

SUPPLEMENTAL REPORT

Fish Counts at Columbia and Snake River Dams 1938-2002

Fish Counts at Willamette Falls, 1946 – 2002



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INTRODUCTION

Counts for the current year should be considered preliminary.

Fish Counting Schedule at Columbia and Snake River Dams in 2002

Dam	Counting Schedule	Counting Hours/Day ¹
Bonneville	March 15 through March 31	16 ²
	April 1 through October 31	16
	November 1 through November 15	16 ²
The Dalles	April 1 through October 31	16
John Day	April 1 through October 31	16
McNary	April 1 through October 31	16
Ice Harbor	April 1 through October 31	16
	November 1 through December 15	10 ²
Lower Monumental	April 1 through October 31	16
Little Goose	April 1 through October 31	16
Lower Granite	March 1 through March 31	8 ²
	April 1 through October 31	16
	November 1 through December 15	10 ²
Priest Rapids	April 15 through November 15	24
Rock Island	April 14 through November 14	24 ²
Rocky Reach	April 14 through November 14	24 ²
Wells	May 1 through November 15	24 ²

¹ Counting conducted by **live** visual observation.

² Counting by visual observation of **video** recording.

Rounding Procedures Used in Chinook and Coho Tables, 1938-84

Counts over 1,000 are rounded to the nearest 100.

Counts of 100 to 1,000 are rounded to the nearest 10.

Counts of less than 100 are the actual number.

Corrections Underlined

Numbers that have been changed from those in previous reports will be underlined in the first report in which they are changed.

Dates Used to Classify Spring, Summer, and Fall Chinook
at Dams on the Columbia and Snake Rivers

Dam	Spring Chinook ¹	Summer Chinook	Fall Chinook ¹
Bonneville	May 31	June 1-July 31	August 1
The Dalles	June 3	June 4-August 3	August 4
John Day	June 5	June 6-August 5	August 6
McNary	June 8	June 9-August 8	August 9
Priest Rapids	June 13	June 14-August 13	August 14
Wanapum	June 15	June 16-August 15	August 16
Rock Island	June 17	June 18-August 17	August 18
Rocky Reach	June 19	June 20-August 19	August 20
Wells	June 28	June 29-August 28	August 29
Ice Harbor	June 11	June 12-August 11	August 12
Lower Monumental	June 13	June 14-August 13	August 14
Little Goose	June 15	June 16-August 15	August 16
Lower Granite	June 17	June 18-August 17	August 18

¹ Initial dates for spring chinook and final dates for fall chinook depend on when counting begins and ends at the various dams. In the past this has varied from dam to dam as well as from year to year at the same dam.

Bonneville Dam Winter Steelhead

Steelhead recorded on 16-hour daily video (formerly 8-hour counting from live visual observation) during **March 15-31** and **November 1-15** are considered winter steelhead and excluded from the summer steelhead counts.

Bonneville Dam Summer Steelhead

Summer steelhead are counted at Bonneville Dam from **April 1 through October 31**. Those counted from **April 1 through August 25** are considered **Group A** summer steelhead and those counted from **August 26 through October 31** are considered **Group B** summer steelhead.

Counts of Summer Steelhead at Dams above Bonneville

Calendar year counts of summer steelhead begin **June 1** and continue through the last day of counting at each dam. There is no counting during the winter months when numbers are very low. For counts of summer steelhead by run year, fish passing the following March (Lower Granite only), April and May are included with the prior year's count.

Length Criteria used in Differentiating Adult and Jack Chinook and Coho

The following length criteria are based on total length. **Chinook more than or equal to 22 inches at the counting window are considered adults.** Those chinook under 22 inches (and ≥ 12 inches) are counted as chinook jacks. **Coho 18 inches and over when passing are considered to be adults.** Coho under 18 inches (and ≥ 12 inches) are counted as coho jacks. Salmonids under 12 inches are not identified as to species and are considered mini-jacks.

Major Dams on the Columbia and Snake Rivers

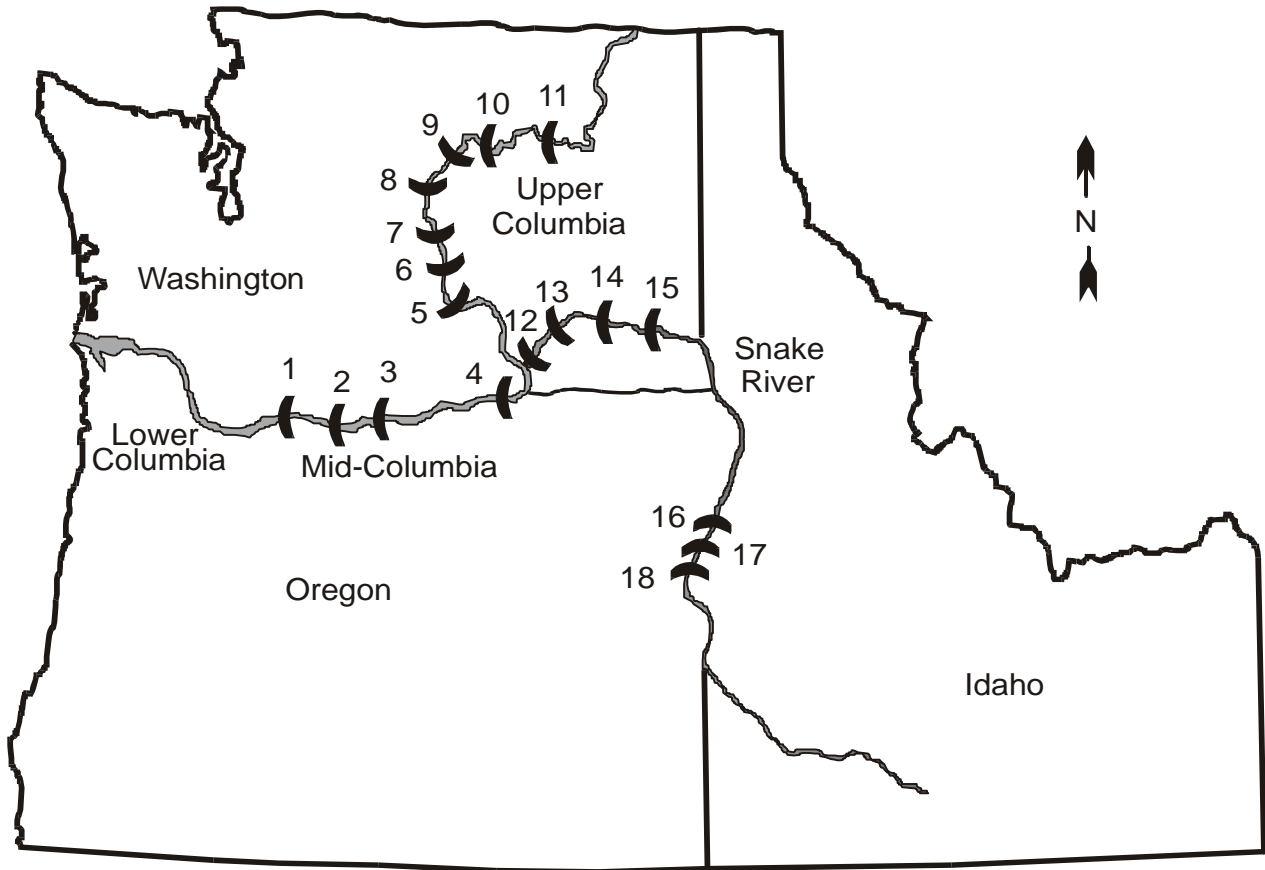


Figure 2: Major Dams on the Columbia and Snake Rivers

Dam	Year in Service	Miles to Mouth	Gross Head (Feet)	Miles of Reservoir	Operator	Adult Fish Passage
1. Bonneville	1938	146	65	45	Corps of Engineers	Yes
2. The Dalles	1957	192	85	24	Corps of Engineers	Yes
3. John Day	1968	216	105	76	Corps of Engineers	Yes
4. McNary	1953	292	75	61	Corps of Engineers	Yes
5. Priest Rapids	1959	397	82	18	Grant County PUD	Yes
6. Wanapum	1963	416	84	38	Grant County PUD	Yes
7. Rock Island	1933	453	54	21	Chelan County PUD	Yes
8. Rocky Reach	1961	474	93	42	Chelan County PUD	Yes
9. Wells	1967	515	72	30	Douglas County PUD	Yes
10. Chief Joseph	1955	545	177	51	Corps of Engineers	No
11. Grand Coulee	1941	597	343	151	Bureau of Reclamation	No
12. Ice Harbor	1961	334	100	32	Corps of Engineers	Yes
13. Lower Monumental	1969	366	100	29	Corps of Engineers	Yes
14. Little Goose	1970	395	100	37	Corps of Engineers	Yes
15. Lower Granite	1975	432	98	39	Corps of Engineers	Yes
16. Hells Canyon	1967	571	210	22	Idaho Power Company	No
17. Oxbow	1961	597	120	12	Idaho Power Company	No
18. Brownlee	1958	609	272	57	Idaho Power Company	No

Fish Counts at Important Columbia Basin Dams, 2002

Dam		Bonneville	The Dalles	John Day	McNary	Ice Harbor ¹	Lower Monumental	Little Goose	Lower Granite	Priest Rapids ²	Rock Island ³	Rocky Reach ³	Wells ³
Species	Counting Dates	3/15-11/15	4/1-10/31	4/1-10/31	4/1-10/31	4/1-12/15	4/1-10/31	4/1-10/31	3/1-12/15	4/15-11/15	4/14-11/14	4/14-11/14	5/1-11/15
Spring Chinook													
Adults		268,813	181,176	139,887	129,357	85,207	76,304	77,232	75,025	34,083	24,017	9,999	7,585
Jacks		6,477	3,870	2,403	3,872	1,826	1,537	1,815	2,089	196	827	161	41
Total		275,290	185,046	142,290	133,229	87,033	77,841	79,047	77,114	34,279	24,844	10,160	7,626
Summer Chinook													
Adults		127,436	113,069	105,354	109,937	26,607	23,744	20,854	22,159	96,326	86,825	73,104	62,595
Jacks		7,952	5,743	5,615	6,810	2,437	1,710	2,254	1,953	1,455	3,216	2,807	412
Total		135,388	118,812	110,969	116,747	29,044	25,454	23,108	24,112	97,781	90,041	75,911	63,007
Fall Chinook													
Adults		473,692	245,928	164,920	141,682	15,319	15,193	12,905	12,351	26,819	14,514	11,372	6,241
Jacks		40,215	33,369	29,550	25,432	6,111	6,185	4,264	5,727	2,628	1,092	1,313	231
Total		513,907	279,297	194,470	167,114	21,430	21,378	17,169	18,078	29,447	15,606	12,685	6,472
Coho													
Adults		88,084	9,765	7,669	2,144	249	138	109	248	1,143	1,750	481	132
Jacks		6,817	3,021	1,603	1,048	40	11	24	149	412	1	0	0
Total		94,901	12,786	9,272	3,192	289	149	133	397	1,555	1,751	481	132
Sockeye													
		49,610	40,554	41,915	39,177	61	46	38	55	47,883	44,320	12,372	10,586
Chum													
		17 (98) ⁴	1	1	0	--	--	--	--	--		--	--
Total Summer Steelhead⁵													
		477,997	385,173	381,998	281,884	207,121	207,567	197,327	206,247	15,858	15,209	11,668	9,409
<i>Wild Summer Steelhead⁵</i>													
		142,752	115,544	109,690	79,500	52,219	53,621	50,975	53,874	n/a	10,299	6,944	5,802
Total Group A (4/1-8/25)													
		284,319											
<i>Wild Group A (4/1-8/25)</i>													
		99,906											
Total Group B (8/26-10/31)													
		193,678											
<i>Wild Group B (8/26-10/31)</i>													
		42,846											
Shad													
		3,164,556	3,218,050	1,850,942	599,294	81,373	58,677	15,161	3,119	4,836	0	0	0

¹ Includes extended season video counting conducted between 0600 and 1600 hours daily from November 1 through December 15.

