

**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	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	80,056	7,359	55,480	5,241	9,885	1,819	22,298	2,205	167,719	16,624	18,280	976	18,824	4,596	7,645	2,670	44,749	8,242	212,468	24,866
2015	40,687	3,350	18,069	2,497	2,993	3,514	11,448	2,345	73,197	11,706	13,819	1,895	18,081	2,707	7,850	3,918	39,750	8,520	112,947	20,226
2016 ^{j/}	9,618	541	34,334	4,104	3,536	521	7,138	3,346	54,626	8,512	8,247	279	16,413	2,763	9,887	3,502	34,547	6,544	89,173	15,056
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 PPMC 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/d/}		Totals		Mokelumne River		Merced River		Totals		Adults	Jacks	
1971-1975	1,752	231	3,852	369	5,786	559	1,647	248	782	20	13,820	1,427	305	156	460	19	765	175	14,585	1,602	
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	1,973	1,324	1,837	1,227	150	56	611	249	401	0	4,972	2,856	4,417	4,403	229	582	4,646	4,985	9,618	7,841	
2015	3,090	1,514	4,050	2,086	42	71	860	387	180	0	8,222	4,058	5,170	3,128	556	642	5,726	3,770	13,948	7,828	
2016 ^{e/}	1,283	706	5,283	4,047	659	687	977	1,564	986	262	9,188	7,266	3,310	3,571	1,392	1,604	4,702	5,175	13,890	12,441	
GOALS ^{f/}	-	-	-	-	-	-	-	-	-	-	-	-	-	3,000 ^{g/}	-	1,000	-	4,000	-	-	-

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 some years no survey was conducted due to logistical or environmental limitations.

d/ Calculating jack proportions was not possible in some years due to sampling and/or environmental limitations. In those years jacks are included in the adult escapement values.

e/ Preliminary.

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

g/ Due to modernization of the hatchery facility and improved efficiencies, the Mokelumne Hatchery escapement goal was reduced from 5,000 to 3,000 adults in 2010.

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 ^{c/d/}				Spring				
	Adults	Jacks	RBDD ^{a/}		Carcass Survey		Tributary ^{e/}		Sacramento River ^{a/f/}		Feather River ^{g/}
Adults			Jacks	Adults	Jacks	Adults	Jacks	Adults and Jacks ^{h/}	Adults	Jacks	Adults
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 ^{i/}	981	0 ^{h/}	4,052	83
2002	39,818	765	7,614	1,555	7,047	417	20,198 ^{i/}	430	53	3,982	207
2003	8,122	613	6,172	3,585	7,675	543	21,798 ^{i/}	0	0	8,373	389
2004	12,458	1,574	2,588	4,604	5,786	2,083	12,556 ^{i/}	763	326	3,630	572
2005	14,047	2,141	3,521	1,778	14,684	1,155	21,319 ^{i/}	21	9	1,811 ^{k/}	24 ^{k/}
2006	14,709	351	4,792	2,623	16,911	379	10,669 ^{i/}	0	0	2,052 ^{k/}	9 ^{k/}
2007	11,954	714	3,004	3,140	2,402	139	8,951 ^{i/}	226	22	2,669 ^{k/}	5 ^{k/}
2008	9,946	381	1,504	2,131	2,623	207	11,943 ^{i/}	0	0	1,056 ^{k/}	10 ^{k/}
2009	9,515	460	∕	∕	4,483	54	3,517 ^{i/}	∕	∕	867 ^{k/}	122 ^{k/}
2010	8,894	1,001	∕	∕	1,554	42	2,951 ^{i/}	∕	∕	1,655 ^{k/}	6 ^{k/}
2011	7,129	1,161	∕	∕	637	187	5,547 ^{i/}	∕	∕	1,831 ^{k/}	138 ^{k/}
2012	5,153	909	m/	m/	2,527	144	18,694 ^{i/}	m/	m/	3,510 ^{k/}	228 ^{k/}
2013	8,355	642	m/	m/	5,622 ^{n/}	462	18,507 ^{i/}	m/	m/	4,247 ^{k/}	44 ^{k/}
2014	11,359	1,367	m/	m/	2,688	327	6,895 ^{i/}	m/	m/	2,599 ^{k/}	177 ^{k/}
2015	9,118	193	m/	m/	3,382	57	1,039 ^{i/}	m/	m/	3,280 ^{k/}	51 ^{k/}
2016 ^{o/}	4,637	973	m/	m/	924	622	6,093 ^{i/}	m/	m/	1,596 ^{k/}	54 ^{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.

