

**APPENDIX B
HISTORICAL RECORD OF ESCAPEMENTS TO
INLAND FISHERIES AND SPAWNING AREAS**

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TABLE B-1. Sacramento River fall Chinook salmon escapement in numbers of fish.^{a/b/}

Year or Average	Upper Sacramento Natural Areas ^{c/d/e/}		Lower Sacramento Natural Areas ^{c/}						Natural Area Totals ^{c/}		Sacramento Hatcheries				Hatchery Totals		Sacramento Totals				
	Adults	Jacks	Feather River		Yuba River		American River		Adults	Jacks	Coleman		Feather River		Nimbus ^{f/}		Adults ^{g/}	Jacks	Adults	Jacks	
			Adults	Jacks	Adults	Jacks	Adults	Jacks			Adults	Jacks	Adults	Jacks							
1971-1975	58,462	18,289	40,221	9,745	10,877	1,615	41,726	3,695	151,286	33,345	1,373	1,167	3,882	1,387	7,791	1,311	13,661	4,065	164,947	37,410	
1976-1980	67,011	17,905	33,954	3,544	7,387	1,563	28,509	1,344	136,862	24,357	4,239	1,292	4,261	1,043	7,845	2,270	17,804	5,040	154,666	29,397	
1981-1985	57,913	22,432	36,252	5,243	12,825	5,146	32,332	4,954	139,322	37,775	11,557	3,734	6,845	884	10,543	2,444	30,303	7,877	169,625	45,651	
1986-1990	87,396	17,244	38,709	6,426	9,261	2,444	24,420	3,323	159,787	29,437	11,507	2,288	5,837	1,947	6,927	1,943	24,271	6,178	184,057	35,616	
1991-1995	60,151	11,496	32,578	4,355	8,309	2,131	28,549	4,151	129,587	22,134	11,948	2,295	10,537	2,762	7,669	1,664	30,154	6,721	159,741	28,855	
1996	131,268	11,649	44,593	12,577	23,492	4,408	67,719	7,026	267,072	35,660	18,848	2,330	6,494	1,613	9,219	2,273	34,561	6,216	301,633	41,876	
1997	167,353	13,736	47,009	3,538	19,202	6,746	46,036	6,159	279,600	30,179	44,590	6,080	13,358	1,770	7,293	2,435	65,241	10,285	344,841	40,464	
1998	60,713	5,137	39,600 ^{h/}	3,400	26,737	4,353	41,094	13,698	168,144	26,588	42,400	1,951	17,567	1,322	17,797	3,979	77,763	7,253	245,907	33,841	
1999	256,629	7,495	30,000 ^{h/}	7,500	18,778	5,452	48,311	8,688	353,718	29,135	23,194	3,776	12,822	1,104	10,095	5,543	46,112	10,422	399,830	39,557	
2000	152,923	3,900	109,924	7,017	12,954	2,041	93,413	5,646	369,214	18,604	20,793	866	16,470	1,676	11,060	1,893	48,323	4,435	417,537	23,039	
2001	179,198	11,853	169,588	9,114	21,567	1,825	167,062	13,553	537,415	36,345	23,710	988	24,001	871	11,649	4,547	59,360	6,406	596,775	42,751	
2002	474,812 ^{i/}	11,259	93,766	11,397	18,406	4,796	95,711	10,635	682,695	38,087	61,895	4,029	17,516	2,991	7,762	8,146	87,173	15,166	769,868	53,253	
2003	164,802	4,402	85,578	4,369	26,820	1,489	136,238	9,627	413,438	19,887	82,882	5,352	13,615	1,352	13,081	7,032	109,578	13,736	523,016	33,623	
2004	70,548	7,220	48,580	5,591	9,260	5,208	75,090	13,774	203,478	31,793	52,145	17,027	15,769	5,535	15,493	21,390	83,407	43,952	286,885	75,745	
2005	96,716	3,267	43,738	4,848	16,251	987	54,001	2,842	210,706	11,944	139,979	2,694	20,597	1,787	24,723	3,437	185,299	7,918	396,005	19,862	
2006	89,933	2,874	75,545	1,869	7,891	230	21,755	1,145	195,124	6,118	56,819	1,013	13,400	634	9,687	681	79,906	2,328	275,030	8,446	
2007	36,079	978	21,541	321	2,523	81	9,855	130	69,998	1,510	11,543	201	5,169	172	4,664	21	21,376	394	91,374	1,904	
2008	36,274	2,074	5,703	236	3,084	424	1,791	154	46,852	2,888	10,181	458	5,031	323	3,300	453	18,512	1,234	65,364	4,122	
2009	12,277	1,624	3,950	897	3,992	803	3,118	575	23,337	3,899	5,433	719	6,240	3,723	5,863	1,126	17,536	5,568	40,873	9,467	
2010	25,682	6,872	40,981	3,933	12,074	1,023	5,831	1,742	84,568	13,570	8,666	8,572	17,215	2,757	13,821	2,389	39,702	13,718	124,270	27,288	
2011	20,466	15,096	35,656	11,633	6,917	2,204	13,432	7,888	76,471	36,821	19,312	23,068	15,925	16,691	7,634	8,963	42,871	48,722	119,342	85,543	
2012	67,190	7,125	57,507	6,142	6,009	1,722	32,459	2,441	163,165	17,430	77,318	8,198	33,628	8,533	11,318	1,862	122,264	18,593	285,429	36,023	
2013	89,409	6,228	145,650	5,559	13,830	1,050	52,631	1,628	301,520	14,465	67,822	2,199	25,152	2,470	11,706	1,339	104,680	6,008	406,200	20,473	
2014 ^{j/}	79,570	7,817	55,907	5,293	9,708	1,907	21,931	2,169	167,116	17,186	18,059	891	18,848	4,612	7,645	2,670	44,552	8,173	211,668	25,359	
GOALS	-	-	-	-	-	-	-	-	-	-	-	12,000 ^{k/}	-	6,000 ^{k/}	-	4,000 ^{k/}	-	22,000 ^{k/}	-	122,000 ^{l/}	-

a/ In 2004, CDFW reviewed and updated 1971-2003 escapement estimates to reflect final project reports.

b/ Chinook spawning during the fall; may include spring run fish in some survey areas.

c/ Most natural area estimates based on carcass surveys with a jack length cut-off.

d/ Upper Sacramento mainstem estimates generally based on carcass surveys with a jack length cut-off, however, jack estimates from Red Bluff Diversion Dam (RBDD) reports have occasionally been used. Early (pre-2001) mainstem Sacramento River adult and jack estimates based on RBDD passage.

e/ Upper Sacramento River escapement includes Sacramento River mainstem; Battle, Clear, Mill, Deer, Butte, Cottonwood, and Cow creeks; and other small tributaries when surveys were conducted. Specific escapement estimates by tributary can be found at www.calfish.org.

f/ Nimbus Hatchery adult and jack counts include fish taken at Nimbus Weir, 1979-current.

g/ Total adults in Sacramento hatcheries include Tehama-Colusa Fish Facility escapements, 1971-1985.

h/ Survey methodology was variable; may not be comparable to other surveys.

i/ Change in estimation methodology due to extremely high Battle Creek escapement.

j/ Preliminary.

k/ Current hatchery-specific goals, not PFMC goals.

l/ Sacramento River fall Chinook S_{MSY}.

TABLE B-2. San Joaquin River fall Chinook salmon escapement in numbers of fish.^{a/}

Year or Average	San Joaquin Natural Areas ^{b/}												San Joaquin Hatcheries						San Joaquin Totals		
	Mokelumne River		Stanislaus River		Tuolumne River		Merced River		Other Tributaries ^{c/}		Totals		Mokelumne River		Merced River		Totals		Totals		
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	
1971-1975	1,752	231	3,852	369	5,786	559	1,647	248	782	20	13,820	1,411	305	156	460	19	765	175	14,585	1,586	
1976-1980	733	246	144	28	835	204	1,103	266	71	19	2,886	763	271	59	346	23	617	82	3,503	846	
1981-1985	7,346	394	4,649	633	12,902	5,143	9,749	4,551	284	0	34,930	10,721	759	734	797	449	1,556	1,183	36,486	11,904	
1986-1990	1,294	162	4,174	824	2,951	2,910	2,414	480	20	0	10,853	4,377	278	286	299	140	577	426	11,430	4,803	
1991-1995	865	281	472	123	264	139	1,026	360	0	0	2,626	904	1,077	554	239	233	1,316	788	3,943	1,691	
1996	2,276	1,648	69	99	1,400	2,962	2,021	1,270	0	0	5,766	5,979	1,828	2,055	395	746	2,223	2,801	7,989	8,780	
1997	3,423	258	5,225	363	6,689	457	2,646	68	0	0	17,983	1,146	6,305	189	838	108	7,143	297	25,126	1,443	
1998	3,154	788	1,892	1,195	5,809	3,101	2,120	1,172	0	0	12,975	6,256	2,686	585	347	452	3,033	1,037	16,007	7,294	
1999	1,243	937	2,479	1,870	4,898	3,334	2,087	1,042	0	0	10,707	7,183	1,611	1,542	650	987	2,261	2,529	12,967	9,713	
2000	1,576	323	8,014	484	16,926	947	10,318	812	0	0	36,834	2,566	4,637	887	1,615	331	6,252	1,218	43,086	3,784	
2001	1,755	467	6,140	719	7,852	1,369	8,084	1,133	0	0	23,831	3,688	4,467	1,427	1,137	523	5,604	1,950	29,435	5,638	
2002	2,244	596	5,848	952	6,192	1,008	7,568	1,232	0	0	21,852	3,788	5,800	2,119	1,250	588	7,050	2,707	28,902	6,495	
2003	1,571	552	6,707	889	2,620	234	3,621	489	0	0	14,519	2,164	5,108	3,009	392	157	5,500	3,166	20,019	5,330	
2004	1,175	413	2,848	1,220	1,029	605	2,197	1,073	0	0	7,250	3,310	5,477	4,879	456	594	5,933	5,473	13,183	8,783	
2005	9,574	832	2,984	332	647	72	1,900	211	738	130	15,843	1,577	5,035	528	346	75	5,381	603	21,224	2,180	
2006	1,555	177	1,718	205	457	105	1,262	167	630	15	5,622	669	2,801	1,338	130	20	2,931	1,358	8,553	2,027	
2007	461	9	368	75	193	31	446	49	53	0	1,521	164	1,004	40	70	9	1,074	49	2,595	213	
2008	83	90	1,253	139	358	14	316	73	0	0	2,010	316	116	123	39	37	155	160	2,165	476	
2009	320	360	554	194	130	70	390	64	0	0	1,394	688	730	823	109	137	839	960	2,233	1,648	
2010	1,640	280	793	293	329	211	501	150	740	0	4,003	934	3,543	1,733	115	31	3,658	1,764	7,661	2,698	
2011	705	1,962	433	630	231	647	640	975	518	0	2,527	4,214	2,409	13,513	99	338	2,508	13,851	5,035	18,065	
2012	3,836	1,635	3,550	456	485	298	1,947	310	1,034	149	10,852	2,848	4,430	2,190	628	372	5,058	2,562	15,910	5,410	
2013	5,806	1,265	2,562	283	1,798	128	2,673	153	0	0	12,839	1,829	3,698	1,483	918	180	4,616	1,663	17,455	3,492	
2014 ^{d/}	2,044	1,288	1,832	1,228	292	146	661	261	401	0	5,230	2,923	4,408	4,403	228	583	4,636	4,986	9,866	7,909	
GOALS ^{e/}	-	-	-	-	-	-	-	-	-	-	-	-	-	5,000	-	1,000	-	6,000	-	-	-

a/ In 2004, CDFW reviewed and updated 1971-2003 escapement estimates to reflect final project reports.

b/ Most natural area estimates based on carcass surveys with a jack length cut-off.

c/ Other San Joaquin tributary escapement includes Cosumnes and Calaveras Rivers when surveys were conducted. In a small number of years a survey was not conducted.

d/ Preliminary.

e/ Current hatchery-specific goals, not PFMC goals.

TABLE B-3. Sacramento River late-fall, winter, and spring Chinook salmon spawning escapement in numbers of fish.

Year or Average	Upper Sacramento River										
	Late Fall ^{a/b/c/}		Winter ^{d/}				Spring				
	Adults	Jacks	RBDD ^{a/c/}		Carcass Survey		Tributary ^{e/} Adults and Jacks ^{h/}	Sacramento River ^{a/f/}		Feather River ^{g/}	
Adults			Jacks	Adults	Jacks	Adults		Jacks	Adults	Jacks	
1971-1975	18,193	1,087	22,863	9,063	--	--	5,194	5,098	1,718	366	-
1976-1980	9,662	1,798	13,499	2,640	--	--	1,201	8,335	2,571	375	-
1981-1985	8,102	1,746	5,027	921	--	--	1,061	9,798	4,241	1,446	133
1986-1990	10,047	1,761	1,369	390	--	--	1,658	8,795	1,930	2,884	406
1991-1995	3,844 ^{i/}	383 ^{i/}	586	78	--	--	2,813	410	165	3,441	465
1996-2000	16,061 ^{i/}	2,478 ^{i/}	940	1,032	--	--	7,768	242	160	4,393	503
2001	20,614	1,199	1,696	3,827	7,443	781	21,623 ^{j/}	981	0 ^{h/}	4,052	83
2002	39,818	765	7,614	1,555	7,047	417	20,198 ^{j/}	430	53	3,982	207
2003	8,122	613	6,172	3,585	7,675	543	21,798 ^{j/}	0	0	8,373	389
2004	12,458	1,574	2,588	4,604	5,786	2,083	12,556 ^{j/}	763	326	3,630	572
2005	14,047	2,141	3,521	1,778	14,683	1,156	21,319 ^{j/}	21	9	1,811 ^{k/}	24 ^{k/}
2006	14,709	351	4,792	2,623	16,764	385	10,669 ^{j/}	0	0	2,052 ^{k/}	9 ^{k/}
2007	11,954	714	3,004	3,140	2,402	131	8,951 ^{j/}	226	22	2,669 ^{k/}	5 ^{k/}
2008	9,946	381	1,504	2,131	2,521	204	11,943 ^{j/}	0	0	1,056 ^{k/}	10 ^{k/}
2009	9,515	460	l/	l/	4,363	53	3,517 ^{j/}	l/	l/	867 ^{k/}	122 ^{k/}
2010	8,894	1,001	l/	l/	1,555	41	2,951 ^{j/}	l/	l/	1,655 ^{k/}	6 ^{k/}
2011	7,129	1,161	l/	l/	637	187	5,547 ^{j/}	l/	l/	1,831 ^{k/}	138 ^{k/}
2012	5,153	909	m/	m/	2,527	144	18,694 ^{j/}	m/	m/	3,510 ^{k/}	228 ^{k/}
2013	8,355	642	m/	m/	5,623 ^{n/}	462	18,507 ^{j/}	m/	m/	4,247 ^{k/}	44 ^{k/}
2014 ^{o/}	11,667	1,383	m/	m/	2,688	327	6,895 ^{j/}	m/	m/	2,603 ^{k/}	222 ^{k/}

a/ Jacks and adults based on sampling at Red Bluff Diversion Dam (RBDD) from unpublished CDFW data. Beginning in 1987 for late-fall and winter run, estimates based on historical run patterns and partial counts at RBDD due to raising of dam gates during the last part of the late-fall run and first part of the winter run.

b/ Since 1998, late-fall adult and jack estimates are based on carcass counts of natural spawners plus fish spawned at Coleman Hatchery.

c/ Estimates of late-fall and winter run includes Chinook trapped at Keswick Dam for use as broodstock at Coleman or Livingston Stone Hatcheries.

d/ RBDD and carcass survey estimates represent alternative methods for determining winter run Chinook escapement.

e/ Natural spawning spring run which are isolated from fall run; primarily Mill Creek, Deer Creek, and Butte Creek escapement.

f/ Sacramento River spring run estimates are the total RBDD counts minus the spring run numbers in the upper Sacramento tributaries. If this number is less than or equal to zero, the upper Sacramento River spring run estimates are zero.

g/ Feather River spring run estimates are primarily fish returning to Feather River Hatchery. Spring run are not distinguished from fall run in the natural spawning surveys and are reported in the fall run natural escapement numbers.

h/ Jack proportion could not be determined.

i/ Primarily number of spawners at Coleman Hatchery 1991-97. No data available for natural spawners, RBDD gates were raised during time coinciding with the late-fall run.

j/ Methodology change from using snorkel survey to carcass survey for Butte Creek spring run estimates.

k/ Methodology change for distinguishing spring run Chinook at Feather River Hatchery in 2005. Fish arriving prior to the spring Chinook spawning period were tagged and returned to the river. Spring Chinook escapement estimate is the number of these tagged fish that subsequently returned during the spring Chinook spawning period.

l/ RBDD did not go into operation until June 15, a month later than normal; thus RBDD winter and spring run estimates are unavailable.

m/ RBDD gates were permanently removed on September 1, 2012; thus RBDD winter and spring run estimates are no longer available.

n/ Includes 47 adults that were transferred from the Colusa Basin Drain to Livingston Stone Hatchery for use as broodstock.

o/ Preliminary.

TABLE B-4. Summary of Klamath River fall Chinook salmon estimates in numbers of adults and jacks.

Year or Average	Category	Total Inriver Run	Inriver Harvest			Nonlanded Fishery Mortality	Spawning Escapement								
			Indian	Sport	Total		Klamath River			Trinity River			Total		
							Hatchery	Natural	Total	Hatchery	Natural	Total	Hatchery	Natural	Total
1978-1980	Adults	63,306	14,621	2,777	17,398	1,329	3,886	21,277	25,163	3,823	15,593	19,416	7,709	36,871	44,579
	Jacks	23,731	1,379	3,385	4,764	189	544	8,224	8,768	1,515	8,495	10,010	2,059	16,719	18,778
1981-1985	Adults	63,230	17,128	5,096	22,224	1,593	8,812	16,313	25,125	2,934	11,354	14,288	11,746	27,667	39,413
	Jacks	29,811	1,287	6,447	7,734	243	1,162	6,227	7,389	4,888	9,556	14,444	6,050	15,783	21,833
1986-1990	Adults	151,203	36,669	15,145	51,814	3,498	13,194	21,543	34,737	11,912	49,242	61,154	25,106	70,785	95,891
	Jacks	20,227	446	4,924	5,370	139	1,009	3,460	4,469	2,285	7,964	10,248	3,294	11,423	14,718
1991-1995	Adults	80,666	10,574	3,094	13,668	983	12,980	26,594	39,574	5,104	21,339	26,442	18,084	47,932	66,016
	Jacks	12,038	291	2,741	3,032	81	1,140	3,216	4,356	1,134	3,435	4,569	2,274	6,651	8,925
1996-2000	Adults	123,856	24,565	6,817	31,382	2,275	24,549	32,279	56,828	11,421	21,950	33,371	35,970	54,229	90,199
	Jacks	10,332	170	1,805	1,976	52	1,413	2,628	4,042	872	3,391	4,262	2,285	6,019	8,304
2001	Adults	187,333	38,645	12,134	50,779	3,608	37,204	40,944	78,148	17,908	36,890	54,798	55,112	77,834	132,946
	Jacks	11,343	399	1,500	1,899	66	1,364	6,378	7,742	267	1,369	1,636	1,631	7,747	9,378
2002	Adults	160,788 ^{a/}	24,574	10,495	35,069	2,351	23,667	54,225	77,892	3,516	11,410	14,926	27,183	65,635	92,818
	Jacks	9,226	126	870	996	29	1,294	1,529	2,823	1,037	2,338	3,375	2,331	3,867	6,198
2003	Adults	191,949	30,034	9,680	39,714	2,810	31,970	55,423	87,393	29,812	32,219	62,031	61,782	87,642	149,424
	Jacks	3,845	44	814	858	21	290	848	1,138	574	1,254	1,828	864	2,102	2,966
2004	Adults	78,943	25,803	4,003	29,806	2,325	10,582	10,711	21,293	12,399	13,120	25,519	22,982	23,831	46,813
	Jacks	9,646	168	2,741	2,909	71	937	846	1,783	1,044	3,839	4,883	1,980	4,685	6,665
2005	Adults	65,227	8,016	1,985	10,001	738	13,955	13,554	27,509	13,744	13,235	26,979	27,699	26,789	54,488
	Jacks	2,296	70	1,030	1,100	27	42	398	440	59	670	729	101	1,068	1,169
2006	Adults	61,374	10,283	62	10,345	1,344	11,604	14,264	25,868	7,918	15,899	23,817	19,522	30,163	49,685
	Jacks	26,935	415	5,527	5,942	149	2,386	6,516	8,902	4,076	7,866	11,942	6,462	14,382	20,844
2007	Adults	132,131	27,573	6,312	33,885	2,526	16,969	21,292	38,261	18,081	39,378	57,459	35,050	60,670	95,720
	Jacks	1,684	21	369	390	10	180	232	412	33	839	872	213	1,071	1,284
2008	Adults	70,554	22,259	1,919	24,178	1,974	9,101	19,020	28,121	4,451	11,830	16,281	13,552	30,850	44,402
	Jacks	25,247	641	4,308	4,949	144	2,130	9,425	11,555	801	7,798	8,599	2,931	17,223	20,154
2009	Adults	100,644	28,387	5,651	34,038	2,583	12,263	27,743	40,006	7,351	16,666	24,017	19,614	44,409	64,023
	Jacks	11,914	178	2,214	2,392	60	1,229	1,948	3,177	143	6,142	6,285	1,372	8,090	9,462
2010	Adults	90,860	29,887	3,035	32,922	2,661	10,278	15,170	25,448	7,774	22,055	29,829	18,052	37,225	55,277
	Jacks	16,640	428	1,831	2,259	74	1,069	1,811	2,880	1,432	9,995	11,427	2,501	11,806	14,307
2011	Adults	101,977	26,353	4,147	30,500	2,377	8,490	17,973	26,463	13,847	28,790	42,637	22,337	46,763	69,100
	Jacks	84,895	1,322	9,981	11,303	319	9,549	24,746	34,295	1,875	37,103	38,978	11,424	61,849	73,273
2012	Adults	295,322	95,386	13,876	109,262	8,578	38,478	72,786	111,264	17,461	48,757	66,218	55,939	121,543	177,482
	Jacks	21,433	177	3,875	4,052	94	1,537	8,289	9,826	92	7,369	7,461	1,629	15,658	17,287
2013	Adults	165,025	63,036	19,800	82,836	5,885	13,431	31,711	45,142	3,717	27,445	31,162	17,148	59,156	76,304
	Jacks	14,356	259	2,260	2,519	69	1,323	3,274	4,597	135	7,036	7,171	1,458	10,310	11,768
2014 ^{b/}	Adults	160,444 ^{c/}	25,913	5,277	31,190	2,361	24,300	70,709	95,009	6,975	24,621	31,596	31,276	95,330	126,606
	Jacks	22,348 ^{c/}	348	3,361	3,709	99	1,039	10,520	11,559	221	6,749	6,970	1,259	17,269	18,528
GOAL	Adults														≥40,700 ^{d/}

a/ Total inriver run includes an estimated 30,550 fish that died prior to spawning in September 2002.

b/ Preliminary.

c/ Total inriver run includes 299 fish (adults and jacks) collected from the Klamath River by the Yurok Tribe to test for the presence of the parasite *Ichthyophthirius multifiliis*.

d/ In December 2011, Amendment 16 to the Salmon Fishery Management Plan was approved, which replaced the 35,000 spawning escapement floor with an S_{MSY} management objective of 40,700 natural area adult spawners. The 35,000 spawner floor was in effect from 1989-2007 and in 2011. In 2008-2010, fisheries were managed for a natural area spawning escapement of 40,700 adults under requirements of a rebuilding plan.

