.0
Sep 29			202	54	53	4		3,365	750		0	14.6	0.0	5.5	62.0
Sep 30			330	115	78	6		6,175	1,374		0	14.6	0.0	6.0	62.0
TOTAL			9,174	2,121	570	34		57,231	13,151		8				
AVG.			306	71	19	1		1,908	438		0	17.8	0.1	5.9	64.2

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	26,028	1,258
SUMMER	6,736	1,078
FALL	9,380	2,173
TOTAL	42,144	4,509

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
570	34	18	67,998	16,836	13,584	42

TABLE 127

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

LOWER GRANITE PROJECT
OCTOBER 2005

DATE	FISH COUNTS							RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Oct 1			73	35	41	4		2,906	688			14.9	0.0	6.0	61.0
Oct 2			157	65	43	1		3,866	823			16.0	0.0	6.0	61.0
Oct 3			103	77	23	1		3,298	776			21.3	0.0	6.0	61.0
Oct 4			126	55	23	1		2,752	622			22.5	0.0	6.0	61.0
Oct 5			170	58	54	4		4,968	1,116			19.4	0.0	6.0	61.0
Oct 6			180	83	68	5		5,249	1,144			19.2	0.0	6.0	62.0
Oct 7			112	61	76	6		4,048	914			21.7	0.0	6.0	62.0
Oct 8			60	36	36	6		3,132	634			23.4	0.0	6.0	62.0
Oct 9			113	70	38	6		2,731	610			14.8	0.0	6.0	62.0
Oct 10			77	49	76	5		3,922	838			18.6	0.0	5.5	62.0
Oct 11			56	23	97	0		3,359	668			15.2	0.0	5.5	62.0
Oct 12			82	55	131	5		4,223	846			13.6	0.0	5.5	62.0
Oct 13			52	31	108	6		3,469	716			17.8	0.0	5.5	62.0
Oct 14			49	65	109	1		4,187	929			16.6	0.0	6.0	62.0
Oct 15			60	43	98	1		3,434	820			13.1	0.0	6.0	60.0
Oct 16			44	30	59	4		3,511	762			16.7	0.0	6.0	60.0
Oct 17			40	32	66	1		3,160	701			17.6	0.0	6.0	5.9
Oct 18			24	30	46	1		2,039	442			14.6	0.0	6.0	60.0
Oct 19			17	19	29	0		1,522	334			14.9	0.0	5.5	60.0
Oct 20			16	13	44	2		2,819	586			15.2	0.0	5.5	59.0
Oct 21			16	7	19	1		1,537	322			20.8	0.1	5.5	59.0
Oct 22			22	7	14	0		1,608	349			13.8	0.0	5.5	58.0
Oct 23			17	7	19	0		1,306	286			15.1	0.0	5.5	59.0
Oct 24			6	7	24	0		924	191			15.6	0.0	5.5	59.0
Oct 25			18	14	13	1		1,258	270			16.0	0.0	5.5	59.0
Oct 26			13	11	18	1		1,045	242			13.9	0.0	5.5	58.0
Oct 27			10	5	7	4		892	199			16.6	0.0	5.5	58.0
Oct 28			11	5	14	0		828	161			15.3	0.0	5.0	58.0
Oct 29			8	5	8	0		622	116			15.0	0.0	5.2	57.0
Oct 30			11	4	10	0		671	184			17.2	0.0	5.5	57.0
Oct 31			14	8	7	0		640	137			16.4	0.0	5.5	57.0
TOTAL			1,757	1,010	1,418	67		79,926	17,426						
AVG.			57	33	46	2		2,578	562			16.9	0.0	5.7	58.3

*Data Unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	26,028	1,258
SUMMER	6,736	1,078
FALL	11,137	3,183
TOTAL	43,901	5,519

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
1,988	101	18	147,924	34,262	13,584	42

Note: Visual counts ended October 31.

TABLE 128

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

LOWER GRANITE PROJECT
NOVEMBER 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	TOTAL STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL											SECCHI	DEG F
Nov 1			1	2	9	0		437	119		0	16.3	0.0	5.0	57.0
Nov 2			1	3	6	1		328	82		0	18.5	0.0	5.0	57.0
Nov 3			4	1	8	1		307	71		0	19.1	0.0	*	*
Nov 4			6	7	5	0		341	69		0	19.2	0.0	*	*
Nov 5			7	9	4	1		457	77		0	18.4	0.0	5.5	56.0
Nov 6			2	6	6	0		318	56		0	18.7	0.0	5.5	55.0
Nov 7			0	2	5	0		255	51		0	16.6	0.0	5.0	52.0
Nov 8			5	3	3	0		187	31		0	19.3	0.0	5.0	52.0
Nov 9			5	2	3	0		242	42		0	19.4	0.0	*	*
Nov 10			2	6	10	0		371	76		0	20.7	0.0	*	*
Nov 11			2	4	10	1		243	62		0	18.1	0.0	*	*
Nov 12			4	0	9	0		350	82		0	20.4	0.0	5.5	54.0
Nov 13			1	2	4	0		275	82		0	16.8	0.0	5.5	54.0
Nov 14			1	0	1	0		201	87		0	20.3	0.0	*	*
Nov 15			1	1	2	0		215	81		0	21.5	0.0	*	*
Nov 16			0	1	2	0		343	110		0	16.0	0.0	*	*
Nov 17			1	0	0	0		292	72		0	17.1	0.0	*	*
Nov 18			0	0	-1	-1		308	62		-2	20.5	0.0	6.0	47.0
Nov 19			1	0	1	1		152	41		0	17.1	0.0	6.0	47.0
Nov 20			0	0	1	1		147	23		0	18.1	0.0	*	*
Nov 21			2	0	1	0		97	22		0	19.7	0.0	*	*
Nov 22			0	0	0	0		100	26		0	17.1	0.0	6.0	47.0
Nov 23			0	0	0	0		57	12		0	16.2	0.0	6.0	47.0
Nov 24			0	0	0	0		66	17		0	17.0	0.0	6.0	47.0
Nov 25			0	0	0	0		64	10		0	17.9	0.0	6.0	47.0
Nov 26			2	0	0	0		130	27		0	14.6	0.0	6.0	46.0
Nov 27			1	1	0	0		249	58		0	19.9	0.0	6.0	46.0
Nov 28			0	0	0	0		107	9		0	20.3	0.0	6.0	46.0
Nov 29			0	0	0	0		149	12		0	13.4	0.0	6.0	46.0
Nov 30			3	3	0	0		94	20		0	16.4	0.0	6.0	44.0
TOTAL			52	53	89	5		6,882	1,589		-2				
AVG.			2	2	3	0		229	53			18.2	0.0	5.7	49.8

*Data unavailable.

RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
	SPRING	26,028	1,258	2,077	106	18	154,806	35,851	13,584
SUMMER	6,736	1,078							
FALL	11,189	3,236							
TOTAL	43,953	5,572							

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

TABLE 129

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

LOWER GRANITE PROJECT

DECEMBER 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL											SECCHI	DEG F	
Dec 1			1					68	32			17.9	0.2	6.0	44.0	
Dec 2			1					84	24			16.3	0.4	6.0	44.0	
Dec 3			0					104	11			16.2	0.0	6.0	43.0	
Dec 4			3					89	13			16.6	0.0	6.0	43.0	
Dec 5			0					76	7			16.2	0.0	6.0	42.0	
Dec 6			0					73	6			17.7	0.0	6.0	42.0	
Dec 7			0					76	11			16.6	0.0	6.0	42.0	
Dec 8			0					51	4			14.2	0.0	6.0	41.0	
Dec 9			0					79	3			12.6	0.0	6.0	41.0	
Dec 10			0					61	5			12.7	0.0	6.0	41.0	
Dec 11			0					70	4			12.6	0.0	6.0	41.0	
Dec 12			0					66	2			13.0	0.0	6.0	41.0	
Dec 13			0					32	1			18.8	0.0	*	*	
Dec 14			0					35	2			17.9	0.0	*	*	
Dec 15			0					13	1			20.2	0.0	6.0	36.0	
Dec 16												24.4	0.0	6.0	36.0	
Dec 17												23.1	0.0	*	*	
Dec 18												14.5	0.0	*	*	
Dec 19												16.7	0.0	*	*	
Dec 20												23.2	0.0	*	*	
Dec 21												18.1	0.0	*	*	
Dec 22												15.9	0.0	*	*	
Dec 23												20.3	0.0	*	*	
Dec 24												24.3	0.0	*	*	
Dec 25												22.9	0.0	*	*	
Dec 26												21.5	0.0	*	*	
Dec 27												25.8	0.0	*	*	
Dec 28												31.5	0.0	*	*	
Dec 29												55.0	0.0	*	*	
Dec 30												61.5	0.0	*	*	
Dec 31												55.7	0.0	*	*	
TOTAL			5					977	126							
AVG.			0					65	8			16.5	0.0	6.0	41.2	

*Data unavailable.

RUN YEAR TOTALS TO DATE	CHINOOK		COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	SHAD	LAMPREY
	ADULT	JACK							
SPRING	26,028	1,258	2,077	106	18	155,783	35,977	13,584	40
SUMMER	6,736	1,078							
FALL	11,194	3,236							
TOTAL	43,958	5,572							

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

TABLE 130

**YEARLY TOTALS OF SALMONIDS COUNTED OVER
LOWER GRANITE DAM
1975 - 2005**

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	180,072	11	1,265	301,024
2004	109,061	154,389	113	3,904	267,467
2005	49,530	155,783	18	2,183	207,514
Total	1,298,416	2,906,834	2,751	12,697	4,220,698
10-Year Average	76,291	140,312	56	1,013	217,671

*Jacks included

TABLE 131

**MONTHLY COUNT OF CHINOOK SALMON
LOWER GRANITE DAM
1975 -2005**

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
Total			14	192,075	546,066	300,378	106,140	11,440	94,478	44,288	3,487	50	1,298,416
10-Year Average				14,833	27,619	17,474	4,476	515	7,808	3,349	212		76,291

*Jacks included

TABLE 132

MONTHLY COUNT OF STEELHEAD

LOWER GRANITE DAM

1975 - 2005

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
Total	539	790	84,665	88,735	12,101	4,685	51,564	129,426	1,033,158	1,280,773	196,006	24,992	2,907,434
10-Yr Average			3,828	2,286	167	313	2,719	5,878	55,531	59,789	8,441	1,420	140,372

PRIEST RAPIDS AND WANAPUM DAMS

FISH COUNTING SCHEDULE – PRIEST RAPIDS DAM

Jan 1 – Apr 14	No adult fish counting.
Apr 14	Fish Counter orientation and training
Apr 15 – Aug 7	Daily counting 0000-2400 hours via manual count boards
Aug 8 – Nov 15	Daily counting 0000-2400 hours via Video Fish Counting System
Nov 16 – Dec 31	No adult fish counting.

FISH COUNTING SCHEDULE – WANAPUM DAM

Jan 1 – Dec 31	No adult fish counting.
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FISH LADDER OPERATING AND MAINTENANCE SCHEDULE – PRIEST RAPIDS DAM

Left Bank Ladder

01 Jan – 02 Feb	Out of criteria for annual inspection, maintenance and repairs.
03 Feb – 06 June	In service.
07 June – 07 June	Six-hour outage for repair to VFC system.
08 June – 11 Aug	In service.
12 Aug – 12 Aug	Five-hour outage for repair to LEW-5.
13 Aug – 31 Dec	In service.

Right Bank Ladder

01 Jan – 07 Feb	In service.
08 Feb – 28 Feb	Out of service for annual inspection, maintenance and repairs.
01 Mar – 31 Dec	In service.

FISH LADDER OPERATING AND MAINTENANCE SCHEDULE – WANAPUM DAM

Left Bank Ladder

01 Jan – 11 Feb	In service.
12 Feb – 06 April	Out of criteria for annual inspection, maintenance and repairs.
07 April – 31 Dec	In service.

Right Bank Ladder

01 Jan – 02 June	In service.
03 June – 03 June	One-hour outage for repair to VFC system.
04 June – 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 passage is possible for one to several days before and after the indicated dates.

FISHWAY ACTIVITIES

The Public Utility District No. 2 of Grant County conducted 24-hour fish counts at Priest Rapids Dam, using three 8-hour shifts from 15 April through 07 August, 2005. Counts were made at both ladders using visual observations at the count boards each day of the week. From 08 August through 15 November adult fish counts were conducted via the Video Fish Count system. This new system involves the use of recorded digital video and does not require 24-hour staffing. Digital video data from the fishways are streamed to processing computers in the fish counting room. These computers filter the data into segments that contain some form of movement, called clips. Fish counters view these clips on computer workstations and count the passing fish. Fish counters were on site seven days per week, 16 hours per day, yet counted 24 hours worth of daily fish passage.

Fall Chinook, coho, and steelhead passage data from Priest Rapids Dam, 2005, are incomplete and should be used with caution. Due to some system development and usage issues the fall data are known to contain inaccuracies, namely coho and steelhead are underrepresented; fall Chinook may be overrepresented. Recounts of fall passage are in progress. The corrected data will be posted to the Grant CO. PUD web page when they are available, and notification will be sent to area agencies and tribes.

No adult counts were taken at Wanapum Dam, although the PUD is developing a video fish count system at the hydro project.

The Mid-Columbia Coordination Committee approved the permanent closure of all collection channel orifice gates at Wanapum and Priest Rapids Dams in 2001. Main slotted entrances at the end of the channels remain open.