∕ 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	Spaw ning 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	Adults	160,396 ^{b/}	25,967	5,386	31,353	2,392	24,300	70,709	95,009	6,975	24,395	31,370	31,276	95,104	126,380
	Jacks	22,321	348	3,364	3,712	100	1,039	10,520	11,559	221	6,719	6,940	1,259	17,239	18,498
2015	Adults	77,821 ^{b/}	28,048	7,842	35,890	2,611	7,956	23,273	31,229	3,129	4,839	7,968	11,085	28,112	39,197
	Jacks	6,094	496	1,605	2,101	76	220	748	968	224	2,724	2,948	444	3,472	3,916
2016 ^{c/}	Adults	24,567 ^{b/}	5,159	1,310	6,469	485	2,436	10,363	12,799	1,142	3,561	4,703	3,578	13,924	17,502
	Jacks	2,786	160	161	321	17	151	554	705	401	1,340	1,741	552	1,894	2,446
GOAL	Adults														≥40,700 ^{d/e/}

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

b/ Total inriver run includes fish collected from the Klamath and Trinity rivers by the Yurok and Hoopa Valley tribes, respectively, to test for the presence of the parasite *Ichthyophthirius multifiliis* during the follow ing years: 2014 - 282 fish; 2015 - 124 fish; 2016 - 113 fish.

c/ Preliminary.

d/ In December 2011, Amendment 16 to the Salmon Fishery Management Plan w as approved, w hich replaced the 35,000 spaw ning escapement floor w ith an S_{MSY} management objective of 40,700 natural area adult spaw ners. The 35,000 spaw ner floor w as in effect from 1989-2007 and in 2011. In 2008-2010, fisheries w ere managed for a natural area spaw ning escapement of 40,700 adults under requirements of a rebuilding plan.

e/ Annual escapement goals may be more or less than S_{MSY} in some years due to meeting S_{ACL} requirements and de minimis fishing provisions.

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
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	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	8,665	8,818
	Middle Klamath	0	64	64	72	1,584	1,656
	Upper Klamath ^{b/}	10	658	668	68	1,719	1,787
	Trinity River	85	1,733	1,818	65	2,440	2,504
	Total	102	4,893	4,995	358	26,240	26,597
2015	Commercial:Estuary	0	0	0	0	16,899	16,899
	Middle Klamath	0	0	0	0	163	163
	Subsistence:Estuary	0	1,816	1,816	405	5,609	6,014
	Middle Klamath	0	133	133	10	642	652
	Upper Klamath ^{b/}	17	628	645	35	2,818	2,853
	Trinity River ^{c/}	15	1,087	1,102	47	2,040	2,087
	Total	32	3,664	3,696	497	28,171	28,668
2016 ^{d/}	Commercial:Estuary	0	0	0	0	0	0
	Middle Klamath	0	0	0	0	0	0
	Subsistence:Estuary	0	620	620	121	3,185	3,306
	Middle Klamath	0	265	265	7	405	412
	Upper Klamath ^{b/}	0	116	116	14	930	944
	Trinity River	15	679	694	20	750	770
	Total	15	1,680	1,695	162	5,270	5,432

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/ Harvest includes fish collected from the Upper Klamath by the Yurok Tribe to test for the presence of the parasite *Ichthyophthirius multifiliis* during the following years: 2014 - 17 spring run and 282 fall run; 2015 - 26 spring run and 104 fall run; 2016 - 113 fall run.

c/ Harvest includes 20 fall run collected from the Trinity River by the Hoopa Valley Tribe to test for the presence of the parasite *Ichthyophthirius multifiliis*.

d/ 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	14,412	3,945	10,419	2,051	2,706	527
2015	6,612	133	2,092	21	1,978	92
2016 ^{h/}	2,754	135	1,376	139	1,032	26

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,

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	2,516	80
2011-2012 ^{h/i/}	108	1	60	221	101	3,172	130
2012-2013 ^{i/}	77	1	280	29	226	6,713	217
2013-2014 ^{i/j/}	11	10	16	130	6	3,145	188
2014-2015 ^{i/}	161	5	174	24	82	1,420 ^{k/}	140
2015-2016 ^{i/}	124	4	81	31	0	4,119 ^{k/}	226
2016-2017 ^{i/}	m/	m/	m/	m/	61	1,070 ^{n/}	126

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/ 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.

l/ Preliminary.

m/ No survey due to lack of funding.

n/ Minimum count that is not comparable to other years. Monitoring at the Mirabel Dam was complicated by operational challenges associated with implementation of a new counting facility in addition to adverse environmental conditions.

Atypical sampling techniques and shortened periods of operation limited estimates of passage.