² Counting by live visual observation 24 hours daily.

³ Counting by visual observation of 24 hour daily video recording.

⁴ Total Chum counted at Bonneville (including extra daytime video counts from Nov. 16 through Dec. 31, and extra nighttime video counts from Nov. 1 to Dec. 31).

⁵ Counts of summer steelhead in this table are by calendar year starting June 1 and going through the year's end counting date at each particular dam (except Bonneville 4/1 through 10/31).

Adult and Jack Counts of Spring Chinook at Five Columbia River Dams 1938-2002

Year	Bonneville			The Dalles			John Day		McNary			Priest Rapids	
	Adults	Comb. ¹	Jacks	Adults	Comb. ¹	Jacks	Adults	Jacks	Adults	Comb. ¹	Jacks	Adults	Jacks
1938		22,400 ²			--		--	--		--		--	--
1939		76,700			--		--	--		--		--	--
1940		66,400			--		--	--		--		--	--
1941		72,300			--		--	--		--		--	--
1942		40,500			--		--	--		--		--	--
1943		65,500			--		--	--		--		--	--
1944		30,900			--		--	--		--		--	--
1945		43,500			--		--	--		--		--	--
1946		67,500			--		--	--		--		--	--
1947		133,600			--		--	--		--		--	--
1948		41,700			--		--	--		--		--	--
1949		50,100			--		--	--		--		--	--
1950		57,300			--		--	--		--		--	--
1951		114,900			--		--	--		--		--	--
1952		116,200			--		--	--		--		--	--
1953		170,300			--		--	--		--		--	--
1954		134,800			--		--	--		52,000		--	--
1955		171,600			--		--	--		21,300		--	--
1956		63,400			--		--	--		12,700		--	--
1957		136,400			109,700		--	--		99,500		--	--
1958		75,200			61,700		--	--		54,900		--	--
1959		61,100			50,900		--	--		40,800		--	--
1960	66,100		3,500		58,400		--	--	48,500		4,000	7,200	1,100
1961	92,800		5,900		79,200		--	--	64,000		4,500	7,100	560
1962	87,500		3,600	66,700		2,400	--	--	53,900		2,000	6,300	870
1963	69,900		5,600	47,100		5,800	--	--	47,300		5,000	4,400	3,000
1964	88,500		2,900	57,300		3,400	--	--	50,900		3,400	9,700	890

Adult and Jack Counts of Spring Chinook at Five Columbia River Dams, 1938-2002 continued

Year	Bonneville		The Dalles		John Day		McNary		Priest Rapids	
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1965	76,400	7,900	36,300	7,300	--	--	25,300	3,900	3,800	1,500
1966	106,300	6,400	89,400	7,200	--	--	80,900	6,300	11,900	1,800
1967	77,600	7,300	61,100	10,900	--	--	55,500	7,100	8,500	1,800
1968	90,300	8,900	84,200	14,500	64,500	13,000	57,500	9,600	9,500	1,400
1969	159,900	13,700	90,200	10,300	73,300	8,400	63,600	6,500	7,300	450
1970	103,047	7,929	74,300	9,200	65,000	7,500	58,400	5,600	5,100	1,000
1971	109,544	15,973	59,600	14,100	46,200	10,400	37,200	5,400	5,000	1,100
1972	178,305	7,835	94,900	8,200	64,100	7,500	64,500	4,500	8,400	400
1973	135,432	6,716	105,700	5,400	91,400	5,300	74,900	4,200	9,000	1,100
1974	124,134 ³	10,401 ³	51,600	4,800	42,000	4,200	36,700	3,300	10,900	280
1975	97,866 ³	6,238 ³	48,600	3,900	34,900	2,800	28,800	4,000	7,700	470
1976	92,613 ³	20,835 ³	44,500	12,100	36,300	9,100	29,200	9,300	11,500	1,800
1977	115,551 ³	3,957 ³	86,600	3,800	73,100	2,700	63,000	3,900	20,600	660
1978	147,682 ³	2,181 ³	83,400	1,600	72,100	640	67,500	910	21,200	220
1979	48,232	2,892	25,600	1,700	20,400	1,600	19,100	2,100	7,400	360
1980	<53,100 ³	<7,887 ³	23,500	4,700	21,500	5,700	18,000	5,100	8,500	2,600
1981	<62,827 ³	<2,182 ³	39,200	1,900	35,700	2,000	29,500	2,800	14,500	320
1982	70,011	6,033	41,500	3,300	33,300	3,300	24,900	3,400	8,700	420
1983	54,898	1,940	35,200	1,700	32,100	1,300	29,800	1,800	10,400	350
1984	46,776	4,269	30,700	3,300	28,800	2,700	23,700	3,800	12,100	560
1985	83,182	7,779	69,565	6,949	65,199	7,190	55,957	7,308	24,053	642
1986	118,082	4,961	83,888	3,116	74,984	2,900	73,246	2,831	21,332	349
1987	98,573	3,234	75,197	2,296	60,434	1,879	58,787	1,609	18,520	255
1988	90,532	4,214	70,400	3,263	52,665	2,530	48,885	2,293	13,115	227
1989	81,267	5,992	48,942	4,072	34,482	3,291	32,502	3,452	11,655	336

Adult and Jack Counts of Spring Chinook at Five Columbia River Dams, 1938-2002 continued

Year	Bonneville		The Dalles		John Day		McNary		Priest Rapids	
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1990	94,158	2,094	56,336	1,088	42,350	777	43,555	944	12,176	112
1991	57,339	3,889	29,657	2,702	20,014	1,833	20,302	2,329	7,737	271
1992	88,425	2,157	56,963	1,488	43,716	1,741	48,629	1,961	19,589 ⁴	447 ⁴
1993	110,820	1,352	68,492	864	55,552	592	58,734	822	29,301 ⁴	41 ⁴
1994	20,169	397	11,543	255	9,551	194	8,768	219	3,106	20
1995	10,192	2,371	5,975	1,578	4,601	1,175	4,612	1,318	1,130	78
1996	<51,493 ³	<4,687 ³	23,877	3,250	18,651	2,948	14,373	3,459	2,430	167
1997	114,000	963	69,365	375	62,253	327	57,832	404	6,780	8
1998	38,342	775	25,225	518	21,800	377	19,415	337	4,124 ⁴	37 ⁴
1999	38,669	8,691	17,563	6,180	15,409	5,089	9,260	3,972	4,149	761
2000	178,302	21,259	102,953	14,796	86,553	12,157	64,647	10,997	20,098 ⁴	1,092 ⁴
2001	391,367	14,172	<u>303,912</u>	9,953	<u>264,177</u>	<u>6,208</u>	258,689	6,683	<u>51,133</u> ⁴	987 ⁴
2002	268,813	6,477	181,176	3,870	139,887	2,403	129,357	3,872	34,083 ⁴	196 ⁴

¹ Differential counts were not conducted for these years.

² Counting began on May 7, 1938.

³ Counts corrected for fallback: 1974, adults - 79,400, jacks - 6,700; 1976, adults - 63,900, jacks - 14,400; 1978, adults - 127,000, jacks - 1,900; 1977, zero fallback; 1975, 1980, 1981, 1996, no estimate available.

⁴ Counting 24 hours daily.

Adult and Jack Counts of Spring Chinook at Four Snake River Dams 1962-2002

Year	Ice Harbor		Lower Monumental		Little Goose ²		Lower Granite		
	Adults	Comb. ¹	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1962		33,600		--	--	--	--	--	--
1963		26,800		--	--	--	--	--	--
1964	22,900		1,400	--	--	--	--	--	--
1965	11,100		1,100	--	--	--	--	--	--
1966	41,700		2,200	--	--	--	--	--	--
1967	32,700		2,800	--	--	--	--	--	--
1968	39,700		5,100	--	--	--	--	--	--
1969	48,500		3,600	42,000	6,700	--	--	--	--
1970	44,900		3,000	41,400	4,200	38,000	5,600	--	--
1971	28,900		3,700	24,800	6,100	21,800	6,700	--	--
1972	47,200		3,100	41,300	3,000	38,500	2,900	--	--
1973	58,400		2,300	60,100	2,600	52,800	2,700	--	--
1974	18,000		1,300	16,700	1,700	15,500	1,700	--	--
1975	20,200		1,200	19,900	1,500	17,300	1,100	16,100	1,600
1976	20,400		4,600	20,000	4,400	17,800	4,600	15,900	4,600
1977	42,400		2,000	37,300	1,900	37,400	2,200	36,200	2,600
1978	49,000		260	47,000	370	44,000	320	40,700	300
1979	8,500		700	7,300	610	7,100	730	6,800	790
1980	8,300		1,400	6,100	1,200	5,800	1,100	5,500	1,300
1981	15,600		580	13,800	520	13,100	550	13,100	530
1982	14,300		300	15,000	270	--	--	12,400	380
1983	12,100		410	12,600	370	--	--	9,500	510
1984	8,100		930	8,500	1,200	--	--	6,500	1,400
1985	31,294		2,233	29,191	2,574	--	--	25,207	2,530
1986	38,075		1,012	38,550	1,126	--	--	31,722	1,307
1987	31,276		807	31,239	706	--	--	28,835	946
1988	33,336		1,058	33,622	996	--	--	29,495	924
1989	15,376		1,653	16,274	2,012	--	--	12,955	1,549
1990	20,512		218	19,764	312	--	--	17,315	234
1991	10,182		1,106	8,738	959	6,885	889	6,623	980
1992	25,460		654	23,503	626	21,537	689	21,391	533
1993	24,693		242	24,261	245	23,339	344	21,035	183
1994	3,416		56	3,555	75	3,236	92	3,120	47
1995	1,507		366	1,664	495	1,307	450	1,105	373
1996	5,973		1,698	5,966	1,819	5,226	1,915	4,207	1,639
1997	41,398		75	38,479	146	37,874	108	33,855	81
1998	12,434		130	10,598	131	10,512	118	9,854	109
1999	5,351		2,657	3,924	2,726	3,445	2,690	3,296	2,507
2000	38,789		9,489	35,520	10,336	34,330	10,152	33,822	10,318
2001	171,173		3,026	<u>180,820</u>	<u>1,794</u>	<u>175,107</u>	<u>2,704</u>	171,958	3,135
2002	85,207		1,826	76,304	1,537	77,232	1,815	75,025	2,089

¹ Differential counts were not conducted for these years.