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

Water velocities in the collection channel at Priest Rapids Dam have been improved and now run consistently at levels within criteria. LEW-5 is being used to manipulate flow through LSE-4 and increase water volumes and velocities through the collection channel.

Washington Department of Fish And Wildlife trapped and examined steelhead at the Priest Rapids Dam coded wire tag trapping facility from 14 July through 13 October. The trap was operated approximately 8 hours per day, usually every Tuesday and Thursday.

The Priest Rapids Hatchery did not trap broodstock at Priest Rapids Dam.

TABLE 133

MONTHLY TOTALS OF SALMONIDS, SHAD, AND LAMPREY COUNTED OVER PRIEST RAPIDS DAM
2005

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				324	10,163	28,991	34,781	6,388	15,553	10,865	2,364		109,429
STEELHEAD				7	7	150	1,691	2,986	5,715	1,805	111		12,472
SOCKEYE				2	12	17,017	56,757	769	2	1	3		74,563
COHO*						1		29	604	142	484		1,260
PINK													
TOTAL				333	10,182	46,159	93,229	10,172	21,874	12,813	2,962		197,724
SHAD						5,429	4,611	205	7	2			10,254
LAMPREY					9	88	318	1,177	761	239	6		2,598

*Jacks included

TABLE 134

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

PRIEST RAPIDS PROJECT
APRIL 2005

DATE	FISH COUNTS										RIVER CONDITIONS			
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Apr 1	BEGIN COUNTING APRIL 15										105.5	0.0		
Apr 2											77.5	0.0		
Apr 3											75.0	0.0		
Apr 4											101.5	0.0		
Apr 5											129.7	0.0		
Apr 6											101.2	0.0		
Apr 7											71.7	0.0		
Apr 8											69.1	0.0		
Apr 9											68.2	0.0		
Apr 10											67.7	0.0		
Apr 11											69.1	0.0		
Apr 12											67.6	0.0		
Apr 13											95.3	0.0		
Apr 14											94.8	0.0		
Apr 15	0			0			0	1			84.6	0.0		
Apr 16	0			0			0	0			67.3	0.0		
Apr 17	0			0			0	0			67.1	0.0		
Apr 18	0			0			0	1			69.7	0.0		
Apr 19	6			0			0	0			70.8	0.0		
Apr 20	1			0			0	2			84.8	9.0		
Apr 21	1			0			0	1			113.7	70.0		
Apr 22	2			0			0	0			103.2	64.1		
Apr 23	2			1			1	0			84.5	52.4		
Apr 24	5			0			0	0			80.8	49.8		
Apr 25	12			0			0	0			100.4	62.1		
Apr 26	13			0			1	1			120.7	74.5		
Apr 27	19			0			0	0			127.1	78.2		
Apr 28	36			0			0	0			119.5	73.8		
Apr 29	24			0			0	1			99.5	61.1		
Apr 30	202			0			0	0			110.9	68.4		
TOTAL	323			1			2	7						
AVG.	20			0			0	0			90.0	22.1		

*Water data unavailable

TABLE 135

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

PRIEST RAPIDS PROJECT
MAY 2005

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	126			0			0	0		0	107.8	66.5		
May 2	396			1			0	0		0	113.3	69.9		
May 3	620			1			0	0		0	127.5	78.5		
May 4	516			0			0	0		0	136.0	83.7		
May 5	527			0			0	1		0	124.6	76.7		
May 6	293			1			0	0		0	120.9	74.6		
May 7	438			0			0	1		0	119.2	73.4		
May 8	366			0			0	0		0	114.2	70.2		
May 9	1,110			0			0	0		0	142.0	87.4		
May 10	353			0			0	0		0	154.5	95.2		
May 11	612			7			0	0		0	150.2	92.6		
May 12	345			0			0	0		0	139.7	85.9		
May 13	360			3			0	1		1	149.9	92.4		
May 14	461			2			0	0		1	147.4	90.5		
May 15	319			11			4	0		0	128.1	78.9		
May 16	167			20			0	1		0	132.2	81.4		
May 17	267			6			1	0		0	126.1	77.8		
May 18	268			14			1	0		0	136.0	83.6		
May 19	165			5			0	0		0	141.1	86.9		
May 20	108			11			0	1		0	133.5	82.2		
May 21	110			11			0	1		1	124.1	75.2		
May 22	182			28			1	0		0	124.4	73.4		
May 23	114			8			0	0		2	114.4	71.0		
May 24	290			42			0	0		0	118.1	72.7		
May 25	279			24			1	0		0	141.9	87.0		
May 26	269			35			0	1		1	162.3	99.2		
May 27	183			18			1	0		2	188.2	115.2		
May 28	139			38			0	0		0	128.8	78.1		
May 29	87			16			0	0		0	96.7	57.7		
May 30	118			24			3	0		1	98.7	59.4		
May 31	232			17			0	0		0	144.9	88.8		
TOTAL	9,820			343			12	7		9				

AVG.

317

11

0

0

0

131.8

80.8

*Water Data unavailable.

RUN YEAR

TOTALS TO DATE

SPRING

CHINOOK

ADULT

10,143

CHINOOK

JACK

344

SOCKEYE

14

STEELHEAD

14

LAMPREY

9

TABLE 136

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

PRIEST RAPIDS PROJECT
JUNE 2005

DATE	FISH COUNTS										RIVER CONDITIONS			
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Jun 1	129			21		0	0	0	0	6	153.7	94.1		
Jun 2	111			18		0	0	0	0	-2	121.1	74.7		
Jun 3	131			14		0	1	2	0	0	122.0	75.2		
Jun 4	249			21		0	4	1	1	2	116.9	72.1		
Jun 5	449			26		0	7	3	0	2	112.1	69.2		
Jun 6	178			17		0	0	0	1	0	100.4	62.0		
Jun 7	474			9		0	0	0	7	0	109.1	67.3		
Jun 8	175			9		0	6	1	0	2	139.5	85.8		
Jun 9	776			14		0	6	1	1	0	150.4	92.4		
Jun 10	246			3		0	7	1	1	2	140.2	86.4		
Jun 11	588			8		0	3	0	7	3	118.3	73.3		
Jun 12	288			2		0	4	0	2	4	115.7	71.4		
Jun 13	211			9		0	14	1	2	2	130.2	80.3		
Jun 14		356		1		0	17	0	3	0	108.6	67.0		
Jun 15		1,010		16		0	38	2	6	2	133.8	82.8		
Jun 16		588		5		0	75	5	8	1	148.9	91.7		
Jun 17		878		17		0	134	5	5	6	146.6	90.2		
Jun 18		1,294		13		0	182	5	9	5	110.3	68.1		
Jun 19		1,032		22		0	283	7	3	5	68.1	42.2		
Jun 20		1,690		14		0	457	7	13	8	145.8	88.7		
Jun 21		1,013		39		0	513	8	92	3	163.8	98.4		
Jun 22		1,200		18		0	700	2	299	5	170.4	99.5		
Jun 23		975		41		0	817	8	325	2	164.1	96.2		
Jun 24		1,464		17		0	1,081	7	610	5	166.7	97.3		
Jun 25		3,036		67		0	1,527	16	826	3	154.1	90.4		
Jun 26		2,303		76		0	1,644	13	648	0	152.2	88.6		
Jun 27		2,118		54		0	2,625	14	787	9	145.3	85.2		
Jun 28		1,950		27		0	2,087	15	607	1	135.9	79.3		
Jun 29		1,533		84		1	2,217	14	552	6	169.1	99.0		
Jun 30		1,842		22		0	2,568	12	614	6	163.4	95.0		
TOTAL	4,005	24,282		704		1	17,017	150	5,429	88				
AVG.	308	1428		23		0	567	5	181	3	135.9	82.1		

*Water Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	14,148	515
SUMMER	24,282	533
TOTAL	38,430	1,048

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
0	1	17,031	164	5,429	97

TABLE 137

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

PRIEST RAPIDS PROJECT
JULY 2005

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	DEG F
Jul 1		1,400		92			2,468	13	341	3	165.6	96.8		
Jul 2		1,221		74			2,500	3	367	4	138.6	81.2		
Jul 3		1,792		101			2,490	19	264	0	129.7	75.9		
Jul 4		2,056		104			3,059	22	317	5	120.3	70.4		
Jul 5		1,559		77			4,108	23	298	5	109.6	64.3		
Jul 6		1,811		98			4,735	26	274	8	96.9	57.1		
Jul 7		2,142		137			4,840	21	320	6	154.5	90.0		
Jul 8		1,112		23			4,787	23	262	6	176.6	103.3		
Jul 9		2,048		85			4,536	50	365	10	121.1	70.6		
Jul 10		1,150		54			3,625	30	178	6	131.4	77.1		
Jul 11		2,171		26			2,903	34	160	12	143.3	83.3		
Jul 12		630		37			2,192	18	121	7	157.4	92.2		
Jul 13		870		26			2,111	33	197	10	155.4	90.6		
Jul 14		1,665		27			1,807	35	110	18	160.1	93.5		
Jul 15		474		24			1,393	22	71	2	163.3	95.5		
Jul 16		1,227		24			1,524	43	127	10	157.8	92.0		
Jul 17		546		31			1,075	29	117	21	130.5	75.6		
Jul 18		1,095		21			894	56	104	7	150.8	88.3		
Jul 19		359		14			591	55	78	10	134.9	79.4		
Jul 20		933		26			663	55	54	1	145.1	84.9		
Jul 21		591		19			578	102	51	3	147.9	85.9		
Jul 22		686		19			540	91	55	11	125.3	73.8		
Jul 23		920		30			567	117	76	8	117.1	69.1		
Jul 24		715		10			535	107	65	3	109.1	64.0		
Jul 25		1,105		28			522	103	50	10	151.6	89.0		
Jul 26		888		10			454	108	32	11	116.7	68.7		
Jul 27		446		18			353	78	48	15	157.2	91.6		
Jul 28		736		18			342	127	25	23	138.2	81.1		
Jul 29		337		15			214	77	28	24	163.0	94.8		
Jul 30		383		13			167	70	28	27	136.9	80.1		
Jul 31		414		18			184	101	28	32	146.7	86.1		
TOTAL		33,482		1,299			56,757	1,691	4,611	318				

AVG.

1,080

42

1,831

55

149

10

140.4

82.1

*Water Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	14,148	515
SUMMER	57,764	1,832
TOTAL	71,912	2,347

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
0	1	73,788	1,855	10,040	415

TABLE 138

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

PRIEST RAPIDS PROJECT
AUGUST 2005

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
Aug 1		408		5	0	0	177	138	36	28	137.3	80.0		
Aug 2		196		8	0	0	99	91	21	22	74.0	43.6		
Aug 3		361		7	0	0	101	125	24	32	98.4	57.0		
Aug 4		730		18	0	0	93	144	45	29	129.4	75.4		
Aug 5		371		9	0	0	61	130	28	36	127.0	73.5		
Aug 6		252		9	0	0	59	114	18	28	102.3	61.0		
Aug 7		492		8	0	0	55	160	18	37	121.6	71.0		
Aug 8		320		2	6	1	37	208	0	69	115.0	67.0		
Aug 9		333		0	2	0	38	195	1	163	114.8	67.0		
Aug 10		*		*	*	*	*	*	*	*	127.9	76.4		
Aug 11		*		*	*	*	*	*	*	*	114.7	50.6		
Aug 12		*		*	*	*	*	*	*	*	99.5	0.9		
Aug 13		*		*	*	*	*	*	*	*	94.2	0.9		
Aug 14			*	*	*	*	*	*	*	*	72.2	1.0		
Aug 15			487	2	0	0	15	157	-1	16	98.8	0.9		
Aug 16			219	0	1	0	10	120	2	78	125.2	1.0		
Aug 17			134	0	1	0	16	101	-2	49	121.4	1.0		
Aug 18			155	0	2	0	5	98	1	61	121.5	1.1		
Aug 19			160	0	1	0	1	108	2	48	116.3	1.1		
Aug 20			174	3	5	0	0	99	2	34	108.7	1.0		
Aug 21			162	1	2	0	0	112	1	57	88.3	1.1		
Aug 22			154	1	0	0	0	112	0	40	110.9	1.1		
Aug 23			*	*	*	*	*	*	*	*	113.7	1.0		
Aug 24			222	6	0	0	0	117	0	57	101.0	0.9		
Aug 25			120	0	1	0	0	82	5	35	92.6	1.0		
Aug 26			114	3	0	0	0	128	2	40	109.1	1.3		
Aug 27			163	2	0	0	0	93	0	31	118.1	4.6		
Aug 28			80	0	0	0	0	48	1	26	82.8	0.8		
Aug 29			324	1	0	0	1	140	0	66	104.8	0.8		
Aug 30			117	1	2	0	1	101	3	50	90.1	0.9		
Aug 31			48	6	5	0	0	65	-2	45	99.8	1.0		
TOTAL		3,463	2,833	92	28	1	769	2,986	205	1,177				

AVG.	385	177	4	1	0	31	119	8	47	107.5	24.1
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*Water Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
TOTALS TO DATE	14,148	515	28	2	74,557	4,841	10,245	1,592
SPRING	14,148	515						
SUMMER	61,227	1,898						
FALL	2,833	26						
TOTAL	78,208	2,439						