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	11	2	52	9	12	3	34	6
2015	34	1	77	7	22	2	60	5
2016 ^{b/}	5	1	42	5	28	2	34	4

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	5.6	NA	NA	NA	6.4	8.2	14.6	4.5
2015	15.3	NA	NA	NA	4.8	4.8	9.6	1.9
2016 ^{d/}	9.6	NA	NA	NA	4.3	4.4	8.7	2.6

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	-	-	-	53,546	11,901	65,447
2015	-	-	-	30,462	7,841	38,303
2016 ^{c/}	-	-	-	27,278	16,762	44,040

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	176	2	55	0	54	2	109	1	216	40	60	7	556	21	92	6	a/	a/	157	9	
2015	237	1	a/	a/	31	1	122	1	391	3	130	2	625	2	93	3	a/	a/	247	3	
2016 ^{b/}	154	2	a/	a/	24	0	162	3	159	9	39	1	224	1	19	0	a/	a/	118	2	

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	Low er River Catch ^{a/}		Tributary Runs							Hatchery Escapement ^{d/}
				Willamette			Sandy	Cow litz ^{c/}	Lew is ^{c/}	Kalama	
				Commercial	Sport	Run Size					
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	149,958	7,900	5,800	120,161	10,800	83,100	5,905	5,215	3,514	2,912	58,300
2003	163,303	1,900	8,200	123,355	13,500	87,600	5,615	15,954	5,040	4,556	50,286
2004	195,835	8,500	7,500	143,240	12,000	95,200	12,680	16,511	7,475	4,286	70,880
2005	85,947	3,400	4,400	59,471	5,800	35,453	7,668	9,379	3,512	3,367	35,865
2006	90,992	3,000	2,900	59,311	7,200	36,851	4,382	6,963	7,301	5,458	38,623
2007	69,259	1,900	2,600	39,943	5,700	22,818	2,813	3,975	7,596	8,030	27,756
2008	43,926	100	700	26,615	4,600	14,151	5,994	2,986	2,215	1,623	18,407
2009	49,710	349	2,000	35,432	4,500	25,795	2,429	5,977	1,493	404	22,496
2010	153,327	3,349	6,200	107,675	22,700	65,293	7,652	8,830	2,337	918	42,646
2011	101,941	2,349	2,500	76,549	22,800	43,748	5,721	5,834	1,311	778	31,030
2012	93,944	2,349	3,700	63,037	15,800	35,899	5,038	12,617	1,895	862	32,106
2013	69,745	1,800	1,798	44,880	7,400	27,897	5,700	9,536	1,597	1,014	26,892
2014	70,856	1,300	2,700	49,765	7,900	30,071	5,971	10,461	1,482	1,013	27,783
2015	127,737	2,649	4,266	84,532	13,552	53,088	4,000	23,931	1,006	3,149	52,237
2016 ^{e/}	86,836	1,200	2,600	47,225	6,000	30,317	4,151	22,407	468	3,980	30,853

a/ Includes some upriver origin spring Chinook through 1980. Beginning in 1981, the low er river catch of low er 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 w as 30,000 to 35,000. Beginning in 1988, the goal w as 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. Low er 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 Cow litz 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/} (Includes Snake River summer Chinook.)

Year or Avg.	Inriver Run Size	Low er River Catch ^{b/}		Bonneville Dam Count	Zone 6 Sport	Mainstem Treaty Indian Catch			Snake River Escapement ^{e/}		Rock Island Dam Count		Hatchery Escapement ^{f/}
		Commercial	Sport			Commercial ^{c/d/}	Ceremonial/ Subsistence	Hatchery	Wild	Hatchery	Wild		
1976-1980	55,960	185	0	55,775	-	1,973	1,714	2,903	6,413	2,800	2,241	2,613	
1981-1985	70,440	1,706	393	68,342	925	3,255	3,947	7,508	10,787	4,853	3,217	11,599	
1986-1990	108,167	2,378	1,356	104,433	3,366	6,011	10,269	19,648	10,192	5,928	3,042	19,384	
1991-1995	63,404	511	710	62,183	1,227	2,550	8,628	7,097	7,015	5,750	1,422	11,522	
1996	55,552	46	10	55,496	40	1,783	7,955	3,179	3,806	1,751	353	5,228	
1997	124,321	53	16	124,252	7,387	3,709	15,827	39,509	5,215	4,809	696	27,531	
1998	44,308	27	14	44,267	1,679	1,454	3,826	6,928	7,366	2,473	343	8,666	
1999	43,067	28	16	43,023	211	1,164	3,615	3,703	2,856	3,161	297	5,773	
2000	186,715	251	124	186,340	11,497	8,379	20,815	29,568	8,255	12,783	829	21,428	
2001	440,336	2,538	22,719	415,079	57,745	51,177	31,863	141,121	45,337	31,329	4,315	50,094	
2002	335,214	10,151	16,268	308,795	28,452	30,994	26,885	67,312	30,248	18,706	1,658	33,804	
2003	242,605	3,493	9,611	229,501	23,534	15,143	20,355	54,951	32,365	11,656	1,205	24,577	
2004	221,675	6,233	17,146	198,296	25,500	15,914	18,041	58,624	21,401	9,562	1,692	26,799	
2005	106,900	2,289	7,224	97,387	7,138	4,964	12,013	22,932	10,127	13,385	2,833	21,092	
2006	132,583	2,238	4,187	126,158	5,256	5,081	18,303	20,248	9,483	10,461	1,120	16,998	
2007	86,247	1,491	3,927	80,829	6,925	4,127	11,347	23,308	7,100	10,170	782	15,858	
2008	178,629	6,292	19,612	151,895	22,145	19,681	14,951	55,587	17,587	19,737	1,127	35,468	
2009	169,296	4,543	15,246	147,489	18,608	8,523	27,414	49,836	14,957	17,000	1,620	31,064	
2010	315,345	9,281	23,535	277,389	43,398	34,375	38,282	97,770	26,643	23,134	2,105	52,647	
2011	221,158	3,930	9,506	205,431	28,526	8,925	29,482	72,262	24,562	15,400	3,055	29,808	
2012	203,090	4,821	10,422	186,448	24,936	10,512	28,858	54,701	25,681	11,573	3,294	23,152	
2013	123,136	1,853	5,343	112,934	8,626	4,175	13,977	29,538	14,588	7,041	1,637	15,603	
2014	242,635	4,098	13,572	224,946	28,340	19,934	22,770	62,627	32,124	9,647	2,263	24,188	
2015	288,994	6,818	15,689	265,558	40,401	28,454	22,591	97,921	21,910	25,658	6,090	35,315	
2016 ^{g/}	187,816	3,508	10,167	172,614	24,274	9,839	24,603	58,214	15,946	17,455	1,191	25,406	
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 low er river origin spring Chinook through 1980. Beginning in 1981, the low er 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 Low er Granite relative to escapement goals. Wild escapement goal includes Snake Basin harvest below Low er Granite Dam, Low er Granite count of wild escapement, and Tucannon wild return. Hatchery escapement goal includes Low er Granite count of hatchery escapement only.