TABLE B-5. Estimates of Yurok and Hoopa Valley reservation Indian gillnet Chinook harvest in numbers of fish.

Year	Area ^{a/}	Spring Run			Fall Run		
		Jack	Adult	Total	Jack	Adult	Total
2009	Commercial:Estuary	0	21	21	34	15,463	15,497
	Middle Klamath	0	0	0	2	243	245
	Subsistence:Estuary	0	763	763	9	4,002	4,011
	Middle Klamath	2	487	489	18	2,202	2,220
	Upper Klamath	0	451	451	19	2,324	2,343
	Trinity River	74	1,764	1,838	96	4,153	4,249
	Total	76	3,486	3,562	178	28,387	28,565
2010	Commercial:Estuary	0	259	259	14	15,234	15,248
	Middle Klamath	0	0	0	3	83	86
	Subsistence:Estuary	0	812	812	6	6,491	6,497
	Middle Klamath	0	1,421	1,421	62	1,763	1,825
	Upper Klamath	6	781	787	91	2,615	2,706
	Trinity River	4	1,740	1,744	252	3,701	3,953
	Total	10	5,013	5,023	428	29,887	30,315
2011	Commercial:Estuary	1	32	33	373	14,963	15,336
	Middle Klamath	0	0	0	28	255	283
	Subsistence:Estuary	8	402	410	60	2,404	2,464
	Middle Klamath	12	1,242	1,254	238	2,177	2,415
	Upper Klamath	9	909	918	227	2,070	2,297
	Trinity River	108	2,282	2,390	426	4,863	5,289
	Total	137	4,867	5,005	1,351	26,733	28,084
2012	Commercial:Estuary	0	856	856	0	82,724	82,724
	Middle Klamath	0	0	0	0	156	156
	Subsistence:Estuary	22	905	927	72	10,792	10,864
	Middle Klamath	3	908	911	29	1,719	1,748
	Upper Klamath	10	1,104	1,114	30	1,940	1,970
	Trinity River	21	2,647	2,668	55	4,145	4,200
	Total	56	6,421	6,477	186	101,476	101,662
2013	Commercial:Estuary	0	962	962	0	52,046	52,046
	Middle Klamath	0	9	9	0	64	64
	Subsistence:Estuary	7	2,327	2,334	205	5,458	5,663
	Middle Klamath	0	110	110	13	843	856
	Upper Klamath	0	336	336	25	1,606	1,631
	Trinity River	19	1,202	1,221	16	3,019	3,035
	Total	26	4,946	4,972	259	63,036	63,295
2014 ^{b/}	Commercial:Estuary	0	0	0	0	11,431	11,431
	Middle Klamath	0	0	0	0	401	401
	Subsistence:Estuary	7	2,438	2,445	153	8,608	8,761
	Middle Klamath	0	64	64	10	1,608	1,618
	Upper Klamath	9	642	651	120	1,425	1,545
	Trinity River	85	1,733	1,818	65	2,440	2,504
	Total	101	4,877	4,978	348	25,913	26,260

a/ Klamath River tribal fishing areas are defined as follows: Estuary: mouth to Highway 101 bridge; Middle Klamath: Highway 101 bridge to Surpur Creek; Upper Klamath: Surpur Creek to Weitchpec.

b/ Preliminary.

TABLE B-6. Shasta, Scott, and Salmon rivers fall Chinook salmon spawning escapement estimates in numbers of fish.

Year	Shasta River ^{a/}		Scott River ^{b/}		Salmon River ^{c/}	
	Adults	Jacks	Adults	Jacks	Adults	Jacks
1931-1935 ^{d/}	37,474	12,690	-	-	-	-
1936-1940	26,165	8,223	-	-	-	-
1941-1945	9,654	3,129	-	-	-	-
1946-1950	1,862	178	-	-	-	-
1951-1955	1,577	370	-	-	-	-
1956-1960	6,146	1,074	-	-	-	-
1961-1965	15,167	4,388	-	-	-	-
1966-1970	10,472	1,410	-	-	-	-
1971-1975	6,297	2,866	-	-	-	-
1976-1980 ^{e/}	6,506	3,194	2,950	1,527	1,467	583
1981-1985 ^{f/}	4,560	1,942	3,373	1,929	1,287	389
1986-1990 ^{g/}	2,403	318	4,010	1,512	3,361	537
1991-1995	1,891	184	3,779	568	3,086	376
1991	716	10	2,019	146	1,337	143
1992	520	66	1,873	965	778	547
1993	1,341	85	5,035	265	3,077	456
1994	3,363	1,840	2,358	505	3,216	277
1995	12,816	695	11,198	3,279	4,140	1,335
1996	1,404	46	11,952	145	5,189	274
1997	1,667	334	8,284	277	5,783	217
1998	2,466	76	3,061	266	1,337	116
1999	1,296	1,901	3,021	563	670	110
2000	11,025	1,271	5,729	524	1,544	228
2001	8,452	2,641	5,398	744	2,607	743
2002	6,432	386	4,261	47	2,669	78
2003	4,134	155	11,988	65	3,302	73
2004	833	129	445	22	282	51
2005	2,018	37	698	58	401	105
2006	789	1,395	3,007	1,953	1,278	791
2007	2,009	27	4,494	11	1,377	55
2008	2,741	3,621	3,445	1,228	1,749	650
2009	6,145	151	2,167	44	2,204	516
2010	1,259	87	2,114	394	2,478	356
2011	213	11,175	3,019	2,502	3,674	1,819
2012	27,600	1,944	7,569	1,783	3,561	829
2013	6,925	1,096	4,036	588	2,240	240
2014 ^{h/}	14,412	3,945	10,419	2,051	2,706	527

a/ 1930-1937, 1957-1987 and 1991-present, Shasta River weir counts were made near the river mouth. 1938-1955, weir counts were made 6.5 miles upstream from the mouth; considerable spawning occurred downstream from the weir in these years. In 1956, there were no weir counts conducted. 1988-1990, escapements were estimated from mark-recapture data (spawning surveys).

b/ 1991, estimates were from weir counts. 1992-2007, estimates were from carcass surveys. 2008-2013, estimates were from a combination of video weir counts and carcass surveys. 2014, estimates were from a combination of video weir counts, carcass surveys, and redd counts.

c/ 1991, estimates were from weir counts. 1992-2004 and 2006, estimates were from carcass surveys. 2005 and 2007-2010, estimates were generated from redd counts. 2011-present, estimates were from a combination of carcass surveys and redd counts.

d/ Commercial fishing in lower Klamath River closed by the state after the 1933 season.

e/ Gillnetting resumed in lower 20 miles of Klamath River by Hoopa Valley Indian Reservation fishers in 1976.

f/ Shasta adults include 276 females taken to Iron Gate Hatchery in 1981.

g/ Low water conditions appeared to hinder entry into the Shasta River in 1988.

h/ Preliminary.

TABLE B-7. Summary of California North Coast salmon spawning stock surveys in numbers of fish or redd counts.

Year	Cañon Creek ^{a/b/c/} (Mad River)		Sprowl Creek ^{a/b/d/} (Eel River)		Tomki Creek ^{e/} (Eel River)	Russian ^{f/} River	Lagunitas ^{g/} Watershed
	Chinook	Coho	Chinook	Coho	Chinook	Chinook	Coho Redds
1978-1979	-	-	534	23	-	-	-
1979-1980	-	-	572	0	2,410	-	-
1980-1981	-	-	164	4	317	-	-
1981-1982	23	0	121	0	1,153	-	-
1982-1983	68	0	169	1	1,807	-	-
1983-1984	137	0	82	0	-	-	-
1984-1985 ^{h/}	16	0	67	13	1,292	-	-
1985-1986	514	14	320	0	3,558	-	-
1986-1987 ^{h/}	90	3	307	13	2,173	-	-
1987-1988	117	29	2,187	4	3,666	-	-
1988-1989	69	7	339	12	556	-	-
1989-1990 ^{h/}	9	9	89	14	-	-	-
1990-1991	0	3	0	0	-	-	-
1991-1992 ^{h/}	8	0	159	0	3	-	-
1992-1993 ^{h/}	57	1	142	2	15	-	-
1993-1994	20	0	171	36	5	-	-
1994-1995	33	3	52	0	21	-	-
1995-1996 ^{h/}	93	4	136	8	69	-	86
1996-1997	129	4	106	8	84	-	254
1997-1998	55	1	97	0	39	-	253
1998-1999	66	0	79	11	45	-	184
1999-2000 ^{h/}	162	1	34	1	24	-	203
2000-2001 ^{h/}	79	3	12	0	50	1,445	204
2001-2002	45	6	136	25	162	1,383	286
2002-2003	402	1	267	17	5	5,474	158
2003-2004 ^{h/}	79	1	106	8	137	6,103	383
2004-2005 ^{h/}	86	0	199	36	115	4,788	496
2005-2006	270	0	201	13	77	2,572	190
2006-2007 ^{i/}	152	2	37	9	20	3,410	338
2007-2008 ^{i/}	99	1	70	19	69	1,963	148
2008-2009 ^{i/}	65	0	158	40	17	1,125	26
2009-2010 ^{i/}	36	0	314	2	15	1,801	51
2010-2011 ^{i/}	131	2	273	60	151	2,414	80
2011-2012 ^{h/i/}	108	1	60	221	101	3,119	130
2012-2013 ^{i/}	77	1	280	29	226	6,697	239
2013-2014 ^{i/j/}	11	10	16	130	6	3,155	203
2014-2015 ^{i/k/}	155	5	157	10	81	1,333 ^{l/}	103

a/ Survey frequency variable from year to year (between 1 and 10 surveys annually).

b/ Numbers reflect maximum annual counts of live fish and carcasses with adults and jacks combined. Counts are not shown in years where visibility is too poor to conduct surveys.

c/ Survey area was from mouth to falls (2 miles).

d/ Survey area was the mainstem and West Fork (4.5 miles).

e/ Total run size estimate including jacks and adults. Survey methodology changed in 2000-2001 to using index sites, and subsequent estimates are not comparable to previous estimates.

f/ Video counts of combined adults and jacks made at Mirabel Dam. Image quality may be affected by turbidity.

g/ Numbers reported are redd counts. Olema Creek is excluded.

h/ Low flows appeared to increase mainstem spawning and decrease tributary spawning for Cañon, Sprowl, and Tomki creeks.

i/ Cañon and Sprowl creek totals exclude fish unidentifiable to species due to poor visibility or advanced decomposition.

j/ Extremely low flows created passage barriers that precluded or severely limited salmon access to surveyed tributaries.

k/ Preliminary data.

l/ Minimum count that is not comparable to other years. Mirabel Dam video counts were unavailable due to construction of a new counting facility. The number recorded is the sum of counts made at two facilities upstream of Mirabel Dam.

TABLE B-8. Peak spawning counts in index areas for selected south/local migrating Oregon coastal fall Chinook stocks.

Year or Avg.	Deep Creek (Pistol River) (0.4 mile)		Big Emily Creek (Chetco River) (1.0 mile)		Bear Creek (Winchuck River) (0.8 mile)		Index (fish per mile)	
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1961-1965	6	1	-	-	22	1	-	-
1966-1970	31	3	-	-	36	2	-	-
1971-1975	5	0	211	12	25	2	130	7
1976-1980	2	1	124	32	18	1	65	14
1981-1985	24	2	62	10	13	1	45	6
1986-1990	11 ^{a/}	2 ^{a/}	58	12	10	2	35	7
1991-1995	12	9	74	10	16	2	46	10
1996	81	9	79	7	27	5	85	10
1997	17	1	60	5	14	1	41	3
1998	46	11	52	3	19	2	53	7
1999	58	3	12	1	10	0	36	2
2000	26	3	63	6	11	1	45	5
2001	25	2	49	2	9	3	38	3
2002	62	7	70	3	15	9	67	9
2003	20	7	28	5	12	1	27	6
2004	97	19	29	4	11	1	62	11
2005	15	2	16	3	1	0	15	2
2006	22	3	24	2	5	1	23	3
2007	44	0	14	4	6	1	29	2
2008	10	1	15	29	3	5	13	16
2009	20	1	91	11	35	9	66	10
2010	14	2	75	5	26	2	52	4
2011	12	2	49	6	17	3	35	5
2012	8	2	72	11	5	2	39	7
2013	10	5	38	11	3	1	23	8
2014 ^{b/}	11	2	48	9	12	3	32	6

a/ Pistol River was subject to several "slope failures" in 1986 resulting in severe short-term alterations in gravel bars and spawning index areas. Considerable debris and siltation severely limited Chinook surveys resulting in "0" counts in Deep Creek index areas through December.

b/ Preliminary.

TABLE B-9. Counts of natural and hatchery spring Chinook salmon at Gold Ray Dam on the Rogue River and at Winchester Dam on the North Umpqua River in thousands of fish.

Year or Avg.	Gold Ray Dam, Rogue River ^{a/}				Winchester Dam, Umpqua River ^{a/}			
	Natural ^{b/}	Hatchery	Total	Jacks ^{c/}	Natural	Hatchery	Total	Jacks ^{c/}
1942-1945	35.1	-	35.1	4.9	-	-	-	-
1946-1950	24.7	-	24.7	3.0	2.7	-	2.7	0.5
1951-1955	21.4	-	21.4	4.2	4.2	0.9	4.9	1.0
1956-1960	19.8	-	19.8	3.4	4.4	0.9	5.4	0.7
1961-1965	37.7	-	37.7	6.4	6.4	1.8	8.2	1.8
1966-1970	33.9	-	33.9	5.5	7.2	4.5	11.8	3.2
1971-1975	26.0	0.8	26.8	5.0	7.3	6.2	13.5	3.8
1976-1980	25.8	6.3	32.1	7.0	5.8	3.9	9.7	3.2
1981-1985	16.4	6.2	22.6	7.3	5.2	3.5	8.7	2.5
1986-1990	28.5	39.2	67.7	14.9	7.5	4.1	11.6	2.5
1991-1995	9.7	18.4	28.0	3.9	3.5	2.5	6.0	1.1
1996	10.3	26.3	36.6	3.4	4.3	2.2	6.5	1.0
1997	9.6	32.2	41.8	2.8	3.3	2.5	5.8	16.0
1998	3.7	12.3	16.0	2.8	4.0	2.9	6.9	1.5
1999	6.0	15.0	21.0	1.9	2.8	4.6	7.4	3.1
2000	3.4	26.8	30.2	3.1	3.4	9.2	12.6	4.6
2001	9.3	23.9	33.2	2.3	6.1	14.6	20.7	4.7
2002	7.0	40.8	47.8	3.2	6.8	17.4	24.2	3.1
2003	19.3	22.6	41.9	3.0	7.9	12.3	20.2	4.1
2004	13.3	26.0	39.3	3.8	5.4	10.1	15.4	2.5
2005	5.8	12.3	18.1	1.3	3.6	5.5	9.0	1.3
2006	4.8	7.0	11.7	2.2	2.6	3.5	6.1	1.7
2007	3.5	7.7	11.2	1.6	2.4	4.2	6.6	1.7
2008	4.0	8.6	12.5	3.8	2.6	5.1	7.7	2.7
2009	5.2	8.3	13.6	2.3	5.3	9.0	14.3	4.8
2010	9.6	11.5	21.1	1.9	6.1	7.8	13.9	3.8
2011	9.9	NA	NA	NA	8.9	7.7	16.6	5.4
2012	14.4	NA	NA	NA	8.2	8.4	16.7	3.6
2013	12.1	NA	NA	NA	7.2	7.9	15.2	2.6
2014 ^{d/}	5.6	NA	NA	NA	4.6	5.4	10.1	4.5

a/ Jacks included in natural, hatchery, and total counts.

b/ Gold Ray Dam removed October, 2010. Natural estimate derived using relationship of 2004-2010 spawning ground surveys to Gold Ray Dam passage. Estimate includes an unknown number of jacks.

c/ Jacks include all Chinook less than 20 inches prior to 1978 and all Chinook less than 24 inches beginning in 1978.

d/ Preliminary.

TABLE B-10. Rogue River fall Chinook carcass counts and Huntley Park passage of naturally produced fish.

Year or Avg.	Carcass Counts ^{a/}			Huntley Park Passage		
	Adults	Jacks	Total	Adults	Jacks	Total
1977-1980	5,256	1,004	6,259	99,881	30,425	130,307
1981-1985	3,906	1,009	4,915	55,907	25,683	81,590
1986-1990	16,797	1,527	18,324	84,435	29,553	113,988
1990-1995	4,387	316	4,703	45,489	15,499	60,988
1996	2,448	121	2,569	48,763	15,682	64,445
1997	1,643	68	1,711	41,072	17,788	58,860
1998	3,601	40	3,641	40,939	6,793	47,732
1999	2,493	157	2,650	37,587	18,763	56,350
2000	3,366	226	3,592	87,783	12,918	100,701
2001	6,380	772	7,152	76,376	26,650	103,026
2002	11,836	905	12,741	154,143	42,806	196,948
2003	14,620	983	15,603	204,793	19,347	224,139
2004	5,326 ^{b/}	250	5,576	132,296	19,785	152,081
2005	-	-	-	56,474	4,849	61,323
2006	-	-	-	35,075	6,770	41,845
2007	-	-	-	43,493	3,284	46,778
2008	-	-	-	24,309	15,186	39,495
2009	-	-	-	60,223	13,660	73,883
2010	-	-	-	49,390	14,459	63,849
2011	-	-	-	67,750	30,125	97,875
2012	-	-	-	69,060	10,400	79,460
2013	-	-	-	81,655	23,027	104,682
2014 ^{c/}	-	-	-	53,518	11,895	65,414

a/ Surveys were discontinued in 2005.

b/ In 2004, one of the standard survey sections was not sampled. In the previous two years, this section accounted for 33 percent of the total adult carcass counts.

c/ Preliminary.

TABLE B-11. Peak counts for north migrating Oregon coastal Chinook stocks on selected fall Chinook spawning index stream surveys.

Year or Average	River Tributaries																				
	Humbug (Nehalem) (1.0 mile)		Tillamook (1.8 mile)		Niagara (Nestucca) (0.4 mile)		Sunshine (Siletz) (1.2 mile)		Grant (Yaquina) (1.7 mile)		Buck (Alsea) (1.0 mile)		Siuslaw (Lake) (0.8 mile)		W.F. Millicoma (Coos) (0.5 mile)		Salmon (Coquille) (0.8 mile)		Index Fish Per Mile		
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults
1961-1965	95	22	116	25	72	5	59	13	43	13	28	9	61	15	2	1	23	13	54	13	
1966-1970	57	3	93	27	47	6	30	5	61	13	26	16	134	40	6	1	26	9	52	13	
1971-1975	101	26	55	5	55	4	40	5	64	8	17	3	94	49	18	13	15	5	50	14	
1976-1980	143	12	61	6	32	2	47	5	127	23	22	3	166	39	31	28	31	10	72	14	
1981-1985	163	18	95	9	78	6	55	2	178	24	47	6	149	31	6	2	45	7	89	11	
1986-1990	136	4	154	8	118	3	54	2	240	24	100	6	427	44	15	5	49	6	141	11	
1991-1995	65	2	92	6	103	3	60	2	153	10	44	4	395	18	49	7	86	5	116	6	
1996	86	2	60	0	40	0	122	0	a/	a/	62	2	614	29	92	3	29	3	147	5	
1997	162	1	47	1	24	1	60	0	a/	a/	49	3	325	9	12	0	108	3	105	2	
1998	93	2	42	1	42	0	83	3	a/	a/	78	0	176	2	33	10	193	7	99	3	
1999	116	3	38	1	60	2	36	3	a/	a/	55	5	478	14	14	3	136	8	124	5	
2000	175	3	40	3	32	2	63	1	a/	a/	38	3	205	18	5	0	83	9	85	5	
2001	220	4	62	6	53	7	195	3	a/	a/	95	6	711	49	30	5	153	22	203	14	
2002	311	1	137	3	124	1	221	1	a/	a/	118	6	834	22	51	12	218	9	269	7	
2003	215	6	135	5	27	1	120	3	341	7	145	1	1,230	37	209	31	147	2	279	10	
2004	196	3	71	2	76	1	19	0	238	11	91	5	988	16	40	4	101	5	198	5	
2005	124	3	a/	a/	74	2	54	1	a/	a/	40	1	302	5	17	2	61	2	118	3	
2006	31	0	65	0	67	0	82	0	a/	a/	22	0	165	0	7	1	129	8	76	1	
2007	91	1	34	2	20	0	6	0	a/	a/	17	1	132	2	14	3	2	0	42	1	
2008	73	1	15	2	13	0	8	0	a/	a/	11	2	135	15	20	5	28	8	40	4	
2009	92	13	17	0	2	0	32	2	a/	a/	50	0	179	26	34	9	a/	a/	61	7	
2010	57	0	24	1	27	2	56	3	a/	a/	75	6	301	7	46	14	a/	a/	87	5	
2011	164	5	96	4	15	1	29	0	a/	a/	46	2	329	21	53	1	a/	a/	109	5	
2012	144	3	38	2	34	0	57	3	a/	a/	56	4	611	17	38	1	a/	a/	146	4	
2013	384	10	89	2	78	3	47	2	166	9	41	3	625	6	156	20	a/	a/	189	7	
2014 ^{b/}	176	2	55	0	49	2	109	1	216	40	60	7	556	21	92	6	a/	a/	156	9	

a/ Surveys were not conducted.

b/ Preliminary.