*Counts were not available for these dates

TABLE 139

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

PRIEST RAPIDS PROJECT
SEPTEMBER 2005

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	DEG F
Sep 1			440	8	4	0	0	198	0	23	102.2	7.0		
Sep 2			344	14	1	1	0	287	1	106	71.6	1.0		
Sep 3			477	10	3	0	1	252	-1	139	39.9	1.2		
Sep 4			253	8	5	0	-1	201	-1	43	46.1	1.0		
Sep 5			380	9	13	0	0	234	-1	27	52.9	0.9		
Sep 6			399	14	2	0	0	117	0	21	73.2	1.0		
Sep 7			192	11	6	0	0	150	1	41	87.8	0.9		
Sep 8			452	10	11	0	0	233	5	44	93.0	1.0		
Sep 9			*	*	*	*	*	*	*	*	63.0	0.9		
Sep 10			525	5	15	4	0	146	0	58	53.4	0.5		
Sep 11			774	18	12	4	0	194	1	58	45.2	0.7		
Sep 12			1,056	10	51	0	0	213	-2	14	59.1	0.5		
Sep 13			415	6	40	18	0	142	4	17	60.6	0.7		
Sep 14			367	13	20	3	0	146	0	14	66.6	0.7		
Sep 15			462	4	36	1	0	213	0	19	66.9	0.8		
Sep 16			373	8	22	0	0	175	0	12	75.0	1.1		
Sep 17			725	9	11	7	0	195	0	8	71.3	0.9		
Sep 18			506	11	11	1	0	231	0	7	42.1	0.5		
Sep 19			536	13	12	0	0	212	0	7	64.6	0.6		
Sep 20			931	16	19	1	1	281	0	14	82.9	0.9		
Sep 21			564	14	8	0	1	241	0	11	82.0	0.9		
Sep 22			474	6	44	2	0	289	0	8	84.1	1.0		
Sep 23			577	4	67	1	0	243	0	5	80.3	0.9		
Sep 24			485	4	31	1	0	210	0	4	47.2	0.8		
Sep 25			430	3	10	0	0	120	0	2	52.8	1.1		
Sep 26			360	3	3	0	0	111	0	7	79.1	1.0		
Sep 27			427	1	16	0	0	156	0	7	63.3	0.9		
Sep 28			358	7	15	1	0	132	0	17	79.7	1.0		
Sep 29			671	0	22	7	0	179	0	19	79.0	1.0		
Sep 30			1,351	10	40	2	0	214	0	9	86.4	1.0		
TOTAL			15,304	249	550	54	2	5,715	7	761				
AVG.			528	9	19	2	0	197	0	26	68.4	1.1		

*Water Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	14,148	515
SUMMER	61,227	1,898
FALL	18,137	275
TOTAL	93,512	2,688

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
578	56	74,559	10,556	10,252	2,353

TABLE 140

MONTHLY FISH PASSAGE SUMMARY REPORT

PRIEST RAPIDS PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

OCTOBER 2005

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
Oct 1			481	5	25	3	0	116	0	13	60.1	0.8		
Oct 2			326	4	10	2	0	97	0	10	48.7	1.0		
Oct 3			463	9	7	0	0	105	0	14	92.7	1.1		
Oct 4			323	1	7	0	0	89	0	4	70.2	1.0		
Oct 5			320	5	2	0	0	39	0	19	75.5	1.0		
Oct 6			280	3	7	5	0	144	0	43	88.9	1.1		
Oct 7			184	4	5	3	0	79	0	14	93.0	1.0		
Oct 8			372	4	5	1	0	87	0	14	78.4	1.0		
Oct 9			537	0	4	0	0	64	0	17	59.5	0.7		
Oct 10			1001	0	10	2	1	60	0	8	94.9	0.8		
Oct 11			521	0	5	6	0	133	0	6	86.9	1.0		
Oct 12			963	1	1	1	0	154	0	1	89.9	0.9		
Oct 13			593	10	8	0	0	182	0	12	107.6	1.1		
Oct 14			458	5	3	1	0	65	0	17	104.6	1.0		
Oct 15			248	0	3	0	0	74	0	3	70.7	1.0		
Oct 16			276	2	0	0	0	33	0	1	48.3	1.2		
Oct 17			130	0	1	0	0	18	0	2	95.2	0.9		
Oct 18			301	3	1	0	0	22	0	9	90.2	0.9		
Oct 19			265	4	1	0	0	26	0	10	87.7	0.7		
Oct 20			158	3	2	0	0	37	0	11	87.5	0.6		
Oct 21			176	-2	0	0	0	35	0	3	87.6	0.8		
Oct 22			148	0	0	0	0	27	0	-1	55.7	1.0		
Oct 23			127	2	1	0	0	5	0	1	47.7	1.1		
Oct 24			6	0	0	0	0	2	0	0	103.3	0.8		
Oct 25			335	0	6	-1	0	40	0	3	97.2	0.9		
Oct 26			274	0	0	0	0	7	0	3	97.1	1.1		
Oct 27			159	1	0	0	0	8	0	0	107.4	1.0		
Oct 28			366	3	3	2	0	30	0	1	92.1	1.0		
Oct 29			517	1	0	0	0	22	2	0	68.6	1.0		
Oct 30			96	0	0	0	0	2	0	0	48.6	1.1		
Oct 31			392	1	0	0	0	3	0	1	82.0	0.7		
TOTALS			10,796	69	117	25	1	1,805	2	239				

AVG.

348 2 4 1 0 58 0 8

81.2 0.9

*Water Data unavailable.

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	14,148	515
SPRING	61,227	1,898
SUMMER	28,933	344
FALL		
TOTAL	104,308	2,757

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
695	81	74,560	12,361	10,254	2,592

TABLE 141

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

PRIEST RAPIDS PROJECT
NOVEMBER 2005

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	DEG F
Nov 1			509	2	33	0	0	9		0	97.2	0.6		
Nov 2			503	1	14	1	0	8		4	86.0	0.7		
Nov 3			301	1	33	0	0	12		1	90.7	0.6		
Nov 4			299	4	24	4	2	6		0	90.9	0.7		
Nov 5			194	0	44	1	0	5		0	68.1	0.9		
Nov 6			99	0	74	0	0	10		0	104.0	0.9		
Nov 7			74	0	101	0	0	2		0	91.2	0.5		
Nov 8			154	0	68	0	1	15		1	107.0	0.3		
Nov 9			70	0	46	0	0	20		0	74.0	0.3		
Nov 10			50	0	14	0	0	9		0	64.9	0.5		
Nov 11			25	0	5	0	0	1		0	78.4	0.8		
Nov 12			27	0	14	0	0	3		0	73.3	0.4		
Nov 13			17	0	3	0	0	7		0	61.4	0.7		
Nov 14			21	0	2	0	0	4		0	79.5	0.4		
Nov 15			13	0	3	0	0	0		0	93.4	0.0		
Nov 16											107.7	0.0		
Nov 17											109.4	0.0		
Nov 18											112.4	0.0		
Nov 19											89.5	0.0		
Nov 20											82.4	0.0		
Nov 21											112.1	0.0		
Nov 22											79.3	0.0		
Nov 23											*	*		
Nov 24											*	*		
Nov 25											*	*		
Nov 26											*	*		
Nov 27											*	*		
Nov 28											*	*		
Nov 29											*	*		
Nov 30											*	*		
TOTALS			2,356	8	478	6	3	111		6				
AVG.			157	1	32	0	0	7		0	88.8	0.4		

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	14,148	515
SUMMER	61,227	1,898
FALL	31,289	352
TOTAL	106,664	2,765

COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	SHAD	LAMPREY
1,173	87	74,563	12,472	10,254	2,598

*Data unavailable.

TABLE 142

**YEARLY TOTALS OF SALMONIDS COUNTED OVER PRIEST RAPIDS DAM
1982 - 2005**

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
Totals	1,579,231	350,700	1,469,685	28,378	3,427,994
10-Year Average	94,397	13,755	58,685	2,533	169,370

*Jacks included

TABLE 143

MONTHLY COUNT OF STEELHEAD
PRIEST RAPIDS DAM: 1960 - 2005

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
TOTAL	40	56	288	3,963	8,750	6,408	54,670	153,592	230,276	61,432	3,891	63	523,429
10-Year Average				9	19	156	2,011	4,282	6,020	1,178	81		13,755

ROCK ISLAND DAM

FISH COUNTING SCHEDULE

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

FISH LADDER OPERATING SCHEDULE

Left Bank Ladder

Jan 1 – Jan 6	Fishway out of service for 2004/2005 annual maintenance.
Jan 7 – Dec 4	Fishway in service.
Dec 5 – Dec 31	Fishway out of service for 2005/2006 annual maintenance.

Middle Ladder

Jan 1 – Jan 2	Fishway in service.
Jan 3 – Jan 20	Fishway out of service for 2004/2005 annual maintenance.
Jan 21 – Dec 31	Fishway in service.

Right Bank Ladder

Jan 1 – Jan 20	Fishway in service.
Jan 21 – Mar 4	Fishway out of service for 2004/2005 annual maintenance.
Mar 5 – Dec 31	Fishway in service.

FISHWAY ACTIVITIES

The Rock Island Bypass Trap was operated by the Washington Department of Fish and Wildlife from April 1 through August 31, 2005. Juvenile fish were sampled daily during this time period.

Adult fish PIT tag detections in all three fishways were uploaded to PTAGIS throughout the 2005 season. Chelan County PUD took steps to reduce electrical interference at powerhouse #2 by installing a “noise” filter on a turbine unit’s cooling fan. When present, this interference can reduce PIT tag detection efficiency in the right bank ladder only.

In 2005, the Chelan County PUD tagged and monitored passage of radio-tagged adult bull trout at the Rock Island Project, and in the tributaries. The purpose of the bull trout study is to assess the behavior of the fish as they migrate through the dam, associated pool and tributaries. Tagging and monitoring will occur through 2009.

TABLE 144

MONTHLY TOTALS OF SALMONIDS AND LAMPREY COUNTED OVER ROCK ISLAND DAM
2005

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				15	7,830	18,809	36,933	7,503	4,077	4,792	983		80,942
STEELHEAD				30	29	135	1,423	3,362	5,925	1,422	83		12,409
SOCKEYE					27	6,054	63,662	1,450	25	8			71,226
COHO					1			8	1,787	4,386	398		6,580
PINK													
TOTAL				45	7,887	24,998	102,018	12,323	11,814	10,608	1,464		171,157
LAMPREY						8	296	1,286	629	48			2,267

*Jacks included

TABLE 145

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

ROCK ISLAND PROJECT
APRIL 2005

DATE	FISH COUNTS						RIVER CONDITIONS										
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY				
	SPRING	SUMMER	FALL										SECCHI	DEG F			
Apr 1	BEGIN COUNTING 14 APR										96.3	0.0	*	*			
Apr 2											84.9	0.0	*	*			
Apr 3											78.5	0.0	*	*			
Apr 4											105.5	0.0	*	*			
Apr 5											98.8	0.0	*	*			
Apr 6											62.7	0.0	*	*			
Apr 7											63.2	0.0	*	*			
Apr 8											71.9	0.0	*	*			
Apr 9											67.7	0.0	*	*			
Apr 10											50.0	0.0	*	*			
Apr 11											76.6	0.0	*	*			
Apr 12											122.5	0.0	*	*			
Apr 13											89.6	0.0	*	*			
Apr 14											76.6	0.0	15.0	44.6			
Apr 15	0											75.3	0.0	15.2	44.8		
Apr 16	0											65.7	0.0	14.8	44.4		
Apr 17	0											51.4	7.8	15.0	44.4		
Apr 18	0											75.6	17.9	14.6	44.8		
Apr 19	0											85.7	18.0	14.0	45.0		
Apr 20	0											103.0	19.3	13.8	45.1		
Apr 21	1											104.5	17.6	14.0	45.3		
Apr 22	0											95.6	21.3	15.0	46.0		
Apr 23	0											93.0	15.0	15.2	46.6		
Apr 24	0											76.0	15.2	15.0	46.6		
Apr 25	2											105.5	22.6	14.4	47.5		
Apr 26	1											115.5	23.1	14.0	48.0		
Apr 27	1											112.6	25.3	13.0	48.6		
Apr 28	0											102.5	25.2	13.0	49.0		
Apr 29	3											110.1	25.5	12.6	49.0		
Apr 30	7											91.1	19.0	12.4	49.0		
TOTAL	15									30		27					
AVG.	1									2		2		86.9	9.1	14.2	46.4