f/ Hatchery rack and trap returns above Low er 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 Low er Granite Dam, Low er Granite count of wild escapement, and Tucannon wild return. Hatchery escapement goal includes Low er Granite count of hatchery escapement only.

TABLE B-14. Estimates of inriver run size, catch, and escapement in numbers of Columbia River adult upper Columbia summer Chinook destined for areas above Bonneville Dam^{a/} (Excludes Snake River summer Chinook.)

Year or Avg.	Inriver Run Size	Lower River Catch ^{b/}		Bonneville Dam		Mainstem Treaty Indian Catch		Rock Island Dam Count	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	442
2001	52,960	1	64	52,895	0	150	542	48,844	4,380	2,346
2002	89,524	8	1,447	88,069	113	74	2,019	86,825	4,535	2,720
2003	83,058	36	1,945	81,077	415	3,587	710	81,543	5,187	2,178
2004	65,623	222	1,246	64,155	260	8,004	390	62,311	5,849	1,874
2005	60,272	2,787	1,621	55,864	423	6,415	1,227	54,033	2,192	894
2006	77,573	4,828	4,926	67,819	276	15,771	548	61,821	3,864	1,340
2007	37,035	1,122	2,214	33,699	136	4,564	811	28,222	3,900	1,070
2008	55,532	1,429	2,140	51,963	942	8,317	712	38,171	2,597	1,861
2009	53,881	2,546	2,341	48,994	175	10,441	1,209	44,295	2,458	1,190
2010	72,346	4,740	2,738	64,638	435	15,569	0 ^{e/}	47,220	2,481	3,524
2011	80,574	5,004	5,576	69,994	303	20,645	0 ^{e/}	44,432	5,546	1,208
2012	58,300	1,715	3,281	53,304	231	7,824	0 ^{e/}	52,184	3,980	3,400
2013	67,603	1,987	2,058	63,508	173	13,272	125 ^{e/}	68,380	2,899	3,452
2014	78,254	2,838	2,385	72,871	308	19,179	210 ^{e/}	77,982	2,875	3,574
2015	126,882	4,043	6,152	116,657	609	37,733	30 ^{e/}	88,691	5,000	10,694
2016 ^{f/}	91,048	3,050	3,706	84,192	361	20,415	30 ^{e/}	79,253	4,418	4,199
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/ Includes natural spawners in Wenatchee, Ential, Chelan, Methow, and Okanogan rivers. Does not include unknown numbers of natural spawners in mainstem Columbia.

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

g/ Incomplete estimates of natural spawners.