² No counts by species available from 1982 through 1990.

Adult and Jack Counts of Summer Chinook at Four Snake River Dams 1962-2002

Year	Ice Harbor			Lower Monumental		Little Goose ²		Lower Granite	
	Adults	Comb. ¹	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1962		30,600		--	--	--	--	--	--
1963		20,900		--	--	--	--	--	--
1964	21,800		2,900	--	--	--	--	--	--
1965	10,800		3,900	--	--	--	--	--	--
1966	12,800		4,200	--	--	--	--	--	--
1967	25,000		5,300	--	--	--	--	--	--
1968	23,300		6,200	--	--	--	--	--	--
1969	28,400		2,500	26,300	4,200	--	--	--	--
1970	16,400		3,000	17,500	4,900	16,400	6,700	--	--
1971	23,500		3,100	23,000	4,800	21,400	5,400	--	--
1972	21,300		1,500	20,900	1,800	18,600	1,900	--	--
1973	12,000		830	11,200	1,200	10,900	1,000	--	--
1974	9,700		550	9,500	780	7,600	700	--	--
1975	7,200		540	7,900	700	6,300	590	7,600	940
1976	7,300		2,700	5,500	2,500	6,300	2,600	7,000	2,900
1977	9,500		870	7,700	490	7,800	570	7,700	720
1978	10,200		230	8,400	100	10,400	50	11,600	100
1979	1,700		900	1,500	570	2,800	610	2,700	860
1980	2,300		980	2,000	710	2,500	510	2,700	760
1981	3,300		500	3,500	550	3,600	420	3,300	480
1982	4,200		320	4,100	230	--	--	4,200	320
1983	4,300		600	3,900	530	--	--	3,900	770
1984	5,500		970	5,800	1,200	--	--	5,400	1,800
1985	4,067		1,223	3,622	1,223	--	--	5,062	1,577
1986	6,981		764	5,175	832	--	--	6,154	1,255
1987	6,606		376	5,475	466	--	--	5,891	660
1988	7,373		417	6,235	378	--	--	6,145	362
1989	3,453		762	3,382	1,004	--	--	3,169	902
1990	5,630		164	5,549	189	--	--	5,093	128
1991	4,703		1,158	4,121	1,147	3,678	1,072	3,809	1,179
1992	3,993		384	3,290	233	2,835	256	3,014	298
1993	6,820		99	7,214	135	7,061	161	7,889	130
1994	922		81	958	77	770	103	795	69
1995	736		179	865	243	798	209	692	157
1996	3,277		809	3,141	914	3,153	906	2,607	944
1997	9,196		122	9,153	100	9,372	65	10,709	127
1998	5,473		304	4,290	301	4,298	334	4,355	328
1999	3,900		1,311	3,372	1,344	3,273	1,583	3,260	1,584
2000	4,241		3,179	4,680	3,277	4,203	3,788	3,939	3,756
2001	15,270		2,397	19,287	1,612	15,929	2,803	13,735	3,804
2002	26,607		2,437	23,744	1,710	20,854	2,254	22,159	1,953

¹ Differential counts were not conducted for these years.

² No counts by species available from 1982 through 1990.

Adult and Jack Counts of Summer Chinook at Five Columbia River Dams 1938-2002

Year	Bonneville			The Dalles			John Day		McNary			Priest Rapids	
	Adults	Comb. ¹	Jacks	Adults	Comb. ¹	Jacks	Adults	Jacks	Adults	Comb. ¹	Jacks	Adults	Jacks
1938		14,800			--		--	--		--		--	--
1939		23,400			--		--	--		--		--	--
1940		22,000			--		--	--		--		--	--
1941		16,400			--		--	--		--		--	--
1942		24,600			--		--	--		--		--	--
1943		13,500			--		--	--		--		--	--
1944		12,600			--		--	--		--		--	--
1945		27,600			--		--	--		--		--	--
1946		51,200			--		--	--		--		--	--
1947		38,900			--		--	--		--		--	--
1948		67,200			--		--	--		--		--	--
1949		46,700			--		--	--		--		--	--
1950		49,600			--		--	--		--		--	--
1951		79,300			--		--	--		--		--	--
1952		84,300			--		--	--		--		--	--
1953		57,800			--		--	--		--		--	--
1954		79,400			--		--	--		61,100		--	--
1955		82,900			--		--	--		71,200		--	--
1956		101,200			--		--	--		90,300		--	--
1957		135,000			116,700		--	--		122,600		--	--
1958		101,900			80,100		--	--		73,700		--	--
1959		89,000			71,400		--	--		75,000		--	--
1960	80,900		4,300		75,300		--	--	69,200		7,700	15,500	3,300
1961	59,700		6,800		50,800		--	--	38,200		7,100	12,800	2,300
1962	72,300		5,200	49,900		7,100	--	--	43,700		9,100	14,500	3,200
1963	53,300		10,700	37,800		9,500	--	--	36,100		8,700	12,100	4,200
1964	72,000		8,500	47,600		8,800	--	--	47,300		7,800	15,000	6,300

Adult and Jack Counts of Summer Chinook at Five Columbia River Dams, 1938-2002 continued

Year	Bonneville		The Dalles		John Day		McNary		Priest Rapids	
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1965	63,500	12,500	41,100	9,400	--	--	35,200	10,200	14,500	7,400
1966	61,400	10,600	49,500	11,600	--	--	47,700	13,100	20,800	6,700
1967	81,100	14,600	58,800	13,800	--	--	48,100	11,900	16,900	4,400
1968	63,800	19,100	50,700	16,700	55,200	20,300	48,700	11,900	17,600	4,500
1969	88,700	13,500	51,500	10,500	49,900	14,800	54,600	9,400	13,100	3,800
1970	51,272	13,630	35,800	12,300	30,500	12,600	34,400	9,000	13,400	4,500
1971	66,334	11,577	42,200	9,600	41,000	9,000	47,800	11,300	15,500	2,200
1972	63,583	7,247	41,000	7,700	39,400	5,100	44,600	5,900	13,400	1,400
1973	35,338	10,022	31,200	7,600	27,900	6,300	27,000	4,800	12,200	2,100
1974	39,030 ²	6,866 ²	26,100	4,200	22,200	3,700	22,000	3,800	12,900	820
1975	32,971 ²	11,380 ²	29,100	10,000	24,100	8,100	25,000	6,700	18,900	3,300
1976	43,805 ²	25,208 ²	27,900	10,900	22,900	13,100	22,900	13,900	17,200	2,100
1977	34,083 ²	6,940 ²	34,500	9,900	24,400	4,800	27,800	4,500	16,300	3,300
1978	39,715 ²	4,608 ²	32,400	2,000	27,900	2,500	27,900	3,700	19,200 ³	2,000
1979	27,742	6,475	26,600	5,700	19,200	4,400	19,500	4,600	20,300	2,400
1980	26,952	4,113	18,600	2,600	16,300	3,300	15,400	3,500	16,000	2,700
1981	22,363	4,566	17,000	2,600	13,900	1,900	12,800	2,400	11,600	750
1982	20,129	6,485	15,100	4,200	13,100	3,200	13,200	3,400	8,800	1,100
1983	18,046	5,412	13,800	3,300	12,000	2,700	13,300	2,900	8,500	1,100
1984	22,421	6,086	18,900	3,700	18,300	4,600	17,900	3,300	16,200	1,300
1985	24,236	5,634	21,395	3,990	18,175	5,314	18,249	3,780	15,910	1,374
1986	26,221	4,820	21,700	3,126	17,954	4,097	22,970	2,828	16,161	913
1987	33,033	4,674	27,798	3,006	19,077	3,167	22,983	2,370	14,131	442
1988	31,315	5,209	25,701	4,191	20,574	2,995	21,264	2,357	13,400	441
1989	28,789	4,186	27,710	2,845	21,200	2,668	22,503	2,205	19,659	503

Adult and Jack Counts of Summer Chinook at Five Columbia River Dams, 1938-2002 continued

Year	Bonneville		The Dalles		John Day		McNary		Priest Rapids	
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1990	24,983	3,038	20,213	2,402	18,384	2,148	19,992	2,256	15,576	400
1991	18,897	3,056	15,726	2,741	14,274	2,598	15,170	2,418	14,815	358
1992	15,063	4,182	11,990	2,986	11,242	2,668	11,905	2,509	8,523 ⁴	1,373 ⁴
1993	22,045	1,571	19,107	956	17,493	871	19,487	887	16,377 ⁴	799 ⁴
1994	17,631	1,900	14,776	1,221	12,025	910	13,189	1,124	14,859	641
1995	15,030	2,043	12,185	1,373	10,376	1,100	11,894	1,325	12,162	446
1996	16,034	1,960	13,023	1,465	11,830	1,318	13,314	1,788	10,995	321
1997	27,939	1,926	20,201	1,255	20,508	1,261	20,934	1,417	13,107	509
1998	21,433	2,678	15,462	1,444	16,246	1,534	16,226	1,408	13,387 ⁴	601 ⁴
1999	26,169	4,022	21,730	3,207	22,210	2,504	19,275	2,343	20,898	517
2000	30,616	13,554	25,147	10,433	23,023	8,033	<u>20,544</u>	7,152	22,306 ⁴	2,504 ⁴
2001	76,156	14,723	71,462	10,926	64,186	10,049	67,914	9,600	<u>53,846</u> ⁴	3,207 ⁴
2002	127,436	7,952	113,069	5,743	105,354	5,615	109,937	6,810	96,326 ⁴	1,455 ⁴

¹ Differential counts were not conducted for these years.