*Data unavailable

TABLE 146

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

ROCK ISLAND PROJECT
MAY 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
May 1	4			0	0		0	1	0		90.1	17.2	12.0	49.3
May 2	7			0	0		0	3	3		136.0	21.9	11.6	49.5
May 3	16			0	0		0	2	2		137.9	24.9	11.0	49.3
May 4	82			0	0		0	1	1		125.5	23.4	10.6	49.5
May 5	190			0	0		0	1	1		108.9	22.6	10.0	50.0
May 6	170			0	0		0	0	0		125.5	25.1	10.0	50.0
May 7	282			2	1		0	1	0		115.2	21.1	10.4	50.0
May 8	489			4	0		0	1	1		104.3	19.8	11.0	50.7
May 9	232			2	0		0	1	1		142.7	30.8	11.0	50.4
May 10	207			0	0		0	1	0		154.2	29.4	5.0	47.9
May 11	242			0	0		0	0	0		132.1	30.1	2.4	50.5
May 12	191			1	0		3	1	1		147.4	31.2	5.0	58.8
May 13	440			4	0		3	2	2		144.2	26.0	8.0	50.9
May 14	582			2	0		3	0	0		134.8	23.6	8.0	51.8
May 15	449			9	0		2	0	0		102.3	21.2	7.4	52.0
May 16	342			5	0		11	2	2		132.8	28.1	10.0	52.0
May 17	711			7	0		4	1	1		128.5	29.0	10.6	52.2
May 18	345			10	0		0	1	1		127.0	27.8	10.4	52.5
May 19	178			6	0		0	0	0		131.6	28.0	10.8	52.3
May 20	133			9	0		0	1	1		127.5	25.1	11.4	52.3
May 21	374			12	0		0	0	0		102.8	22.4	13.0	52.0
May 22	171			5	0		0	1	1		107.7	20.0	8.2	52.5
May 23	188			14	0		1	2	2		115.0	26.8	13.0	52.7
May 24	130			13	0		0	0	0		130.9	26.1	13.0	52.7
May 25	128			25	0		0	1	1		136.8	27.1	14.2	53.8
May 26	220			37	0		0	0	0		170.5	28.1	14.6	54.1
May 27	247			21	0		0	2	2		181.1	27.5	14.0	54.3
May 28	330			35	0		0	1	1		115.2	21.7	13.6	54.5
May 29	146			28	0		0	0	0		85.6	17.4	12.8	55.6
May 30	157			16	0		0	1	1		109.3	22.6	13.0	56.1
May 31	146			34	0		0	1	1		145.7	29.4	15.0	56.8
TOTAL	7,529			301	1		27	29	26					
AVG.	243			10			1	1	1		127.4	25.0	10.7	52.2
RUN YEAR														
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK		COHO ADULT		SOCKEYE	STEELHEAD	WILD STEELHEAD					
SPRING		7,544	301		1		27	59	53					

TABLE 147

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

ROCK ISLAND PROJECT
 JUNE 2005

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jun 1	206			27			0	0	0	1	132.4	30.4	15.0	57.2
Jun 2	206			28			0	3	3	0	125.7	26.3	13.0	57.4
Jun 3	123			8			0	0	0	0	120.2	26.1	13.4	57.0
Jun 4	106			10			0	1	1	0	99.2	20.1	14.0	56.8
Jun 5	171			18			0	2	2	0	83.3	16.5	14.2	57.2
Jun 6	193			8			0	1	1	0	109.0	26.3	13.6	57.2
Jun 7	270			10			0	0	0	0	127.3	24.9	14.6	57.4
Jun 8	247			18			0	2	2	0	135.0	24.0	14.0	57.0
Jun 9	235			16			0	2	2	0	133.8	24.1	14.4	56.5
Jun 10	255			10			0	3	3	0	134.9	23.9	14.4	56.3
Jun 11	232			7			0	1	1	0	102.9	18.7	13.3	56.8
Jun 12	462			11			0	4	4	0	92.6	15.2	13.4	57.4
Jun 13	351			4			4	3	3	0	120.6	26.7	13.2	58.1
Jun 14	312			6			5	5	5	0	139.7	27.3	13.4	58.1
Jun 15	238			2			6	7	5	0	137.5	26.4	13.6	58.3
Jun 16	324			13			7	4	3	0	144.0	26.0	14.0	58.3
Jun 17	433			7			10	3	3	0	134.6	27.9	13.4	58.5
Jun 18	539			9			15	1	1	0	102.6	23.5	13.0	58.5
Jun 19	496			8			49	1	1	0	81.7	18.6	14.0	58.8
Jun 20	460			7			97	4	4	0	142.6	29.0	15.0	59.0
Jun 21	1,087			10			99	5	4	0	162.4	31.0	16.0	59.7
Jun 22	992			12			143	8	8	1	159.5	31.2	16.0	60.4
Jun 23	908			29			223	13	12	0	150.6	33.3	16.0	60.1
Jun 24		865		21			331	3	3	0	163.5	33.1	16.4	60.3
Jun 25		1,218		27			493	9	8	2	154.6	31.5	16.0	60.6
Jun 26		1,244		19			618	8	8	1	125.2	26.7	16.0	61.0
Jun 27		992		16			689	11	11	0	144.5	33.1	15.6	61.0
Jun 28		1,810		210			738	8	8	0	150.6	31.4	15.6	60.0
Jun 29		1,377		28			1,006	8	8	2	160.1	30.0	16.0	60.8
Jun 30		1,771		87			1,521	15	15	1	157.0	29.1	16.0	60.8
TOTAL	8,846	9,277		686			6,054	135	129	8				
AVG.	385	1,325		23			202	5	4	0	130.9	26.4	14.6	58.6

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	16,390	579
SUMMER	9,277	408
TOTALS	25,667	987

COHO ADULT
1

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
6,081	194	182	8

TABLE 148

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCK ISLAND PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

JULY 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCF5	SPILL KCF5	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Jul 1		1,630		46			1,834	24	22	5	158.1	29.1	15.6	60.8
Jul 2		1,983		53			3,064	16	16	1	136.1	27.8	15.4	61.9
Jul 3		1,709		57			2,949	16	16	0	95.3	20.0	15.0	61.9
Jul 4		993		40			2,520	10	8	1	101.5	20.1	15.2	62.2
Jul 5		1,681		51			2,262	11	9	0	106.4	29.5	15.0	62.6
Jul 6		1,577		37			3,036	15	15	5	139.4	26.3	15.4	63.0
Jul 7		2,441		247			4,061	9	8	2	155.5	29.2	15.0	63.1
Jul 8		1,752		64			3,684	26	25	3	157.9	28.1	14.0	62.1
Jul 9		1,567		61			3,846	27	24	3	125.4	27.3	14.0	67.1
Jul 10		1,438		79			4,436	22	17	1	120.8	27.1	14.4	62.4
Jul 11		1,664		67			6,376	27	23	7	145.7	30.2	14.4	62.2
Jul 12		1,125		62			2,999	23	21	6	147.9	28.1	14.6	62.1
Jul 13		2,438		164			3,171	41	32	4	154.0	28.1	14.6	62.6
Jul 14		675		25			2,301	33	27	7	159.2	30.5	14.4	61.0
Jul 15		896		45			2,153	26	24	15	157.7	30.2	14.0	63.3
Jul 16		1,070		45			1,860	42	33	7	145.3	22.3	14.0	63.7
Jul 17		494		26			1,614	23	21	0	122.0	18.6	14.2	63.7
Jul 18		1,184		53			2,003	37	33	7	143.1	30.0	15.0	63.7
Jul 19		741		73			1,599	53	37	12	131.9	28.9	15.6	64.0
Jul 20		1,018		56			1,359	51	38	8	140.1	30.0	16.0	64.6
Jul 21		554		55			996	59	43	10	143.7	29.5	16.0	64.6
Jul 22		678		31			647	53	40	12	121.7	27.7	16.4	64.6
Jul 23		455		40			825	54	40	9	113.4	22.0	16.0	64.6
Jul 24		868		20			794	81	58	11	105.0	19.0	16.2	64.8
Jul 25		919		25			736	74	44	15	117.5	29.2	16.4	64.9
Jul 26		587		50			454	78	54	32	137.9	29.1	16.0	64.8
Jul 27		955		45			554	96	56	24	139.7	25.2	17.0	65.5
Jul 28		578		31			470	116	81	36	144.4	28.2	17.6	65.9
Jul 29		490		23			362	88	59	5	145.7	28.2	16.8	65.7
Jul 30		468		15			333	86	44	20	146.2	24.9	16.4	65.5
Jul 31		605		14			364	106	59	28	129.3	20.3	16.2	65.9
TOTAL		35,233		1,700			63,662	1,423	1,027	296				

AVG.		1,137		55			2,054	46	33	10	135.1	26.6	15.4	63.7
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	16,390	579
SUMMER	44,510	2,108
TOTALS	60,900	2,687

COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
1	69,743	1,617	1,209	304

TABLE 149

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

ROCK ISLAND PROJECT
AUGUST 2005

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Aug 1		380		13	0		271	104	64	19	118.6	29.0	17.0	66.2
Aug 2		448		23	0		251	101	71	26	90.7	28.4	17.0	66.0
Aug 3		305		9	0		163	100	63	44	98.5	22.6	16.4	66.8
Aug 4		219		14	0		112	80	48	38	123.2	24.5	16.0	66.6
Aug 5		291		14	0		108	133	82	55	125.2	18.0	16.4	66.2
Aug 6		544		9	0		104	142	80	40	104.9	22.0	16.4	66.6
Aug 7		438		15	0		109	131	79	29	103.9	20.0	16.9	66.6
Aug 8		234		16	0		64	119	76	28	113.5	26.0	16.4	66.9
Aug 9		388		47	0		45	139	79	41	119.3	14.3	16.2	66.9
Aug 10		280		8	0		40	129	80	29	112.4	0.0	16.6	67.3
Aug 11		248		12	0		18	126	69	46	105.7	0.0	17.4	67.5
Aug 12		165		17	0		17	104	48	88	110.3	0.0	18.0	67.9
Aug 13		222		6	0		22	123	60	46	85.0	0.0	18.2	67.9
Aug 14		131		13	0		13	137	66	50	77.2	0.0	18.2	68.2
Aug 15		227		21	0		16	80	35	33	106.4	0.0	18.2	68.4
Aug 16		205		10	0		16	152	64	55	112.8	0.0	18.4	68.4
Aug 17		316		13	0		18	140	86	27	121.1	0.0	17.4	68.2
Aug 18		176		6	0		9	86	36	18	120.2	0.0	17.8	67.9
Aug 19		197		16	0		8	117	51	32	116.6	0.0	17.6	67.9
Aug 20		139		17	0		13	99	54	30	102.2	0.0	17.0	67.9
Aug 21		167		11	0		6	75	36	35	88.3	0.0	17.0	68.0
Aug 22		178		20	0		1	89	39	38	110.2	0.0	17.0	68.8
Aug 23		171		11	0		6	125	78	38	94.4	0.0	17.2	68.2
Aug 24		159		18	0		5	87	41	42	102.3	0.0	16.4	68.0
Aug 25		119		26	1		2	93	46	48	105.3	0.0	17.0	68.0
Aug 26		146		11	1		5	82	40	64	115.0	0.0	17.0	68.0
Aug 27		123		25	0		2	95	50	55	98.7	0.0	17.2	68.0
Aug 28		75		19	4		1	78	28	40	75.6	0.0	18.0	68.2
Aug 29		122		12	1		4	82	38	40	92.8	0.0	18.2	68.4
Aug 30		99		11	0		0	97	39	62	106.4	0.0	17.0	67.9
Aug 31		122		6	1		1	117	51	50	113.2	0.0	17.0	67.5
TOTAL		7,034		469	8		1,450	3,362	1,777	1,286				
AVG.		227		15	0		47	108	57	41	105.5	6.6	17.2	67.6
RUN YEAR		CHINOOK ADULT		CHINOOK JACK		COHO ADULT		SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY			
TOTALS TO DATE														
SPRING		16,390		579		9		71,193	4,979	2,986	1,590			
SUMMER		51,544		2,577										
TOTALS		67,934		3,156										

TABLE 150

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

ROCK ISLAND PROJECT
SEPTEMBER 2005

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Sep 1			109	6	0		1	123	50	38	87.3	0.0	17.0	67.7
Sep 2			66	4	2		1	91	40	26	65.3	0.0	16.6	68.2
Sep 3			131	17	0		3	121	48	36	51.0	0.0	17.0	68.2
Sep 4			201	17	6		0	186	89	35	36.5	0.0	17.0	68.2
Sep 5			164	11	3		3	205	99	23	53.5	0.0	17.4	67.9
Sep 6			86	9	0		0	198	93	32	85.7	0.0	17.2	68.4
Sep 7			88	13	1		0	201	90	33	89.0	0.0	17.4	67.7
Sep 8			105	8	1		1	224	112	29	84.4	0.0	17.4	67.9
Sep 9			99	8	3		0	180	86	58	60.9	0.0	18.0	67.9
Sep 10			49	10	2		0	143	73	45	39.7	0.0	17.6	67.5
Sep 11			94	6	8		2	189	88	30	45.5	0.0	17.2	67.1
Sep 12			176	21	6		2	155	73	19	62.5	0.0	18.0	67.1
Sep 13			199	16	10		0	231	106	21	67.1	0.0	18.0	67.1
Sep 14			139	12	23		2	182	95	17	68.1	0.0	18.6	69.3
Sep 15			199	14	10		0	252	126	13	76.1	0.0	18.2	67.1
Sep 16			169	13	19		0	309	123	17	72.1	0.0	18.4	66.7
Sep 17			116	14	43		2	220	98	13	42.0	0.0	18.6	66.8
Sep 18			87	13	20		1	125	64	11	46.1	0.0	18.4	66.6
Sep 19			103	19	52		0	176	74	13	82.6	0.0	18.4	66.8
Sep 20			117	15	67		0	275	129	20	88.1	0.0	18.2	66.9
Sep 21			163	11	117		0	359	178	5	71.0	0.0	18.4	66.4
Sep 22			191	20	77		0	261	97	13	78.3	0.0	18.4	66.6
Sep 23			98	13	67		0	207	77	11	66.2	0.0	18.2	66.4
Sep 24			117	9	165		0	263	113	14	59.7	0.0	18.4	66.4
Sep 25			112	9	138		1	229	100	13	54.8	0.0	18.6	66.2
Sep 26			136	14	163		3	154	59	14	79.5	0.0	18.6	66.4
Sep 27			99	1	156		1	118	47	6	66.3	0.0	19.0	66.0
Sep 28			108	9	184		1	182	103	6	84.9	0.0	18.8	66.0
Sep 29			118	13	219		1	203	92	9	77.4	0.0	18.8	65.9
Sep 30			88	5	225		0	163	84	9	82.4	0.0	18.8	66.9
TOTAL			3,727	350	1,787		25	5,925	2,706	629				
AVG.			124	12	60		1	198	90	21	67.5	0.0	18.0	67.1