TABLE B-12. Estimates of minimum inriver run size, catch, and escapement in numbers of Columbia River adult spring Chinook destined for areas below Bonneville Dam.

Year or Average	Minimum Inriver Run Size	Tributary Runs									
		Lower River Catch ^{a/}		Willamette			Sandy	Cowlitz ^{c/}	Lewis ^{c/}	Kalama	Hatchery Escapement ^{d/}
		Commercial	Sport	Run Size	L. Willamette Sport Catch	Will. Falls Escapement ^{b/}					
1971-1975	84,000	13,800	3,700	53,300	17,000	34,300	--	11,900	200	1,100	20,000
1976-1980	92,160	6,160	2,720	51,240	14,380	31,420	975	19,680	2,980	2,020	26,580
1981-1985	130,000	6,680	1,840	67,700	15,620	35,580	1,940	19,960	4,220	3,740	28,840
1986-1990	175,563	11,980	4,330	103,100	21,140	58,760	2,425	10,691	11,340	1,877	32,460
1991-1995	119,467	3,680	2,300	66,039	18,180	32,580	4,920	6,801	5,870	1,976	23,700
1996	54,241	149	0	33,358	6,100	20,400	3,801	1,787	1,730	627	15,900
1997	53,345	300	0	34,536	1,900	26,200	4,410	1,877	2,196	505	18,100
1998	52,460	100	49	43,497	2,800	33,100	3,577	1,055	1,611	407	22,900
1999	62,948	349	0	52,584	5,500	38,900	3,585	2,069	1,753	977	25,900
2000	72,192	1,149	249	55,788	9,000	37,594	3,641	2,199	2,515	1,418	24,100
2001	100,666	3,700	4,300	78,436	7,600	52,700	5,329	1,609	3,777	1,796	29,000
2002	149,981	7,900	5,800	120,164	10,800	83,100	5,905	5,215	3,514	2,932	58,300
2003	163,300	1,900	8,200	123,352	13,500	87,600	5,615	15,954	5,040	4,556	45,626
2004	195,837	8,500	7,500	143,242	12,000	95,200	12,680	16,511	7,475	4,286	67,791
2005	85,971	3,400	4,400	59,495	5,800	35,453	7,668	9,379	3,512	3,367	33,102
2006	90,992	3,000	2,900	59,311	7,200	36,851	4,382	6,963	7,301	5,458	34,428
2007	69,259	1,900	2,600	39,943	5,700	22,818	2,813	3,975	7,596	8,030	29,375
2008	44,185	100	700	27,016	4,600	14,151	5,852	2,986	2,215	1,623	15,757
2009	53,624	349	2,000	39,400	4,500	25,795	2,375	5,977	1,493	404	18,805
2010	156,016	3,349	6,200	110,500	22,700	65,293	7,516	8,830	2,337	918	48,591
2011	105,346	2,349	2,500	80,254	22,800	43,748	5,421	5,834	1,311	778	31,030
2012	96,265	2,349	3,700	65,115	15,800	35,899	5,337	12,617	1,839	862	32,106
2013	148,051	1,800	1,798	123,136	7,400	27,897	5,750	9,536	1,597	1,014	26,892
2014 ^{e/}	263,668	1,300	2,700	242,577	7,900	30,071	5,971	10,461	1,482	1,013	27,783

a/ Includes some upriver origin spring Chinook through 1980. Beginning in 1981, the lower river catch of lower river spring Chinook is based on mark recoveries rather than the timing of the catch, as in previous years. Since 1986, GSI and VSI techniques have been used for stock composition analysis. Commercial catch includes Select Area fisheries. Sport catch is mainstem Columbia River, does not include tributaries. Catch may include small numbers of jacks. Sport fishery closed in 1995 to 1997.

b/ Prior to 1988, the escapement goal at Willamette Falls was 30,000 to 35,000. Beginning in 1988, the goal was dependent on run size under the Willamette Basin Fish Management Plan. Since 2001, hatchery escapement targets are set in the Fisheries Management and Evaluation Plan developed by ODFW. Lower Willamette sport catch may include small numbers of jacks.

c/ Includes hatchery escapement, tributary recreational catch, and natural spawning escapement for 1975 to present. The years 1971-1973 are based on using the 1975-1976

Cowlitz River recreational fishery adult harvest rates.

d/ Includes hatcheries operated by all agencies. Values are included in the totals for the tributary runs.

e/ Preliminary.

TABLE B-13. Estimates of inriver run size, catch, and escapement in numbers of Columbia River adult spring Chinook destined for areas above Bonneville Dam.a/ This table includes Snake River summer Chinook.

Year or Avg.	Inriver Run Size	Lower River Catch ^{b/}		Bonneville Dam Count	Zone 6 Sport	Mainstem Treaty Indian Catch			Snake River Escapement ^{d/}		Rock Island Dam Count		Hatchery Escapement ^{e/}
		Commercial	Sport			Commercial ^{c/}	Ceremonial/ Subsistence	Hatchery	Wild	Hatchery	Wild		
1976-1980	55,960	185	0	55,775	-	259	1,714	2,903	6,413	2,800	2,241	2,613	
1981-1985	70,440	1,706	393	68,342	925	1,024	2,545	7,508	10,787	4,853	3,217	11,599	
1986-1990	108,167	2,378	1,356	104,433	3,366	186	6,771	19,648	10,192	5,928	3,042	19,384	
1991-1995	63,404	511	710	62,183	1,227	15	3,730	7,097	7,015	5,750	1,422	11,429	
1996	55,552	46	10	55,496	40	0	2,911	3,179	3,806	1,751	353	5,079	
1997	124,321	53	16	124,252	7,387	14	8,309	39,509	5,215	4,809	696	27,245	
1998	44,308	27	14	44,267	1,679	1	2,224	6,928	7,366	2,473	343	8,537	
1999	43,067	28	16	43,023	211	1	1,983	3,703	2,856	3,161	297	5,721	
2000	186,715	251	124	186,340	11,497	1,379	9,973	29,568	8,255	12,783	829	21,418	
2001	440,336	2,538	22,719	415,079	57,745	43,790	10,985	141,121	45,337	31,329	4,315	49,991	
2002	335,214	10,151	16,268	308,795	28,452	24,257	9,208	67,312	30,248	18,706	1,658	33,809	
2003	242,605	3,493	9,611	229,501	23,532	9,205	9,090	54,951	32,365	11,677	1,184	24,526	
2004	221,675	6,233	17,146	198,296	25,349	8,370	9,114	58,624	21,401	9,566	1,689	26,694	
2005	106,911	2,289	7,235	97,387	7,017	1	6,163	22,932	10,127	13,342	2,786	19,547	
2006	132,583	2,238	4,187	126,158	5,133	0	8,401	20,248	9,483	10,425	1,089	16,894	
2007	86,247	1,491	3,927	80,829	6,742	3	5,624	23,308	7,100	10,296	877	15,759	
2008	178,629	6,292	19,612	151,895	22,084	12,314	9,077	55,587	17,587	19,372	1,087	35,284	
2009	169,296	4,543	15,246	147,489	18,678	0	13,101	49,836	14,957	16,428	1,666	30,392	
2010	315,345	9,281	23,535	277,389	43,631	25,008	17,946	97,770	26,643	22,529	2,071	52,242	
2011	221,158	3,930	9,506	205,431	28,358	4,324	15,526	72,262	24,562	15,400	3,055	29,540	
2012	203,090	4,821	10,422	186,448	24,917	7,428	16,881	54,701	25,681	11,573	3,294	23,354	
2013	123,136	1,852	5,342	112,934	8,138	2,100	9,282	29,538	14,588	7,906	1,637	15,776	
2014 ^{g/}	242,577	4,040	13,572	224,946	28,311	32,364	10,896	62,627	32,124	12,135	2,511	25,489	
GOAL				115,000				35,000 ^{h/}	25,000 ^{h/}				

a/ Spring Chinook accounting ends on June 15. Chinook formerly managed separately as Snake River summer Chinook are now grouped with all upriver spring Chinook because of overlap in run timing. Snake River summer Chinook have been moved from Table B-14 to this table.

b/ Includes some lower river origin spring Chinook through 1980. Beginning in 1981, the lower river catch of upriver spring Chinook is based on mark recoveries rather than timing of the catch as in previous years. Since 1986, GSI techniques have been used for stock composition analysis. Commercial catch includes estimated miscellaneous fishery-related impacts from test fisheries, commercial shad fisheries, and Select Area commercial gillnet fisheries beginning in 1979 and catch and release mortalities from selective fisheries beginning in 2001. Sport catch includes mainstem fisheries between Buoy 10 and Bonneville Dam.

c/ Spring season fishery closed in 1975, 1976, and from 1978 to 2000. Spring Chinook landed during those years were from the winter season fishery.

d/ Includes below Bonneville Dam C&S starting in 2008.

e/ Snake River escapement at Lower Granite relative to escapement goals. Wild escapement goal includes Snake Basin harvest below Lower Granite Dam, Lower Granite count of wild escapement, and Tucannon wild return. Hatchery escapement goal includes Lower Granite count of hatchery escapement only.

f/ Hatchery rack and trap returns above Lower Granite Dam plus Tucannon and hatchery returns above Priest Rapids Dam (Wenatchee, Entiat, and Methow) plus Ringold. Does not include Leavenworth or East Bank.

g/ Preliminary.

h/ U.S. v. Oregon goal; not an FMP goal: wild escapement goal includes Snake Basin harvest below Lower Granite Dam, Lower Granite count of wild escapement, and Tucannon wild return. Hatchery escapement goal includes Lower Granite count of hatchery escapement only.

TABLE B-14. Estimates of inriver run size, catch, and escapement in numbers of Columbia River adult summer Chinook destined for areas above Bonneville Dam.^{a/} This table does not include Snake River summer Chinook.

Year or Avg.	Inriver Run Size	Lower River Catch ^{b/}		Bonneville Dam		Mainstem Treaty Indian Catch			Rock Island Dam Count	Rec. Catch Upstream of McNary Dam	Tribal Harvest upstream of McNary Dam
		Commercial ^{c/}	Sport	Count	Zone 6 Sport	Commercial ^{d/}	Ceremonial/ Subsistence				
1976-1980	22,320	81	-	22,239	-	38	1,047	16,326	0	0	
1981-1985	16,709	55	-	16,654	-	304	669	10,010	0	0	
1986-1990	21,036	71	8	20,957	-	708	194	14,563	0	0	
1991-1995	12,984	30	15	12,939	-	-	227	10,748	0	0	
1996	12,080	15	34	12,031	0	0	374	9,417	0	0	
1997	17,709	6	16	17,687	0	0	270	10,063	0	0	
1998	15,536	1	27	15,508	0	0	335	11,225	0	0	
1999	21,867	1	51	21,815	0	0	395	18,588	0	0	
2000	22,595	0	17	22,578	0	0	209	20,218	1,092	481	
2001	52,960	1	64	52,895	0	150	542	48,844	4,380	2,428	
2002	89,524	8	1,447	88,069	113	74	2,019	86,825	4,571	2,917	
2003	83,058	36	1,945	81,077	417	3,587	710	81,543	5,227	2,401	
2004	65,623	222	1,246	64,155	261	8,004	390	62,311	5,874	2,031	
2005	60,272	2,787	1,621	55,864	487	6,415	1,227	54,033	2,192	1,232	
2006	77,573	4,828	4,926	67,819	346	15,771	548	61,821	3,893	1,556	
2007	37,035	1,122	2,214	33,699	194	4,564	811	28,222	3,922	1,364	
2008	55,532	1,429	2,140	51,963	942	8,317	712	38,171	2,652	2,049	
2009	53,881	2,546	2,341	48,994	175	10,441	1,209	44,295	2,548	1,186	
2010	72,346	4,740	2,738	64,638	435	15,569	0 ^{e/}	47,220	2,932	3,379	
2011	80,574	5,004	5,576	69,994	369	20,645	0 ^{e/}	44,432	5,636	1,178	
2012	58,300	1,715	3,281	53,304	231	7,824	0 ^{e/}	52,184	4,045	3,258	
2013	67,603	1,987	2,058	63,508	10	13,272	125 ^{e/}	68,380	2,902	3,456	
2014 ^{f/}	78,304	2,838	2,385	72,871	465	19,179	210 ^{e/}	77,982	2,969	3,772	
GOAL	29,000 ^{g/}							12,143 ^{h/}			

a/ Summer Chinook accounting begins on June 16. Chinook managed as Snake River summer Chinook prior to 2004 are now grouped with all upriver spring Chinook because of overlap in run timing. As of 2004, they have been moved from this table to Table B-13.

b/ Includes estimated miscellaneous fishery-related impacts from mainstem recreational fisheries, test fisheries, commercial shad fisheries, and terminal area commercial gillnet fisheries beginning in 1979. Includes release mortality in selective fisheries beginning in 2002.

c/ No directed commercial summer Chinook fishery from 1964 to 2003. Landings during those years are bycatch from commercial shad and sockeye fisheries.

d/ No directed commercial summer Chinook fishery from 1965 to 2003. Landings during those years are bycatch from commercial sockeye fishery.

e/ No ceremonial and subsistence permits issued, sales of platform and hook-and-line subsistence catch allowed and included in commercial catch.

f/ Preliminary.

g/ Comanager goal established in 2004 associated with regrouping Snake River summer Chinook with Snake River spring Chinook.

h/ MSY spawning escapement objective adopted in 2011 under Amendment 16 based on Chinook Technical Committee Report 99-3.

TABLE B-15. Estimates of inriver run size, catch, and escapement in numbers of Columbia River adult Spring Creek Hatchery (SCH) stock fall Chinook.^{a/}

Year or Average	Inriver Run Size	Harvest				Escapement	
		Bonneville Dam Count	Treaty Indian Commercial and Subsistence	Non-Indian		Natural	Hatchery ^{c/}
				Commercial ^{b/}	Sport		
1971-1975	105,700	67,600	29,000	37,900	300	2,900	17,000
1976-1980	116,522	83,000	32,533	31,794	131	3,884	21,972
1981-1985	63,342	49,780	24,637	9,747	580	2,711	15,955
1986-1990	16,673	10,200	6,080	2,920	820	1,500	4,600
1991-1995	30,192	25,564	11,360	2,067	1,280	1,460	9,700
1996	33,137	30,300	21,100	1,700	900	1,300	7,700
1997	27,377	23,300	10,329	0	2,981	4,612	8,688
1998	20,158	17,100	6,592	197	2,556	2,731	3,224
1999	50,189	46,800	28,197	258	2,617	3,338	14,488
2000	20,527	18,400	7,903	1,141	897	4,085	6,257
2001	124,951	115,800	52,124	3,693	3,302	5,063	36,663
2002	158,299	145,200	48,350	11,485	6,654	8,069	67,436
2003	180,592	161,735	48,204	9,850	7,659	27,894	56,935
2004	175,245	164,482	59,941	3,690	5,614	14,084	68,932
2005	103,526	98,322	49,471	3,981	3,049	4,667	31,977
2006	27,917	21,197	13,400	1,774	654	1,931	9,889
2007	14,549	13,072	5,034	474	306	2,870	5,899
2008	93,860	82,331	43,933	7,100	3,526	2,765	33,722
2009	48,970	40,268	21,622	5,262	1,523	4,103	13,680
2010	130,767	114,666	58,824	11,236	3,299	4,843	45,279
2011	70,578	53,655	28,801	12,678	1,242	10,283	17,092
2012	56,766	44,076	14,223	7,997	3,191	5,063	26,255
2013	86,573	62,525	29,746	15,823	3,066	10,074	16,307
2014 ^{d/}	98,800	81,030	54,370	14,270	3,500	6,750	19,910
GOAL							7,000 ^{e/}

a/ Based on Columbia River fall Chinook database, WDFW, unpublished.

b/ Includes Select Area fisheries.

c/ Does not include strays to hatcheries below Bonneville Dam. Includes fall Chinook tules trapped at Bonneville Dam, 1986-1994 and 1998.

d/ Preliminary estimates based on inseason run updates.

e/ Escapement goal was changed from 8,200 fish to 7,000 fish, or 4,000 females, in 1994.

TABLE B-16. Estimates of inriver run size, catch, and escapement in numbers of Columbia River adult lower river hatchery (LRH) stock fall Chinook.^{a/}

Year or Average	Inriver Run Size	Harvest			Escapement	
		Treaty Indian Commercial and Subsistence	Non-Indian		Natural	Hatchery ^{d/}
			Commercial ^{b/}	Sport ^{c/}		
1971-1975	175,900	0	78,100	5,400	49,200	43,200
1976-1980	145,377	20	59,400	4,380	36,940	44,620
1981-1985	107,163	851	25,604	4,486	37,755	36,846
1986-1990	199,938	655	93,794	17,420	38,774	48,821
1991-1995	55,519	238	2,871	4,998	19,915	27,419
1996	75,495	360	3,899	4,641	23,909	42,662
1997	57,393	0	2,369	7,704	22,663	24,657
1998	45,265	0	844	4,519	16,713	23,035
1999	39,933	0	2,234	6,118	12,551	19,030
2000	26,997	0	860	3,212	10,714	12,211
2001	94,331	0	4,428	7,443	39,434	42,996
2002	156,444	279	9,928	15,353	80,670	50,138
2003	154,983	0	9,216	14,213	97,089	34,465
2004	109,055	475	13,122	11,870	53,399	30,103
2005	78,293	186	9,219	10,140	33,598	25,042
2006	58,319	237	5,919	9,449	26,633	15,957
2007	32,689	0	1,308	6,123	10,208	15,050
2008	61,559	502	5,701	6,543	21,528	27,265
2009	76,738	0	10,259	11,295	23,746	31,436
2010	102,955	0	14,981	13,046	33,962	40,964
2011	108,961	223	15,417	17,248	28,334	47,735
2012	84,797	457	14,996	17,481	21,556	30,303
2013	103,214	574	10,578	17,857	40,411	33,662
2014 ^{e/}	113,930	0	11,750	18,170	42,790	41,220
GOAL						Hatchery Production

a/ Based on Columbia River fall Chinook database, WDFW, unpublished.

b/ Includes Select Area fisheries.

c/ Includes tributary catches.

d/ Does not include strays to hatcheries above Bonneville Dam or fish trapped at Bonneville Dam.

e/ Preliminary estimates based on inseason run updates.

TABLE B-17. Estimates of inriver run size, catch, and escapement in numbers of Columbia River adult lower river wild (LRW) stock fall Chinook.^{a/}

Year or Average	Inriver Run Size	Harvest			Escapement	
		Treaty Indian Commercial and Subsistence	Non-Indian		Natural	Hatchery
			Commercial	Sport ^{b/}		
1971-1975	59,700	0	27,900	2,100	29,400	100
1976-1980	26,963	20	11,720	1,220	13,720	240
1981-1985	16,287	0	1,940	1,320	12,480	480
1986-1990	32,600	60	10,689	3,251	18,383	181
1991-1995	14,761	0	2,159	2,433	10,101	68
1996	14,566	0	325	234	13,914	93
1997	12,323	0	0	1,082	11,241	0
1998	7,253	0	0	667	6,493	93
1999	3,349	0	18	0	3,257	74
2000	10,234	0	604	0	9,422	208
2001	15,721	0	1,382	729	13,610	0
2002	25,171	161	1,801	3,245	19,654	50
2003	26,021	0	3,391	4,962	17,668	0
2004	22,327	0	2,343	3,638	16,346	0
2005	16,767	0	2,240	2,632	11,725	170
2006	18,105	0	2,546	2,801	12,758	0
2007	4,276	0	258	138	3,857	23
2008	7,120	0	0	937	6,183	0
2009	7,533	0	293	347	6,893	0
2010	10,898	0	0	237	10,661	0
2011	15,180	0	674	3,636	10,601	269
2012	13,926	0	3,591	869	9,407	59
2013	25,841	0	2,095	5,071	18,675	0
2014 ^{c/}	33,400	0	1,130	5,950	26,320	0
GOAL					5,700 ^{d/}	

a/ Based on Columbia River fall Chinook database, WDFW, unpublished.

b/ Includes tributary catches.

c/ Preliminary estimates based on inseason run updates.

d/ Escapement objective is for North Lewis River, but escapement numbers include other fish. The escapement objective for the North Lewis River was met for all years except 1998, 1999, 2007, 2008, and 2009.