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	70,096	53,655	28,801	12,196	1,242	10,283	17,092
2012	56,947	44,076	14,223	7,983	3,386	5,063	26,255
2013	86,707	62,525	29,746	15,823	3,200	10,074	16,307
2014	127,000	81,030	54,740	22,813	5,536	16,655	24,112
2015	166,370	111,900	67,922	22,767	8,669	22,319	43,246
2016 ^{d/}	47,744	30,159	24,564	9,510	1,730	3,080	8,860
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	84,978	457	16,340	16,362	21,556	30,259
2013	104,777	574	10,578	19,420	40,411	33,662
2014	101,906	135	12,810	16,347	33,264	39,333
2015	128,705	42	15,146	15,142	34,588	63,784
2016 ^{e/}	142,540	0	13,450	16,360	50,200	62,530
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	12,112	0	1,880	766	9,407	59
2013	25,841	0	2,095	5,071	18,675	0
2014	25,774	0	767	2,107	22,900	0
2015	32,403	0	3,126	2,106	27,169	2
2016 ^{c/}	22,420	0	850	4,500	17,070	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	Harvest					Escapement							
	Inriver Run Size	Bonneville Dam Count	Treaty Indian Commercial and	Non-Indian		Natural Esc. ^{c/}	Upper Columbia		Deschutes above/below		Ice Harbor Dam Count	Total Lower Granite Count	SRW L. Granite Dam Count ^{f/}
				Commercial	Sport ^{b/}		Esc. ^{d/}	Hatchery	Sheares	McNary Dam Count			
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	684,228	599,580	153,685	53,296	62,766	268,962	233,934	122,189	17,933	410,786	61,389	60,687	14,172
2015	795,915	706,440	159,717	38,375	88,531	367,234	323,276	76,458	17,074	396,580	62,978	59,299	NA
2016 ^{g/}	419,472	364,840	123,810	34,910	45,040	181,713	145,361	33,924	17,074	239,791	36,713	34,714	NA
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	Bonneville Dam Count	Harvest			Escapement	
			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	63,363	44,306	15,682	5,841	11,340	12,860	17,052
2013	243,508	187,748	55,876	16,947	27,383	65,999	58,045
2014	203,734	154,971	81,605	20,902	26,401	34,996	34,075
2015	170,620	123,722	62,520	14,536	25,947	31,305	30,744
2016 ^{d/}	60,700	46,172	39,200	6,510	6,460	1,720	6,810
GOAL							

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.

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					Non-Indian Total		Total Treaty Indian & Non-Indian
		Non-Indian Sport			Non-Indian Commercial			Non-Indian Sport		Treaty Indian			Sport	Commercial	
		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/}			
Spring Chinook^{g/}															
'79-'80	146,560	11,427	<i>h/</i>	1,150	-	2,900	55,775	-	-	259	--	1,714	12,653	2,900	17,525
'81-'85	200,440	19,568	<i>h/</i>	2,233	-	8,197	68,342	-	513	1,024	--	3,633	22,726	8,197	35,580
'86-'90	283,730	39,688	<i>h/</i>	5,685	-	14,138	104,433	-	2,615	186	--	9,323	48,740	14,138	72,387
'91-'95	182,871	33,201	<i>h/</i>	3,010	301	4,042	62,183	-	453	15	--	7,433	37,437	4,343	49,228
'96-'00	149,830	12,669	<i>h/</i>	93	2,664	430	90,676	-	3,923	279	--	8,346	16,925	3,094	28,644
'01-'05	408,488	25,933	<i>h/</i>	20,621	8,348	9,496	249,812	-	26,143	9,041	6,795	19,433	75,027	17,844	128,141
2006	223,575	18,623	<i>h/</i>	7,087	7,245	5,106	126,158	1,564	3,692	0	--	14,983	30,966	12,351	58,300
2007	155,506	14,608	<i>h/</i>	6,527	6,774	3,336	80,829	1,857	5,068	3	--	9,847	28,060	10,110	48,021
2008	222,555	7,284	<i>h/</i>	20,312	4,486	6,007	151,895	2,625	19,520	12,314	--	13,241	49,741	10,493	85,789
2009	219,006	10,257	<i>h/</i>	17,246	4,175	4,521	147,489	1,237	17,371	0	--	22,836	46,111	8,696	77,643
2010	468,672	35,987	<i>h/</i>	29,735	24,892	10,807	277,389	5,789	37,609	25,008	--	29,703	109,120	35,699	199,530
2011	323,099	32,008	<i>h/</i>	12,006	11,101	5,759	205,431	4,517	24,009	7	--	22,874	72,540	16,860	112,280
2012	297,034	28,293	<i>h/</i>	14,122	10,057	6,618	186,448	3,597	21,339	820	--	21,669	67,351	16,675	106,515
2013	192,881	15,116	<i>h/</i>	7,141	8,064	3,297	112,934	1,428	7,198	0	--	8,870	30,882	11,361	51,113
2014	313,491	15,456	<i>h/</i>	16,272	4,643	4,664	224,946	3,607	24,732	13,807	--	18,001	60,067	9,307	101,182
2015	416,731	27,244	<i>h/</i>	19,955	13,669	8,373	265,558	3,102	37,299	20,327	--	10,854	87,600	22,042	140,823
2016	274,652	18,845	<i>h/</i>	12,767	10,496	4,154	172,614	2,480	21,794	1,993	--	15,073	55,886	14,650	87,602
Summer Chinook^{g/i/}															
'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
'01-'05	70,287	0	0	1,264	8	603	68,412	242	6,653	3,646	--	978	8,160	611	13,394
2006	77,573	0	0	4,926	9	4,819	67,819	276	5,439	15,771	0	548	10,641	4,828	31,788
2007	37,035	0	0	2,214	0	1,122	33,699	136	5,276	4,564	0	811	7,626	1,122	14,123
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	3,923	10,441	0	1,209	6,439	2,546	20,635
2010	72,346	0	0	2,738	20	4,720	64,638	435	6,504	15,569	0	230	9,677	4,740	30,216
2011	80,574	0	0	5,576	0	5,004	69,994	303	6,894	20,645	0	0	12,773	5,004	38,422
2012	58,300	0	0	3,281	23	1,692	53,304	231	7,468	7,824	0	0	10,980	1,715	20,519
2013	67,603	0	0	2,058	33	1,954	63,508	173	6,739	13,272	0	125	8,970	1,987	24,354
2014	78,254	0	0	2,385	45	2,793	72,871	308	6,745	19,179	0	210	9,437	2,838	31,664
2015	126,882	0	0	6,152	105	3,938	116,657	609	15,693	37,733	0	30	22,454	4,043	64,260
2016	91,048	0	0	3,706	60	2,990	84,192	361	8,617	20,415	0	100	12,683	3,050	36,248