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	16,390	579
SUMMER	51,544	2,577
FALL	3,727	350
TOTALS	71,661	3,506

COHO ADULT
1,796

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
71,218	10,904	5,692	2,219

TABLE 151

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCK ISLAND PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

OCTOBER 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Oct 1			89	5	149		1	113	61	3	50.9	0.0	18.6	66.9
Oct 2			124	4	105		0	104	54	7	61.1	0.0	18.8	64.9
Oct 3			179	11	111		0	94	45	2	82.3	0.0	18.8	64.8
Oct 4			178	6	134		2	87	40	2	70.7	0.0	18.6	64.2
Oct 5			240	13	75		0	69	37	2	76.5	0.0	18.8	64.0
Oct 6			119	9	152		0	78	45	4	94.7	0.0	18.0	63.7
Oct 7			206	12	111		0	96	52	3	76.8	0.0	18.0	63.7
Oct 8			141	9	75		0	68	27	1	65.0	0.0	18.2	63.5
Oct 9			152	10	104		0	69	32	2	63.5	0.0	18.0	63.5
Oct 10			147	3	89		0	50	17	5	96.5	0.0	18.2	63.5
Oct 11			43	4	270		0	70	37	1	90.8	0.0	18.0	63.3
Oct 12			229	9	381		3	76	38	2	95.9	0.0	18.0	63.3
Oct 13			408	17	243		0	57	31	4	106.0	0.0	18.2	63.3
Oct 14			194	11	483		0	61	32	2	97.1	0.0	18.0	63.3
Oct 15			339	26	341		0	41	24	1	68.7	0.0	18.2	63.3
Oct 16			286	8	167		2	37	10	2	57.8	0.0	18.8	63.3
Oct 17			120	4	171		0	28	20	0	81.6	0.0	18.8	63.1
Oct 18			107	6	201		0	25	8	1	76.9	0.0	19.0	63.1
Oct 19			127	7	207		0	35	18	0	79.9	0.0	18.6	63.0
Oct 20			108	10	208		0	23	12	1	87.9	0.0	19.0	62.8
Oct 21			58	5	130		0	26	12	0	87.4	0.0	19.0	62.8
Oct 22			82	6	88		0	24	15	1	74.7	0.0	19.0	62.8
Oct 23			88	3	44		0	15	4	1	65.4	0.0	18.4	62.4
Oct 24			81	5	76		0	10	3	1	90.7	0.0	19.0	62.2
Oct 25			55	3	63		0	11	4	0	100.9	0.0	19.0	61.9
Oct 26			121	5	55		0	21	11	0	69.4	0.0	19.0	61.7
Oct 27			84	4	37		0	5	4	0	98.5	0.0	18.2	61.0
Oct 28			109	3	25		0	8	4	0	84.3	0.0	19.2	60.8
Oct 29			119	3	27		0	4	2	0	72.0	0.0	19.6	60.3
Oct 30			77	0	18		0	11	5	0	44.6	0.0	19.8	59.7
Oct 31			157	4	46		0	6	2	0	79.4	0.0	19.8	59.4
TOTAL			4,567	225	4,386		8	1,422	706	48				
AVG.			147	7	141		0	46	23	2	79.0	0.0	18.7	62.9

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	16,390	579
SUMMER	51,544	2,577
FALL	8,294	575
TOTALS	76,228	3,731

COHO ADULT
6,182

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
71,226	12,326	6,398	2,267

TABLE 152

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

ROCK ISLAND PROJECT
NOVEMBER 2005

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	TURBIDITY DEG F
Nov 1			142	3	34			5		4	88.3	0.0	18.0	59.2
Nov 2			152	2	19			8		6	83.9	0.0	18.4	58.5
Nov 3			146	3	18			5		3	76.6	0.0	18.6	58.3
Nov 4			140	3	16			2		0	93.2	0.0	18.8	57.4
Nov 5			64	1	32			6		3	102.1	0.0	19.0	57.6
Nov 6			52	0	18			6		3	75.4	0.0	19.0	56.8
Nov 7			83	1	25			5		3	84.1	0.0	19.0	56.7
Nov 8			41	0	40			7		3	67.0	0.0	19.0	56.5
Nov 9			54	1	53			17		11	80.3	0.0	18.6	55.9
Nov 10			38	0	56			7		3	86.9	0.0	19.2	55.8
Nov 11			22	0	44			5		3	80.7	0.0	19.0	55.4
Nov 12			18	1	16			3		1	56.1	0.0	19.8	55.2
Nov 13			5	0	22			1		1	56.9	0.0	19.8	54.9
Nov 14			11	0	5			6		4	91.0	0.0	19.8	54.3
Nov 15											115.6	0.0	*	*
Nov 16											111.9	0.0	*	*
Nov 17											113.1	0.0	*	*
Nov 18											109.3	0.0	*	*
Nov 19											94.2	0.0	*	*
Nov 20											72.9	0.0	*	*
Nov 21											110.0	0.0	*	*
Nov 22											115.9	0.0	*	*
Nov 23											118.3	0.0	*	*
Nov 24											80.8	0.0	*	*
Nov 25											76.0	0.0	*	*
Nov 26											90.0	0.0	*	*
Nov 27											96.1	0.0	*	*
Nov 28											124.1	0.0	*	*
Nov 29											116.6	0.0	*	*
Nov 30											110.0	0.0	*	*
TOTAL			968	15	398			83		48				
AVG.			69	1	28			6		3	92.6	0.0	19.0	56.6

*Data unavailable

RUN YEAR	CHINOOK ADULT	CHINOOK JACK	COHO ADULT
TOTALS TO DATE	16,390	579	6,580
SPRING	51,544	2,577	
SUMMER	9,262	590	
FALL	77,196	3,746	
TOTALS			

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
71,226	12,409	6,446	2,267

TABLE 153

**MONTHLY COUNT OF STEELHEAD
ROCK ISLAND DAM 1981 - 2005**

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
Total				1,548	1,975	3,141	33,837	93,419	148,161	46,564	4,782		333,427
10-Year Average				29	29	99	1,381	3,735	6,185	1,460	104		13,023

ROCKY REACH DAM

FISH COUNTING SCHEDULE

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

FISH LADDER OPERATING SCHEDULE

Jan 1 to Mar 24	Fishway out of service for 2004/2005 annual maintenance.
Mar 25 to Dec 4	Fishway in service.
Dec 5 to Dec 31	Fishway out of service for 2005/2006 annual maintenance.

FISHWAY ACTIVITIES

The juvenile fish bypass system was operated for fish passage from April 1 to August 31, 2005. 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 2005, the Chelan County PUD tagged and monitored passage of radio-tagged adult bull trout at the Rocky Reach Project, and in the tributaries. The purpose of the bull trout study is to assess the behavior of the fish as they migrate through the dam, associated pool and tributaries. Tagging and monitoring will occur through 2009.

TABLE 154

MONTHLY TOTALS OF SALMONIDS AND LAMPREY COUNTED OVER ROCKY REACH DAM
2005

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*				2	3,108	9,274	31,428	7,750	2,406	1,497	599		56,064
STEELHEAD				278	85	60	762	2,430	4,589	1,423	83		9,710
SOCKEYE					2	2,632	50,917	1,979	30	10			55,570
COHO									189	957	79		1,225
PINK													
TOTAL				280	3,195	11,966	83,107	12,159	7,214	3,887	761		122,569
LAMPREY							38	207	149	10			404

*Jacks included

TABLE 155

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

ROCKY REACH PROJECT
APRIL 2005

DATE	FISH COUNTS						RIVER CONDITIONS								
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F	
Apr 1	BEGIN COUNTING 14 APRIL										94.3	0.0	*	*	
Apr 2											81.5	0.0	*	*	
Apr 3											75.9	0.0	*	*	
Apr 4											102.9	0.0	*	*	
Apr 5											95.2	0.0	*	*	
Apr 6											60.0	0.0	*	*	
Apr 7											63.3	0.0	*	*	
Apr 8											69.2	0.0	*	*	
Apr 9											64.1	0.0	*	*	
Apr 10											48.1	0.0	*	*	
Apr 11											69.3	0.0	*	*	
Apr 12											111.3	0.0	*	*	
Apr 13											86.8	0.0	*	*	
Apr 14	0							11	10			73.9	0.0	19.0	43.2
Apr 15	0							14	14			74.5	0.0	19.0	43.2
Apr 16	0							25	25			60.9	0.0	19.0	43.3
Apr 17	0							13	13			49.8	0.0	19.0	43.3
Apr 18	0							28	28			73.5	0.0	19.0	43.2
Apr 19	0							9	9			83.2	0.0	19.0	43.7
Apr 20	0							12	11			98.7	0.0	19.0	43.7
Apr 21	0							25	24			102.0	0.0	19.0	44.1
Apr 22	0							22	21			92.2	0.0	19.0	44.1
Apr 23	0							10	9			88.0	0.0	19.0	44.1
Apr 24	0							19	19			69.9	0.0	16.0	46.6
Apr 25	0							22	22			99.8	0.0	16.0	46.6
Apr 26	0							14	12			107.7	0.0	16.0	46.6
Apr 27	1							14	14			104.4	0.0	16.0	47.0
Apr 28	1							24	24			96.9	0.0	15.0	47.5
Apr 29	0							5	5			102.5	0.0	15.0	47.5
Apr 30	0							11	11			85.4	0.0	12.0	48.9
TOTAL	2							278	271						
AVG.	0							16	16			82.8	0.0	17.4	45.1

TABLE 156

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

ROCKY REACH PROJECT
MAY 2005

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
May 1	4			0			0	15	15		82.4	0.0	12.0	48.2
May 2	1			0			0	8	7		128.7	0.0	13.0	48.2
May 3	3			0			0	7	7		133.2	0.0	13.0	48.2
May 4	2			0			0	4	4		117.2	0.0	13.0	48.6
May 5	3			0			0	6	6		103.0	0.0	13.0	48.6
May 6	12			0			0	3	3		118.6	0.2	21.0	54.0
May 7	49			0			0	5	5		109.8	0.0	13.0	48.6
May 8	49			0			0	3	3		96.7	0.0	12.0	48.3
May 9	117			1			0	4	3		137.1	0.0	12.0	48.3
May 10	317			0			0	4	4		144.6	15.9	12.0	49.5
May 11	95			0			0	7	7		123.9	35.0	11.0	49.5
May 12	32			0			0	3	3		139.2	34.8	12.0	49.5
May 13	126			0			0	1	1		138.9	31.4	14.0	49.9
May 14	23			1			0	5	5		128.4	26.4	17.0	50.9
May 15	142			2			0	2	2		94.0	25.2	15.5	51.7
May 16	440			6			0	1	0		127.2	33.0	17.0	51.1
May 17	41			2			0	3	3		119.7	0.0	17.0	51.1
May 18	57			7			0	0	0		121.3	0.0	16.0	51.1
May 19	459			17			0	0	0		127.4	32.6	16.0	51.1
May 20	30			3			1	1	1		122.1	31.1	16.0	51.1
May 21	11			2			0	1	1		98.5	25.6	16.0	51.1
May 22	124			6			0	0	0		104.9	23.0	21.0	54.0
May 23	51			9			0	0	0		112.5	0.0	16.0	52.2
May 24	58			22			0	0	0		125.5	0.0	16.0	51.1
May 25	39			14			0	0	0		133.5	0.0	16.0	53.1
May 26	48			17			0	0	0		164.2	5.4	16.0	53.1
May 27	330			30			0	0	0		179.6	37.9	16.0	53.1
May 28	24			25			0	1	1		111.3	21.4	16.0	54.5
May 29	29			11			1	0	0		79.3	14.8	16.0	54.5
May 30	63			20			0	1	1		106.0	25.2	15.0	54.5
May 31	101			33			0	0	0		140.6	0.3	15.0	54.5
TOTAL	2,880			228			2	85	82					
AVG.	93			7			0	3	3		121.6	13.5	15.0	51.1
RUN YEAR														
TOTALS TO DATE		CHINOOK ADULT	CHINOOK JACK				SOCKEYE	STEELHEAD	WILD STEELHEAD					
SPRING		2,882	228				2	363	353					

TABLE 157

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

ROCKY REACH PROJECT
JUNE 2005

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jun 1	21			19			0	0	0		121.3	0.0	15.0	54.5
Jun 2	41			18			0	1	1		120.7	29.1	15.0	55.9
Jun 3	34			23			0	0	0		117.8	30.6	15.0	55.9
Jun 4	59			20			0	1	1		95.5	0.0	15.0	55.9
Jun 5	43			9			0	0	0		76.9	0.0	16.0	56.1
Jun 6	35			11			0	1	1		110.5	30.3	16.0	56.1
Jun 7	26			8			0	0	0		123.9	31.5	16.0	56.1
Jun 8	9			4			0	0	0		132.9	0.2	16.0	56.1
Jun 9	13			5			0	2	2		129.9	0.0	16.0	55.4
Jun 10	65			16			0	0	0		131.6	11.5	16.0	55.4
Jun 11	76			6			0	2	2		97.5	8.5	16.0	55.4
Jun 12	11			1			0	1	1		90.0	7.3	17.0	55.4
Jun 13	161			20			0	0	0		121.2	11.7	17.0	57.2
Jun 14	84			8			2	3	3		136.5	12.0	17.0	57.2
Jun 15	205			8			3	0	0		134.4	11.7	17.0	57.2
Jun 16	60			2			4	1	1		141.0	11.2	17.0	57.2
Jun 17	23			2			2	1	1		131.4	12.8	17.0	57.2
Jun 18	41			1			5	1	1		100.3	10.7	17.0	58.0
Jun 19	679			8			13	0	0		78.4	8.3	18.0	58.2
Jun 20	245			4			15	2	2		143.2	13.0	18.0	58.7
Jun 21	79			1			37	5	5		159.0	12.1	18.0	59.0
Jun 22	813			13			65	3	2		157.4	13.4	17.0	59.0
Jun 23	747			10			91	4	4		151.0	14.9	17.0	59.0
Jun 24		553		10			119	8	7		162.8	14.2	17.0	59.0
Jun 25		493		10			101	2	2		151.1	14.2	17.0	59.0
Jun 26		878		15			313	5	5		122.5	11.6	17.0	59.0
Jun 27		765		1			539	3	3		142.5	14.9	19.8	59.5
Jun 28		630		19			414	4	4		148.3	14.6	17.5	59.8
Jun 29		1172		25			319	8	7		158.3	13.0	17.5	59.8
Jun 30		882		34			590	2	2		156.1	13.5	17.5	59.8
TOTAL	3,570	5,373		331			2,632	60	57					
AVG.	155	768		11			88	2	2		128.1	12.6	16.7	74.1

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE	6,452	445
SPRING	5,373	114
SUMMER	11,825	559

SOCKEYE	STEELHEAD	WILD STEELHEAD
2,634	423	410

Note: due to video failure counts for June 8 and 9 are incomplete.