² Counts corrected for fallback; 1974, adults - 28,900, jacks - 5,100; 1975, no estimate available; 1976, adults - 26,700, jacks - 15,400; 1977, zero fallback; 1978, adults - 38,500, jacks - 4,500.

³ Includes estimate for July 20-30 when no counts available.

⁴ Counting 24 hours daily.

Adult and Jack Counts of Fall Chinook at Five Columbia River Dams 1938-2002

Year	Bonneville			The Dalles			John Day		McNary			Priest Rapids	
	Adults	Comb. ¹	Jacks	Adults	Comb. ¹	Jacks	Adults	Jacks	Adults	Comb. ¹	Jacks	Adults	Jacks
1938		234,700			--		--	--		--		--	--
1939		186,100			--		--	--		--		--	--
1940		303,200			--		--	--		--		--	--
1941		372,700			--		--	--		--		--	--
1942		336,800			--		--	--		--		--	--
1943		234,100			--		--	--		--		--	--
1944		197,300			--		--	--		--		--	--
1945		226,400			--		--	--		--		--	--
1946		327,300			--		--	--		--		--	--
1947		308,000			--		--	--		--		--	--
1948		310,600			--		--	--		--		--	--
1949		180,900			--		--	--		--		--	--
1950		250,500			--		--	--		--		--	--
1951		137,600			--		--	--		--		--	--
1952		220,400			--		--	--		--		--	--
1953		104,400			--		--	--		--		--	--
1954		106,800			--		--	--		13,500		--	--
1955		105,300			--		--	--		16,400		--	--
1956		136,300			--		--	--		11,300		--	--
1957		131,800			86,300		--	--		70,600		--	--
1958		249,300			160,100		--	--		97,500		--	--
1959		194,900			85,200		--	--		55,700		--	--
1960	90,600		10,700		63,200		--	--	36,600		10,700	9,700	3,300
1961	101,800		15,000		71,300		--	--	29,600		11,600	8,200	6,700
1962	108,300		9,700	52,600		8,400	--	--	36,200		7,900	10,300	3,700
1963	107,300		31,800	40,900		39,800	--	--	27,100		30,300	4,400	15,600
1964	155,100		17,400	48,100		18,700	--	--	40,400		18,200	8,200	11,000

Adult and Jack Counts of Fall Chinook at Five Columbia River Dams, 1938-2002 continued

Year	Bonneville		The Dalles		John Day		McNary		Priest Rapids	
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1965	113,500	44,200	50,000	50,900	--	--	41,100	35,200	9,300	15,300
1966	127,000	28,400	65,300	17,700	--	--	51,100	24,000	10,300	10,400
1967	134,000	51,600	61,500	74,100	--	--	42,900	30,200	7,600	9,700
1968	122,300	36,900	63,400	33,300	46,700	34,000	49,200	23,500	7,900	7,400
1969	162,700	69,100	76,300	75,500	58,900	70,700	55,400	24,000	6,300	9,800
1970	159,713	49,189	65,800	64,000	52,900	53,900	43,200	18,300	6,700	13,200
1971	152,862	49,412	63,300	61,700	45,300	41,900	49,000	20,700	8,500	3,800
1972	94,149	43,337	51,100	65,800	39,500	70,000	37,600	11,700	4,700	4,400
1973	148,066	63,061	72,000	59,100	56,500	62,100	46,600	26,600	4,900	5,200
1974	125,246	61,082	59,700	70,800	42,000	53,800	34,600	27,400	5,000	2,600
1975	219,483	57,628	65,200	60,600	37,700	51,500	29,600	39,100	4,300	9,100
1976	228,489	96,823	53,800	67,000	32,700	61,700	28,800	59,200	5,500	5,300
1977	132,035	74,091	48,800	41,400	37,100	52,800	37,600	46,800	4,100	2,800
1978	144,934	55,480	51,700	28,200	38,500	33,200	27,900	16,200	4,800	1,700
1979	144,039	46,588	55,600	35,500	37,200	35,400	31,200	18,700	4,900	2,900
1980	127,718	25,748	51,800	12,800	36,900	16,900	29,900	9,100	6,000	2,400
1981	147,109	46,603	45,000	29,400	30,300	30,600	21,100	12,100	3,800	1,600
1982	157,771	62,380	55,900	52,700	40,700	50,500	31,100	26,200	8,700	4,300
1983	112,721	50,817	65,900	36,400	52,300	39,300	48,700	25,300	8,200	2,400
1984	147,230	97,643	83,500	63,900	71,600	62,800	61,000	49,400	7,500	4,100
1985	189,011	154,031	135,015	134,068	104,969	136,777	93,308	109,881	11,133	8,998
1986	226,426	190,371	160,964	170,219	119,935	126,830	113,265	127,277	19,015	10,481
1987	337,004	70,976	253,120	59,813	194,447	48,748	154,146	46,743	34,982	4,825
1988	290,049	72,706	212,348	62,177	152,682	45,805	114,741	54,068	22,165	4,610
1989	263,149	32,734	176,845	21,754	127,480	19,134	96,493	19,251	14,833	2,260

Adult and Jack Counts of Fall Chinook at Five Columbia River Dams, 1938-2002 continued

Year	Bonneville		The Dalles		John Day		McNary		Priest Rapids	
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1990	177,406	39,311	98,213	29,304	73,384	19,270	57,612	23,080	6,095	1,898
1991	150,175	41,266	70,820	31,377	55,987	24,215	47,238	27,384	4,690	3,611
1992	116,200	30,272	72,394	22,686	54,983	17,675	51,189	19,514	4,354 ²	3,466 ²
1993	126,472	15,397	85,056	10,478	59,039	8,158	54,876	8,606	7,185 ²	863 ²
1994	170,397	32,956	109,969	23,994	86,202	17,763	85,932	19,636	11,828	2,436
1995	164,202	46,217	90,820	29,862	68,108	21,917	68,186	26,019	13,273	3,467
1996	205,358	17,103	117,144	9,152	88,050	7,805	73,929	8,084	12,555	795
1997	218,734	23,526	117,986	14,619	86,305	14,086	67,192	15,167	11,201	1,431
1998	189,085	28,631	92,932	18,551	78,237	11,834	63,791	13,427	9,662 ²	1,604 ²
1999	242,143	23,482	131,786	19,025	106,052	12,018	78,356	8,740	29,542	1,187
2000	192,793	55,381	124,967	38,540	102,903	36,702	67,572	20,319	38,813 ²	6,410 ²
2001	400,205	74,496	181,316	51,765	124,747	41,620	110,517	36,381	<u>24,225</u> ²	<u>6,532</u> ²
2002	473,692	40,215	245,928	33,369	164,920	29,550	141,682	25,432	26,819 ²	2,628 ²

¹ Differential counts were not conducted for these years.

² Counting 24 hours daily.

Adult and Jack Counts of Fall Chinook at Four Snake River Dams 1962-2002

Year	Ice Harbor		Lower Monumental		Little Goose ²		Lower Granite		
	Adults	Comb. ¹	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1962		30,000		--	--	--	--	--	--
1963		13,500		--	--	--	--	--	--
1964	9,100		2,000	--	--	--	--	--	--
1965	8,200		4,200	--	--	--	--	--	--
1966	12,800		2,200	--	--	--	--	--	--
1967	14,000		5,000	--	--	--	--	--	--
1968	19,500		4,900	--	--	--	--	--	--
1969	13,600		3,900	6,200	1,400	--	--	--	--
1970	9,000		1,400	5,300	2,000	4,500	1,800	--	--
1971	9,300		1,700	7,800	2,400	4,700	1,400	--	--
1972	7,500		1,900	4,100	1,100	1,800	530	--	--
1973	6,700		1,600	3,800	1,700	2,400	760	--	--
1974	2,400		410	2,200	860	900	380	--	--
1975	1,900		620	1,800	1,300	900	710	1,000	1,200
1976	1,100		360	1,100	1,000	430	630	470	830
1977	1,200		540	870	1,100	420	840	600	1,300
1978	1,100		500	500	520	490	780	640	850
1979	1,200		810	620	660	550	640	500	940
1980	1,200		590	570	340	500	200	450	330
1981	770		1,300	490	1,100	420	970	340	1,400
1982	1,600		1,900	930	1,400	--	--	720	1,500
1983	1,800		960	800	720	--	--	540	980
1984	1,700		800	620	610	--	--	640	730
1985	2,046		7,119	982	4,845	--	--	691	1,500
1986	3,104		2,679	1,741	3,160	--	--	784	1,801
1987	6,788		1,624	3,327	1,221	--	--	951	385
1988	3,847		2,035	1,647	1,384	--	--	627	329
1989	4,638		1,352	2,018	900	--	--	706	276
1990	3,470		1,847	1,287	1,114	--	--	385	190
1991	4,500		1,526	2,247	998	795	418	630	397
1992	4,636		894	2,097	396	1,179	250	855	102
1993	2,805		332	2,159	181	1,394	85	1,170	39
1994	2,073		1,033	1,705	849	975	281	791	255
1995	2,750		2,452	2,563	2,053	1,545	752	1,067	308
1996	3,851 ³		811 ³	2,916	850	1,873	465	1,308	424
1997	2,767 ³		1,854 ³	2,281	1,397	1,619	626	1,451	504
1998	4,252 ³		3,524 ³	3,046	3,171	2,032	2,504	1,909	2,002
1999	6,586 ³		3,526 ³	5,508	3,397	4,196	2,048	3,381	1,856
2000	6,533 ³		9,923 ³	5,447	9,701	3,588	6,825	3,694	7,130
2001	13,635 ³		10,196 ³	13,297	8,512	10,550	7,275	8,915	8,834
2002	15,319 ³		6,111 ³	15,193	6,185	12,905	4,264	12,351	5,727

¹ Differential counts were not conducted for these years.

² No counts by species available from 1982 through 1990.

³ Includes extended season video counting between 0600 and 1600 hours daily from November 1 through December 15 (as to concur with COE annual fish passage reports).