TABLE B-18. Estimates of inriver run size, catch, and escapement in numbers of Columbia River adult upriver bright (URB) stock fall Chinook destined for areas above McNary Dam and the Deschutes River.^{a/}

Year or Average	Inriver Run Size	Bonneville Dam Count	Harvest			Escapement								
			Treaty Indian Commercial and Subsistence	Non-Indian		Natural Esc. ^{c/}	Upper Columbia Esc. ^{d/}	Hatchery	Deschutes above/below Sheares Falls ^{e/}		McNary Dam Count	Ice Harbor Dam Count	Total Lower Granite Count	SRW L. Granite Dam Count ^{f/}
				Commercial	Sport ^{b/}				Falls ^{e/}	Falls ^{e/}				
1971-1975	110,500	80,400	35,100	29,300	3,100	36,800	NA	2,600	NA	39,500	5,600	-	-	
1976-1980	92,301	72,360	32,160	19,180	980	29,480	NA	1,980	NA	31,080	1,160	532	532	
1981-1985	111,873	94,120	26,700	13,880	3,020	46,060	NA	8,100	NA	51,042	1,583	586	450	
1986-1990	291,407	222,337	100,379	61,499	13,613	90,709	NA	13,231	7,081	107,252	4,369	691	289	
1991-1995	105,302	99,028	20,813	5,000	5,095	51,424	NA	9,419	7,342	61,362	3,352	903	473	
1996	143,155	135,499	29,868	3,717	8,918	59,598	NA	15,905	10,233	73,929	3,810	1,308	639	
1997	161,735	152,941	42,637	1,429	11,506	68,889	NA	13,114	20,208	67,192	2,752	1,451	797	
1998	141,575	137,509	33,760	770	8,137	54,297	NA	18,798	15,908	63,791	4,220	1,909	306	
1999	165,889	155,756	38,822	2,133	15,173	48,372	NA	30,272	7,389	78,356	6,586	3,381	905	
2000	156,595	145,104	36,501	5,551	10,545	66,512	58,513	10,841	4,985	66,378	6,509	3,602	1,148	
2001	232,366	219,801	35,422	8,151	12,648	92,194	72,738	21,143	12,817	110,517	13,635	8,915	5,163	
2002	279,548	257,711	57,405	6,881	25,651	123,446	99,728	17,299	11,907	141,682	15,319	12,351	2,116	
2003	374,154	341,208	49,060	15,930	25,918	176,865	146,437	12,356	13,413	179,970	20,903	11,732	3,856	
2004	362,804	336,585	46,566	19,760	22,276	148,028	122,417	23,137	13,297	170,648	21,100	14,960	2,983	
2005	278,539	256,119	45,776	8,464	23,980	115,612	98,777	23,299	14,936	131,550	14,677	11,170	2,602	
2006	230,390	132,632	44,565	8,757	14,515	79,852	62,567	15,197	10,955	89,081	10,272	8,048	2,483	
2007	114,065	105,626	18,878	2,833	10,860	51,004	34,201	7,267	6,361	57,268	13,408	10,195	2,016	
2008	197,295	183,242	39,988	7,574	14,323	75,421	51,757	23,468	6,908	101,869	21,896	16,628	2,222	
2009	212,047	190,695	58,616	11,601	17,310	87,585	62,428	15,762	6,429	104,544	24,824	15,167	1,431	
2010	324,908	300,319	59,115	13,536	24,624	163,998	114,230	28,684	9,275	146,924	46,541	41,815	9,583	
2011	322,233	280,377	80,288	22,215	34,172	119,959	93,510	44,136	17,117	161,191	31,405	25,249	7,895	
2012	294,947	255,420	61,422	16,895	39,338	122,576	94,925	51,326	17,624	173,472	38,830	34,688	12,797	
2013	784,116	702,503	162,964	47,636	67,186	344,625	305,445	89,647	18,068	454,991	57,850	56,565	20,425	
2014 ^{g/}	860,090	829,640	275,670	52,270	67,230	464,920	346,000	80,722	17,993	410,786	61,389	60,687	14,172	
GOAL							39,625 ^{h/}			60,000 ^{i/}				

a/ Based on Columbia River fall Chinook database, WDFW, unpublished. Does not include hatchery URB Chinook reared and released below McNary Dam.

b/ Includes tributary and mainstem catches between Bonneville and Priest Rapids dams.

c/ Includes Deschutes, Yakima, Upper Columbia, and Snake River escapements.

d/ Upper Columbia escapement only: Yakima River, Hanford Reach, and Priest Rapids Dam count.

e/ Deschutes esc. time series revised in 2010 to match Deschutes R. Chinook Spawner Esc. Goal using U.S. v. OR Tech. Advisory Comm. Data (Sharma et al. 2009).

f/ Snake River wild; adjusted for stray hatchery fish. Includes wild fish hauled to Lyons Ferry Hatchery.

g/ Preliminary based on inseason run update.

h/ MSY spawning escapement objective adopted in FMP Amendment 16 in 2011.

i/ The U.S. v. Oregon parties managed for a McNary Dam esc. of 60,000 beginning in 2008. Starting in 1994, inriver fisheries were managed for ESA consultation standards.

TABLE B-19. Estimates of inriver run size, catch, and escapement in numbers of Columbia River adult mid-Columbia bright (MCB) stock fall Chinook destined for areas below McNary Dam, not including the Deschutes River.^{a/}

Year or Average	Inriver Run Size	Harvest				Escapement	
		Bonneville Dam Count	Treaty Indian Commercial and Subsistence	Non-Indian		Natural	Hatchery ^{c/}
				Commercial	Sport ^{b/}		
1982-1985	10,275	4,925	1,875	1,675	100	0	3,450
1986-1990	60,894	24,780	16,288	26,547	2,277	4,253	9,194
1991-1995	32,352	19,360	6,014	4,151	1,622	7,327	10,631
1996	59,698	38,100	12,443	5,306	3,387	15,618	15,868
1997	58,932	36,600	11,596	3,320	6,517	15,916	15,808
1998	37,328	29,900	5,570	1,063	5,697	11,380	8,401
1999	50,788	40,400	10,581	1,543	5,927	17,213	7,334
2000	37,191	25,600	7,186	3,739	3,507	10,135	7,884
2001	76,504	48,100	16,821	7,023	9,580	14,600	13,701
2002	108,198	57,600	24,358	9,437	12,737	27,005	21,946
2003	150,042	97,179	27,830	20,432	12,804	38,204	24,175
2004	122,496	79,866	23,392	9,178	11,167	27,779	26,210
2005	100,333	60,464	23,158	6,590	10,727	14,271	30,991
2006	80,470	31,402	22,705	4,577	3,567	12,501	19,745
2007	47,556	29,029	13,369	6,665	2,528	5,559	13,053
2008	76,297	44,210	23,260	10,349	5,648	6,813	21,409
2009	73,069	41,298	21,213	8,508	7,433	9,320	22,003
2010	78,937	50,878	22,009	3,719	5,960	7,904	33,391
2011	87,262	58,775	27,569	7,596	10,275	12,399	24,923
2012	61,851	44,306	15,682	4,517	11,152	12,860	17,052
2013	243,434	187,748	55,876	16,947	27,309	65,999	58,045
2014 ^{d/}	351,430	254,970	117,700	18,600	29,010	79,360	106,760
GOAL							Hatchery Production

a/ Based on Columbia River fall Chinook database, WDFW, unpublished. Does not include URB Chinook destined for areas above McNary Dam or the Deschutes River.

b/ Includes tributary and mainstem catches.

c/ Little White Salmon and Bonneville Hatcheries.

d/ Preliminary based on inseason run updates.

TABLE B-20. Estimates of minimum inriver run size and catch in numbers of adult spring, summer, and fall Chinook from the Columbia River. (Page 1 of 3)

Year or Avg.	Minimum Inriver Run Size	Below Bonneville Dam					Above Bonneville Dam							Total Treaty Indian & Non-Indian	
		Non-Indian Sport		Non-Indian Commercial			Non-Indian Sport			Treaty Indian					
		Tributary ^{a/}	Buoy 10 Mainstem ^{b/}	Select Area ^{c/}	Mainstem	Bonneville Dam Counts	Mainstem	Tributary ^{d/}	Ticketed Commercial ^{e/}	Non-Ticketed Public Sales	Ceremonial & Subsistence ^{f/}	Non-Indian Total			
											Sport	Commercial			
Spring Chinook^{g/}															
'79-'80	146,560	11,427	h/	1,150	-	2,900	55,775	-	-	259	--	1,714	12,653	2,900	17,525
'81-'85	200,440	19,568	h/	2,233	-	8,197	68,342	-	513	1,024	--	2,545	22,726	8,197	34,492
'86-'90	283,730	39,688	h/	5,686	-	14,138	104,433	-	2,615	186	--	6,771	48,740	14,138	69,835
'91-'95	182,871	33,201	h/	3,010	301	4,042	62,183	-	453	15	--	3,730	37,437	4,343	45,525
'96-'00	149,830	12,669	h/	93	2,664	430	90,676	-	3,923	279	--	5,080	16,925	3,094	25,378
2001	541,002	17,199	h/	27,014	9,269	5,279	415,079	3,017	54,728	22,019	21,696	10,985	101,958	14,548	171,206
2002	485,195	28,551	h/	22,045	11,699	17,407	308,795	2,815	25,637	17,930	6,324	9,208	79,049	29,106	141,616
2003	405,905	32,614	h/	17,781	7,806	4,658	229,501	2,416	21,116	5,792	2,842	9,090	73,927	12,464	104,115
2004	417,512	35,345	h/	24,638	10,562	14,489	198,296	2,875	22,474	5,256	3,114	9,114	85,332	25,051	127,868
2005	192,882	15,955	h/	11,635	2,406	5,647	97,387	473	6,544	1	0	6,163	34,606	8,053	48,823
2006	223,575	18,623	h/	7,087	7,245	5,106	126,158	1,491	3,686	1	0	8,401	30,887	12,351	51,640
2007	155,506	14,608	h/	6,527	6,774	3,336	80,829	1,810	4,962	3	0	5,624	27,907	10,110	43,645
2008	222,814	7,284	h/	20,312	4,486	6,007	151,895	2,608	19,312	12,314	0	9,077	49,516	10,493	81,400
2009	222,920	10,257	h/	17,246	4,175	4,521	147,489	1,142	17,367	0	0	13,101	46,012	8,696	67,809
2010	471,361	35,987	h/	29,735	24,892	10,807	277,389	5,789	37,604	25,008	0	17,946	109,116	35,699	187,768
2011	326,504	32,008	h/	12,006	11,101	5,759	205,431	4,356	24,002	7	0	15,526	72,372	16,860	104,765
2012	326,504	32,008	h/	12,006	11,101	5,759	205,431	4,356	24,002	7	0	15,526	72,372	16,860	104,765
2013	271,187	15,116	h/	7,140	8,064	3,297	112,934	932	7,206	0	0	9,282	30,394	11,361	51,037
2014 ^{h/}	506,245	13,388	h/	16,272	4,643	4,664	224,946	3,581	24,730	13,807	0	10,896	57,971	9,307	91,981
Summer Chinook^{g/h/}															
'79-'80	22,320	-	-	-	-	81	22,239	-	-	38	--	1,047	0	81	1,165
'81-'85	16,709	-	-	-	-	55	16,654	-	-	304	--	669	0	55	1,028
'86-'90	21,036	-	-	8	-	71	20,957	-	-	708	--	194	8	71	980
'91-'95	12,984	-	-	15	-	30	12,939	-	-	-	--	227	15	30	271
'96-'00	17,957	-	-	29	-	5	17,924	-	-	-	--	317	343	5	665
2001	52,960	0	0	64	0	1	52,895	0	6,808	150	0	542	6,872	1	7,565
2002	89,524	0	0	1,447	0	8	88,069	113	7,488	74	0	2,019	9,047	8	11,148
2003	83,058	0	0	1,945	36	0	81,077	417	7,628	3,587	0	710	9,989	36	14,322
2004	65,623	0	0	1,246	3	219	64,155	261	7,905	8,004	0	390	9,411	222	18,027
2005	60,272	0	0	1,621	0	2,787	55,864	487	3,424	6,415	0	1,227	5,532	2,787	15,961
2006	77,573	0	0	4,926	9	4,819	67,819	346	5,449	15,771	0	548	10,721	4,828	31,868
2007	37,035	0	0	2,214	0	1,122	33,699	194	5,286	4,564	0	811	7,694	1,122	14,191
2008	55,532	0	0	2,140	59	1,370	51,963	942	4,701	8,317	0	712	7,783	1,429	18,241
2009	53,881	0	0	2,341	22	2,524	48,994	175	3,734	10,441	0	1,209	6,250	2,546	20,446
2010	72,346	0	0	2,738	20	4,720	64,638	435	6,310	15,569	0	230	9,483	4,740	30,022
2011	80,574	0	0	5,576	0	5,004	69,994	369	6,815	20,645	0	0	12,760	5,004	38,409
2012	58,300	0	0	3,281	23	1,692	53,304	231	7,304	7,824	0	0	10,815	1,715	20,354
2013	67,603	0	0	2,058	33	1,954	63,508	10	6,358	13,272	0	125	8,426	1,987	23,810
2014 ^{h/}	78,304	0	0	2,385	45	2,793	72,871	465	6,741	19,179	0	210	9,591	2,838	31,818

TABLE B-20. Estimates of minimum inriver run size and catch in numbers of adult spring, summer, and fall Chinook from the Columbia River. (Page 2 of 3)

Year or Avg.	Minimum Inriver Run Size	Below Bonneville Dam					Above Bonneville Dam						Total Treaty Indian & Non-Indian		
		Non-Indian Sport		Non-Indian Commercial		Bonneville Dam Counts	Non-Indian Sport		Treaty Indian			Non-Indian Total			
		Tributary ^{a/}	Buoy 10 Mainstem ^{b/}	Select Area ^{c/}	Mainstem		Mainstem	Tributary ^{d/}	Ticketed Commercial ^{e/}	Non-Ticketed Public Sales	Ceremonial & Subsistence ^{f/}	Sport		Commercial	
Fall Chinook^{h/}															
'79-'80	327,458	3,651	-	1,155	20,800	73,253	135,878	500	--	32,568	--	--	5,306	113,253	151,127
'81-'85	307,206	4,158	2,870	1,528	8,560	45,490	150,768	1,677	--	48,888	--	5,025	10,234	54,050	118,196
'86-'90	603,713	6,383	20,641	4,119	16,059	181,817	258,807	5,825	442	118,864	953	5,692	37,056	197,876	360,441
'91-'95	240,267	3,541	4,979	2,633	1,230	14,693	145,489	4,150	584	33,408	4,732	526	15,887	15,923	70,476
'96-'00	295,597	1,398	6,906	8,766	2,919	7,346	208,836	5,084	1,922	38,397	21,746	485	24,077	10,265	94,970
2001	548,736	2,971	12,287	8,683	4,200	22,938	400,410	7,922	2,800	79,959	31,397	365	34,663	27,138	173,522
2002	733,340	7,789	18,273	21,235	7,899	34,428	474,648	11,171	5,940	96,277	33,918	457	64,408	42,327	237,387
2003	893,926	11,999	14,873	25,931	9,360	54,620	610,336	9,267	4,490	94,822	31,107	683	66,560	63,980	257,152
2004	799,024	8,379	15,201	16,968	12,400	40,373	583,269	10,297	4,215	111,833	15,379	416	55,060	52,773	235,461
2005	584,009	7,810	9,983	20,111	8,677	26,231	417,057	9,110	4,307	92,463	22,058	570	51,321	34,908	201,320
2006	422,433	7,052	1,620	13,447	4,822	23,144	299,161	5,136	3,969	58,842	18,849	391	31,224	27,966	137,272
2007	219,628	2,700	3,389	7,888	3,650	11,685	159,815	4,914	2,019	34,001	11,085	270	20,910	15,335	81,601
2008	448,985	3,499	7,764	10,881	12,495	27,678	314,995	7,022	2,647	90,968	18,055	40	31,813	40,173	181,049
2009	428,981	7,616	4,218	14,954	10,973	32,668	283,691	8,124	3,330	63,498	12,008	15	38,242	43,641	157,404
2010	657,083	8,074	6,473	16,948	18,137	30,712	467,524	13,527	3,307	118,447	13,029	27	48,329	48,849	228,681
2011	620,572	11,229	10,166	28,459	20,270	50,257	401,576	14,642	3,372	109,655	19,834	550	67,868	70,527	268,434
2012	525,369	7,888	18,441	24,740	18,751	36,195	350,047	18,416	6,171	78,154	50,954	832	75,656	54,946	260,542
2013	1,266,441	16,262	21,674	35,224	23,250	83,863	953,221	38,964	10,881	185,382	48,903	66	123,005	107,113	464,469
2014 ^{h/}	1,468,970	13,840	27,680	44,880	19,180	86,030	854,826	41,590	0	206,220	60,055	187	127,990	105,210	499,662
Total Chinook															
'79-'80	496,338	13,253	-	1,728	20,800	39,608	213,891	651	--	16,581	--	2,760	15,306	59,608	94,254
'81-'85	524,355	23,726	7,176	3,761	8,560	53,742	235,764	2,090	513	50,216	--	8,239	32,959	62,302	153,716
'86-'90	908,480	46,071	20,641	9,813	16,059	196,025	384,197	6,576	2,703	119,758	4,765	12,656	85,803	212,085	431,256
'91-'95	436,121	36,741	6,224	5,658	1,531	18,765	220,611	4,924	1,037	33,424	4,732	4,482	53,339	20,295	116,272
'96-'00	463,384	14,067	6,906	8,888	5,583	7,781	317,435	5,324	6,160	38,676	21,746	5,881	41,345	13,364	121,012
2001	1,142,698	20,170	12,287	35,761	13,469	28,218	868,384	10,939	64,336	102,128	53,093	11,892	143,493	41,687	352,294
2002	1,308,059	36,340	18,273	44,727	19,598	51,843	871,512	14,099	39,065	114,281	40,242	11,684	152,504	71,441	390,152
2003	1,382,889	44,613	14,873	45,657	17,202	59,278	920,914	12,099	33,234	104,201	33,949	10,483	150,476	76,480	375,589
2004	1,282,160	43,724	15,201	42,852	22,965	55,081	845,720	13,433	34,594	125,093	18,493	9,920	149,803	78,046	381,356
2005	837,163	23,765	9,983	33,367	11,083	34,665	570,308	10,069	14,275	98,879	22,058	7,960	91,459	45,748	266,104
2006	723,582	25,675	1,620	25,460	12,076	33,069	493,138	6,973	13,104	74,614	18,849	9,340	72,832	45,145	220,780
2007	412,169	17,308	3,389	16,629	10,424	16,143	274,343	6,918	12,267	38,568	11,085	6,705	56,511	26,567	139,437
2008	727,330	10,783	7,764	33,333	17,040	35,055	518,853	10,572	26,660	111,599	18,055	9,829	89,112	52,095	280,690
2009	705,782	17,873	4,218	34,541	15,170	39,713	480,174	9,441	24,431	73,939	12,008	14,325	90,505	54,883	245,659
2010	1,200,790	44,061	6,473	49,422	43,049	46,239	809,551	19,751	47,221	159,024	13,029	18,203	166,928	89,288	446,471
2011	1,027,650	43,237	10,166	46,041	31,371	61,020	677,001	19,368	34,189	130,307	19,834	16,076	153,000	92,391	411,608
2012	910,173	39,896	18,441	40,027	29,875	43,646	608,782	23,003	37,477	85,985	50,954	16,358	158,844	73,521	385,662
2013	1,605,232	31,378	21,674	44,422	31,347	89,114	1,129,663	39,906	24,445	198,654	48,903	9,473	161,825	120,461	539,316
2014 ^{h/}	2,053,519	27,228	27,680	63,537	23,868	93,487	1,152,643	45,636	31,471	239,206	60,055	11,293	195,552	117,355	623,461

TABLE B-20. Estimates of minimum inriver run size and catch in numbers of adult spring, summer, and fall Chinook from the Columbia River. (Page 3 of 3)

- a/ For spring Chinook: includes lower and upper Willamette, Clackamas, Cowlitz, Kalama, Lewis, and Sandy Rivers. Sandy River harvest not available before 1990. Catch estimates may include small numbers of Jacks. Does not include SAFE sport. For summer Chinook: all tributaries are closed. For fall Chinook: all tributaries downstream from Bonneville Dam.
- b/ Includes Select Area catch.
- c/ Youngs Bay Select Area began in 1992. Tongue Point and Blind Slough began in 1998. Select Area test fisheries began in 1991. Other Select Areas include Knappa in Oregon and Deep River in Washington.
- d/ Includes tributaries between Bonneville and McNary Dams, the Snake and Yakima rivers, Icicle and Ringold creeks. For Spring Chinook, this is Ringold creeks and tributaries above Lower Granite Dam. For summer Chinook, this is Wanapum and Hanford Reach.
- e/ Primarily mainstem fisheries between Bonneville and McNary dams, but also includes fish caught in miscellaneous commercial Indian fisheries such as Klickitat dip net and mainstem fisheries upstream from McNary Dam. Spring season fishery closed in 1975, 1976, and from 1978 to 2000. Spring Chinook landed during those years were from the winter season fishery. Summer season fishery closed from 1974 to 1982, 1989 to 2000. Summer Chinook landed during those years are bycatch from shad and sockeye fishery.
- f/ Primarily mainstem fisheries between Bonneville and McNary dams. Significant subsistence fisheries also occur in tributaries throughout the Columbia and Snake River basin, especially for spring Chinook, which are not included in these estimates.
- g/ Upriver spring Chinook accounting ends on June 15 and summer Chinook accounting begins on June 16.
- h/ Spring Chinook Buoy 10 area catch is included in mainstem sport.
- i/ Preliminary. Fall Chinook estimates are from inseason run updates.
- j/ Summer Chinook retention was prohibited for all mainstem non-Indian and treaty Indian fisheries until 2003. Small non-Indian incidental mortalities prior to 2003 are associated with recreational Steelhead fisheries and commercial shad and Sockeye fisheries. A few stray summer Chinook are caught in Select Area (terminal) fisheries that are open for late returning spring Chinook and early returning fall Chinook. Prior to 2003, Treaty Indians could retain summer Chinook for subsistence purposes.
- k/ No ceremonial and subsistence permits issued, sales of platform and hook-and-line subsistence catch allowed and included in commercial catch or non-ticked public sales.
- l/ Fall Chinook minimum run size includes LRH, LRW, SCH, URB, MCB, and SAB.

TABLE B-21. Estimates of minimum inriver run size, catch, and escapement in thousands of adult coho entering the Columbia River.^a

Year or Average	Minimum Inriver Run Size	Below Bonneville Dam					Above Bonneville Dam			
		Lower River Catch			Lower River Escapement		Bonneville Dam Counts ^{e/}	Mainstem Commercial Treaty Catch	Zone 6 Escapement ^{f/}	Hatchery Escapement
		Commercial	Recreational		Hatchery ^{c/}	Tributary Dam Counts ^{d/}				
			Buoy 10	Mainstem ^{b/}						
1971-1975	373.4	199.4	-	11.8	117.1	9.5	35.7	9.1	26.6	11.6
1976-1980	263.3	123.6	-	10.1	102.2	3.6	23.8	2.6	21.2	7.0
1981-1985	305.3	132.1	30.6	11.4	101.0	4.6	31.9	2.6	29.2	12.5
1986-1990	705.0	392.2	82.3	13.9	147.6	5.8	46.3	5.5	40.7	11.5
1991-1995	315.1	115.8	55.9	10.7	96.0	3.7	23.6	2.0	21.6	6.1
1996	117.1	26.2	4.5	3.8	62.2	0.6	15.7	0.7	15.0	1.4
1997	156.4	20.4	20.4	11.6	69.7	2.8	24.2	0.6	23.6	4.4
1998	175.9	23.0	3.2	6.7	87.9	1.3	46.3	1.5	44.8	11.3
1999	289.1	79.1	9.0	19.9	124.5	1.0	40.7	2.3	38.4	10.0
2000	558.3	168.4	21.5	37.7	288.6	6.2	85.8	6.3	79.5	26.6
2001	1,128.3	253.1	132.0	78.0	377.3	8.2	259.8	5.4	254.4	80.6
2002	535.8	163.0	6.2	27.4	211.1	3.7	88.6	1.6	86.9	2.9
2003	713.2	257.3	54.4	23.6	205.4	11.2	125.7	5.8	120.0	3.9
2004	463.5	119.6	15.2	13.6	173.5	5.6	115.0	10.3	104.8	6.2
2005	354.7	94.8	6.9	10.5	142.3	3.3	83.3	4.9	78.5	2.3
2006	409.7	63.4	3.7	16.5	191.1	9.5	102.1	8.1	94.1	0.7
2007	349.0	40.3	8.4	24.2	161.0	10.5	92.5	8.0	84.5	2.0
2008	520.5	60.4	8.6	42.8	240.9	6.2	135.5	21.6	113.9	1.1
2009	759.5	124.2	48.1	39.8	260.4	32.3	244.9	8.9	236.0	2.4
2010	470.8	76.3	8.0	23.4	189.3	22.3	102.7	7.1	95.6	0.6
2011	383.2	62.3	7.6	24.7	108.3	8.7	146.5	33.3	113.2	0.6
2012	143.9	17.1	7.4	4.7	41.9	9.1	55.0	6.4	48.6	1.1
2013	242.1	48.4	7.6	10.7	81.9	21.6	59.6	8.8	50.8	NA
2014 ^{g/}	966.7	237.3	57.7	43.5	291.9	31.5	280.4	39.2	241.2	0.9
GOAL					Hatchery Production				Hatchery Production	

a/ These numbers match OPI databases. Adjustments were made to the escapement figures and catches.

b/ Mainstem recreational catches listed in this table include tributary catches and catches in the Chinook/Hammond area of 3,195 in 1989, 28 in 1990, and 1,151 in 1991.

c/ Includes hatcheries operated by all agencies.

d/ Willamette Falls, Clackamas River (North Fork Dam) and Sandy River (Marmot Dam).

e/ Includes additional small adults counted as jacks for 1983-1984 and 1986-1989.

f/ Bonneville Dam count minus Zone 6 mainstem commercial treaty Indian harvest.

g/ Preliminary.