TABLE 158

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCKY REACH PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

JULY 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY		
	SPRING	SUMMER	FALL										SECCHI	DEG F	
Jul 1		1,605		23			1,369	10	9	0	155.5	13.9	17.5	60.4	
Jul 2		1,259		21			1,476	7	6	0	133.1	12.4	17.5	60.4	
Jul 3		1,112		43			1,570	8	8	0	92.5	8.9	17.5	54.1	
Jul 4		1,434		47			1,963	7	7	0	98.9	7.9	17.5	62.4	
Jul 5		597		23			1,506	3	3	0	104.6	13.1	17.5	62.4	
Jul 6		773		44			1,521	5	5	1	139.7	11.5	18.0	62.4	
Jul 7		1,808		91			2,118	8	5	0	153.9	12.7	18.0	62.4	
Jul 8		1,718		181			3,334	8	6	0	156.5	12.4	18.0	62.4	
Jul 9		1,121		196			2,904	10	8	0	124.1	12.6	16.0	62.4	
Jul 10		1,237		72			3,779	10	8	1	115.5	12.3	18.0	60.8	
Jul 11		1,126		61			3,356	14	11	0	143.3	13.3	16.0	60.8	
Jul 12		1,043		42			3,089	16	13	1	151.8	11.4	16.0	60.8	
Jul 13		858		37			2,117	12	8	0	159.5	12.4	16.0	61.5	
Jul 14		1,659		69			2,837	10	6	0	155.6	13.6	16.0	61.9	
Jul 15		838		52			2,740	25	16	0	153.8	13.3	16.0	61.9	
Jul 16		722		57			1,614	20	16	0	152.1	10.4	16.0	61.9	
Jul 17		897		26			1,432	19	13	0	118.1	8.7	17.0	62.5	
Jul 18		991		39			1,981	18	11	1	143.1	12.9	17.0	62.4	
Jul 19		724		42			1,587	23	13	3	133.1	12.9	17.0	62.4	
Jul 20		850		48			1,517	24	15	2	139.4	13.2	16.0	64.9	
Jul 21		1,101		39			1,376	27	20	1	143.9	13.7	16.0	63.1	
Jul 22		434		35			780	33	21	1	120.9	12.9	17.0	63.1	
Jul 23		812		41			875	34	19	2	112.8	9.6	17.0	63.1	
Jul 24		188		19			412	22	11	1	102.8	8.3	18.0	63.5	
Jul 25		1,006		66			909	57	32	2	118.0	12.7	18.0	63.5	
Jul 26		729		27			601	46	25	1	138.0	12.6	18.0	63.9	
Jul 27		507		59			417	51	29	3	138.8	7.4	21.0	54.0	
Jul 28		607		50			492	52	26	4	145.1	12.4	18.0	63.9	
Jul 29		525		45			401	51	26	4	144.4	12.3	18.0	64.1	
Jul 30		728		56			471	77	52	5	144.1	11.0	18.0	64.1	
Jul 31		726		42			373	55	35	5	129.0	9.2	18.0	64.1	
TOTALS		29,735		1,693			50,917	762	483	38					
AVG.		959		55			1,642	25	16	1	134.2	11.7	17.3	62.0	

RUN YEAR		CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE			
SPRING		6,452	445
SUMMER		35,108	1,807
TOTAL		41,560	2,252

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
53,551	1,185	893	38

TABLE 159

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCKY REACH PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

AUGUST 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Aug 1		594		39			349	98	55	18	114.3	13.1	18.0	65.3
Aug 2		220		29			208	40	20	8	88.4	12.9	18.0	65.3
Aug 3		413		32			180	44	13	4	99.2	10.5	18.0	65.3
Aug 4		347		25			248	86	53	2	122.5	11.2	18.0	65.3
Aug 5		242		16			176	56	32	7	125.3	10.1	18.0	65.3
Aug 6		240		16			119	66	31	8	103.1	9.9	18.0	65.3
Aug 7		398		22			88	58	29	2	102.0	9.0	18.0	65.3
Aug 8		576		42			99	116	55	9	112.9	11.1	18.0	65.3
Aug 9		283		20			95	86	49	12	118.8	11.2	18.0	65.9
Aug 10		330		19			40	89	51	7	111.7	10.8	18.0	66.6
Aug 11		394		33			57	85	46	12	105.0	10.4	18.0	66.7
Aug 12		248		22			53	84	41	9	111.0	8.9	18.0	66.7
Aug 13		226		10			35	66	29	4	83.2	8.2	18.0	66.7
Aug 14		172		12			24	82	30	3	76.0	7.2	18.0	66.7
Aug 15		176		24			27	119	59	5	108.9	8.7	18.0	66.7
Aug 16		303		22			24	181	83	9	118.9	0.0	18.0	67.0
Aug 17		278		23			20	188	93	7	121.5	0.0	18.0	67.0
Aug 18		213		13			13	75	29	6	119.7	0.0	18.0	67.0
Aug 19		251		17			13	113	41	10	116.5	0.0	18.0	66.7
Aug 20		151		23			9	77	28	5	100.9	0.0	18.0	67.0
Aug 21		127		10			8	60	20	6	86.5	0.0	18.0	67.0
Aug 22		262		22			19	81	30	2	111.2	0.0	18.0	67.0
Aug 23		111		11			15	62	23	6	92.0	0.0	18.0	67.0
Aug 24		126		19			16	56	24	5	104.9	0.0	18.0	66.6
Aug 25		129		10			11	61	23	7	106.2	0.0	18.0	66.6
Aug 26		53		12			2	37	13	8	115.0	0.0	18.0	67.1
Aug 27		33		9			9	50	18	8	96.1	0.2	18.0	67.0
Aug 28		87		20			7	36	16	6	74.0	0.0	18.0	67.2
Aug 29		53		7			5	73	28	4	97.3	0.0	18.0	66.8
Aug 30		69		5			6	60	27	2	105.5	0.0	18.0	66.8
Aug 31		55		6			4	45	11	6	114.5	0.9	18.0	66.8
TOTAL		7,160		590			1,979	2,430	1,100	207				
AVG.		231		19			64	78	35	7	105.3	5.0	18.0	66.4

RUN YEAR		CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE			
SPRING		6,452	445
SUMMER		42,268	2,397
TOTALS		48,720	2,842

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
55,530	3,615	1,993	245

TABLE 160

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

ROCKY REACH PROJECT
SEPTEMBER 2005

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Sep 1			40	2	0		2	79	24	8	85.4	2.3	18.0	67.2
Sep 2			53	11	0		1	48	17	15	68.1	0.0	18.0	67.2
Sep 3			89	23	0		1	68	35	14	51.0	0.0	18.0	67.3
Sep 4			65	8	0		2	43	18	10	36.6	0.0	18.0	67.3
Sep 5			67	11	0		3	104	43	13	52.0	0.0	18.0	67.2
Sep 6			50	17	0		1	133	42	5	86.4	0.0	18.0	67.7
Sep 7			69	9	0		2	206	76	9	89.7	0.0	18.0	66.7
Sep 8			83	13	0		2	140	48	3	83.4	0.0	18.0	67.7
Sep 9			42	5	0		1	188	60	3	60.9	0.0	18.0	66.8
Sep 10			151	16	0		1	130	39	6	39.0	0.0	18.0	66.1
Sep 11			75	4	0		0	134	47	5	45.1	0.0	18.0	66.1
Sep 12			92	15	0		2	106	40	8	62.8	0.0	18.0	66.1
Sep 13			110	11	2		4	147	61	3	65.2	0.0	18.0	66.1
Sep 14			99	14	1		1	160	61	9	68.1	0.0	18.0	66.1
Sep 15			101	16	3		2	175	67	6	76.5	0.0	18.0	65.9
Sep 16			59	12	4		0	182	65	1	72.4	0.0	18.0	65.9
Sep 17			136	16	4		0	279	91	2	41.4	0.0	18.5	65.9
Sep 18			178	9	8		2	165	67	3	46.0	0.0	18.0	66.0
Sep 19			30	2	11		0	111	38	1	83.0	0.0	18.0	66.0
Sep 20			14	6	0		0	123	44	2	88.4	0.0	19.0	65.5
Sep 21			21	10	9		1	190	66	4	72.6	0.0	19.0	58.8
Sep 22			48	20	8		0	280	115	2	80.2	0.0	19.0	65.5
Sep 23			31	12	8		0	148	58	3	66.9	0.0	19.0	58.8
Sep 24			57	17	8		0	243	94	3	59.6	0.0	19.0	58.8
Sep 25			102	13	16		0	207	73	2	52.8	0.0	19.0	58.8
Sep 26			28	13	17		1	169	62	3	79.4	0.0	19.0	58.8
Sep 27			65	7	14		0	169	67	0	65.2	0.0	19.0	58.8
Sep 28			40	4	21		1	177	53	4	83.1	0.0	19.0	65.0
Sep 29			63	6	31		0	176	64	0	78.4	0.0	19.0	64.8
Sep 30			22	4	24		0	109	34	2	82.8	0.0	19.0	65.5
TOTAL			2,080	326	189		30	4,589	1,669	149				
AVG.			69	11	6		1	153	56	5	67.4	0.1	18.4	64.8

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	6,452	445
SUMMER	42,268	2,397
FALL	2,080	326
TOTALS	50,800	3,168

COHO ADULT
189

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
55,560	8,204	3,662	394

TABLE 161

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCKY REACH PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

OCTOBER 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Oct 1			49	8	32		1	175	65	1	49.0	0.0	19.0	64.5
Oct 2			84	7	28		1	129	44	2	61.9	0.0	20.0	64.5
Oct 3			47	1	19		2	77	35	1	81.1	0.0	21.0	63.9
Oct 4			25	5	20		0	96	31	2	71.5	0.0	21.0	63.9
Oct 5			14	5	23		3	69	25	2	80.7	0.0	21.0	63.9
Oct 6			9	3	16		0	51	12	0	97.5	0.0	20.0	63.0
Oct 7			17	5	16		0	73	26	0	76.0	0.0	20.0	61.8
Oct 8			18	8	28		1	58	32	0	64.2	0.0	20.0	62.8
Oct 9			27	6	30		0	46	15	1	61.9	0.0	20.0	60.8
Oct 10			25	3	18		0	68	31	0	101.7	0.0	20.0	60.5
Oct 11			65	3	19		1	51	17	0	90.2	0.0	20.0	62.5
Oct 12			23	3	25		0	40	15	0	96.5	0.0	20.0	62.5
Oct 13			31	5	43		0	51	21	0	109.0	0.0	20.0	62.5
Oct 14			110	9	91		0	71	34	0	94.9	0.0	21.0	62.1
Oct 15			44	8	53		0	38	16	0	66.9	0.0	21.0	62.1
Oct 16			101	4	92		0	48	15	1	56.5	0.0	21.0	62.2
Oct 17			18	4	51		0	37	21	0	80.2	0.0	21.0	62.2
Oct 18			11	2	41		0	19	6	0	76.8	0.0	21.5	62.3
Oct 19			31	2	52		0	27	11	0	79.8	0.0	21.0	54.0
Oct 20			56	2	63		0	47	17	0	86.3	0.0	21.0	54.0
Oct 21			33	0	41		0	31	15	0	87.4	0.0	21.0	54.0
Oct 22			27	0	39		0	22	5	0	73.6	0.0	21.0	62.1
Oct 23			44	2	15		0	11	6	0	65.7	0.0	21.0	62.1
Oct 24			29	1	11		0	30	16	0	96.0	0.0	21.0	61.0
Oct 25			48	6	16		0	13	6	0	101.6	0.0	21.0	61.0
Oct 26			39	1	9		1	14	5	0	94.9	0.0	21.0	661.0
Oct 27			47	1	15		0	8	3	0	98.7	0.0	21.0	59.9
Oct 28			64	4	13		0	10	2	0	84.6	0.0	20.0	60.1
Oct 29			36	1	12		0	3	3	0	71.6	0.0	20.0	60.1
Oct 30			80	1	12		0	3	0	0	46.3	0.0	20.0	60.0
Oct 31			135	0	14		0	7	3	0	79.6	0.0	20.0	60.1
TOTAL			1,387	110	957		10	1,423	553	10				
AVG.			45	4	31		0	46	18	0	80.1	0.0	20.5	80.6

RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	6,452	445
SUMMER	42,268	2,397
FALL	3,467	436
TOTALS	52,187	3,278

COHO ADULT
1,146

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
55,570	9,627	4,215	404

TABLE 162

MONTHLY FISH PASSAGE SUMMARY REPORT

ROCKY REACH PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

NOVEMBER 2005

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Nov 1			62	0	6			7	4		89.6	0.0	21.0	56.1
Nov 2			111	1	8			13	8		84.1	0.0	18.0	56.1
Nov 3			75	1	3			5	2		77.1	0.0	18.0	56.1
Nov 4			113	2	4			12	4		92.7	0.0	18.0	60.1
Nov 5			78	1	3			8	3		101.3	0.0	18.0	60.1
Nov 6			43	3	6			4	1		75.6	0.0	18.0	58.6
Nov 7			29	0	7			7	2		84.6	0.0	22.0	58.0
Nov 8			29	1	3			0	0		66.3	0.0	22.0	56.8
Nov 9			18	0	11			5	4		80.7	0.0	22.0	56.8
Nov 10			4	0	3			6	0		85.4	0.0	22.0	56.0
Nov 11			8	0	8			8	2		78.4	0.0	22.0	53.3
Nov 12			15	0	7			3	2		55.1	0.0	22.0	53.3
Nov 13			2	0	8			0	0		55.2	0.0	22.0	52.9
Nov 14			3	0	2			5	4		92.3	0.0	22.0	52.9
Nov 15											115.3	0.0	*	*
Nov 16											111.6	0.0	*	*
Nov 17											112.5	0.0	*	*
Nov 18											111.1	0.0	*	*
Nov 19											91.5	0.0	*	*
Nov 20											72.3	0.0	*	*
Nov 21											54.0	0.0	*	*
Nov 22											114.9	0.0	*	*
Nov 23											116.1	0.0	*	*
Nov 24											78.3	0.0	*	*
Nov 25											74.3	0.0	*	*
Nov 26											88.1	0.0	*	*
Nov 27											95.3	0.0	*	*
Nov 28											126.2	8.0	*	*
Nov 29											112.8	4.2	*	*
Nov 30											109.4	0.0	*	*
TOTAL			590	9	79			83	36					

AVG.			42	1	6			6	3		90.1	0.4	20.5	56.2
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*Data unavailable

RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
	6,452	445	1,225	55,570	9,710	4,251	404
	42,268	2,397					
	4,057	445					
	52,777	3,287					

TABLE 163

**MONTHLY COUNT OF STEELHEAD
ROCKY REACH DAM: 1981 - 2005**

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
Total				1,700	1,647	2,003	20,212	62,896	104,352	37,527	4,365		234,702
10-Year Average				97	39	59	859	2,771	4,736	1,471	155		10,187

WELLS DAM

FISH COUNTING SCHEDULE

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

ADULT PASSAGE FACILITIES

The two fish ladders at Wells Dam are conventional staircase type fish ladders with 73 pools. The ladders are located at the east and west end wall 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 No. 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.

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 2005 were as follows:

East Ladder

January 1 - 12 Inspection & Maintenance

December 1 – 31 (Outage will extend into 2006)

West Ladder

January 13 – February 24 Inspection and Maintenance

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 2005 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 1.1 MAF, or 7.6% of total project discharge. The summer bypass started on June 14 and ran through August 26 for a total of 74 days and a project discharge of 1.3 MAF or 6.8% of the total discharge.

MISCELLANEOUS

In 2005, 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 viewing glass on both ladders was polished during the maintenance period to remove scratches that occurred over several years. This service improved the image dramatically on the video record.

TABLE 164

MONTHLY TOTALS OF SALMONIDS AND LAMPREY COUNTED OVER WELLS DAM
2005

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK*					1,585	4,502	23,419	7,499	2,058	858	299		40,220
STEELHEAD					63	14	366	1,590	3,287	1,738	145		7,203
SOCKEYE						1,304	50,984	3,178	82	11			55,559
COHO									14	283	51		348
TOTAL					1,648	5,820	74,769	12,267	5,441	2,890	495		103,330
LAMPREY							20	55	89	47	1		212

*Jacks included

TABLE 165

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

WELLS PROJECT
MAY 2005

DATE	FISH COUNTS							RIVER CONDITIONS						
	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
	SPRING	SUMMER	FALL											
May 1	0			0				2	2		87.9	7.4	9.0	47.8
May 2	0			0				6	6		131.8	9.4	9.0	47.9
May 3	0			0				5	3		137.4	8.9	9.0	48.2
May 4	0			0				5	4		118.7	8.5	9.0	48.0
May 5	0			0				3	2		103.9	8.1	9.0	48.4
May 6	3			0				3	3		126.7	13.5	9.0	48.8
May 7	2			0				3	1		102.5	8.0	9.0	48.9
May 8	2			0				7	7		100.3	8.0	9.0	49.3
May 9	12			0				0	0		142.1	9.2	9.0	49.4
May 10	21			0				6	6		141.2	9.2	7.0	48.7
May 11	12			0				1	1		124.3	8.8	9.0	49.1
May 12	22			0				6	6		135.3	9.7	12.0	49.9
May 13	150			0				0	0		135.9	9.1	12.0	50.1
May 14	80			1				1	1		125.6	8.9	12.0	50.7
May 15	39			0				1	1		88.8	7.5	14.0	50.9
May 16	77			0				3	3		129.1	8.5	14.0	51.2
May 17	61			0				1	1		116.2	8.7	14.0	51.2
May 18	257			3				1	1		121.9	8.8	14.0	51.4
May 19	28			0				2	2		125.8	8.6	14.0	51.1
May 20	24			2				0	0		120.8	8.7	8.0	51.3
May 21	36			1				1	1		97.0	7.8	8.0	51.2
May 22	65			1				0	0		101.2	7.9	13.0	51.8
May 23	82			0				4	1		114.7	16.3	14.0	52.5
May 24	46			1				0	0		128.8	11.5	13.0	52.5
May 25	136			0				0	0		144.8	17.4	14.0	52.8
May 26	46			11				0	0		168.9	24.4	14.0	52.8
May 27	38			4				1	1		177.1	26.8	10.0	53.4
May 28	22			2				0	0		112.2	10.9	14.0	54.3
May 29	70			1				0	0		80.1	8.3	11.0	55.1
May 30	169			15				1	1		106.0	9.4	11.0	55.7
May 31	42			1				0	0		147.4	11.4	10.0	55.7
TOTAL	1,542			43				63	54					
AVG.	50			1				2	2		122.4	10.6	11.1	51.0
RUN YEAR														
TOTALS TO DATE														
SPRING	1,542			43				63	54					

TABLE 166

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

WELLS PROJECT
JUNE 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Jun 1	44			4			0	0	0		122.0	16.6	9.0	55.2
Jun 2	40			3			0	2	2		118.9	12.4	14.0	55.1
Jun 3	55			5			0	1	1		122.0	9.8	10.0	55.6
Jun 4	35			1			0	0	0		92.0	10.7	10.0	56.0
Jun 5	44			2			0	0	0		75.8	7.0	10.0	55.9
Jun 6	117			8			0	0	0		114.0	8.5	10.0	55.4
Jun 7	40			0			0	0	0		123.4	8.5	12.0	55.2
Jun 8	28			4			0	0	0		137.1	8.8	12.0	54.9
Jun 9	18			2			0	0	0		130.3	9.0	12.0	55.1
Jun 10	27			1			0	0	0		134.1	8.8	11.0	56.1
Jun 11	13			3			0	0	0		97.9	8.2	11.0	56.2
Jun 12	28			1			0	0	0		87.5	7.0	15.0	56.8
Jun 13	58			0			0	0	0		131.6	8.5	15.0	57.0
Jun 14	37			0			0	0	0		140.2	9.0	15.0	56.8
Jun 15	36			0			0	1	1		139.0	8.8	15.0	56.6
Jun 16	97			0			0	1	1		148.1	9.2	14.0	57.0
Jun 17	59			3			2	0	0		133.1	9.7	14.0	57.0
Jun 18	38			3			0	0	0		99.7	8.0	13.0	57.3
Jun 19	40			2			2	0	0		80.1	6.7	14.0	58.1
Jun 20	49			0			0	0	0		150.7	9.6	15.0	58.5
Jun 21	76			1			11	0	0		161.0	10.1	15.0	58.5
Jun 22	71			2			7	0	0		156.6	10.0	15.0	58.6
Jun 23	119			0			21	0	0		159.3	10.0	15.0	58.9
Jun 24	397			0			43	0	0		164.5	10.0	15.0	59.0
Jun 25	449			0			66	2	2		150.7	9.9	15.0	59.0
Jun 26	622			2			86	3	2		126.9	8.9	14.0	59.0
Jun 27	326			5			128	2	2		148.7	10.0	15.0	59.4
Jun 28	392			4			126	0	0		155.5	10.0	13.0	59.1
Jun 29		600		5			357	1	1		162.0	10.0	13.0	59.1
Jun 30		479		7			455	1	1		161.0	14.2	15.0	60.1

TOTAL	3,355	1,079		68			1,304	14	13					
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AVG.	120	540		2			43	0	0		130.8	9.6	13.2	57.2
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	4,897	99
SUMMER	1,079	12
TOTAL	5,976	111

SOCKEYE	STEELHEAD	WILD STEELHEAD
1,304	77	67

TABLE 167

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

WELLS PROJECT

JULY 2005

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Jul 1		924		4			422	1	1	0	155.4	10.7	14.0	60.3
Jul 2		1,254		9			505	8	8	0	133.4	8.7	12.0	60.5
Jul 3		720		9			947	0	0	1	90.3	7.5	15.0	60.6
Jul 4		1,211		6			1,614	3	3	0	98.6	7.7	15.0	61.2
Jul 5		1,150		9			1,237	3	3	2	113.4	9.9	15.0	61.3
Jul 6		829		6			1,603	2	2	1	149.4	10.0	14.0	60.4
Jul 7		339		4			1,216	2	2	2	156.4	10.3	14.0	60.3
Jul 8		603		13			1,668	5	5	0	157.7	10.0	14.0	61.1
Jul 9		1,779		16			1,927	6	6	0	124.0	10.0	14.0	60.6
Jul 10		1,127		26			3,253	3	2	0	119.0	9.0	9.0	60.6
Jul 11		323		6			1,960	0	0	0	156.0	10.0	10.0	61.0
Jul 12		832		30			4,269	8	5	0	148.4	10.0	10.0	61.4
Jul 13		541		16			2,545	4	3	0	156.0	10.0	12.0	61.5
Jul 14		986		23			3,710	17	6	0	159.9	10.1	12.0	62.2
Jul 15		752		12			2,445	5	4	4	157.9	10.0	12.0	62.3
Jul 16		807		7			2,261	3	3	2	146.9	9.4	14.0	61.9
Jul 17		487		11			2,406	11	9	3	116.2	8.2	11.0	62.3
Jul 18		815		15			1,822	15	13	0	148.5	18.8	11.0	62.8
Jul 19		553		10			1,530	10	5	0	138.2	9.5	7.0	62.8
Jul 20		1,120		27			2,142	17	12	0	143.8	10.0	10.0	62.7
Jul 21		757		33			2,426	7	2	2	144.6	8.9	10.0	63.3
Jul 22		639		6			1,530	6	3	1	122.9	8.4	13.0	63.3
Jul 23		877		19			1,466	12	4	-1	114.8	7.8	11.0	62.9
Jul 24		242		12			1,249	18	11	2	101.6	7.6	14.0	63.5
Jul 25		471		10			889	21	13	0	126.6	9.8	11.0	63.8
Jul 26		261		9			719	15	8	0	140.6	9.0	11.0	63.9
Jul 27		435		5			665	25	18	0	141.1	9.6	11.0	63.8
Jul 28		631		23			872	16	10	1	152.1	9.4	11.0	63.8
Jul 29		611		20			650	44	26	0	148.7	8.9	11.0	64.1
Jul 30		370		17			574	33	20	0	147.5	9.0	11.0	64.5
Jul 31		531		29			462	46	20	0	130.7	9.1	13.0	65.1
TOTAL		22,977		442			50,984	366	227	20				

AVG.	741	14	1645	12	7	136.8	9.6	12.0	62.3
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	4,897	99
SUMMER	24,056	454
TOTAL	28,953	553