TABLE B-20. Estimates of minimum river 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						Non-Indian Total		Total Treaty Indian & Non-Indian	
		Non-Indian Sport			Non-Indian Commercial		Non-Indian Sport			Treaty Indian			Sport	Commercial		
		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/}				
Fall Chinook^v																
'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	
'01-'05	711,807	7,790	14,123	18,586	8,507	35,718	497,144	9,553	4,350	95,071	26,772	498	54,402	44,225	220,968	
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	619,942	11,081	10,166	28,459	19,788	50,257	401,576	14,642	1,292	109,655	19,834	550	65,640	70,045	265,724	
2012	525,191	7,888	18,437	24,663	18,728	36,165	350,047	18,416	6,171	78,154	50,954	832	75,575	54,893	260,408	
2013	1,268,559	16,262	23,793	35,223	23,250	83,863	953,221	38,964	10,881	185,382	48,903	66	125,124	107,113	466,588	
2014	1,159,114	9,825	27,622	29,705	20,213	100,646	854,826	37,750	12,411	206,220	60,055	187	117,313	120,859	504,634	
2015	1,305,453	7,370	38,628	43,016	16,838	83,851	954,886	47,114	7,799	215,844	39,994	1,987	143,927	100,689	502,441	
2016	708,676	13,600	15,820	25,210	13,430	56,970	441,171	21,740	NA	122,151	22,247	NA	76,370	70,400	291,169	
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	2,870	3,761	8,560	53,742	235,764	2,090	513	50,216	--	9,327	32,959	62,302	154,804	
'86-'90	908,480	46,071	20,641	9,812	16,059	196,025	384,197	6,576	2,703	119,758	953	15,209	85,803	212,085	433,808	
'91-'95	436,121	36,741	4,979	5,658	1,531	18,765	220,611	4,924	1,037	33,424	4,732	8,186	53,339	20,295	119,976	
'96-'00	463,384	14,067	6,906	8,888	5,583	7,781	317,435	5,324	6,160	38,676	21,746	9,148	41,345	13,364	124,279	
'01-'05	1,190,582	33,722	14,123	40,471	16,863	45,817	815,368	12,126	37,147	107,758	33,567	20,909	137,589	62,680	362,504	
2006	723,582	25,675	1,620	25,460	12,076	33,069	493,138	6,976	13,100	74,613	18,849	15,922	72,831	45,145	227,359	
2007	412,169	17,308	3,389	16,629	10,424	16,143	274,343	6,907	12,363	38,568	11,085	10,928	56,596	26,567	143,745	
2008	727,071	10,783	7,764	33,333	17,040	35,055	518,853	10,589	26,868	111,599	18,055	13,993	89,337	52,095	285,079	
2009	701,868	17,873	4,218	34,541	15,170	39,713	480,174	9,536	24,624	73,939	12,008	24,060	90,792	54,883	255,683	
2010	1,198,101	44,061	6,473	49,422	43,049	46,239	809,551	19,751	47,419	159,024	13,029	29,960	167,126	89,288	458,427	
2011	1,024,245	43,237	10,166	46,041	31,371	61,020	677,001	19,461	34,275	130,307	19,834	23,424	153,180	92,391	419,136	
2012	880,702	36,181	18,441	42,143	28,831	44,505	589,799	22,244	34,978	86,798	50,954	22,501	153,987	73,336	387,576	
2013	1,526,926	31,378	21,674	44,423	31,347	89,114	1,129,663	40,565	24,818	198,654	48,903	9,061	162,858	120,461	539,937	
2014	1,550,859	25,281	27,622	48,361	24,901	104,659	1,152,643	41,665	43,888	239,206	60,055	18,398	186,817	129,560	634,036	
2015	1,849,067	34,614	38,628	69,123	30,612	96,162	1,337,101	50,824	60,792	273,904	39,994	12,871	253,981	126,774	707,524	
2016	1,074,375	32,445	15,820	41,682	23,986	64,114	697,977	24,581	30,411	144,559	22,247	15,173	144,939	88,100	415,019	