TABLE B-22. Estimated catch and effort in the Buoy 10 fishery.^{a/}

Year	Angler Trips	Catch ^{b/}		Catch Per Trip
		Chinook	Coho	
1982-1985	30,996	4,040	30,547	0.97
1986-1990 ^{c/d/}	130,633	22,107	82,910	0.78
1991-1995 ^{e/}	79,475	5,689	55,895	0.50
1996	18,034	1,409	4,537	0.33
1997	55,725	13,153	20,357	0.60
1998	29,998	5,784	3,175	0.30
1999	49,581	9,850	8,861	0.38
2000	72,518	6,085	21,478	0.38
2001	125,884	12,709	132,038	1.15
2002	84,457	19,441	6,233	0.30
2003	88,827	16,316	54,440	0.80
2004	68,818	16,016	15,169	0.45
2005	55,182	9,286	6,878	0.29
2006	40,688	1,706	3,687	0.13
2007	36,064	3,776	8,356	0.34
2008	32,467	8,349	8,573	0.52
2009	72,803	5,940	48,127	0.74
2010	52,300	6,807	7,980	0.28
2011	49,409	10,919	7,614	0.38
2012	65,070	18,550	7,385	0.40
2013	65,767	22,594	7,620	0.46
2014 ^{f/}	107,522	26,788	57,744	0.79

a/ Prior to 1982, Buoy 10 area catches were not estimated separately and are included in the Columbia River marine area (Cape Falcon to Leadbetter Pt.) recreational catches. Estimates include bank anglers fishing from Clatsop Spit in Oregon and from the North Jetty in Washington. Effort and catch for the North Jetty fishery applied to the ocean quota for the Columbia River area until the ocean fishery closed. Beginning in 2000, includes catch and effort from the Astoria-Megler Bridge upstream to the new boundary from Tongue Point, Oregon to Rocky Point, Washington.

b/ Includes adults and jacks as determined by CWT analysis.

c/ 1989 includes catch and effort data for the Chinook/Hammond fishery occurring during weeks 32 and 33. A total of 7,922 angler trips produced catches of 492 Chinook, 3,195 coho, and a catch rate of 0.47 fish per trip. Catches in this fishery were counted against the Buoy 10 quota.

d/ 1990 includes catch and effort data for the Chinook/Hammond fishery occurring during weeks 31 and 32. A total of 3,225 angler trips produced catches of 54 Chinook, 28 coho, and a catch rate of 0.03 fish per trip.

e/ 1991 includes catch and effort data for the Chinook/Hammond fishery occurring during weeks 31 and 32. A total of 2,759 angler trips produced catches of 39 Chinook, 1,151 coho, and a catch rate of 0.43 fish per trip.

f/ Preliminary.

TABLE B-23. Willapa Bay fall Chinook terminal run size, catch, and spawning escapement in numbers of fish.

Year or Average	Non-local Stocks	Terminal Catch		Spawning Escapement		Terminal Run Size ^{d/}
	Gillnet Catch ^{a/}	Gillnet	Sport ^{b/}	Natural ^{c/}	Hatchery	
1976-1980	6,083	16,725	419	1,995	4,529	21,439
1981-1985	672	7,675	589	1,588	5,398	14,906
1986-1990	2,167	18,483	1,578	5,576	22,458	47,805
1991-1995	1,121	28,252	2,823	2,819	17,086	50,981
1996	-	36,983	3,024	2,153	12,079	54,239
1997	-	12,309	2,404	3,891	13,729	32,333
1998	-	6,765	2,178	3,114	4,677	16,734
1999	-	265	1,906	1,360	4,900	8,431
2000	-	5,922	1,399	2,303	10,455	20,079
2001	-	5,459	2,121	2,161	10,099	19,840
2002	26	9,286	2,543	1,729	13,680	27,238
2003	125	7,574	3,242	2,732	14,628	28,176
2004	-	4,349	3,889	2,838	21,444	32,520
2005	-	6,354	4,820	1,978	18,088	31,240
2006	-	12,318	5,551	3,739	24,209	45,817
2007	-	4,108	2,579	1,907	13,400	21,994
2008	-	3,595	2,988	1,544	14,891	23,018
2009	-	6,929	4,623	2,345	19,831	33,728
2010 ^{f/g/}	81	8,549	3,367	4,499	21,576	37,991
2011 ^{f/g/}	778	20,068	8,438	3,805	21,892	54,203
2012 ^{f/g/}	932	11,242	6,055	2,677	14,178	34,152
2013 ^{f/g/}	1,080	14,185	5,823	1,904	14,527	36,439
2014 ^{f/g/}	929	14,511	NA	NA	NA	NA
GOAL				3,393 ^{h/}	9,800 ^{i/}	

a/ Non-local gillnet is catch prior to Aug. 16. 2010-13, 42% were considered non-local. In 2014, 28% were non-local based on genetic data samples collected in gillnet fishery.

b/ Includes catch and incidental mortalities.

c/ Adults. Sport catch since 1991 includes marine areas within Willapa Bay (e.g., Washaway Beach).

d/ Escapement estimates after 1984 are based on revised spawning habitat estimates. Natural = adult returns assumed to be from natural origin parents.

e/ Does not include catch of non-local stocks.

f/ Preliminary.

g/ To calculate total gillnet catch, combine Non-local Stocks Gillnet Catch (column 1) and Terminal Catch Gillnet (column 2).

h/ MSY spawning escapement objective established in FMP Amendment 16; WDFW goal is 4,350.

i/ WDFW goal; not an FMP goal.

TABLE B-24. Willapa Bay coho terminal run size, catch, and spawning escapement in numbers of fish.

Year or Average	Terminal Catch		Spawning Escapement		Terminal Run Size ^{d/}
	Gillnet	Sport ^{a/}	Natural ^{b/}	Hatchery ^{c/}	
1976-1980	15,031	2,842	5,800	14,328	38,001
1981-1985	39,007	2,181	3,567	26,640	69,968
1986-1990	68,969	2,591	NA	35,811	107,371
1991-1995	34,255	2,802	4,582	27,205	65,178
1996	38,322	4,052	15,711	48,895	106,980
1997	1,526	806	4,934	6,399	13,665
1998	13,141	852	13,804	6,785	34,582
1999	5,467	2,836	9,628	22,711	40,642
2000	10,326	1,780	23,034	29,148	64,288
2001	31,913	5,707	48,404	54,359	140,383
2002	59,435	5,672	52,722	54,838	172,667
2003	66,470	5,887	46,704	68,797	187,858
2004	16,533	2,361	36,639	21,220	76,753
2005	48,929	3,892	22,007	45,165	119,993
2006	19,948	811	12,306	8,088	41,153
2007	8,189	955	18,202	9,243	36,589
2008	16,692	1,227	14,898	12,488	45,305
2009	75,095	6,461	45,655	22,813	150,024
2010	28,901	5,096	76,573	40,175	150,745
2011 ^{e/}	47,985	5,680	31,263	25,614	110,542
2012 ^{e/}	25,783	5,064	20,256	17,169	68,272
2013 ^{e/}	11,560	4,241	NA	NA	15,801
2014 ^{e/}	77,233	NA	NA	NA	NA
GOAL			13,090 ^{f/}	6,100 ^{f/}	

a/ Adults. Sport catch since 1991 includes marine areas within Willapa Bay (e.g., Washaway Beach).

b/ Natural spawning escapement estimates were not made in 1984-1994; estimates in 1996, 1997, and 1998 do not include adult fish released upstream of hatchery racks.

c/ Hatchery rack number includes fish released upstream.

d/ Does not include natural spawning escapement between 1984 and 1994.

e/ Preliminary.

f/ WDFW goal; not an FMP goal.

TABLE B-25. Grays Harbor Chinook terminal catch, spawning escapement, and run size in numbers of fish. (Page 1 of 2)

Year or Average	Terminal Catch					Spawning Escapement		Terminal Run Size ^{d/}
	Early Non-local Catch	Non-Indian Gillnet	Treaty Indian Gillnet	Chehalis Tribal Gillnet	Sport ^{a/}	Natural ^{b/}	Hatchery ^{c/}	
SPRING Chinook								
1976-1980	-	-	-	587	e/	600	-	1,187
1981-1985	-	-	-	57	5	924	-	963
1986-1990	-	-	e/	143	6	1,875	-	2,024
1991-1995	-	-	0	94	15	1,566	-	1,675
1996	-	-	104	127	52	4,462 ^{f/}	-	4,745
1997	-	-	52	172	160	4,460 ^{f/}	-	4,844
1998	-	-	6	164	121	2,388	-	2,679
1999	-	-	3	187	76	1,285	-	1,551
2000	-	-	17	174	91	3,135	-	3,417
2001	-	-	4	210	252	2,860	-	3,326
2002	-	-	76	419	124	2,598	-	3,217
2003	-	-	68	0	131	1,904	-	2,103
2004	-	-	54	177	65	5,034	-	5,330
2005	-	-	26	439	88	2,129	-	2,682
2006	-	-	5	249	128	2,481	-	2,863
2007 ^{g/}	-	-	5	205	54	651	-	915
2008 ^{g/}	-	-	2	0	0	995	-	997
2009 ^{g/}	-	-	18	0	0	1,132	-	1,150
2010 ^{g/}	-	-	0	0	0	3,495	-	3,495
2011 ^{g/}	-	-	10	0	0	2,563	-	2,573
2012 ^{g/}	-	-	6	201	59	878	-	1,151
2013 ^{g/}	-	-	31	NA	148	2,459	-	2,638
2014 ^{g/}	-	-	14	NA	NA	1,583	-	NA
GOAL						1,092 ^{h/}		

TABLE B-25. Grays Harbor Chinook terminal catch, spawning escapement, and run size in numbers of fish. (Page 2 of 2)

Year or Average	Terminal Catch					Spawning Escapement		Terminal Run Size ^{d/}
	Early Non-local Catch	Non-Indian Gillnet	Treaty Indian Gillnet	Chehalis Tribal Gillnet	Sport ^{a/}	Natural ^{b/}	Hatchery ^{c/}	
FALL Chinook								
1976-1980	4,433	3,642	3,108	1,006	1,128	7	413	9,303
1981-1985	602	964	3,524	465	268	10	742	5,973
1986-1990	694	4,122	10,414	597	1,340	20,730	1,319	38,522 ^{i/}
1991-1995	206	5,000	7,750	901	3,794	14,276	3,006	34,728 ^{i/}
1996	148	1,441	4,068	49	7,456	20,227	4,307	37,548 ^{i/}
1997	24	2,796	6,630	311	2,687	18,168	2,416	33,008 ^{i/}
1998	5	267	4,135	0	2,912	12,529	1,921	21,764 ^{i/}
1999	0	87	1,926	1	114	10,363	1,990	14,481 ^{i/}
2000	671	647	3,289	0	1,714	9,250	1,471	16,371
2001	0	2,523	3,885	0	3,210	9,491	1,375	20,484
2002	40	26	963	0	2,955	11,838	2,072	17,854
2003	0	295	851	0	1,031	19,417	2,438	24,032
2004	0	183	3,498	476	6,158	31,770	2,920	45,005
2005	0	379	2,260	NA	465	19,499	3,328	25,931
2006	0	195	3,738	NA	1,635	17,113	3,352	26,033
2007 ^{g/}	0	514	2,472	NA	1,719	12,440	1,745	18,890
2008 ^{g/}	0	717	1,878	NA	0	15,331	2,304	20,230
2009 ^{g/}	0	1,193	2,485	NA	860	8,358	1,798	14,694
2010 ^{g/}	0	1,495	3,403	NA	1,995	16,951	3,092	26,936
2011 ^{g/}	0	2,121	6,402	NA	3,049	20,317	3,360	35,249
2012 ^{g/}	0	1,579	3,988	NA	4,357	11,969	827	24,818
2013 ^{g/}	0	85	2,875	NA	4,248	12,582	701	20,491
2014 ^{g/}	0	72	5,094	2	NA	12,400	1,676	NA
GOAL						14,600^{h/}		

a/ Age-3 and older.

b/ Age-3 and older, including hatchery fish spawning naturally.

c/ Includes fish taken from the spawning grounds for broodstock.

d/ Minimum estimate due to incomplete estimates of river recreational catch. Does not include non-local catch.

e/ Fewer than 50 fish.

f/ WDFW is not able to differentiate spawning time and believes this includes fall Chinook.

g/ Preliminary.

h/ Spawning escapement objective adopted under Amendment 16. Previous objectives of 1,400 (spring) and 14,600 (fall) used for preseason planning in 2014.

i/ Rec. catch estimates by WDFW reflect a catch record card bias correction factor of 0.833. Quinault Indian Nation does not believe this factor is appropriate. Unadjusted catch estimates are 1,000 for 1987; 2,400 for 1988; 2,500 for 1989; 2,400 for 1990; 4,500 for 1991; 2,600 for 1992; 4,200 for 1993; 4,300 for 1994; 6,500 for 1995; 6,800 for 1996; 3,400 for 1997; 3,500 for 1998; and 100 for 1999; terminal run sizes would be adjusted accordingly.

TABLE B-26. Grays Harbor coho terminal catch, spawning escapement, and run size estimates in numbers of fish.

Year or Average	Terminal Catch				Spawning Escapement ^{b/}		Terminal Run Size ^{c/}		
	Non-Indian Gillnet	Treaty Indian Gillnet	Chehalis Tribal Gillnet	Sport ^{a/}	Natural	Hatchery	Natural	Hatchery	Total ^{d/}
	1976-1980	5,231	9,675	3,510	2,021	29,510	10,207	44,430	17,933
1981-1985	5,299	15,614	2,865	5,012	36,847	18,094	40,320	42,604	82,924
1986-1990	7,715	30,109	1,817	5,355	44,836	31,479	48,207	73,099	121,307
1991-1995	12,502	29,186	2,609	10,503	36,485	32,017	49,285	74,407	123,692
1996	10,096	51,874	2,672	20,846	63,571	50,041	85,553	113,620	199,173
1997	115	5,395	125	1,547	22,470	13,008	19,512	23,068	42,580
1998	795	13,430	305	2,123	35,551	16,957	40,095	29,678	69,773
1999	1,674	12,061	68	4,507	33,348	27,518	37,709	41,970	79,679
2000	4,995	10,797	7	5,122	38,054	34,659	41,606	47,448	89,054
2001	3,152	15,520	82	20,868	80,100	85,826	75,062	126,704	201,766
2002	6,853	14,132	666	13,083	110,066	51,390	109,626	83,139	192,765
2003	6,623	12,041	1,000	12,026	84,952	72,913	92,653	97,635	190,288
2004	5,231	17,681	1,741	9,847	60,690	48,552	60,689	82,799	143,488
2005	3,073	23,260	2,286	10,919	38,585	50,227	41,786	86,922	128,708
2006	649	8,685	127	2,151	18,767	17,031	21,236	26,174	47,410
2007 ^{e/}	1,687	8,926	1,108	4,450	25,808	14,309	28,293	27,995	56,288
2008 ^{e/}	7,783	10,204	869	3,266	35,562	19,642	45,534	31,792	77,326
2009 ^{e/}	561	28,513	2,519	16,288	75,763	54,478	97,811	80,311	178,122
2010 ^{e/}	3,990	25,163	1,216	12,455	105,894	73,055	112,992	108,781	221,773
2011 ^{e/}	3,628	28,267	742	14,569	67,024	23,115	99,256	38,089	137,345
2012 ^{e/}	10,350	30,670	2,470	17,706	71,039	21,483	115,119	38,619	153,738
2013 ^{e/}	5,941	21,957	2,434	21,181	57,055	26,266	78,798	45,346	124,144
2014 ^{e/}	5,474	67,067	7,322	NA	NA	55,970	NA	NA	NA
GOAL					24,426 ^{f/}				

a/ Beginning in 1987, estimates provided by WDFW for recreational catch reflect punch card bias correction factor.

b/ "Natural" includes hatchery fish spawning in wild. "Hatchery" includes wild fish taken for brood stock.

c/ Terminal run size numbers from 1981 to present are under co-manager review.

d/ The combined natural and hatchery run size total may not add to the sum of the catch and escapements due to hatchery total run size including on-station and off-station escapements.

e/ Preliminary.

f/ The MSH escapement objective of 35,400 was used for preseason planning through the 2013 season.

TABLE B-27. Treaty Indian gillnet catch of Chinook, chum, and sockeye salmon in the Quinault River in numbers of fish.

Year or Average	Spring/Summer Chinook ^{a/}	Fall Chinook ^{a/}	Chum	Sockeye
1976-1980	149	4,320	7,960	17,560
1981-1985	114	5,100	4,720	12,600
1986-1990	338	8,822	4,686	11,218
1991-1995	98	6,293	2,505	9,523
1996	41	5,221	594	1,244
1997	19	2,625	1,033	2,532
1998	75	6,124	4,699	3,440
1999	10	4,840	599	73
2000	0	3,421	755	0
2001	5	4,047	2,009	0
2002	36	4,542	1,151	16,939
2003	92	7,343	3,742	37,130
2004	142	10,662	2,916	6,990
2005	24	7,648	1,283	116
2006	16	7,044	862	8
2007	20	2,126	1,173	1
2008	10	3,682	1,171	0
2009	43	5,455	1,156	1,441
2010	8	4,521	2,037	1,856
2011	26	5,998	7,421	9,177
2012	15	5,090	3,426	1,193
2013 ^{b/}	20	7,148	3,834	969
2014 ^{b/}	11	12,349	1,250	4,313

a/ Stock separation under review.

b/ Preliminary.

TABLE B-28. Estimated inriver run size, catch and escapement for Quinault River coho in numbers of fish.

Year or Average	Terminal Catch ^{a/}			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport	Natural	Hatchery	Natural	Hatchery	Total
1977-1980	9,750	--	--	3,425	3,107	8,465	7,750	16,215
1981-1985	10,700	--	--	3,237	6,239	7,809	12,657	20,466
1986-1990	13,777	--	--	3,185	4,239	8,024	13,200	21,224
1991-1995	7,963	--	--	4,319	8,046	6,205	13,472	19,678
1996	10,087	--	--	13,327	9,521	18,849	13,865	32,714
1997	365	--	--	3,150	1,054	3,339	1,118	4,457
1998	5,946	--	--	3,770	3,158	7,156	5,581	12,737
1999	15,491	--	--	12,666	14,617	19,138	23,101	42,239
2000	16,194	--	--	7,421	9,481	14,559	18,099	32,658
2001	25,348	--	--	21,565	30,689	30,016	47,115	77,131
2002	19,197	--	--	12,213	16,841	16,847	30,196	47,043
2003	22,546	--	--	4,710	16,841	9,546	34,132	43,678
2004	17,055	--	--	1,404	10,321	3,377	24,821	28,198
2005	23,852	--	--	6,418	10,034	15,951	25,574	41,525
2006	9,785	336	325	1,110	3,207	3,432	11,032	14,464
2007	11,770	578	650	6,193	15,069	9,778	24,395	34,173
2008	25,227	961	978	14,920	14,959	26,544	29,774	56,318
2009	54,882	2,036	2,047	33,140	23,353	48,324	66,095	114,419
2010	41,726	1,449	1,450	19,302	12,785	33,577	41,680	75,257
2011	38,431	1,481	1,570	26,588	19,131	41,759	43,420	85,179
2012 ^{b/}	19,166	656	798	13,026	5,383	23,171	15,514	38,684
2013 ^{b/}	20,477	942	1,203	23,592	17,818	29,579	33,628	63,207
2014 ^{b/}	50,294	NA	NA	NA	30,891	NA	NA	NA
GOAL					Hatchery Production			

a/ Includes dip-in fish destined for other river systems.

b/ Preliminary.

TABLE B-29. Estimated inriver run size, catch, and escapement of Queets River spring/summer Chinook in numbers of fish.

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}	Natural ^{b/}	Hatchery	Natural	Hatchery	Total
1976-1980	267	18	53	851	24	1,176	37	1,078
1981-1985	243	20	27	890	52	956	74	1,209
1986-1990	646	46	67	1,527	-	2,287	-	2,287
1991-1995	64	5	10	610	-	689	-	688
1996	43	3	69	776	-	891	-	891
1997	72	10	71	540	-	693	-	693
1998	18	27	-	492	-	537	-	537
1999	12	41	-	373	-	426	-	426
2000	-	2	-	248	-	250	-	250
2001	-	17	-	548	-	565	-	565
2002	-	17	-	738	-	755	-	755
2003	-	6	-	189	-	195	-	195
2004	-	15	-	604	-	619	-	619
2005	-	8	-	298	-	306	-	306
2006	-	6	-	330	-	336	-	336
2007	-	6	-	352	-	358	-	358
2008	-	3	-	305	-	305	-	305
2009	-	0	-	495	-	495	-	495
2010	-	0	-	259	-	259	-	259
2011	-	0	-	373	-	373	-	373
2012 ^{c/}	-	0	-	760	-	760	-	760
2013 ^{c/}	-	<10	-	520	-	520	-	520
2014 ^{c/}	75	<10	-	377	-	452	-	462
GOAL				700 ^{d/}				

a/ River catch of adults.

b/ Natural escapement includes hatchery strays.

c/ Preliminary.

d/ Minimum. Terminal run managed at 30 percent exploitation rate of inriver run size.