Adult and Jack Counts of Coho at Four Snake River Dams 1962-2002

Year	Ice Harbor			Lower Monumental		Little Goose ²		Lower Granite	
	Adults	Comb. ¹	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1962		3,200		--	--	--	--	--	--
1963		1,900		--	--	--	--	--	--
1964		2,100		--	--	--	--	--	--
1965		320		--	--	--	--	--	--
1966		880		--	--	--	--	--	--
1967	2,000		1,800	--	--	--	--	--	--
1968	3,800		2,400	--	--	--	--	--	--
1969	2,300		3,000	4,000	2,500	--	--	--	--
1970	1,800		1,900	1,600	1,300	1,200	1,300	--	--
1971	1,600		1,300	1,400	760	1,700	960	--	--
1972	1,400		1,100	490	240	520	280	--	--
1973	1,300		1,200	860	470	770	380	--	--
1974	580		760	520	290	280	240	--	--
1975	710		850	320	250	400	300	440	470
1976	840		1,200	210	150	320	410	440	460
1977	230		1,300	40	80	110	330	50	220
1978	160		490	90	130	150	160	25	125
1979	130		270	120	80	210	190	50	110
1980	50		8	60	10	90	35	30	13
1981	25		60	19	45	8	110	1	16
1982	160		190	47	37	--	--	31	28
1983	220		240	66	45	--	--	25	26
1984	17		5	23	3	--	--	0	0
1985	8		2	21	3	--	--	2	0
1986	0		0	2	7	--	--	1	0
1987	0		0	0	6	--	--	0	0
1988	0		0	2	1	--	--	0	0
1989	0		0	3	14	--	--	0	0
1990	1		0	1	0	--	--	0	0
1991	1		0	2	3	1	0	0	0
1992	0		0	0	0	0	0	0	0
1993	1		0	0	0	0	0	0	0
1994	1		0	0	0	0	0	0	0
1995	4		0	1	3	8	1	0	0
1996	0 ³		0 ³	2	4	0	0	0	0
1997	127 ³		1 ³	28	2	53	6	84	8
1998	11 ³		4 ³	0	0	1	0	10	2
1999	138 ³		6 ³	81	7	85	4	242	20
2000	1,023 ³		201 ³	579	171	313	0	889	36
2001	1,501 ³		94 ³	798	159	490	50	968	119
2002	249 ³		40 ³	138	11	109	24	248	149

¹ Differential counts were not conducted for these years.

² No counts by species available from 1982 through 1990.

³ Includes extended season video counting between 0600 and 1600 hours daily from November 1 through December 15 (as to concur with COE annual fish passage reports).

Adult and Jack Counts of Coho at Five Columbia River Dams 1938-2002

Year	Bonneville			The Dalles			John Day		McNary			Priest Rapids		
	Adults	Comb. ¹	Jacks	Adults	Comb. ¹	Jacks	Adults	Jacks	Adults	Comb. ¹	Jacks	Adults	Comb. ¹	Jacks
1938		15,200			--		--	--		--			--	
1939		14,400			--		--	--		--			--	
1940		11,900			--		--	--		--			--	
1941		17,900			--		--	--		--			--	
1942		12,400			--		--	--		--			--	
1943		2,500			--		--	--		--			--	
1944		4,200			--		--	--		--			--	
1945		790			--		--	--		--			--	
1946		3,900			--		--	--		--			--	
1947		11,200			--		--	--		--			--	
1948		4,100			--		--	--		--			--	
1949		1,000			--		--	--		--			--	
1950		10,200			--		--	--		--			--	
1951		5,200			--		--	--		--			--	
1952		7,800			--		--	--		--			--	
1953		13,000			--		--	--		--			--	
1954		4,100			--		--	--		950			--	
1955		3,700			--		--	--		640			--	
1956		6,100			--		--	--		680			--	
1957		4,700			6,800		--	--		2,900			--	
1958		3,700			2,400		--	--		1,400			--	
1959		2,700			2,700		--	--		2,000			--	
1960		3,300			3,000		--	--		1,600			630	
1961		3,500			2,100		--	--		2,000			90	
1962		14,800			3,700		--	--		3,200			60	
1963		12,700			3,700		--	--		3,100			30	
1964		53,600			6,000		--	--		3,300			80	

Adult and Jack Counts of Coho at Five Columbia River Dams, 1938-2002 continued

Year	Bonneville		The Dalles		John Day		McNary			Priest Rapids		
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Comb. ¹	Jacks	Adults	Comb. ¹	Jacks
1965	49,400	26,600	7,800	9,700	--	--		2,700			450	
1966	37,000	35,000	15,700	16,600	--	--		8,500			11,500	
1967	48,500	48,000	11,600	20,400	--	--	5,900		21,300		8,900	
1968	43,000	20,500	29,700	13,000	24,400	13,800	21,900		17,600		13,200	
1969	24,200	25,200	5,900	11,200	4,600	9,000	6,700		47,000	680		670
1970	54,868	25,248	11,900	11,300	10,300	9,200	8,300		28,100	2,400		2,600
1971	53,817	22,172	17,900	11,200	23,200	17,600	9,900		29,400	6,900		800
1972	34,216	31,716	6,300	10,300	7,300	10,200	7,600		38,000	2,400		2,900
1973	25,849	28,760	5,900	5,300	9,100	4,200	7,700		9,900	1,400		210
1974	31,605	29,350	5,600	9,100	6,200	8,400	5,100		8,700	1,200		620
1975	32,772	25,535	5,400	8,500	3,100	3,200	1,800		2,200	380		1,800
1976	36,666	16,484	6,300	13,100	4,100	1,700	3,400		4,200	790		1,500
1977	9,325	10,083	3,900	6,100	860	270	1,800		2,800	180		190
1978	30,278	22,312	5,300	13,500	1,000	7,300	4,800		15,600	160		440
1979	29,612	15,716	3,900	4,800	3,800	1,200	6,500		6,300	280		29
1980	12,974	9,078	3,400	3,000	1,000	910	310		260	150		170
1981	21,935	8,575	2,500	4,400	940	1,600	1,700		2,000	130		300
1982	55,816	18,016	4,300	3,000	2,500	1,500	1,400		1,800	1,300		540
1983	8,401	6,775	1,200	2,300	930	710	790		1,700	310		190
1984	16,759	12,728	1,900	1,300	1,300	780	900		1,900	130		48
1985	38,550	18,307	3,070	1,555	791	861	2,784		4,133	151		68
1986	108,649	22,204	3,384	1,458	1,029	904	803		571	72		11
1987	17,922	9,713	1,357	1,953	2,110	1,245	335		280	56		52
1988	27,054	12,566	6,525	2,701	4,243	2,572	1,111		899	52		16
1989	27,418	11,863	7,830	4,781	6,051	3,612	1,925		1,458	30		2

Adult and Jack Counts of Coho at Five Columbia River Dams, 1938-2002 continued

Year	Bonneville		The Dalles		John Day		McNary			Priest Rapids		
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Comb. ¹	Jacks	Adults	Comb. ¹	Jacks
1990	11,627	13,218	2,305	2,340	1,520	1,503	1,054		1,005	28		3
1991	58,868	5,189	8,548	1,053	6,692	1,329	1,609		663	15		7
1992	14,369	3,757	2,586	1,239	1,710	923	1,196		605	1 ²		0 ²
1993	10,642	1,090	3,944	416	2,679	316	360		121	1 ²		0 ²
1994	20,291	2,503	3,786	590	2,455	387	1,347		388	0		0
1995	10,395	1,639	2,786	483	1,913	204	914		107	3		0
1996	15,737	3,010	3,622	961	3,289	990	1,281		572	5		1
1997	24,061	3,206	4,067	662	3,518	711	2,261		319	25		1
1998	46,290	3,630	8,196	774	7,646	851	5,959		214	30 ²		0 ²
1999	40,684	4,468	13,393	1,648	11,901	1,331	4,736		198	51		4
2000	85,649	11,383	24,966	4,570	20,565	3,404	10,147		1,005	336 ²		42 ²
2001	<u>259,553</u>	6,781	62,378	2,179	48,870	2,311	22,918		1,812	10,144 ²		1,045 ²
2002	88,084	6,817	9,765	3,021	7,669	1,603	2,144		1,048	1,143 ²		412 ²

¹ Differential counts were not conducted for these years.

² Counting 24 hours daily.

Counts of Sockeye Salmon at Nine Columbia and Snake River Dams 1938-2002

Year	Bonneville	The Dalles	John Day	McNary	Priest Rapids	Ice Harbor	Lower Monumental	Little Goose ¹	Lower Granite
1938	75,040	--	--	--	--	--	--	--	--
1939	73,382	--	--	--	--	--	--	--	--
1940	148,807	--	--	--	--	--	--	--	--
1941	65,741	--	--	--	--	--	--	--	--
1942	55,464	--	--	--	--	--	--	--	--
1943	39,845	--	--	--	--	--	--	--	--
1944	15,072	--	--	--	--	--	--	--	--
1945	9,501	--	--	--	--	--	--	--	--
1946	74,376	--	--	--	--	--	--	--	--
1947	171,139	--	--	--	--	--	--	--	--
1948	131,541	--	--	--	--	--	--	--	--
1949	51,444	--	--	--	--	--	--	--	--
1950	77,993	--	--	--	--	--	--	--	--
1951	169,428	--	--	--	--	--	--	--	--
1952	184,645	--	--	--	--	--	--	--	--
1953	235,215	--	--	--	--	--	--	--	--
1954	130,107	--	--	108,181	--	--	--	--	--
1955	237,748	--	--	173,758	--	--	--	--	--
1956	156,418	--	--	102,145	--	--	--	--	--
1957	82,915	90,201	--	85,460	--	--	--	--	--
1958	122,389	111,039	--	102,397	--	--	--	--	--
1959	86,560	86,259	--	83,977	--	--	--	--	--
1960	59,713	59,441	--	55,372	58,201	--	--	--	--
1961	17,111	16,689	--	16,388	19,541	--	--	--	--
1962	28,179	27,127	--	29,372	28,575	38	--	--	--
1963	60,319	56,931	--	59,744	64,751	1,118	--	--	--
1964	99,856	79,042	--	83,931	79,167	1,276	--	--	--

Counts of Sockeye Salmon at Nine Columbia and Snake River Dams, 1938-2002 continued