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
52,288	443	294	20

TABLE 168

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

WELLS PROJECT
AUGUST 2005

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Aug 1		585		9			522	21	11	0	118.2	10.0	15.0	65.0
Aug 2		273		8			336	21	8	2	91.8	7.6	15.0	64.7
Aug 3		173		12			359	41	17	0	106.0	7.8	15.0	64.8
Aug 4		395		9			391	40	20	0	122.4	8.2	15.0	65.2
Aug 5		422		7			223	52	22	4	128.3	8.4	15.0	65.0
Aug 6		219		6			176	25	15	1	105.4	8.5	15.0	64.9
Aug 7		368		4			202	36	19	2	101.5	7.4	15.0	65.4
Aug 8		198		14			174	23	11	0	118.7	7.8	15.0	66.0
Aug 9		297		12			93	40	13	0	120.3	8.3	15.0	66.3
Aug 10		274		26			80	18	9	3	111.1	8.0	15.0	66.3
Aug 11		177		6			80	73	28	2	113.8	8.0	15.0	66.4
Aug 12		614		5			89	68	32	0	112.0	8.0	15.0	66.5
Aug 13		254		10			58	49	20	2	82.8	7.0	15.0	66.5
Aug 14		111		4			69	50	27	1	78.4	6.6	14.0	66.7
Aug 15		317		2			60	31	9	2	117.6	7.8	14.0	66.8
Aug 16		257		4			36	60	19	4	120.4	8.2	15.0	66.7
Aug 17		228		7			36	47	19	1	126.4	8.2	14.0	66.9
Aug 18		202		11			47	94	41	2	123.8	8.1	15.0	66.7
Aug 19		236		24			28	108	57	1	118.2	8.1	15.0	67.4
Aug 20		166		13			19	84	49	1	102.1	7.2	15.0	67.3
Aug 21		112		3			5	55	25	2	88.7	6.6	14.0	67.2
Aug 22		218		7			28	26	12	1	117.4	8.1	14.0	67.3
Aug 23		78		3			10	21	4	7	89.4	7.4	14.0	67.2
Aug 24		165		5			12	66	19	5	108.7	8.0	15.0	67.1
Aug 25		233		11			16	140	51	1	111.6	8.1	15.0	67.2
Aug 26		159		11			5	69	24	1	118.9	8.0	15.0	67.2
Aug 27		110		7			4	58	21	3	91.1	0.1	15.0	67.0
Aug 28		169		3			7	65	28	2	74.0	0.0	15.0	67.1
Aug 29			74	5			5	32	19	3	98.8	0.0	14.0	67.3
Aug 30			73	9			4	61	16	0	108.3	0.3	14.0	67.3
Aug 31			75	10			4	16	8	2	118.8	4.0	14.0	67.5
TOTAL		7,010	222	267			3,178	1,590	673	55				

AVG.	250	74	9	103	51	22	2	107.9	6.8	14.7	66.5
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	4,897	99
SUMMER	31,066	697
FALL	222	24
TOTAL	36,185	820

SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
55,466	2,033	967	75

TABLE 169

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

WELLS PROJECT
SEPTEMBER 2005

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	TURBIDITY DEG F
Sep 1			48	6	0		5	53	15	7	77.8	0.0	12.0	67.6
Sep 2			67	3	0		6	42	13	5	64.1	0.0	12.0	67.6
Sep 3			64	7	0		1	42	11	3	52.9	0.0	12.0	67.6
Sep 4			100	9	0		7	40	16	4	41.2	0.0	14.0	67.3
Sep 5			123	16	0		5	58	19	6	55.0	0.0	14.0	67.1
Sep 6			75	3	0		2	36	9	6	86.4	0.0	14.0	67.0
Sep 7			60	11	0		3	57	16	5	91.9	0.0	14.0	67.1
Sep 8			76	6	0		1	64	28	5	80.2	0.0	14.0	67.1
Sep 9			60	10	0		3	157	46	0	59.7	0.0	12.0	67.1
Sep 10			83	7	0		2	70	23	3	37.4	0.0	14.0	66.8
Sep 11			66	8	0		5	103	38	5	48.4	0.0	14.0	66.5
Sep 12			46	8	0		2	46	17	2	65.3	0.0	13.0	66.4
Sep 13			40	10	0		1	86	23	3	64.8	0.0	15.0	66.6
Sep 14			53	5	0		4	110	31	2	68.5	0.0	15.0	66.8
Sep 15			54	5	0		4	208	80	2	78.8	0.0	7.0	66.9
Sep 16			75	10	0		1	152	51	1	72.2	0.0	14.0	66.6
Sep 17			80	3	0		5	68	25	2	40.6	0.0	14.0	66.5
Sep 18			111	3	1		1	164	41	1	43.6	0.0	13.0	66.5
Sep 19			48	8	1		3	128	52	1	87.6	0.0	13.0	66.6
Sep 20			85	6	0		3	75	26	2	85.3	0.0	13.0	66.7
Sep 21			39	19	1		1	140	41	1	72.1	0.0	14.0	66.4
Sep 22			34	15	0		0	141	49	2	81.4	0.0	14.0	66.3
Sep 23			15	21	0		0	133	52	4	70.5	0.0	13.0	65.9
Sep 24			55	26	0		2	199	60	3	56.1	0.0	13.0	65.7
Sep 25			36	22	0		3	149	69	4	53.5	0.0	14.0	65.7
Sep 26			29	8	0		1	74	17	4	83.6	0.0	14.0	65.4
Sep 27			33	9	0		5	144	48	1	65.7	0.0	14.0	65.4
Sep 28			35	13	4		2	147	50	2	82.7	0.0	14.0	65.5
Sep 29			70	5	4		3	289	108	2	82.5	0.0	14.0	65.4
Sep 30			16	0	3		1	112	47	1	79.1	0.0	14.0	65.4
TOTAL			1,776	282	14		82	3,287	1,121	89				

AVG.			59	9	0		3	110	37	3	67.6	0.0	13.4	66.5
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RUN YEAR	CHINOOK ADULT	CHINOOK JACK
TOTALS TO DATE		
SPRING	4,897	99
SUMMER	31,066	697
FALL	1,998	306
TOTAL	37,961	1,102

COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
14	55,548	5,320	2,088	164

TABLE 170

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

WELLS PROJECT

OCTOBER 2005

DATE	FISH COUNTS						RIVER CONDITIONS							
	CHINOOK ADULT SPRING	CHINOOK ADULT SUMMER	CHINOOK ADULT FALL	CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY SECCHI	DEG F
Oct 1			27	11	3		2	86	35	3	48.7	0.0	14.0	65.1
Oct 2			32	2	5		1	106	34	2	65.0	0.0	14.0	64.8
Oct 3			12	3	2		1	85	27	4	75.1	0.0	14.0	64.3
Oct 4			28	9	18		0	114	34	2	73.1	0.0	14.0	64.1
Oct 5			35	5	0		1	120	33	4	77.8	0.0	14.0	64.2
Oct 6			17	3	0		0	82	35	1	96.3	0.0	14.0	64.2
Oct 7			23	1	4		1	95	28	1	73.7	0.0	14.0	64.0
Oct 8			18	6	0		0	55	13	1	63.4	0.0	14.0	63.7
Oct 9			26	8	7		0	44	17	0	55.2	0.0	13.0	63.6
Oct 10			11	5	2		0	31	11	0	100.8	0.0	13.0	63.5
Oct 11			37	0	4		0	52	16	0	88.6	0.0	12.0	63.6
Oct 12			14	4	4		0	20	6	0	96.0	0.0	13.0	63.6
Oct 13			38	4	15		2	156	29	2	108.3	2.3	13.0	63.2
Oct 14			16	4	3		0	78	29	3	89.7	0.0	14.0	63.3
Oct 15			22	6	20		0	74	25	1	65.3	0.0	14.0	63.2
Oct 16			25	11	9		0	52	22	6	54.3	0.0	7.0	63.1
Oct 17			26	7	24		0	50	18	1	77.1	0.0	14.0	62.8
Oct 18			68	7	14		0	64	28	0	76.0	0.0	14.0	62.8
Oct 19			30	9	8		0	49	20	1	81.7	3.0	14.0	62.7
Oct 20			33	5	19		0	41	18	4	84.0	0.0	14.0	62.5
Oct 21			22	5	17		1	33	19	0	86.7	0.0	14.0	62.2
Oct 22			20	4	30		0	22	14	2	73.3	0.0	14.0	62.1
Oct 23			27	0	16		2	32	12	0	64.0	0.0	14.0	61.8
Oct 24			29	6	18		0	52	25	1	93.6	0.7	14.0	61.5
Oct 25			19	0	4		0	19	7	3	96.5	0.0	14.0	61.4
Oct 26			19	1	6		0	25	4	2	94.3	0.0	15.0	61.0
Oct 27			7	6	7		0	24	9	1	101.4	0.0	14.0	60.4
Oct 28			9	5	12		0	34	12	1	84.1	0.0	14.0	60.1
Oct 29			15	2	6		0	22	8	0	62.6	0.0	14.0	60.0
Oct 30			4	1	1		0	10	10	1	46.7	0.0	14.0	59.6
Oct 31			8	1	5		0	11	6	0	78.8	0.0	14.0	59.0
TOTAL			717	141	283		11	1,738	604	47				

AVG.			23	5	9		0	56	19		78.5	0.2	13.6	62.6
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RUN YEAR TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK	COHO ADULT	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY
	SPRING	4,897	99	297	55,559	7,058	2,692
SUMMER	31,066	697					
FALL	2,715	447					
TOTAL	38,678	1,243					

TABLE 171

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

WELLS PROJECT
NOVEMBER 2005

FISH COUNTS

RIVER CONDITIONS

DATE	CHINOOK ADULT			CHINOOK JACK	COHO ADULT	COHO JACK	SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	DISCH KCFS	SPILL KCFS	TURBIDITY	
	SPRING	SUMMER	FALL										SECCHI	DEG F
Nov 1			11	0	5			8	5	0	93.6	5.6	14.0	58.9
Nov 2			69	0	17			15	11	0	84.0	0.0	14.0	58.6
Nov 3			34	0	2			20	10	1	74.7	0.2	13.0	58.2
Nov 4			65	1	2			17	4	0	90.9	0.0	14.0	57.8
Nov 5			31	1	1			22	11	0	100.6	6.4	7.0	57.7
Nov 6			26	2	5			17	5	0	71.9	0.0	14.0	57.3
Nov 7			21	0	1			15	6	0	83.7	0.0	14.0	56.9
Nov 8			5	2	2			2	2	0	64.6	0.0	14.0	56.4
Nov 9			2	-1	1			2	1	0	81.8	0.0	14.0	56.2
Nov 10			5	0	2			7	4	0	85.2	0.0	14.0	56.0
Nov 11			5	0	0			5	3	0	75.1	0.0	14.0	56.0
Nov 12			3	0	4			2	0	0	55.8	0.1	14.0	55.6
Nov 13			1	0	1			1	1	0	50.1	0.0	14.0	55.3
Nov 14			11	0	4			10	5	0	96.7	0.1	14.0	54.9
Nov 15			5	0	4			2	0	0	114.9	0.0	14.0	55.0
Nov 16											109.2	2.4	*	*
Nov 17											111.1	2.6	*	*
Nov 18											110.0	0.3	*	*
Nov 19											86.2	0.0	*	*
Nov 20											72.5	0.0	*	*
Nov 21											21.8	0.0	*	*
Nov 22											114.8	10.0	*	*
Nov 23											114.3	6.3	*	*
Nov 24											72.3	0.0	*	*
Nov 25											74.4	0.0	*	*
Nov 26											87.8	0.0	*	*
Nov 27											95.2	0.0	*	*
Nov 28											130.1	13.5	*	*
Nov 29											48.7	0.4	*	*
Nov 30											104.3	0.0	*	*

TOTALS			294	5	51			145	68	1					
AVG.			20	0	3			10	5		85.9	1.6	13.5	56.7	

*Data unavailable.

RUN YEAR										
TOTALS TO DATE	CHINOOK ADULT	CHINOOK JACK		COHO ADULT		SOCKEYE	STEELHEAD	WILD STEELHEAD	LAMPREY	
SPRING	4,897	99		348		55,559	7,203	2,760	212	
SUMMER	31,066	697								
FALL	3,009	452								
TOTAL	38,972	1,248								

TABLE 172

**MONTHLY COUNT OF STEELHEAD
WELLS DAM: 1976 - 2005**

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
TOTAL					1,949	1,245	13,011	49,035	90,794	49,198	8,400		213,632
10-Year Average					34	20	438	1,892	3,515	1,446	168		7,513

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

ADDENDUM
Corrections to previous reports

DATE	PROJECT	FISH SPECIES	COUNT	TABLES AFFECTED
Annual Fish Passage Report 2005	McNary, Ice Harbor, Little Goose, Lower Granite	Steelhead		See https://www.nwp.usace.army.mil/op/fishdata/home.asp for data Table 3 numbers modified and corrected for Run-Years 2002-2003 (night counts removed) and 2003-2004.
Annual Fish Passage Report 2004	All	Steelhead		Table 3 "Total" and "10-year Average" numbers corrected. See following table.
Annual Fish Passage Report 2005	Rock Island	Steelhead		See https://www.nwp.usace.army.mil/op/fishdata/home.asp for data Table 4 Rock Island numbers corrected for Run-Year 2001-2002 and 2002-2003.

TABLE 3

STEELHEAD OVER COLUMBIA AND SNAKE RIVER DAMS 1953 - 2004

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	222,199	230,466	214,586	234,815
2003-04	281,586	298,452	234,893	189,143	181,005	170,558	172,487
Total	7,540,285	5,455,341	5,808,086	3,650,348	2,889,658	1,895,350	2,617,645
10-Year Average	236,421	240,221	179,174	143,459	137,108	124,470	132,250

Extended 1996-2001 count seasons, using video counts November 1-December 15, at Ice Harbor and Lower Granite dams are included.

Extended 2001 video counts November 1 - December 31 at Lower Monumental and Little Goose are included.

Extended 2002 video counts November 1 - December 15 at Ice Harbor are included.

Extended 2002 video counts January, February, and March at Lower Monumental and Little Goose are included.

Extended 2002 video counts for November and December at Lower Monumental, Little Goose, and Lower Granite are included.

Extended 2003 video counts January 1 - March 31 at Lower Monumental and Little Goose are included.

Extended 2004 video counts March, November, and December at Lower Granite are included.