TABLE B-30. Estimated inriver run size, catch, and escapement of Queets River fall Chinook in numbers of fish.

Average	Terminal Catch			Escapement Natural ^{b/}	Terminal Run Size		Total
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}		Natural ^{c/}	Indicator ^{d/}	
1976-1980	1,540	100	36	2,820	4,320	-	4,320
1981-1985	2,104	20	135	3,930	5,691	591	6,282
1986-1990	2,430	20	214	8,768	10,677	861	11,538
1991-1995	1,860	20	109	4,106	5,511	708	6,219
1996	1,307	20	238	4,218	4,693	1,234	5,927
1997	1,708	20	210	2,872	4,122	823	4,945
1998	804	20	347	3,859	5,009	164	5,173
1999	947	20	93	1,918	2,885	220	3,105
2000	262	20	50	3,755	3,752	395	4,147
2001	1,366	64	285	3,066	3,571	1,204	4,775
2002	2,887	69	20	2,598	4,385	1,186	5,571
2003	1,322	93	278	4,971	5,183	1,428	6,611
2004	1,228	93	370	5,173	4,846	2,018	6,864
2005	1,648	90	441	4,578	4,542	2,213	6,755
2006	1,079	57	71	3,059	3,262	1,004	4,266
2007	634	20	74	872	1,288	307	1,595
2008	1,020	41	0	3,105	3,510	698	4,208
2009	1,522	65	209	3,135	4,062	856	4,918
2010	1,722	81	169	4,031	4,250	1,751	6,001
2011	2,327	83	417	3,857	4,877	1,772	6,649
2012 ^{e/}	2,722	86	302	3,707	5,835	922	6,757
2013 ^{e/}	1,943	61	258	2,582	4,077	890	4,967
2014 ^{e/}	1,182	NA	NA	NA	NA	NA	NA
GOAL				2,500 ^{f/}			

a/ River sport catch of age-3 and older fish. The 2000 sport fishery was closed to retention of unmarked Chinook. The 2002 sport fishery was closed to Chinook retention on October 18 due to unusually low water conditions. The 2008 sport fishery was closed to the retention of Chinook. The 2009 sport fishery was closed to retention of unmarked Chinook in Queets and Salmon Rivers within Olympic National Park.

b/ Includes Indicator Stock. Estimates for years prior to 2001 assume a broodstock take of 150 as a placeholder until individual run reconstructions are complete.

c/ Includes from 100 to 200 wild Chinook captured each season near spawning grounds to be used as Indicator broodstock.

d/ This is an integrated wild/hatchery program. Brood stock are unmarked wild fish collected from river.

e/ Preliminary.

f/ Minimum. Terminal run managed at 40 percent exploitation rate of terminal run size.

TABLE B-31. Estimated terminal run size, catch, and escapement for Queets River coho in numbers of fish.

Year or Average	Terminal Catch ^{a/}			Escapement ^{c/}			Terminal Run Size ^{c/}			
	Gillnet	Ceremonial & Subsistence	River Sport ^{b/}	Natural	Supplemental	Hatchery	Natural	Supplemental	Hatchery	Total ^{d/}
1976-1980	2,440	60	140	3,460	-	1,000	5,100	-	1,640	6,740
1981-1985	2,385	20	104	5,397	-	2,654	6,411	-	3,794	10,205
1986-1990	8,455	18	241	4,826	996	3,700	6,343	1,825	9,685	17,123
1991-1995 ^{e/}	4,423	285	273	4,943	1,024	3,455	5,967	1,167	6,927	13,828
1996	16,035	920	279	8,926	3,575	5,189	10,722	4,502	13,078	28,302
1997	3,087	222	106	1,712	e/	2,137	1,970	e/	5,029	6,999
1998	7,411	452	135	4,134	1,387	3,503	4,661	1,536	9,545	15,742
1999	3,974	381	119	4,799	519	3,551	5,054	529	7,388	12,971
2000	5,066	479	223	8,104	682	2,032	8,715	701	5,366	14,782
2001	13,722	1,287	1,554	23,871	1,082	6,508	28,368	2,293	14,193	44,854
2002	23,712	1,009	399	13,968	1,065	2,240	16,123	1,311	21,514	38,948
2003	12,693	921	743	9,846	1,081	7,002	13,224	1,343	15,544	30,111
2004 ^{f/}	8,189	657	1,287	7,484	1,225	3,985	10,030	1,673	10,395	22,098
2005 ^{f/}	20,810	989	873	6,539	432	7,843	9,658	542	26,304	36,504
2006 ^{f/}	6,190	353	52	5,626	0	2,931	6,400	0	7,101	13,501
2007	2,261	304	153	4,680	0	1,874	6,066	0	2,779	8,845
2008	4,671	356	562	4,629	0	3,461	6,221	0	5,667	11,888
2009	25,004	1,680	865	9,404	0	14,151	16,909	0	30,161	47,070
2010	21,138	1,381	944	11,261	0	10,326	18,283	0	20,954	39,237
2011	16,641	1,204	1,521	8,588	0	12,887	15,350	0	19,812	35,162
2012 ^{g/}	6,118	373	527	4,285	0	1,105	8,119	0	3,272	11,391
2013 ^{g/}	4,519	563	1,285	5,684	0	9,566	8,848	0	11,381	20,229
2014 ^{g/}	15,473	NA	NA	NA	0	NA	NA	0	NA	NA
GOAL				5,800-14,500						

a/ Includes dip-in fish from other river systems.

b/ Recreational catch of adults (coho over 20 inches).

c/ Natural escapement and run size estimates include fish taken for hatchery brood stock.

d/ Queets stock only; does not include non-local, dip-in fish.

e/ 1991 and 1997 supplemental was included in natural escapement and run size.

f/ Escapement estimates are from non-standard methods due to poor survey conditions during the coho spawning season.

g/ Preliminary.

TABLE B-32. Estimated inriver run size, catch, and escapement for Hoh River spring/summer Chinook in numbers of fish.

Year or Average	Terminal Catch ^{a/}											
	Gillnet			Ceremonial & Subsistence			River Sport ^{b/}	Escapement		Terminal Run Size		
	Natural	Hatchery	Total	Natural	Hatchery	Total		Natural	Hatchery	Natural	Hatchery	Total
1976-1980	NA	NA	640	--	--	52	84	1,040	0	1,835	0	1,835
1981-1985	NA	NA	448	--	--	30	124	1,431	50	1,944	128	2,073
1986-1990	NA	NA	1,072	--	--	33	315	2,829	34	4,043	257	4,300
1991-1995	NA	NA	432	--	--	22	273	1,268	0	1,852	156	2,008
1996	NA	NA	471	--	--	30	267	1,371	16	2,083	114	2,197
1997	NA	NA	416	--	--	57	331	1,826	0	2,582	53	2,635
1998	NA	NA	294	--	--	20	288	1,287	0	1,880	28	1,908
1999 ^{c/}	NA	NA	155	--	--	20	52	928	99	1,081	171	1,252
2000 ^{d/}	NA	NA	87	--	--	38	21	492	0	529	116	645
2001 ^{d/}	NA	NA	134	--	--	39	43	1,159	0	1,231	101	1,332
2002 ^{e/}	NA	NA	587	--	--	37	372	2,464	0	3,375	85	3,460
2003 ^{e/}	NA	NA	296	--	--	20	206	1,228	0	1,646	104	1,750
2004 ^{e/}	NA	NA	401	--	--	20	102	1,786	0	2,239	70	2,309
2005 ^{e/}	NA	NA	323	--	--	36	73	1,193	0	1,389	217	1,606
2006 ^{e/}	NA	NA	576	--	--	37	109	904	0	1,061	571	1,632
2007 ^{e/}	NA	NA	760	--	--	68	136	810	0	1,023	592	1,615
2008 ^{d/e/}	22	227	249	10	40	50	7	671	0	703	274	977
2009 ^{d/e/}	30	106	136	3	2	5	12	880	2	913	122	1,035
2010 ^{d/e/}	24	83	107	0	0	0	6	828	0	852	89	941
2011 ^{d/e/}	51	25	76	7	3	10	22	827	0	885	50	935
2012 ^{d/e/f/}	135	263	398	9	11	20	36	915	1	1,059	311	1,370
2013 ^{d/e/f/}	117	415	532	6	17	23	37	750	0	873	469	1,342
2014 ^{d/e/f/}	67	264	331	8	20	28	0	744	0	819	284	1,103
GOAL								900 ^{g/}				

a/ Beginning in 1981, catch breakouts recalculated to account for Solduc hatchery yearling release dip-in fish.

b/ Recreational catch of adults (at least 24 inches total length); beginning in 2008, all Chinook must be marked with a healed adipose fin clip.

c/ Sport fishery closed until July 14.

d/ Sport fishery closed to retention of wild adult spring/summer Chinook through August 31 .

e/ Sport fishery open May 16 through August 31 from mouth to Willoughby Creek.

f/ Preliminary.

g/ Minimum. Terminal run managed at 31 percent harvest rate of inriver run size.

TABLE B-33. Estimated inriver run size, catch, and escapement for Hoh River fall Chinook in numbers of fish.

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}	Natural ^{b/}	Hatchery	Natural ^{b/}	Hatchery	Total
1976-1980	760	36	37	2,080	-	2,960	-	2,960
1981-1985	849	36	59	2,745	20	3,684	100	3,764
1986-1990	2,000	32	213	4,500	33	6,819	88	6,907
1991-1995	871	27	233	2,774	0	3,590	65	3,655
1996	836	30	192	3,022	0	4,061	19	4,080
1997	1,114	35	164	1,773	0	3,034	52	3,086
1998	846	30	268	4,257	0	5,388	13	5,401
1999	596	30	413	1,924	0	2,941	22	2,963
2000	404	20	479	1,749	0	2,632	20	2,652
2001	946	40	600	2,560	0	4,116	120	4,236
2002 ^{c/}	1,461	30	134	4,415	82	5,716	406	6,122
2003	517	30	216	1,649	32	2,345	99	2,444
2004	815	30	400	3,211	26	4,410	72	4,482
2005	970	21	229	4,180	14	5,323	77	5,414
2006	586	30	204	1,535	0	2,336	19	2,343
2007	660	30	192	1,556	0	2,427	11	2,438
2008	659	0	278	2,999	0	3,911	25	3,936
2009	553	0	134	2,081	0	2,747	21	2,788
2010	342	0	297	2,599	0	3,204	34	3,238
2011	528	0	400	1,293	0	2,163	58	2,221
2012	586	10	237	1,800	0	2,633	74	2,707
2013 ^{d/}	1,683	10	505	1,269	0	3,298	169	3,467
2014 ^{d/}	634	10	NA	1,514	0	NA	52	NA
GOAL				1,200 ^{e/}				

a/ Recreational catch of age-3 and older fish.

b/ Includes fish taken for hatchery brood stock.

c/ Low water in October and early November delayed upstream migration, prompting closure of the sport fishery to Chinook retention on October 19 for the remainder of season. Tribal gillnet fishery closed weeks 44 and 45.

d/ Preliminary.

e/ Minimum. Terminal run managed for a maximum 40 percent harvest rate of inriver run size.

TABLE B-34. Estimated inriver run size, catch, and escapement for Hoh River coho in numbers of fish.

Year or Average	Terminal Catch ^{a/}			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport ^{b/}	Natural ^{c/}	Hatchery	Natural ^{c/}	Hatchery	Total
1976-1980	1,960	74	28	2,700	39	4,683	259	4,942
1981-1985	1,604	48	22	3,371	92	4,655	452	5,107
1986-1990	2,507	30	165	3,145	238	5,221	760	5,981
1991-1995	801	26	168	3,078	122	3,816	379	4,195
1996	972	50	101	4,858	0	5,835	146	5,981
1997 ^{d/}	85	25	4	1,386	0	1,449	51	1,500
1998	650	20	213	4,418	0	5,184	118	5,302
1999	1,706	25	256	4,594	0	6,293	308	6,601
2000	1,932	20	280	6,772	0	8,831	173	9,004
2001	3,909	40	786	10,773	840	14,801	1,547	16,348
2002 ^{e/}	3,114	30	401	9,009	1,922	11,254	3,222	14,476
2003	1,872	20	350	6,273	645	8,118	1,021	9,139
2004	1,255	20	437	4,702	14	6,291	137	6,428
2005	3,830	30	280	4,711	732	8,294	1,259	9,553
2006	1,313	30	108	1,282	0	2,267	466	2,733
2007	1,757	40	305	3,072	0	5,120	54	5,174
2008	1,788	4	204	2,461	67	4,308	220	4,528
2009	4,294	0	505	6,595	0	10,718	685	11,403
2010	2,638	0	515	8,231	0	10,549	468	11,017
2011	3,418	0	1,210	8,043	0	12,463	208	12,671
2012	1,663	10	444	4,179	0	5,774	78	5,852
2013	4,850	20	1,093	2,899	0	8,472	390	8,862
2014 ^{f/}	3,529	20	NA	6,352	0	NA	150	NA
GOAL				2,000 to 5,000				

a/ Includes dip-in fish from other river systems.

b/ Recreational catch of adults (coho over 20 inches).

c/ Natural escapement and run sizes estimates include fish taken for hatchery brood stock.

d/ Recreational fishermen were limited to Chinook only. Release of adult coho required. Tribal net fishery used large mesh to minimize coho impacts.

e/ Sport and tribal gillnet seasons reduced inseason in response to delayed upriver movement of coho caused by extreme low water conditions in October and early November. Closures were for two weeks.

f/ Preliminary.

TABLE B-35. Estimated inriver run size, catch, and escapement for Quillayute River spring/summer Chinook in numbers of fish.

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence ^{a/}	River Sport ^{b/}	Natural ^{c/}	Hatchery ^{d/}	Natural ^{c/}	Hatchery ^{d/}	Total
1976-1980	2,520	20	380	2,093	800	-	-	3,698
1981-1985	700	20	48	731	260	-	-	1,164
1986-1990	1,631	22	258	1,602	1,003	3,085	2,503	4,341
1991-1995	893	25	293	1,159	832	1,444	1,758	3,202
1996	136	50	257	1,170	226	1,388	426	1,814
1997	106	50	263	890	198	1,177	305	1,482
1998	199	50	128	1,599	247	1,829	369	2,198
1999	368	50	238	713	596	818	1,147	1,965
2000	254	50	307	989	227	1,149	678	1,827
2001	330	50	353	1,225	973	1,399	1,515	2,914
2002	419	50	367	1,002	836	1,100	1,573	2,673
2003	184	50	343	1,219	1,250	1,308	1,738	3,046
2004	217	50	341	1,093	763	1,259	1,195	2,454
2005	332	3	479	876	801	1,033	1,467	2,500
2006	688	0	318	553	1,032	604	1,987	2,591
2007	800	0	180	502	1,007	568	1,921	2,489
2008	993	40	223	949	796	1,081	1,920	3,001
2009 ^{e/}	483	30	192	555	722	682	1,300	1,982
2010 ^{f/}	567	0	233	772	880	941	1,554	2,495
2011 ^{f/}	599	41	655	569	696	823	1,755	2,578
2012 ^{e/f/}	880	20	639	729	437	841	1,880	2,721
2013 ^{e/f/}	1,204	0	794	957	528	1,148	2,371	3,519
2014 ^{e/f/}	740	0	NA	547	342	802	1,551	2,353
GOAL				1,200 ^{g/}				

a/ Beginning in 2005, ceremonial and subsistence catch taken during scheduled gillnet fishery is reported as gillnet catch. Catch during designated ceremonial and subsistence fisheries is listed separately.

b/ Recreational catch of adults; mark selective for adipose fin clipped coho beginning in 2003.

c/ Natural escapement includes hatchery strays and broodstock fish.

d/ Hatchery escapement and terminal run size exclude hatchery strays.

e/ Preliminary.

f/ Terminal run size estimates incomplete because inriver sport catch estimates were unavailable.

g/ FMP goal is adults; WDFW goal of 1,200 includes age-3 males (jacks).

TABLE B-36. Estimated inriver run size, catch, and escapement for Quillayute River fall Chinook in numbers of fish.

Year or Average	Terminal Catch			Escapement		Terminal Run Size		Total
	Gillnet	Ceremonial & Subsistence ^{a/}	River Sport ^{b/}	Natural ^{c/}	Hatchery ^{d/}	Natural ^{c/}	Hatchery ^{d/}	
1976-1980	2,640	20	220	4,220	144	6,540	640	7,180
1981-1985	2,075	50	131	6,282	77	8,219	305	8,525
1986-1990	5,475	50	564	12,238	112	18,004	379	18,383
1991-1995	713	50	289	5,670	11	6,705	29	6,733
1996	1,377	100	500	7,316	0	9,293	0	9,293
1997	282	50	310	5,405	0	6,047	0	6,047
1998	762	100	326	6,752	0	7,940	0	7,940
1999	1,129	100	195	3,334	0	4,758	0	4,758
2000	604	100	360	3,730	0	4,794	0	4,794
2001	1,650	100	659	5,136	0	7,545	0	7,545
2002	3,074	100	271	6,067	0	9,512	0	9,512
2003	1,345	100	626	7,398	0	9,469	23	9,492
2004	527	100	681	3,831	0	6,133	12	6,145
2005	1,414	0	499	6,406	0	8,319	32	8,351
2006	1,969	0	35	5,642	0	7,656	15	7,671
2007	905	0	166	3,066	0	4,137	0	4,137
2008	1,426	0	217	3,612	0	5,250	5	5,255
2009	2,434	0	352	3,130	0	5,874	42	5,916
2010	1,815	0	553	4,635	0	6,985	18	7,003
2011	1,972	3	868	3,963	0	6,765	41	6,806
2012 ^e	2,842	0	365	3,518	0	6,689	36	6,725
2013 ^{e/}	2,001	0	1,197	4,017	0	7,166	49	7,215
2014 ^{e/f/}	4,213	0	NA	2,766	0	7,698	91	7,789
GOAL				3,000 ^{g/}				

a/ Beginning in 2005, ceremonial and subsistence catch taken during scheduled gillnet fishery is reported as gillnet catch.

b/ River recreational catch of age-3 and older fish.

c/ Includes fish taken for hatchery brood stock and hatchery strays.

d/ Hatchery escapement and terminal run size exclude hatchery strays.

e/ Preliminary.

f/ Terminal run size estimates incomplete since inriver sport catch estimates were unavailable.

g/ Minimum. Terminal run managed at 40 percent harvest rate.

TABLE B-37. Estimated inriver run size, catch, and escapement for Quillayute River coho stocks in numbers of fish. (Page 1 of 2)

Year or Average	Terminal Catch ^{a/}			Escapement		Terminal Run Size			
	Gillnet	Ceremonial & Subsistence ^{b/}	River Sport ^{c/}	Natural ^{d/}	Hatchery ^{e/}	Natural ^{d/}	Hatchery ^{e/}	Total	
SUMMER COHO									
1976-1980	5,038	56	266	1,192	4,565	1,962	9,154	11,116	
1981-1985	4,062	50	105	946	2,744	2,106	5,802	7,908	
1986-1990	3,204	50	94	723	4,001	1,643	6,430	8,072	
1991-1995	1,286	50	191	784	6,501	989	7,823	8,812	
1996	2,552	50	189	465	3,400	801	5,855	6,656	
1997	70	50	14	753	1,509	798	1,598	2,396	
1998	1,310	50	93	346	1,688	593	2,894	3,487	
1999	945	50	292	624	7,527	723	8,715	9,438	
2000	1,188	50	278	1,001	3,745	1,237	5,025	6,262	
2001	2,196	50	590	961	12,993	1,841	14,949	16,790	
2002	3,982	50	150	1,012	3,939	2,099	7,034	9,133	
2003	2,412	50	326	505	6,539	1,472	8,360	9,832	
2004	1,337	50	343	1,269	6,527	1,874	7,652	9,526	
2005	10,273	0	487	1,218	7,182	2,197	16,963	19,160	
2006	2,146	0	141	621	1,832	1,549	3,191	4,740	
2007	645	0	200	805	4,778	1,029	5,399	6,428	
2008	1,313	0	198	706	6,419	971	7,665	8,636	
2009	3,227	0	233	1,337	8,085	2,210	10,672	12,882	
2010	890	0	58	273	1,644	564	2,304	2,868	
2011	757	0	220	1,654	3,800	2,069	4,362	6,431	
2012 ^{f/}	430	0	251	672	1,588	789	2,152	2,941	
2013 ^{f/}	1,028	0	136	451	2,504	863	3,272	4,135	
2014 ^{f/g/}	4,281	0	NA	688	5,085	1,976	8,281	10,257	
GOAL				Hatchery Production					

TABLE B-37. Estimated inriver run size, catch, and escapement for Quillayute River coho stocks in numbers of fish. (Page 2 of 2)

Year or Average	Terminal Catch ^{a/}			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence ^{b/}	River Sport ^{c/}	Natural ^{d/}	Hatchery ^{e/}	Natural ^{d/}	Hatchery ^{e/}	Total
FALL COHO								
1976-1980	5,985	53	70	9,002	2,435	13,959	3,587	17,546
1981-1985	3,789	49	164	7,464	2,102	10,988	2,580	13,568
1986-1990	5,794	100	385	8,766	1,771	14,119	2,695	16,815
1991-1995	3,598	100	565	7,357	4,736	9,930	6,426	16,356
1996	8,419	100	1,336	11,009	11,515	14,596	17,783	32,379
1997	456	50	38 ^{h/}	4,623	2,645	5,021	2,791	7,812
1998	4,606	50	1,340	13,866	12,834	16,980	15,716	32,696
1999	22,946	50	1,054	9,365	13,528	19,524	27,515	47,039
2000	5,606	50	1,059	13,343	13,118	17,706	15,470	33,176
2001	23,991	50	2,620	18,876	23,892	36,714	32,715	69,429
2002	22,214	50	2,002	23,016	30,656	34,695	43,243	77,938
2003	13,949	50	2,533	14,756	13,799	25,188	19,899	45,087
2004	19,321	50	2,831	13,354	21,248	25,118	31,687	56,805
2005	29,530	0	3,420	11,501	24,137	22,125	46,463	68,588
2006	9,779	0	291	5,210	4,450	12,266	7,464	19,730
2007	10,152	0	826	6,252	5,423	10,942	11,711	22,653
2008	15,722	10	511	6,947	12,098	12,979	22,309	35,288
2009	37,112	0	4,620	7,863	23,373	24,653	48,315	72,968
2010	27,127	10	3,537	9,837	23,325	23,901	39,935	63,836
2011	21,983	11	3,955	8,070	22,487	20,887	35,634	56,521
2012 ^{f/}	11,051	1	1,317	5,846	2,276	15,421	5,070	20,490
2013 ^{f/}	12,611	0	4,565	7,063	5,111	18,220	11,139	29,359
2014 ^{f/g/}	27,427	0	NA	10,356	12,389	15,145	27,950	43,095
GOAL				6,300-15,800				

a/ Includes dip-in fish from other systems.

b/ Beginning in 2005, ceremonial and subsistence catch taken during scheduled gillnet fishery is reported as gillnet catch. Catch during designated ceremonial and subsistence fisheries is listed separately.

c/ Recreational catch of adults (coho over 20 inches).

d/ Natural escapement and run size estimates include fish taken for hatchery brood stock.

e/ Hatchery escapement and terminal run size exclude hatchery strays.

f/ Preliminary.

g/ Terminal run size estimates incomplete since inriver sport catch estimates were unavailable.

h/ Regulations required nonretention of coho.