Year	Bonneville	The Dalles	John Day	McNary	Priest Rapids	Ice Harbor	Lower Monumental	Little Goose ¹	Lower Granite
1965	55,125	44,279	--	42,052	48,340	317	--	--	--
1966	156,661	147,886	--	173,028	170,067	278	--	--	--
1967	144,158	120,589	--	105,635	123,786	717	--	--	--
1968	108,207	116,897	87,847	101,007	108,308	1,165	--	--	--
1969	59,636	37,226	39,847	29,787	39,131	745	1,127	--	--
1970	70,762	77,678	78,133	59,636	77,523	797	240	163	--
1971	87,447	76,103	72,232	52,867	73,841	532	808	891	--
1972	56,323	44,671	51,793	26,422	44,957	363	415	408	--
1973	58,979	52,303	64,744	42,731	54,480	233	206	192	--
1974	43,837	28,827	33,121	26,505	35,434	204	114	124	--
1975	58,212	43,198	50,774	43,143	55,209	243	146	173	209
1976	43,611	27,747	30,446	24,632	32,810	771	364	644	531
1977	99,829	86,252	85,701	80,781	95,412	582	293	574	458
1978	18,436	11,845	13,778	18,511	14,913 ²	86	96	168	123
1979	52,628	32,791	43,630	37,792	45,662	30	31	72	25
1980	58,882	42,088	50,675	44,301	52,055	36	48	88	96
1981	56,037	35,447	46,146	36,644	51,460	142	136	200	218
1982	50,219	33,331	37,970	15,077	40,461	174	154	--	211
1983	100,527	84,197	89,810	40,903	89,808	216	119	--	122
1984	152,541	101,379	109,815	56,894	114,757	105	63	--	47
1985	166,340	117,254	124,941	98,157	118,541	24	68	--	35
1986	58,123	48,477	46,327	46,443	43,084	20	26	--	15
1987	116,993	87,599	75,529	72,190	76,578	13	16	--	29
1988	79,714	55,802	48,095	50,080	51,135	22	35	--	23
1989	41,884	39,672	39,374	41,318	45,299	4	9	--	2

Counts of Sockeye Salmon at Nine Columbia and Snake River Dams, 1938-2002 continued

Year	Bonneville	The Dalles	John Day	McNary	Priest Rapids	Ice Harbor	Lower Monumental	Little Goose ¹	Lower Granite
1990	49,581	40,230	42,077	46,141	46,331	1	0	--	0
1991	76,481	63,405	63,760	69,365	71,245	9	6	10	8
1992 ³	84,992	66,384	69,731	68,737	80,857 ⁶	33	15	12	15
1993	80,178	62,252	61,218	66,485	86,626 ⁶	17	18	16	12
1994 ⁴	12,678	9,356	11,170	10,602	12,385	0	7	44	5
1995 ⁵	8,774	7,166	8,667	8,320	9,216	5	4	17	3
1996	30,252	25,055	25,698	28,585	29,457	1	3	1	3
1997	47,008	32,430	35,830	38,043	45,412	15	16	10	11
1998	13,218	8,826	9,837	9,391	10,769 ⁶	3	2	5	2
1999	17,877	13,715	14,809	11,884	16,432	8	15	16	14
2000	93,398	73,383	88,372	60,242	89,547 ⁶	215	291	296	299
2001	114,934	102,562	107,869	97,188	<u>111,326</u> ⁶	38	32	72	36
2002	49,610	40,554	41,915	39,177	47,883 ⁶	61	46	38	55

¹ No counts available by species from 1982 through 1990.

² Includes estimate for July 20-30 when no count available.

³ Of the 15 counted at Lower Granite Dam in 1992, 14 were in the size range normally ascribed to kokanee rather than adult sockeye. Therefore, the count at Ice Harbor Dam was also influenced by migrating kokanee.

⁴ The Technical Advisory Committee concluded that three adult sockeye passed Ice Harbor in 1994. Of the five counted at Lower Granite, two were adult sockeye size. Therefore, the counts at Lower Monumental, Little Goose and Lower Granite were influenced by migrating kokanee.

⁵ Five adult sockeye were counted at Ice Harbor in 1995. The Technical Advisory Committee estimated that five sockeye entered the Columbia River and concluded that four sockeye passed Lower Granite (one more adult sockeye was observed on video tape during a 10-minute break from live counting at Lower Granite). Therefore, the count at Little Goose was again influenced by migrating kokanee.

⁶ Counting 24 hours daily.

Counts of Summer Steelhead by Calendar Year at Nine Columbia and Snake River Dams June 1 through the End of the Year, 1938-2002

Year	Bonneville ¹		The Dalles	John Day	McNary	Priest Rapids	Ice Harbor	Lower Monumental	Little Goose ⁴	Lower Granite
	Group A	Group B								
1938	49,306 ²	57,266	--	--	--	--	--	--	--	--
1939	79,484	41,601	--	--	--	--	--	--	--	--
1940	104,935	78,099	--	--	--	--	--	--	--	--
1941	56,355	57,713	--	--	--	--	--	--	--	--
1942	64,922	85,833	--	--	--	--	--	--	--	--
1943	40,533	50,247	--	--	--	--	--	--	--	--
1944	50,359	47,588	--	--	--	--	--	--	--	--
1945	67,596	47,004	--	--	--	--	--	--	--	--
1946	89,767	48,354	--	--	--	--	--	--	--	--
1947	72,549	59,843	--	--	--	--	--	--	--	--
1948	85,549	51,152	--	--	--	--	--	--	--	--
1949	89,072	27,739	--	--	--	--	--	--	--	--
1950	79,014	33,085	--	--	--	--	--	--	--	--
1951	120,725	19,364	--	--	--	--	--	--	--	--
1952	189,734	70,340	--	--	--	--	--	--	--	--
1953	171,825	49,874	--	--	--	--	--	--	--	--
1954	125,400	49,624	--	--	66,796	--	--	--	--	--
1955	160,608	36,529	--	--	76,122	--	--	--	--	--
1956	98,283	30,782	--	--	37,589	--	--	--	--	--
1957	104,253	33,773	127,758	--	102,613	--	--	--	--	--
1958	79,038	51,613	121,298	--	85,401	--	--	--	--	--
1959	97,979	30,650	156,089	--	108,473	--	--	--	--	--
1960	76,729	36,324	111,189	--	94,080	7,408	--	--	--	--
1961	78,895	59,790	134,572	--	102,267	8,335	--	--	--	--
1962	86,609	76,424	163,301	--	160,769	8,661	106,322	--	--	--
1963	83,355	45,015	118,957	--	111,082	8,527	72,675	--	--	--
1964	75,645	40,565	109,983	--	98,148	5,728	55,045	--	--	--

Counts of Summer Steelhead by Calendar Year at Nine Columbia and Snake River Dams, June 1 through the End of the Year, 1938-2002 continued

Year	Bonneville ¹		The Dalles	John Day	McNary	Priest Rapids	Ice Harbor	Lower Monumental	Little Goose ⁴	Lower Granite
	Group A	Group B								
1965	120,349	45,262	141,016	--	117,236	8,614	59,595	--	--	--
1966	96,887	45,379	145,359	--	141,891	13,006	62,827	--	--	--
1967	78,378	42,606	121,614	--	75,136	6,760	42,045	--	--	--
1968	68,083	38,046	147,458	114,658	103,710	8,882	76,892	--	--	--
1969	103,140	36,158	111,107	78,357	72,585	5,870	55,508	55,154	--	--
1970	77,862	35,099	98,678	79,174	67,411	5,278	51,206	54,094	50,364	--
1971	140,591	52,549	150,707	113,913	108,443	10,621	63,790	65,678	66,140	--
1972	106,735	78,519	134,681	138,139	91,813	5,618	61,187	64,031	58,911	--
1973	99,181	57,492	99,033	89,875	60,596	6,710	35,914	36,811	34,688	--
1974	112,179	23,056	68,984	39,680	25,370	2,915	11,197	13,662	12,373	--
1975	70,506	13,616	55,323	31,463	21,842	2,422	15,245	16,171	13,780	14,522
1976	91,085	31,329	80,196	57,631	51,692	9,112	23,235	20,760	19,497	20,947
1977	112,523	79,205	130,984	100,821	84,995	9,426	53,915	46,708	45,776	51,422
1978	62,438	39,909	58,273	42,816	32,773	4,361 ³	26,146	19,088	23,086	24,461
1979	78,139	34,216	83,270	57,079	51,774	8,275	22,011	17,033	20,085	34,091
1980	83,871	43,737	90,288	73,513	60,808	7,960	45,442	31,282	34,896	34,730
1981	120,754	37,182	110,247	91,572	58,836	8,635	38,954	34,606	36,896	47,343
1982	101,920	54,329	115,416	103,512	70,980	10,653	69,085	59,623	--	67,388
1983	148,370	69,171	169,881	152,658	123,988	31,063	87,324	79,410	--	81,238
1984	188,786	125,742	217,419	196,051	131,207	25,540	91,324	85,510	--	91,401
1985	250,746	91,617	272,109	238,549	178,755	33,590	118,797	102,281	--	105,471
1986	276,442	99,910	279,236	231,472	190,601	21,986	139,902	118,360	--	123,819
1987	222,772	78,258	216,333	167,475	146,316	13,625	72,120	59,839	--	62,987
1988	188,872	88,281	195,010	159,835	146,483	9,784	94,269	79,868	--	79,747
1989	170,836	115,579	232,980	190,012	166,600	10,446	146,420	128,162	--	125,189

Counts of Summer Steelhead by Calendar Year at Nine Columbia and Snake River Dams June 1 through the End of the Year, 1938-2002 continued

Year	Bonneville ¹		The Dalles	John Day	McNary	Priest Rapids	Ice Harbor	Lower Monumental	Little Goose ²	Lower Granite
	Group A	Group B								
1990	94,113	87,396	125,667	103,910	91,647	7,639	51,817	42,019	--	50,628
1991	149,902	123,290	197,397	157,050	166,087	13,582	121,209	95,816	95,760	94,144
1992	174,572	139,301	230,332	193,454	191,957	13,521 ⁵	158,949	128,791	117,037	116,551
1993	99,170	88,058	121,731	91,381	87,401	5,421 ⁵	65,402	62,963	57,828	54,985
1994	82,400	78,367	110,535	90,376	91,469	6,686	48,538	46,997	44,896	42,767
1995	123,290	78,192	145,002	121,260	113,811	4,334	91,114	88,923	76,382	76,318
1996	135,762	68,220	161,306	153,943	123,175	8,353	99,981 ⁶	95,579	81,168	83,264
1997	174,746	82,020	163,615	154,027	128,172	8,926	102,427 ⁶	84,396	72,814	82,283
1998	83,794	100,576	115,640	153,162	98,105	5,821 ⁵	83,329 ⁶	64,555	61,722	67,683
1999	137,903	67,838	156,252	161,848	83,587	8,252	83,357 ⁶	72,224	64,552	71,332
2000	184,336	89,915	204,431	216,937	129,506	11,316 ⁵	125,528 ⁶	111,705	100,077	110,732
2001	434,059	196,171	501,957	480,913	396,960	30,067 ⁵	282,233 ⁶	251,174	230,672	256,810
2002	284,319	193,678	385,173	381,998	281,884	15,858 ⁵	207,121 ⁶	207,567	197,327	206,247

¹ Group A is April 1 through August 25. Group B is August 26 through October 31 (see next table for total summer steelhead Group A and Group B run counts combined).

² No counts available by species from 1982 through 1990.

³ Counting began on May 7, 1938.

⁴ Includes estimate for July 20-30 when no counts were available.