TABLE B-20. Estimates of minimum river 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, Clatskanie, 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	Recreational		Hatchery ^{c/}	Tributary Dam Counts ^{d/}		Commercial Treaty Catch	Zone 6 Escapement ^{f/}
			Buoy 10	Mainstem ^{b/}					
1971-1975	373.4	199.4	-	11.8	117.1	9.5	35.7	9.1	26.6
1976-1980	263.3	123.6	-	10.1	102.2	3.6	23.8	2.6	21.2
1981-1985	305.3	132.1	30.6	11.4	101.0	4.6	31.9	2.6	29.2
1986-1990	705.0	392.2	82.3	13.9	147.6	5.8	46.3	5.5	40.7
1991-1995	315.1	115.8	55.9	10.7	96.0	3.7	23.6	2.0	21.6
1996	117.1	26.2	4.5	3.8	62.2	0.6	15.7	0.7	15.0
1997	156.4	20.4	20.4	11.6	69.7	2.8	24.2	0.6	23.6
1998	175.9	23.0	3.2	6.7	87.9	1.3	46.3	1.5	44.8
1999	289.1	79.1	9.0	19.9	124.5	1.0	40.7	2.3	38.4
2000	558.3	168.4	21.5	37.7	288.6	6.2	85.8	6.3	79.5
2001	1,128.3	253.1	132.0	78.0	377.3	8.2	259.8	5.4	254.4
2002	535.8	163.0	6.2	27.4	211.1	3.7	88.6	1.6	86.9
2003	713.2	257.3	54.4	23.6	205.4	11.2	125.7	5.8	120.0
2004	463.5	119.6	15.2	13.6	173.5	5.6	115.0	10.3	104.8
2005	354.7	94.8	6.9	10.5	142.3	3.3	83.3	4.9	78.5
2006	409.7	63.4	3.7	16.5	191.1	9.5	102.1	8.1	94.1
2007	349.0	40.3	8.4	24.2	161.0	10.5	92.5	8.0	84.5
2008	520.8	60.4	8.6	43.2	240.9	6.2	135.5	21.6	113.9
2009	760.2	124.2	48.1	40.5	260.4	32.3	244.9	8.9	236.0
2010	471.3	76.3	8.0	24.0	189.3	22.3	102.7	7.1	95.6
2011	376.5	62.3	7.6	18.0	108.3	8.7	146.5	33.3	113.2
2012	143.9	17.1	7.4	4.7	41.9	9.1	55.0	6.4	48.6
2013	258.3	48.4	7.6	10.7	81.9	21.6	59.6	8.8	50.8
2014	1,029.0	237.3	57.7	52.2	293.2	32.2	279.7	39.2	240.5
2015	174.7	31.1	36.9	7.4	43.5	4.6	37.4	2.3	35.1
2016 ^{g/}	196.3	31.4	9.2	12.7	84.1	4.7	42.0	5.0	37.0
GOAL					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.

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	107,522	26,788	57,744	0.79
2015	108,319	36,535	36,920	0.68
2016 ^{f/}	94,950	17,780	9,182	0.28

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 ^{e/}
	Gillnet Catch ^{a/}	Gillnet ^{b/}	Sport ^{b/c/}	Natural ^{d/}	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 ^{g/}	81	8,959	3,376	4,499	21,565	38,399
2011 ^{g/}	778	20,068	8,450	3,811	21,838	54,167
2012 ^{g/}	932	11,242	6,072	2,677	14,134	34,125
2013 ^{g/}	1,080	14,185	5,854	1,904	14,483	36,426
2014 ^{f/g/}	1,322	13,969	7,458	2,075	18,367	41,869
2015 ^{f/g/}	106	5,283	16,949	2,824	26,584	51,640
2016 ^{f/g/}	96	3,502	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. In 2015, non-local stock contribution based on genetic sampling throughout the duration of the Aug. commercial fishery.