TABLE B-38. Estimated inriver run size, catch, and escapement for Hoko River summer/fall Chinook in numbers of fish.

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}	Natural ^{b/}	Supplemental	Natural ^{b/}	Supplemental	Total
1991-1995	-	-	5	362	432	362	432	795
1996	-	-	4	435	830	435	830	1,265
1997	-	-	8	365	529	365	529	894
1998	-	-	-	705	1,017	705	1,017	1,722
1999	-	-	-	734	954	734	954	1,688
2000	-	-	-	294	437	294	437	731
2001	-	-	-	496	450	496	450	946
2002	-	-	-	192	488	192	488	680
2003	-	-	-	402	696	402	696	1,098
2004	-	-	-	266	820	266	820	1,086
2005	-	-	-	72	212	72	212	284
2006	-	-	-	172	723	172	723	895
2007	-	-	-	251	317	251	317	568
2008	-	-	-	106	377	106	377	483
2009	-	-	-	38	347	38	347	385
2010	-	-	-	322	471	322	471	793
2011	-	-	-	1,081	423	1,081	423	1,504
2012 ^{c/}	-	-	-	663	423	663	423	1,086
2013 ^{c/}	-	-	-	680	726	680	726	1,406
2014 ^{c/}	-	-	-	1,592	226	1,592	226	1,818
GOAL				850 ^{d/}	200 ^{e/}			

a/ River recreational catch of age-3 and older fish.

b/ Includes fish taken for hatchery brood stock and hatchery strays.

c/ Preliminary.

d/ Goal in terms of naturally spawning fish and includes supplementation production

e/ Not an FMP goal.

TABLE B-39. Puget Sound commercial net and troll fishery salmon catches in numbers of fish.^{a/} (Page 1 of 2)

Year or Average	Fishery	Chinook	Coho	Pink ^{b/}	Chum	Sockeye
1971-1975	Non-Indian	105,332	525,867	1,172,614	331,029	2,158,784
	Treaty Indian	57,672	224,743	61,818	78,266	38,225
	Total	163,005	750,610	1,234,433	409,295	2,197,009
1976-1980	Non-Indian	103,546	413,583	1,050,560	407,859	1,095,603
	Treaty Indian	135,592	492,549	185,831	296,057	277,771
	Total	239,138	906,132	1,236,391	703,916	1,373,374
1981-1985	Non-Indian	72,934	346,125	1,154,851	368,762	928,477
	Treaty Indian	155,966	608,241	829,340	387,951	912,408
	Total	228,899	954,366	1,984,191	756,713	1,840,885
1986-1990	Non-Indian	57,550	470,494	509,445	540,843	964,690
	Treaty Indian	176,966	812,712	590,138	662,215	1,028,361
	Total	234,516	1,283,206	1,099,583	1,203,058	1,993,051
1991-1995	Non-Indian	17,519	74,371	784,067	523,396	735,834
	Treaty Indian	82,513	316,784	832,948	607,028	741,058
	Total	100,033	391,155	1,617,015	1,130,424	1,476,892
1996-2000	Non-Indian	12,870	15,204	174,163	307,799	240,088
	Treaty Indian	64,442	184,866	211,946	210,140	321,849
	Total	77,311	200,071	386,109	517,939	561,937
2001	Non-Indian	18,029	28,299	463,083	824,328	85,112
	Treaty Indian	109,865	366,011	319,553	777,019	170,309
	Total	127,894	394,310	782,636	1,601,347	255,421
2002 ^{c/}	Non-Indian	17,628	24,459	7	1,117,666	141,456
	Treaty Indian	88,513	279,801	323	741,932	334,824
	Total	115,879	310,959	334	1,951,163	481,229
2003 ^{c/}	Non-Indian	8,567	18,105	683,393	764,132	90,618
	Treaty Indian	82,152	235,919	544,477	695,663	180,576
	Total	93,247	262,196	1,240,336	1,578,344	274,288
2004 ^{c/}	Non-Indian	5,042	39,481	4	1,174,295	81,031
	Treaty Indian	96,261	533,188	698	1,057,299	140,074
	Total	101,303	572,669	702	2,231,594	221,105

TABLE B-39. Puget Sound commercial net and troll fishery salmon catches in numbers of fish.^{a/} (Page 2 of 2)

Year or Average	Fishery	Chinook	Coho	Pink ^{b/}	Chum	Sockeye
2005 ^{c/}	Non-Indian	6,236	19,694	144,567	383,127	65,931
	Treaty Indian	93,776	287,037	206,435	354,831	144,445
	Total	100,012	306,731	351,002	737,958	210,376
2006 ^{c/}	Non-Indian	13,300	9,827	6	877,791	223,908
	Treaty Indian	104,956	259,779	411	790,603	548,661
	Total	118,256	269,606	417	1,668,394	772,569
2007 ^{c/}	Non-Indian	6,785	13,435	200,687	680,385	6,266
	Treaty Indian	120,252	209,137	301,847	782,804	6,327
	Total	127,037	222,572	502,534	1,463,189	12,593
2008 ^{c/}	Non-Indian	6,103	6,464	14	449,348	16,319
	Treaty Indian	103,181	227,273	744	575,947	44,865
	Total	109,284	233,737	758	1,025,295	61,184
2009 ^{c/}	Non-Indian	2,753	20,091	2,789,870	294,841	1,605
	Treaty Indian	86,786	259,528	1,948,562	354,963	2,949
	Total	89,539	279,619	4,738,432	649,804	4,554
2010 ^{c/}	Non-Indian	7,922	18,220	309	416,252	749,668
	Treaty Indian	87,510	153,683	1,759	545,795	1,222,590
	Total	95,432	171,903	2,068	962,047	1,972,258
2011 ^{c/}	Non-Indian	10,097	28,821	2,266,672	463,116	86,908
	Treaty Indian	100,798	223,800	2,264,446	600,149	198,299
	Total	110,895	252,621	4,531,118	1,063,265	285,207
2012 ^{c/}	Non-Indian	9,053	35,628	417	576,660	41,048
	Treaty Indian	113,691	355,839	1,233	577,610	89,865
	Total	122,744	391,467	1,650	1,154,270	130,913
2013 ^{c/}	Non-Indian	9,189	29,577	3,193,644	909,250	6,999
	Treaty Indian	104,682	299,493	2,716,183	817,755	31,074
	Total	113,871	329,070	5,909,827	1,727,005	38,073
2014 ^{c/}	Non-Indian	4,463	11,790	17	545,756	234,193
	Treaty Indian	58,107	189,599	684	573,893	490,973
	Total	62,570	201,389	701	1,119,649	725,166

a/ Data does not reflect treaty Indian allocations. Includes U.S. and Canadian-origin salmon and fish caught in test fisheries.

b/ Odd-year averages for pink salmon.

c/ Preliminary.

TABLE B-40. Summary of Puget Sound marine recreational salmon catch estimates in numbers of fish from catch record cards.^{a/}

Year or Average	Chinook	Coho	Pink ^{b/}
1971-1975	225,650	119,301	14,855
1976-1980	253,763	202,983	47,029
1981-1985	156,183	196,632	14,910
1986-1990	127,860	251,087	40,884
1991-1995	77,310	137,637	71,030
1996	72,069	85,139	50
1997	60,425	137,571	35,197
1998	26,114	89,520	201
1999	28,739	22,055	23,780
2000	23,679	74,934	17
2001	44,422	193,454	117,367
2002	30,743	66,576	31
2003	30,349	92,114	143,248
2004	26,727	83,708	138
2005	22,879	58,309	68,546
2006	28,582	26,688	19
2007	48,726	65,306	93,251
2008	32,422	21,400	4
2009	31,305	75,719	156,901
2010	28,306	20,290	27
2011 ^{c/}	27,507	56,775	142,781
2012 ^{c/}	41,632	169,509	5
2013 ^{c/}	41,681	117,622	134,539
2014 ^{c/}	NA	NA	NA

a/ WDFW Statistical Areas 5 through 13, which include the Strait of Juan de Fuca, San Juan Islands, and inner Puget Sound. 1981-1987: Adjusted all Puget Sound and freshwater estimates by 0.833, due to previous estimates being 20% too high. 1988: Area 5, no adjustment. Areas 6-13 adjusted by 0.633, due to estimates being 58% too high. 1989-Present: Area 5, no adjustment. Areas 6-13 adjusted by 0.685, due to estimates being 46% too high. 1991, 1992, and 1993 catch record card estimates adjusted for results of 1987-1990 WDFW/tribal sports emphasis study.

b/ Odd-year averages for pink salmon.

c/ Preliminary.

TABLE B-41. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound Chinook stocks.^{a/}
(Page 1 of 3)

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery	Natural ^{b/}	Total	Hatchery	Natural ^{b/}	Total	Hatchery	Natural ^{b/}	Total
Strait of Juan de Fuca									
1981-1985	58	127	185	811	1,450	2,261	869	1,577	2,446
1986-1990	135	455	590	1,276	4,755	6,031	1,411	5,210	6,621
1991-1995	70	110	179	979	2,390	3,369	1,048	2,500	3,548
1996-2000	9	16	25	1,193	2,236	3,429	1,201	2,252	3,454
2001-2005	6	11	17	1,448	2,606	4,055	1,454	2,618	4,071
2006	8	15	22	1,234	3,145	4,379	1,242	3,160	4,401
2007	3	4	7	769	1,353	2,122	772	1,357	2,129
2008	11	22	34	683	1,182	1,865	694	1,204	1,899
2009	1	10	12	1,530	1,254	2,784	1,531	1,264	2,796
2010	10	21	31	737	1,781	2,518	747	1,802	2,549
2011 ^{d/}	6	16	22	737	2,833	3,570	743	2,849	3,592
2012 ^{d/}	8	11	19	1,158	2,095	3,253	1,166	2,107	3,272
2013 ^{d/}	7	15	22	2,040	4,756	6,796	2,047	4,771	6,818
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						5,300			
Nooksack-Samish									
1981-1985	54,062	33,672	87,734	16,083	6,562	22,645	70,145	40,234	110,379
1986-1990	38,059	26,262	64,320	10,729	4,113	14,841	48,787	30,374	79,161
1991-1995	18,213	2,303	20,516	8,646	740	9,386	26,859	3,042	29,901
1996-2000	20,321	4,648	24,969	8,263	2,623	10,886	28,584	7,271	35,855
2001-2005	10,456	15,539	25,995	3,909	7,155	11,064	14,365	22,694	37,059
2006	14,058	11,323	25,381	3,856	2,699	6,555	17,914	14,022	31,936
2007	8,479	9,069	17,548	4,452	4,535	8,987	12,931	13,604	26,535
2008	11,447	7,890	19,337	6,270	3,516	9,786	17,717	11,406	29,123
2009	4,113	7,238	11,351	3,494	6,054	9,548	7,607	13,292	20,899
2010	17,327	1,754	19,081	15,872	865	16,737	33,199	2,619	35,818
2011 ^{d/}	21,054	3,336	24,390	8,506	378	8,884	29,560	3,714	33,274
2012 ^{d/}	22,884	2,132	25,015	6,635	445	7,080	29,519	2,577	32,095
2013 ^{d/}	19,451	4,074	23,524	8,816	474	9,289	28,267	4,547	32,813
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				1,800					

TABLE B-41. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound Chinook stocks.^{a/} (Page 2 of 3)

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery	Natural ^{b/}	Total	Hatchery	Natural ^{b/}	Total	Hatchery	Natural ^{b/}	Total
Skagit									
1981-1985	597	9,183	9,780	787	11,109	11,896	1,384	20,292	21,676
1986-1990	251	4,039	4,290	815	12,398	13,213	1,066	16,437	17,503
1991-1995	464	1,586	2,049	2,402	6,280	8,682	2,866	7,865	10,731
1996-2000	10	463	473	316	10,390	10,705	326	10,852	11,179
2001-2005	12	806	818	221	17,503	17,725	233	18,310	18,543
2006	30	1,695	1,725	368	20,768	21,136	398	22,463	22,861
2007	54	1,657	1,712	370	11,281	11,651	424	12,938	13,363
2008	47	3,309	3,355	164	11,664	11,828	211	14,973	15,183
2009	57	5,142	5,199	77	6,979	7,056	134	12,121	12,255
2010	15	1,678	1,693	70	8,017	8,087	85	9,695	9,780
2011 ^{d/}	44	3,668	3,712	67	5,537	5,604	111	9,205	9,316
2012 ^{d/}	12	1,940	1,952	82	13,817	13,899	94	15,757	15,851
2013 ^{d/}	14	2,069	2,083	73	10,882	10,955	87	12,951	13,038
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					14,900				
Hood Canal									
1981-1985	4,925	3,665	8,590	3,786	2,038	5,823	8,710	5,703	14,413
1986-1990	10,589	4,994	15,583	6,188	2,006	8,194	16,777	7,000	23,777
1991-1995	1,839	1,038	2,877	3,945	1,409	5,354	5,784	2,447	8,231
1996-2000	3,629	80	3,708	11,001	1,577	12,578	14,630	1,656	16,286
2001-2005	17,422	592	18,015	15,116	2,535	17,652	32,539	3,128	35,667
2006 ^{d/}	21,860	690	22,550	15,749	1,553	17,302	37,609	2,243	39,852
2007 ^{d/}	15,254	386	15,639	16,231	663	16,894	31,485	1,049	32,533
2008 ^{d/}	16,092	707	16,799	14,813	1,439	16,252	30,905	2,146	33,051
2009 ^{d/}	20,493	688	21,180	15,281	1,341	16,622	35,774	2,029	37,802
2010 ^{d/}	21,419	1,096	22,514	13,956	1,341	15,297	35,375	2,437	37,811
2011 ^{d/}	34,687	1,365	36,052	15,499	1,652	17,151	50,186	3,017	53,203
2012 ^{d/}	58,321	1,753	60,075	28,256	2,000	30,256	86,577	3,753	90,331
2013 ^{d/}	44,321	1,011	45,331	23,841	2,516	26,357	68,162	3,527	71,688
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				3,400					

TABLE B-41. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound Chinook stocks.^{a/} (Page 3 of 3)

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery	Natural ^{b/}	Total	Hatchery	Natural ^{b/}	Total	Hatchery	Natural ^{b/}	Total
Stillaguamish-Snohomish^{e/}									
1981-1985	3,253	7,497	10,750	1,990	4,901	6,891	5,244	12,397	17,641
1986-1990	3,840	3,698	7,538	1,148	5,210	6,358	4,988	8,908	13,897
1991-1995	4,277	1,359	5,636	2,253	4,371	6,624	6,530	5,731	12,260
1996-2000	5,924	4,281	10,204	5,543	6,813	12,357	11,467	11,094	22,561
2001-2005	2,945	3,974	6,919	3,757	8,463	12,220	6,702	12,437	19,139
2006	5,304	576	5,880	4,017	9,562	13,579	9,321	10,138	19,459
2007	5,752	284	6,036	6,222	4,769	10,991	11,974	5,053	17,027
2008	3,577	157	3,734	5,720	10,155	15,875	9,297	10,312	19,609
2009	1,245	73	1,318	2,422	3,323	5,745	3,667	3,396	7,063
2010	2,774	167	2,941	3,281	5,168	8,449	6,055	5,335	11,390
2011 ^{d/}	4,157	199	4,356	3,665	3,040	6,705	7,822	3,239	11,061
2012 ^{d/}	403	48	450	6,353	5,458	11,811	6,756	5,506	12,261
2013 ^{d/}	901	851	1,752	5,253	4,778	10,031	6,154	5,629	11,783
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						7,300			
South Puget Sound									
1981-1985	23,472	8,740	32,213	23,341	6,371	29,712	46,813	15,111	61,925
1986-1990	30,029	22,654	52,684	36,997	18,108	55,106	67,027	40,762	107,789
1991-1995	21,860	13,438	35,298	30,556	14,488	45,044	52,416	27,926	80,342
1996-2000	15,271	10,535	25,805	36,157	23,280	59,437	51,428	33,815	85,243
2001-2005	23,522	13,889	37,411	46,563	23,647	70,209	70,085	37,536	107,621
2006	41,379	16,112	57,491	63,541	22,691	86,232	104,920	38,803	143,723
2007	64,809	13,785	78,594	75,549	16,275	91,824	140,358	30,060	170,418
2008	45,104	20,327	65,431	47,042	15,661	62,703	92,146	35,989	128,134
2009	33,327	6,150	39,478	38,486	7,671	46,157	71,813	13,821	85,634
2010	29,094	6,519	35,613	50,157	9,290	59,447	79,251	15,809	95,060
2011 ^{d/}	26,188	11,413	37,601	40,935	9,178	50,113	67,123	20,591	87,714
2012 ^{d/}	22,168	5,838	28,006	39,753	17,165	56,918	61,921	23,003	84,924
2013 ^{d/}	25,116	11,261	36,376	50,428	10,932	61,360	75,544	22,193	97,736
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						34,900			

a/ Includes treaty Indian and non-Indian net commercial catches during the adult accounting period. Source: Puget Sound run reconstruction model.

b/ Includes estimated off-station returns.

c/ Puget Sound run size is defined as the run available to Puget Sound net fisheries; spawning escapement plus Puget Sound net fishery catch. Does not include fish caught by troll and recreational fisheries inside Puget Sound.

d/ Preliminary.

e/ Since 1999, numbers include Tulalip hatchery returns, which are not added into escapement since no broodstock is taken at the hatchery.

TABLE B-42. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound coho stocks.^{a/} (Page 1 of 4)

Year or Average	Commercial Net Catches ^{c/}			Spawning Escapement			Terminal Run Size ^{c/}		
	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total
Strait of Juan de Fuca									
1981-1985	15,822	2,907	18,729	9,300	5,960	15,260	25,122	8,867	33,989
1986-1990	5,956	2,301	8,258	2,913	6,920	9,833	8,869	9,221	18,091
1991-1995	1,872	286	2,158	4,316	4,810	9,126	6,188	5,096	11,284
1996-2000	4,117	811	4,928	10,276	12,951	23,227	15,355	13,999	29,354
2001	10,694	2,727	13,421	24,768	35,274	60,042	41,381	39,552	80,933
2002	7,680	1,882	9,562	10,398	22,375	32,773	19,894	24,663	44,557
2003	2,908	1,100	4,008	15,004	20,992	35,996	18,742	22,311	41,053
2004	3,612	862	4,474	5,461	20,986	26,447	9,956	22,194	32,150
2005	3,295	762	4,057	4,123	11,102	15,225	8,195	12,052	20,247
2006	845	220	1,065	596	3,940	4,536	1,665	4,224	5,889
2007	2,589	887	3,476	2,026	8,045	10,071	5,148	9,099	14,247
2008	663	169	832	692	3,339	4,031	1,373	3,511	4,884
2009	6,876	0	6,876	12,973	14,957	27,930	20,786	14,957	35,743
2010	2,521	75	2,596	4,286	19,282	23,568	6,583	20,037	26,620
2011	4,544	17,068	21,612	7,293	14,752	22,045	15,690	65,685	81,375
2012 ^{d/}	4,152	1,197	5,349	5,554	14,951	20,505	10,407	16,369	26,776
2013 ^{d/}	1,599	503	2,102	4,359	7,301	11,660	7,049	8,104	15,153
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL	7,000-11,000								
Nooksack-Samish									
1981-1985	122,433	17,539	139,972	27,720	7,700	35,420	150,153	25,239	175,392
1986-1990	140,733	21,839	162,572	23,087	8,020	31,107	163,821	29,859	193,680
1991-1995	48,056	13,878	61,934	19,793	10,835	30,629	67,849	24,713	92,563
1996-2000	36,169	5,272	41,441	36,920	7,611	44,530	75,056	13,577	88,633
2001	49,326	25,816	75,142	49,788	27,512	77,300	102,822	55,103	157,925
2002	34,705	16,746	51,451	45,161	20,313	65,474	81,534	38,996	120,530
2003	34,084	9,281	43,365	35,482	14,168	49,650	71,216	23,914	95,130
2004	70,851	18,771	89,622	27,625	11,591	39,216	99,330	30,671	130,001
2005	20,080	15,496	35,576	25,211	2,187	27,398	46,014	17,934	63,948
2006	16,932	4,846	21,778	8,533	845	9,378	25,644	5,966	31,610
2007	19,724	15,123	34,847	14,782	11,205	25,987	35,274	26,578	61,852
2008	26,260	2,858	29,118	6,067	990	7,057	32,612	4,055	36,667
2009	39,194	5,038	44,232	12,000	2,085	14,085	51,519	7,302	58,821
2010	58,127	38,714	96,841	15,384	24,582	39,966	74,396	63,570	137,966
2011	59,100	9,723	68,823	15,817	2,228	18,045	76,261	12,312	88,573
2012 ^{d/}	43,571	16,197	59,768	16,726	9,600	26,326	62,885	25,825	88,710
2013 ^{d/}	69,409	20,541	89,950	19,135	20,494	39,629	89,874	41,078	130,952
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL	17,900								

TABLE B-42. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound coho stocks.^{a/}
(Page 2 of 4)