⁵ Counting 24 hours daily.

⁶ Includes extended season video counting between 0600 and 1600 hours daily from November 1 through December 15 (as to concur with COE annual fish passage reports).

Counts of Summer Steelhead by Run Year at Nine Columbia and Snake River Dams June 1 - May 31, 1938-2002

Year	Bonneville ¹	The Dalles	John Day	McNary	Priest Rapids	Ice Harbor	Lower Monumental	Little Goose ²	Lower Granite
1938-39	106,572	--	--	--	--	--	--	--	--
1939-40	120,985	--	--	--	--	--	--	--	--
1940-41	183,021	--	--	--	--	--	--	--	--
1941-42	114,966	--	--	--	--	--	--	--	--
1942-43	150,300	--	--	--	--	--	--	--	--
1943-44	90,780	--	--	--	--	--	--	--	--
1944-45	97,950	--	--	--	--	--	--	--	--
1945-46	114,553	--	--	--	--	--	--	--	--
1946-47	137,863	--	--	--	--	--	--	--	--
1947-48	132,392	--	--	--	--	--	--	--	--
1948-49	136,701	--	--	--	--	--	--	--	--
1949-50	116,811	--	--	--	--	--	--	--	--
1950-51	112,099	--	--	--	--	--	--	--	--
1951-52	140,089	--	--	--	--	--	--	--	--
1952-53	260,074	--	--	--	--	--	--	--	--
1953-54	221,699	--	--	--	--	--	--	--	--
1954-55	175,024	--	--	72,913	--	--	--	--	--
1955-56	197,137	--	--	84,434	--	--	--	--	--
1956-57	129,065	--	--	40,660	--	--	--	--	--
1957-58	138,026	128,124	--	105,136	--	--	--	--	--
1958-59	130,651	120,170	--	87,413	--	--	--	--	--
1959-60	128,629	155,892	--	111,288	--	--	--	--	--
1960-61	113,053	110,955	--	95,556	7,668	--	--	--	--
1961-62	138,685	134,740	--	104,679	8,998	--	--	--	--
1962-63	163,033	163,125	--	163,333	9,398	108,186	--	--	--
1963-64	128,370	118,899	--	113,676	8,808	76,788	--	--	--
1964-65	116,210	110,509	--	99,872	6,155	58,028	--	--	--

Counts of Summer Steelhead by Run Year at Nine Columbia and Snake River Dams, June 1-May31,
1938-2002 continued

Year	Bonneville ¹	The Dalles	John Day	McNary	Priest Rapids	Ice Harbor	Lower Monumental	Little Goose ²	Lower Granite
1965-66	165,611	142,351	--	120,469	9,054	62,566	--	--	--
1966-67	142,266	144,267	--	144,461	13,159	64,987	--	--	--
1967-68	120,984	122,231	--	83,948	9,024	47,536	--	--	--
1968-69	106,129	147,844	122,649	107,806	9,050	85,273	--	--	--
1969-70	139,298	111,617	81,628	74,933	6,140	58,172	63,276	--	--
1970-71	112,961	99,319	81,238	68,598	5,764	54,445	58,430	54,257	--
1971-72	193,140	151,329	117,402	110,450	11,340	66,196	68,704	70,867	--
1972-73	185,254	135,730	149,704	95,837	6,014	63,584	66,650	63,043	--
1973-74	156,673	100,924	93,951	62,158	6,885	37,245	38,288	37,099	--
1974-75	135,235	71,336	40,868	26,191	2,955	12,170	14,851	13,818	--
1975-76	84,122	57,695	33,640	25,150	2,558	15,895	17,236	15,177	16,592
1976-77	122,414	83,194	59,368	54,409	9,490	24,140	21,801	21,109	22,562
1977-78	191,728	133,096	102,193	86,962	9,632	54,911	48,160	47,629	57,029
1978-79	102,347	58,995	43,554	34,580	4,511	27,252	19,849	24,050	26,473
1979-80	112,355	86,317	59,825	54,213	8,710	26,790	20,073	23,816	28,758
1980-81	127,608	93,309	77,113	63,957	8,291	47,778	32,599	36,680	37,996
1981-82	157,936	112,265	96,663	62,955	9,112	43,274	37,755	--	42,420
1982-83	156,249	116,206	105,519	72,245	10,770	70,236	60,775	--	72,384
1983-84	217,541	171,621	157,761	126,706	31,998	90,030	82,555	--	88,760
1984-85	314,528	220,728	204,595	142,246	26,204	101,008	92,947	--	104,417
1985-86	342,363	274,826	245,087	181,694	34,010	123,289	104,400	--	116,334
1986-87	376,352	280,671	234,651	193,096	22,331	142,273	121,107	--	129,983
1987-88	301,030	219,822	172,290	151,587	14,048	77,565	64,717	--	71,280
1988-89	277,153	197,669	163,283	150,350	9,870	98,950	81,324	--	87,137
1989-90	286,415	236,584	193,951	170,014	10,720	149,361	131,050	--	131,420

Counts of Summer Steelhead by Run Year at Nine Columbia and Snake River Dams, June 1-May31,
1938-2002 continued

Year	Bonneville ¹	The Dalles	John Day	McNary	Priest Rapids	Ice Harbor	Lower Monumental	Little Goose ²	Lower Granite
1990-91	181,509	128,123	107,117	94,522	7,858	54,370	44,518	--	56,865
1991-92	273,192	199,244	158,790	168,156	14,047 ⁴	122,874	97,454	96,421	99,052
1992-93	313,873	233,430	197,715	197,739	13,593 ⁴	166,654	136,820	118,949	128,265
1993-94	187,228	123,449	94,080	90,359	5,441 ⁴	68,568	65,883	58,747	59,768
1994-95	160,767	111,378	92,353	92,568	6,709	49,450	48,231	46,258	47,302
1995-96	201,482	146,152	123,319	114,813	4,357	91,938	89,953	77,417	79,126
1996-97	203,982	162,447	156,924	124,820	8,375	101,384 ⁵	96,785	82,573	86,898
1997-98	256,766	164,657	159,412	129,772	8,942 ⁴	104,220 ⁵	85,959	74,845	86,617
1998-99	184,370	116,262	156,628	98,606	5,846 ⁴	84,135 ⁵	65,173	62,641	70,721
1999-2000	205,741	157,062	165,239	84,413	8,267 ⁴	84,253 ⁵	73,135	65,505	73,811
2000-2001	274,251	205,801	219,433	131,330	11,341 ⁴	<u>126,989</u> ⁵	<u>113,454</u>	102,074	<u>116,490</u>
2001-2002	630,230	504,704	489,215	401,881	30,104 ⁴	286,874 ⁵	256,246	236,839	269,281
2002-2003	477,997	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

¹ For Bonneville Dam only, the count is from April 1 through October 31 of the first year listed.

² No counts by species available from 1982 through 1990.

³ Includes estimate for July 20-30 when no counts were available.

⁴ Counting 24 hours daily.

⁵ Includes extended season video counting between 0600 and 1600 hours daily from November 1 through December 15 (as to concur with COE annual fish passage reports).

Counts of Chum at Bonneville and The Dalles Dams 1938-2002

Year	Bonneville	The Dalles
1938	2,117	--
1939	1,168	--
1940	1,729	--
1941	5,269	--
1942	1,865	--
1943	788	--
1944	954	--
1945	728	--
1946	1,178	--
1947	199	--
1948	3,636	--
1949	2,028	--
1950	1,069	--
1951	1,044	--
1952	1,505	--
1953	1,728	--
1954	1,569	--
1955	318	--
1956	693	--
1957	569	75
1958	455	31
1959	906	25
1960	1,026	35
1961	896	0
1962	1,013	0
1963	739	23
1964	632	0
1965	496	1
1966	872	0
1967	352	1
1968	79	0
1969	143	0
1970	209	0
1971	29	0
1972	1	0
1973	43	0
1974	23	0
1975	11	0
1976	11	0
1977	17	0
1978	28	0
1979	1	0

Counts of Chum at Bonneville and The Dalles Dams, 1938-2002 continued

Year	Bonneville	The Dalles
1980	44	0
1981	4	0
1982	12	0
1983	50	1
1984	64	0
1985	97	0
1986	77	3
1987	147	1
1988	60	0
1989	16	0
1990	26	0
1991	5	0
1992	39	0
1993	17	0
1994	26	0
1995	30	0
1996	22	0
1997	47	0
1998	21	0
1999	43	0
2000	17	0
2001	29	0
2002	17	1

Counts of Shad at Nine Columbia and Snake River Dams 1938-2002

Year	Bonneville	The Dalles	John Day	McNary	Priest Rapids	Ice Harbor	Lower Monumental	Little Goose ¹	Lower Granite
1938	5,273	--	--	--	--	--	--	--	--
1939	4,803	--	--	--	--	--	--	--	--
1940	22,230	--	--	--	--	--	--	--	--
1941	18,657	--	--	--	--	--	--	--	--
1942	12,859	--	--	--	--	--	--	--	--
1943	2,848	--	--	--	--	--	--	--	--
1944	17,103	--	--	--	--	--	--	--	--
1945	94,526	--	--	--	--	--	--	--	--
1946	20,383	--	--	--	--	--	--	--	--
1947	26,041	--	--	--	--	--	--	--	--
1948	8,422	--	--	--	--	--	--	--	--
1949	22,579	--	--	--	--	--	--	--	--
1950	7,816	--	--	--	--	--	--	--	--
1951	8,353	--	--	--	--	--	--	--	--
1952	3,131	--	--	--	--	--	--	--	--
1953	16,430	--	--	--	--	--	--	--	--
1954	5,029	--	--	0	--	--	--	--	--
1955	5,808	--	--	0	--	--	--	--	--
1956	8,085	--	--	4	--	--	--	--	--
1957	13,159	5,106	--	636	--	--	--	--	--
1958	10,201	4,530	--	48	--	--	--	--	--
1959	6,720	4,288	--	17	--	--	--	--	--
1960	93,368	81,053	--	1,147	0	--	--	--	--
1961	265,697	113,229	--	1,612	0	--	--	--	--
1962	435,988	216,464	--	12,847	839	253	--	--	--
1963	389,772	160,958	--	9,015	29	675	--	--	--
1964	252,674	158,786	--	14,494	513	373	--	--	--