Year or Average	Commercial Net Catches ^{c/}			Spawning Escapement			Terminal Run Size ^{c/}		
	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total
Skagit									
1981-1985	6,619	8,858	15,477	21,740	19,800	41,540	28,359	28,658	57,017
1986-1990	5,309	11,448	16,757	13,861	25,800	39,661	19,170	37,248	56,418
1991-1995	1,338	1,739	3,077	11,082	14,240	25,322	12,420	15,979	28,399
1996-2000	738	5,909	6,647	10,166	42,139	52,306	11,251	50,571	61,822
2001	1,658	17,933	19,591	16,852	87,017	103,869	20,390	115,647	136,037
2002	2,204	11,742	13,946	19,098	55,968	75,066	22,241	70,754	92,995
2003	3,803	19,034	22,837	8,587	88,712	97,299	13,098	114,384	127,482
2004	7,493	27,884	35,377	11,822	118,490	130,312	19,844	151,013	170,857
2005	3,249	16,054	19,303	12,139	34,713	46,852	16,086	53,080	69,166
2006	1,148	4,288	5,436	1,927	7,702	9,629	3,276	12,797	16,073
2007	1,833	15,098	16,931	11,536	51,972	63,508	14,276	71,159	85,435
2008	1,781	6,856	8,637	11,062	24,093	35,155	13,342	32,036	45,378
2009	1,947	7,572	9,519	11,018	60,798	71,816	13,720	72,677	86,397
2010	2,062	23,062	25,124	4,570	31,090	35,660	6,994	56,616	63,610
2011	4,544	17,068	21,612	9,869	43,042	52,911	15,690	65,685	81,375
2012 ^{d/}	2,452	17,756	20,208	10,633	97,151	107,784	13,819	122,470	136,289
2013 ^{d/}	3,274	19,199	22,473	14,830	86,974	101,804	20,555	120,552	141,107
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL	14,875-25,000								
Hood Canal									
1981-1985	36,470	21,180	57,650	19,020	23,589	42,609	55,490	44,769	100,259
1986-1990	42,838	21,862	64,699	14,711	18,328	33,039	57,549	40,190	97,738
1991-1995	13,334	673	14,007	14,792	30,048	44,840	28,126	30,721	58,847
1996-2000	5,969	6,841	12,810	23,067	55,411	78,478	30,110	62,967	93,077
2001	10,320	10,342	20,662	39,237	94,579	133,816	68,478	110,005	178,483
2002	9,759	8,382	18,141	39,330	69,296	108,626	58,795	81,031	139,826
2003	9,625	23,788	33,413	33,221	172,345	205,566	51,243	199,871	251,114
2004	19,381	67,307	86,688	27,171	146,873	174,044	55,851	219,694	275,545
2005	34,877	26,835	61,712	33,991	38,066	72,057	77,655	68,303	145,958
2006	24,542	34,126	58,668	3,883	13,665	17,548	32,106	49,718	81,824
2007	19,357	29,356	48,713	8,540	46,658	55,198	30,222	78,586	108,808
2008	27,332	12,720	40,052	8,044	11,756	19,800	38,492	25,814	64,306
2009	43,391	14,167	57,558	11,421	26,927	38,348	59,148	42,418	101,566
2010	15,441	8,003	23,444	8,627	4,697	13,324	25,048	12,908	37,956
2011	41,233	33,427	74,660	19,074	24,844	43,918	68,033	61,318	129,351
2012 ^{d/}	45,491	47,398	92,889	16,419	25,129	41,548	69,322	76,207	145,529
2013 ^{d/}	53,046	21,446	74,492	19,291	25,684	44,975	80,149	50,077	130,226
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL	10,750-14,350								

TABLE B-42. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound coho stocks.^{a/}
(Page 3 of 4)

Year or Average	Commercial Net Catches ^{c/}			Spawning Escapement			Terminal Run Size ^{c/}		
	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total
Stillaguamish									
1981-1985	0	9,492	9,492	0	13,592	13,592	0	23,572	23,572
1986-1990	0	20,495	20,495	0	15,886	15,886	0	36,983	36,983
1991-1995	27	5,132	5,159	94	15,717	15,811	124	21,231	21,355
1996-2000	18	1,286	1,303	35	16,770	16,806	62	19,273	19,335
2001	21	3,728	3,749	100	74,773	74,873	129	81,839	81,968
2002	5	2,622	2,627	60	27,305	27,365	67	30,395	30,462
2003	1	1,454	1,455	24	45,691	45,715	26	49,817	49,843
2004	14	7,391	7,405	128	65,228	65,356	145	73,861	74,006
2005	5	2,702	2,707	44	25,141	25,185	51	29,146	29,197
2006	0	2,845	2,845	0	8,549	8,549	0	11,780	11,780
2007	15	3,637	3,652	160	38,732	38,892	187	45,181	45,368
2008	1	2,243	2,244	5	12,938	12,943	6	15,346	15,352
2009	0	2,284	2,284	0	22,179	22,179	0	27,380	27,380
2010	7	568	575	71	15,172	15,243	80	16,199	16,279
2011	19	6,171	6,190	155	49,991	50,146	183	59,021	59,204
2012 ^{d/}	17	3,708	3,725	101	45,156	45,257	154	52,518	52,672
2013 ^{d/}	0	5,676	5,676	0	60,387	60,387	0	71,632	71,632
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					6,100-10,000				
Snohomish									
1981-1985	25,601	31,346	56,947	11,767	83,460	95,227	37,914	117,513	155,426
1986-1990	48,719	75,429	124,148	26,350	94,156	120,507	75,971	173,208	249,179
1991-1995	36,652	26,247	62,900	23,634	84,503	108,137	61,054	114,178	175,232
1996-2000	31,493	4,900	36,393	21,206	83,292	104,498	55,392	97,133	152,525
2001	58,354	13,409	71,763	37,222	261,550	298,772	100,574	294,379	394,953
2002	49,482	15,733	65,215	11,798	161,441	173,239	64,069	185,092	249,161
2003	1,996	5,836	7,832	14,901	182,599	197,500	18,311	199,906	218,217
2004	52,032	29,168	81,200	13,856	252,767	266,623	66,966	291,458	358,424
2005	21,867	11,856	33,723	13,583	109,020	122,603	36,676	127,890	164,566
2006	4,898	24,081	28,979	6,136	75,630	81,766	11,224	102,050	113,274
2007	15,248	10,984	26,232	7,126	117,736	124,862	23,207	136,680	159,887
2008	31,224	6,521	37,745	3,329	36,015	39,344	34,744	44,603	79,347
2009	19,495	8,855	28,350	11,472	98,945	110,417	33,161	115,650	148,811
2010	1,402	327	1,729	3,030	49,100	52,130	3,493	52,383	55,876
2011	5,300	9,923	15,223	7,747	111,374	119,121	13,743	131,275	145,018
2012 ^{d/}	43,106	9,059	52,165	10,441	130,637	141,078	56,904	153,123	210,027
2013 ^{d/}	37,647	10,737	48,384	10,471	115,847	126,318	49,860	147,780	197,640
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					31,000-50,000				

TABLE B-42. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound coho stocks.^{a/}
(Page 4 of 4)

Year or Average	Commercial Net Catches ^{c/}			Spawning Escapement			Terminal Run Size ^{c/}		
	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total
South Puget Sound									
1981-1985	328,516	141,229	469,745	76,560	38,510	115,070	405,076	179,738	584,815
1986-1990	509,525	211,476	721,001	69,198	28,882	98,080	578,723	240,358	819,081
1991-1995	137,961	56,462	194,423	97,002	23,945	120,947	234,963	80,407	315,370
1996-2000	57,648	29,324	86,972	73,685	28,337	102,022	140,763	62,893	203,656
2001	110,328	60,548	170,876	127,179	37,688	164,867	261,942	107,969	369,911
2002	96,471	34,214	130,685	115,145	18,296	133,441	223,889	55,536	279,425
2003	95,300	32,510	127,810	94,890	51,654	146,544	210,062	94,350	304,412
2004	172,372	48,095	220,467	133,614	43,147	176,761	317,083	98,809	415,892
2005	109,652	32,146	141,798	83,761	33,620	117,381	206,249	72,449	278,698
2006	114,496	29,436	143,932	47,625	21,449	69,074	166,886	55,795	222,681
2007	61,483	24,192	85,675	55,407	31,224	86,631	126,413	63,775	190,188
2008	98,520	13,830	112,350	52,340	17,797	70,137	156,906	35,642	192,548
2009	82,117	23,638	105,755	53,969	25,997	79,966	156,534	65,754	222,288
2010	17,443	7,293	24,736	20,309	10,366	30,675	40,725	19,898	60,623
2011	6,357	10,698	17,055	50,190	34,944	85,134	87,897	64,552	152,449
2012 ^{d/}	96,887	37,766	134,653	93,097	38,803	131,900	217,090	92,834	309,924
2013 ^{d/}	85,657	37,558	123,215	60,178	29,921	90,099	145,836	67,484	213,320
2014 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				52,000					

a/ Includes treaty Indian and non-Indian net commercial catches during the adult accounting period. Source: Puget Sound run reconstruction model.

b/ Includes estimated off-station returns.

c/ Terminal run size is defined as the run to terminal marine areas; spawning escapement plus sport and commercial net catch (inriver and terminal fishery catch). Prior to 1996, estimates are Puget Sound run size, which is defined as the run available to Puget Sound net fisheries; spawning escapement plus commercial net catch (inriver, terminal, and pre-terminal Puget Sound net fishery catch), but not including fish caught in Puget Sound troll and recreational fisheries.

d/ Preliminary.

TABLE B-43. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks.^{a/} (Page 1 of 4)

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total
Strait of Juan de Fuca									
1981	0	295	295	0	3,100	3,100	0	3,395	3,395
1983	0	144	144	0	5,088	5,088	0	5,232	5,232
1985	0	58	58	0	4,830	4,830	0	4,888	4,888
1987	3	158	161	47	1,956	2,003	50	2,114	2,164
1989	0	1,053	1,053	0	10,903	10,903	0	11,956	11,956
1991	0	1,129	1,129	0	9,896	9,896	0	11,025	11,025
1993	0	91	91	0	1,696	1,696	0	1,787	1,787
1995	4	262	266	100	8,254	8,354	104	8,516	8,620
1997	8	538	546	71	4,953	5,024	79	5,491	5,570
1999	0	6	6	0	7,306	7,306	0	7,312	7,312
2001	3	578	581	469	80,949	81,418	472	81,527	81,999
2003	0	282	282	0	15,148	15,148	0	15,430	15,430
2005 ^{d/}	0	241	241	0	8,688	8,688	0	8,929	8,929
2007 ^{d/}	0	147	147	0	6,251	6,251	0	6,398	6,398
2009 ^{d/}	0	2,711	2,711	0	41,533	41,533	0	44,244	44,244
2011 ^{d/}	0	2,041	2,041	0	27,615	27,615	0	29,656	29,656
2013 ^{d/}	8	21,377	21,385	157	409,458	409,615	165	430,835	431,000
GOAL ^{e/}	Not Agreed Upon								
Nooksack-Samish									
1981	0	21,659	21,659	0	26,814	26,814	0	48,473	48,473
1983	0	13,321	13,321	0	66,966	66,966	0	80,287	80,287
1985	0	6,204	6,204	0	24,914	24,914	0	31,118	31,118
1987	0	5,069	5,069	0	32,685	32,685	0	37,754	37,754
1989	237	24,727	24,964	1,200	126,006	127,206	1,437	150,733	152,170
1991	0	21,852	21,852	0	21,304	21,304	0	43,156	43,156
1993	0	4,323	4,323	0	51,680	51,680	0	56,003	56,003
1995	0	13,532	13,532	0	207,112	207,112	0	220,644	220,644
1997	0	4,152	4,152	0	26,000	26,000	0	30,152	30,152
1999	0	2,478	2,478	0	95,000	95,000	0	97,478	97,478
2001	215	13,735	13,950	3,714	226,000	229,714	3,929	239,735	243,664
2003	338	2,400	2,738	7,264	51,011	58,275	7,602	53,411	61,013
2005 ^{d/}	259	1,975	2,234	1,791	13,627	15,418	2,050	15,602	17,652
2007 ^{d/}	17	1,124	1,141	276	18,992	19,268	293	20,116	20,409
2009 ^{d/}	283	6,283	6,566	2,096	46,603	48,699	2,379	52,886	55,265
2011 ^{d/}	61	11,459	11,520	285	53,852	54,137	346	65,311	65,657
2013 ^{d/}	0	100,455	100,455	0	224,000	224,000	0	324,455	324,455
GOAL ^{e/}	50,000								

TABLE B-43. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks.^{a/}
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Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total
Skagit									
1981	403	150,626	151,029	268	100,268	100,536	671	250,894	251,565
1983	4	19,023	19,027	128	470,128	470,256	132	489,151	489,283
1985	9	229,993	230,002	30	710,030	710,060	39	940,023	940,062
1987	1,090	421,176	422,266	1,535	593,535	595,070	2,625	1,014,711	1,017,336
1989	8	661,061	661,069	5	401,300	401,305	13	1,062,361	1,062,374
1991	0	188,927	188,927	0	351,000	351,000	0	539,927	539,927
1993	0	180,088	180,088	0	530,000	530,000	0	710,088	710,088
1995	0	568,561	568,561	0	857,000	857,000	0	1,425,561	1,425,561
1997	0	57,710	57,710	0	60,000	60,000	0	117,710	117,710
1999	0	32,626	32,626	0	320,000	320,000	0	352,626	352,626
2001	0	206,533	206,533	0	894,061	894,061	0	1,100,594	1,100,594
2003	0	232,732	232,732	0	567,080	567,080	0	799,812	799,812
2005 ^{d/}	0	20,147	20,147	0	60,000	60,000	0	80,147	80,147
2007 ^{d/}	0	13,154	13,154	0	300,000	300,000	0	313,154	313,154
2009 ^{d/}	0	396,928	396,928	0	1,160,000	1,160,000	0	1,556,928	1,556,928
2011 ^{d/}	0	83,996	83,996	0	1,222,431	1,222,431	0	1,306,427	1,306,427
2013 ^{d/}	0	378,550	378,550	0	560,000	560,000	0	938,550	938,550
GOAL ^{e/}					330,000				
Hood Canal									
1981	380	1,241	1,621	1,557	6,551	8,108	1,937	7,792	9,729
1983	50	831	881	503	25,201	25,704	553	26,032	26,585
1985	138	2,854	2,992	1,456	64,101	65,557	1,594	66,955	68,549
1987	1,855	6,942	8,797	8,056	62,220	70,276	9,911	69,162	79,073
1989	7,799	26,946	34,745	2,500	60,970	63,470	10,299	87,916	98,215
1991	409	13,518	13,927	3,300	118,450	121,750	3,709	131,968	135,677
1993	623	1,917	2,540	11,497	35,647	47,144	12,120	37,564	49,684
1995	1,565	994	2,559	24,665	31,306	55,971	26,230	32,300	58,530
1997	2,436	910	3,346	21,493	8,363	29,856	23,929	9,273	33,202
1999	18	10	28	7,617	12,667	20,284	7,635	12,677	20,312
2001	713	703	1,416	71,539	98,338	169,877	72,252	99,041	171,293
2003	464	691	1,155	25,217	37,531	62,748	25,681	38,222	63,903
2005 ^{d/}	98	121	219	14,116	17,481	31,597	14,214	17,602	31,816
2007 ^{d/}	101	677	778	4,306	29,001	33,307	4,407	29,678	34,085
2009 ^{d/}	2,670	1,230	3,900	22,943	10,575	33,518	25,613	11,805	37,418
2011 ^{d/}	4,938	1,249	6,187	17,792	14,974	32,766	22,730	16,223	38,953
2013 ^{d/}	2,114	10,694	12,808	4,904	195,601	200,505	7,018	206,295	213,313
GOAL ^{e/}					Not Agreed Upon				

TABLE B-43. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks.^{a/}
(Page 3 of 4)

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total
Stillaguamish-Snohomish									
1981	40	49,480	49,520	96	108,096	108,192	136	157,576	157,712
1983	51	57,452	57,503	283	324,383	324,666	334	381,835	382,169
1985	63	175,095	175,158	192	502,192	502,384	255	677,287	677,542
1987	173	111,881	112,054	418	271,418	271,836	591	383,299	383,890
1989	33	354,805	354,838	16	150,549	150,565	49	505,354	505,403
1991	139	82,150	82,289	447	260,000	260,447	586	342,150	342,736
1993	13	21,444	21,457	135	210,000	210,135	148	231,444	231,592
1995	5	33,871	33,876	26	309,600	309,626	31	343,471	343,502
1997	0	59,173	59,173	0	192,109	192,109	0	251,282	251,282
1999	0	13,443	13,443	0	461,543	461,543	0	474,986	474,986
2001	0	100,015	100,015	0	1,847,648	1,847,648	0	1,947,663	1,947,663
2003	0	187,286	187,286	0	1,577,001	1,577,001	0	1,764,287	1,764,287
2005 ^{d/}	0	19,193	19,193	0	600,124	600,124	0	619,317	619,317
2007 ^{d/}	0	54,082	54,082	0	1,383,591	1,383,591	0	1,437,673	1,437,673
2009 ^{d/}	0	706,958	706,958	0	2,882,373	2,882,373	0	3,589,331	3,589,331
2011 ^{d/}	0	517,757	517,757	0	612,903	612,903	0	1,130,660	1,130,660
2013 ^{d/}	0	1,150,409	1,150,409	0	2,153,569	2,153,569	0	3,303,978	3,303,978
GOAL ^{e/} - Stillaguamish					155,000				
GOAL ^{e/} - Snohomish					120,000				
South Puget Sound									
1981	1,569	9,818	11,387	791	12,715	13,506	2,360	22,533	24,893
1983	492	11,265	11,757	149	12,200	12,349	641	23,465	24,106
1985	119	5,335	5,454	13	34,700	34,713	132	40,035	40,167
1987	15	9,386	9,401	3	42,200	42,203	18	51,586	51,604
1989	361	36,999	37,360	452	62,220	62,672	813	99,219	100,032
1991	357	5,037	5,394	346	15,950	16,296	703	20,987	21,690
1993 ^{f/}	3	2,330	2,333	21	10,619	10,640	24	12,949	12,973
1995 ^{f/}	13	5,163	5,176	84	18,278	18,362	97	23,441	23,538
1997 ^{f/}	0	449	449	0	2,965	2,965	0	3,414	3,414
1999 ^{f/}	0	80	80	12	4,670	4,682	12	4,750	4,762
2001 ^{f/g/}	5	735	740	48	16,173	16,221	53	16,908	16,961
2003 ^{f/g/}	1	5,393	5,394	68	185,277	185,345	69	190,670	190,739
2005 ^{d/f/g/}	0	3,964	3,964	0	466,435	466,435	0	470,399	470,399
2007 ^{d/f/g/}	0	19,162	19,162	0	615,678	615,678	0	634,840	634,840
2009 ^{d/f/g/}	0	462,782	462,782	0	4,091,283	4,091,283	0	4,554,065	4,554,065
2011 ^{d/f/g/}	0	296,388	296,388	0	2,422,575	2,422,575	0	2,718,963	2,718,963
2013 ^{d/f/g/}	0	309,752	309,752	0	2,172,795	2,172,795	0	2,482,547	2,482,547
GOAL ^{e/}					25,000				

TABLE B-43. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks.^{a/}
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a/ Includes treaty Indian and non-Indian net commercial catches during the adult accounting period. Source: Puget Sound run reconstruction model.

b/ Includes estimated off-station returns.

c/ Puget Sound run size is defined as the run available to Puget Sound net fisheries; spawning escapement plus Puget Sound net fishery catch. Does not include fish caught by troll and recreational fisheries inside Puget Sound.

d/ Preliminary.

e/ State-Tribal comanager goal; the only Council goal is for a total Puget Sound pink salmon spawning escapement of 900,000 natural spawners.

f/ Nisqually escapement estimate incomplete.

g/ Large runs of pinks have returned to Green River in 2001, 2003, 2005, 2007, 2009, and 2011; however, no formal escapement methodology exists, and Green River pinks are not included in the run reconstruction model. When the model is revised, pre-terminal catch estimates for all stocks will be affected.

TABLE B-44. Puget Sound spring Chinook spawning escapement estimates in numbers of adult fish.

Year or Average	Stock						
	Skagit		NF Nooksack		SF Nooksack	White River	Quilcene
	Hatchery ^{a/}	Natural	Hatchery ^{a/}	Natural ^{b/}	Hatchery/ Natural	Hatchery ^{c/}	Hatchery ^{d/}
1981-1985	49	1,408	0	152	317	70	149
1986-1990	161	1,826	0	235	280	408	125
1991-1995	815	907	770	266	222	1,065	19
1996	856	1,051	1,070	535	203	1,625	12
1997	1,059	1,041	1,663	617	180	1,609	16
1998	1,050	1,086	1,280	370	157	2,710	5
1999	3,172	471	3,992	823	288	1,550	4
2000	1,102	1,021	2,052	1,242	373	2,864	0
2001	1,566	1,856	5,363	2,185	420	3,398	0
2002 ^{e/}	1,663	1,065	5,649	3,741	625	1,761	0
2003 ^{e/}	1,545	844	5,046	2,857	570	2,937	0
2004 ^{e/}	3,107	1,575	3,501	1,719	170	3,088	0
2005 ^{e/}	2,258	1,246	1,569	2,047	230	3,687	0
2006 ^{e/}	1,487	1,896	732	1,184	515	4,137	0
2007 ^{e/}	1,931	613	665	1,438	323	8,200	0
2008 ^{e/}	1,462	1,470	1,194	1,266	443	3,927	0
2009 ^{e/}	900	978	812	1,903	453	2,200	0
2010 ^{e/}	1,371	1,361	1,279	2,044	548	2,193	0
2011 ^{e/}	1,301	825	1,404	865	470	3,292	0
2012 ^{e/}	1,579	2,763	1,215	758	508	4,096	0
2013 ^{e/}	1,256	1,960	2,297	1,347	243	6,597	0
2014 ^{e/}	NA	NA	1,988	NA	NA	2,481	0
GOAL		3,000					

a/ Hatchery escapement estimates include all rack returns (retained and released).

b/ Natural escapement estimates based on carcass counts expanded by a 3.48 multiplier developed from 5 years of redd count-based estimates. Most natural spawners are hatchery fish spawning in the wild.

c/ This estimate includes adult Chinook returns to Hupp Springs, White River Hatchery, and the Buckley Trap.

d/ Program has been discontinued.

e/ Preliminary.

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