Counts of Shad at Nine Columbia and Snake River Dams, 1938-2002 continued

Year	Bonneville	The Dalles	John Day	McNary	Priest Rapids	Ice Harbor	Lower Monumental	Little Goose ¹	Lower Granite
1965	617,323	346,277	--	39,810	752	532	--	--	--
1966	557,513	399,035	--	100,366	736	398	--	--	--
1967	222,460	138,998	--	25,673	239	6,531	--	--	--
1968	294,078	231,107	122,616	26,247	322	584	--	--	--
1969	317,358	305,887	174,524	89,402	3,440	441	541	--	--
1970	329,276	308,700	207,530	108,350	7,100	400	866	0	--
1971	189,597	187,549	104,042	41,845	1,454	134	2	0	--
1972	214,725	273,357	142,805	54,176	2,370	1,268	72	0	--
1973	519,207	781,020	419,876	318,377	12,572	11,012	4,036	27	--
1974	98,945	315,392	141,066	58,043	8,028	603	214	1	--
1975	264,246	438,162	196,199	107,583	6,939	3,483	161	0	1
1976	305,219	508,876	193,000	70,694	6,435	5,290	194	1	0
1977	495,723	856,502	476,407	432,749	26,515	41,192	3,362	10	25
1978	861,166	1,234,723	629,005	380,727	21,704	16,278	1,620	2	0
1979	1,039,857	1,398,224	646,187	361,024	20,196	10,489	4,908	121	75
1980	939,390	1,160,752	638,037	275,223	23,701	2,857	4,854	614	308
1981	881,179	1,088,958	527,678	193,373	20,857	5,048	1,274	84	72
1982	780,212	1,002,820	514,861	117,862	17,971	19,337	5,043	--	30
1983	1,419,989	1,932,000	1,172,578	417,130	95,820	13,942	12,595	--	552
1984	1,275,789	1,190,002	586,015	280,785	25,182	8,504	8,144	--	320
1985	974,951	1,389,547	682,344	438,329	44,093	8,120	5,375	--	692
1986	858,170	1,361,854	609,363	307,361	33,972	5,403	2,781	--	156
1987	943,875	1,289,699	739,690	610,042	40,041	8,209	6,563	--	1,037
1988	1,164,320	2,008,572	890,997	665,925	31,780	112,081	55,787	--	2,977
1989	1,877,404	2,971,017	1,773,938	1,076,467	30,836	119,199	43,043	--	1,310

Counts of Shad at Nine Columbia and Snake River Dams, 1938-2002 continued

Year	Bonneville	The Dalles	John Day	McNary	Priest Rapids	Ice Harbor	Lower Monumental	Little Goose ¹	Lower Granite
1990	2,947,865	3,706,856	1,641,943	866,940	23,602	90,164	25,891	--	2,804
1991	1,914,417	2,191,077	1,382,009	674,483	27,638	58,571	20,484	3,889	722
1992	2,551,439	2,824,313	1,963,060	1,635,089	121,547 ²	171,607	123,037	72,629	22,298
1993	2,166,674	2,394,394	647,097	701,404	15,443 ²	48,801	15,896	3,938	927
1994	1,557,555	1,801,545	935,958	668,528	19,643	33,443	18,952	10,066	3,402
1995	1,716,179	1,959,564	1,033,730	481,081	20,583	22,226	9,673	1,478	373
1996	1,924,657	2,648,560	959,262	352,755	10,267	12,954	5,670	715	265
1997	2,171,561	2,571,260	1,007,896	340,090	10,314	5,434	6,879	533	111
1998	1,890,992	2,149,097	1,025,044	393,305	8,079 ²	14,296	18,267	2,330	629
1999	1,638,272	1,718,683	763,007	248,895	4,212	32,578	41,759	7,412	1,006
2000	1,244,317	1,556,619	851,598	350,457	2,463 ²	70,685	74,266	20,185	3,250
2001	2,297,959	2,724,948	1,796,826	1,063,568	4,417 ²	287,874	224,248	63,102	18,432
2002	3,164,556	3,218,050	1,850,942	599,294	4,836 ²	81,373	58,677	15,161	3,119

¹ No counts by species available from 1982 through 1990.

² Counting 24 hours daily.

FISH COUNTS AT WILLAMETTE FALLS, 1946-2002

INTRODUCTION

Fish are counted in the fishway viewing window at Willamette Falls January 1 through December 31 each year. In 2002, 24-hour daily fish passage was recorded on video tape. Tapes are read later. Some visual window counting also occurs. Spring chinook begin to pass in March and are counted through July 31. Beginning August 1 the chinook that pass are considered fall chinook. Fall chinook passage usually slows by early October. Winter steelhead are counted from November 1 through May 15. Summer steelhead are counted from March 1 through October 31. Winter and summer steelhead runs overlap from March 1 through May 15 and are separated based on physical features. Coho pass the falls from August to December.

Fish Counts at Willamette Falls, 1946-2002.

Year	Spring Chinook			Fall Chinook ³		Coho ⁴		Winter Sthd. ⁶	Summer Sthd. ⁷
	Adults	Comb. ¹	Jacks ²	Adults	Jacks	Adults	Jacks ⁵		
1946		53,000		--	--	--	--	--	--
1947		45,000		--	--	--	--	--	--
1948		30,000		--	--	--	--	--	--
1949		27,000		--	--	--	--	--	--
1950		14,500		--	--	--	--	2,200	--
1951		34,300		--	--	--	--	1,200	--
1952		52,200		--	--	--	--	3,400	--
1953	72,300		4,146	--	--	--	--	1,200	--
1954	29,300		1,827	225	145	315	160	5,200	--
1955	20,500		1,500	75	0	340	1,810	2,100	--
1956	58,000		600	6	15	2,600	6,035	3,800	--
1957	37,107		2,193	6	47	2,950	1,200	7,500	--
1958	42,850		2,350	96	29	394	976	5,500	--
1959	29,600		2,300	14	2	2,065	840	3,700	--
1960	13,000		1,400	5	4	512	458	2,200	--
1961	17,200		1,700	--	--	--	--	6,500	--
1962	22,200		3,800	--	--	--	--	5,900	--
1963	29,000		1,300	--	--	--	--	1,000	--
1964	31,747		4,543	--	--	--	--	900	--
1965	26,623		2,439	77	2	7,080	2,184	1,500	--
1966	25,607		2,623	771	255	4,071	2,247	14,700	--
1967	53,689		2,510	1,901	111	7,084	1,614	14,600	--
1968	29,075		2,394	4,043	203	12,400	5,300	6,400	--
1969	31,160		2,554	6,817	140	3,260	14,032	8,400	--
1970	33,410		770	7,457	101	17,902	19,453	4,700	146
1971	43,936		633	4,880	210	17,410	6,670	26,647	2,310
1972	25,339		815	11,614	212	9,983	7,157	23,257	690
1973	40,495		1,465	21,861	376	5,174	1,583	17,900	1,686
1974	44,090		440	33,924	265	1,501	3,941	14,824	4,858

Fish Counts at Willamette Falls, 1946-2002 continued.

Year	Spring Chinook			Fall Chinook ³		Coho ⁴		Winter Sthd. ⁶	Summer Sthd. ⁷
	Adults	Comb. ¹	Jacks ²	Adults	Jacks	Adults	Jacks ⁵		
1975	17,844		1,235	32,877	895	5,922	6,927	6,130	2,910
1976	21,031		1,123	29,269	931	2,333	2,217	9,398	3,876
1977	38,509		1,503	25,742	382	1,007	2,120	13,604	9,244
1978	45,711		1,801	17,437	465	1,711	3,891	16,869	15,172
1979	25,492		1,131	9,905	436	1,788	1,691	8,726	7,638
1980	26,364		609	7,760	625	1,276	1,365	22,356	11,222
1981	28,640		1,417	16,690	1,085	1,032	2,417	16,666	15,224
1982	45,107		1,088	25,760	1,123	1,702	3,517	13,011	12,571
1983	28,692		1,897	13,205	528	949	2,840	9,298	5,301
1984	42,363		1,089	20,060	1,084	2,735	2,560	17,384	25,002
1985	33,095		1,438	29,089	1,114	2,788	2,278	20,592	22,223
1986	37,300		1,855	14,037	810	2,930	2,240	21,251	40,719
1987	52,797		2,035	8,766	183	1,589	3,224	16,765	23,742
1988	68,723		1,728	6,867	88	3,707	4,985	23,378	36,940
1989	65,866		3,314	6,472	513	1,946	1,741	9,572	6,841
1990	69,128		2,145	4,490	422	901	1,817	11,107	23,428
1991	48,696		3,820	6,488	2,949	921	815	4,943	6,360
1992	39,657		2,347	12,635	1,656	940	588	5,396	11,697
1993	29,721		2,245	7,148	136	427	236	3,568	12,920
1994	25,460		642	2,545	147	685	174	5,300	11,819
1995	19,343		1,249	988	69	582	600	4,693	12,704
1996	20,394		1,211	1,175	789	315	976	1,801	6,346
1997	26,248		637	4,448	44	1,407	428	4,544	14,907
1998	33,073		1,388	2,657 ⁸	65 ⁸	373 ⁹	386 ⁹	3,678	12,931 ¹⁰
1999	38,948		1,462	289	63	635	623	6,904	10,935
2000	37,594		1,479	1,896	233	2,839	773	4,761	12,518
2001	52,685		1,288	1,711	39	1,736	402	12,525	26,418
2002	82,144		9,936	763	95	2,337	2,417	16,656	34,291

¹ Differential counts were not conducted for these years.

² Spring chinook under 21" were counted as jacks prior to 1972; since 1972 spring chinook under 22" were counted as jacks.

³ Prior to 1967, fall chinook counts were not corrected to estimate total 24-hour daily passage. Partial fall chinook counting occurred 1954-60, was discontinued from 1961-64, and started again in 1965. Since 1967, counts are complete.

⁴ Prior to 1965, coho counts were not corrected to estimate total 24-hour daily passage. Partial coho counting occurred 1954-60, was discontinued from 1961-64, and started again in 1965. Since 1965, counts are complete.

⁵ In 1990, the length criteria for coho jacks was changed from 22" to 18" for consistency with other facilities on the Willamette and Columbia Rivers.

⁶ Represents year in which passage of winter steelhead is completed. Passage began November 1 of the previous year and are complete by May 15. Counts prior to 1971 are incomplete due to accessibility problems to the old fishway during high flows.

⁷ Summer steelhead were not present prior to 1970.

⁸ The fishway was dewatered on July 20 and counting was discontinued through January 26, 1999 due to modification/construction activities; an estimate of the fall chinook count was made by recent year average proportions and trapping data.

⁹ The Oregon Production Index Technical Team (O.P.I.T.T.) estimated the coho count due to fishway modification/construction activities. The fishway was dewatered on July 20 and counting was discontinued through January 26, 1999.

¹⁰ The fishway was dewatered on July 20 and counting was discontinued through January 26, 1999 due to modification/construction activities; an estimate of the summer steelhead count was made by recent year average proportions.