b/ Includes catch, drop-off (2% recreational, 3% commercial), unmarked impacts in mark-selective fisheries, 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	41,535	48,895	132,804
1997	1,526	806	7,813	6,399	16,544
1998	13,141	852	15,775	6,785	36,553
1999	5,467	2,836	14,032	22,711	45,046
2000	10,326	1,780	26,679	29,148	67,933
2001	31,913	5,707	56,166	54,359	148,145
2002	59,435	5,672	66,438	54,838	186,383
2003	66,470	5,887	55,943	68,797	197,097
2004	16,533	2,361	44,463	21,220	84,577
2005	48,929	3,892	32,558	45,165	130,544
2006	19,948	811	14,301	8,088	43,148
2007	8,189	955	18,310	9,243	36,697
2008	16,692	1,227	18,561	12,488	48,968
2009	75,095	6,461	50,650	22,813	155,019
2010	29,072	4,929	84,564	34,387	152,952
2011	47,975	5,652	31,737	22,022	107,386
2012	25,783	5,024	20,412	14,539	65,758
2013	11,567	4,281	26,303	13,686	55,837
2014 ^{e/}	77,475	21,271	59,569	88,882	247,197
2015 ^{e/}	1,922	11,105	17,086	21,386	51,499
2016 ^{e/}	19,304	NA	NA	NA	NA
GOAL			17,200 ^{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. Estimates from 1996 to present include both wild and naturally spawning hatchery fish.

c/ Hatchery rack number includes fish released upstream.

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

e/ Preliminary.

f/ Willapa Bay Coho were added to the FMP in 2011; the STT finalized the new FMP goal for use beginning in 2016.

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	-	-	5	205	54	651	-	915
2008	-	-	2	0	0	995	-	997
2009	-	-	18	0	0	1,132	-	1,150
2010	-	-	0	0	0	3,495	-	3,495
2011	-	-	10	0	0	2,563	-	2,573
2012	-	-	6	201	66	878	-	1,151
2013	-	-	31	NA	148	2,459	-	2,638
2014	-	-	14	NA	62	1,583	-	1,659
2015 ^{g/}	-	-	32	156	36	1,841	-	2,065
2016 ^{g/}	-	-	7	104	NA	1,367	-	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							Terminal Run Size ^{d/}
	Early Non- local Catch	Non-Indian	Treaty Indian	Chehalis Tribal	Sport ^{a/}	Spaw ning Escapement		
		Gillnet	Gillnet	Gillnet		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	10	1,714	9,385	284	15,329
2001	0	2,523	3,885	13	3,320	9,492	282	19,515
2002	40	26	963	9	2,955	11,841	776	16,570
2003	0	359	851	0	1,031	19,871	838	22,950
2004	0	209	3,498	24	6,012	31,773	1,012	42,528
2005	0	304	2,260	3	118	19,695	897	23,277
2006	0	256	3,738	0	1,629	17,428	1,941	24,992
2007	0	529	2,472	19	1,698	13,117	583	18,418
2008	0	779	1,878	0	0	15,391	500	18,548
2009	0	1,231	2,485	0	860	9,290	666	14,532
2010	0	1,638	3,403	0	2,005	18,158	650	25,854
2011	0	2,298	6,402	0	3,086	22,870	1,363	36,019
2012	0	1,731	3,988	3	4,490	14,032	862	25,106
2013	0	103	2,875	0	3,618	12,582	701	19,879
2014	0	73	5,094	2	1,124	11,400	1,676	19,369
2015 ^{g/}	0	62	10,497	0	4,155	22,200	2,182	39,096
2016 ^{g/}	0	26	2,061	0	NA	NA	990	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

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	17,253	49,162	32,882	82,044
1986-1990	7,715	30,109	1,817	5,355	44,116	29,963	58,835	60,298	119,133
1991-1995	12,502	29,166	2,609	10,503	35,826	31,304	46,949	76,403	123,352
1996	10,096	51,784	2,672	20,846	63,571	48,607	83,514	116,068	199,582
1997	115	5,395	125	1,547	22,470	13,074	19,928	22,982	42,910
1998	795	13,468	305	2,123	34,892	17,432	36,426	33,088	69,514
1999	1,674	12,062	68	4,507	33,348	25,375	35,528	41,964	77,493
2000	4,995	10,797	7	5,122	38,054	33,875	39,088	54,314	93,401
2001	3,152	15,520	82	20,868	80,100	80,142	71,442	129,181	200,622
2002	6,853	14,132	666	13,083	110,066	53,161	104,128	94,562	198,690
2003	6,623	12,041	1,000	12,026	84,952	66,654	85,122	98,847	183,969
2004	5,162	17,681	1,741	9,847	60,690	52,134	74,748	73,357	148,104
2005	3,238	23,260	2,286	10,919	38,297	51,450	75,110	55,293	130,403
2006	649	8,685	127	2,151	17,767	17,223	21,779	25,142	46,921
2007	1,687	8,926	1,108	4,450	25,121	15,236	26,833	30,080	56,913
2008	7,766	10,204	869	3,266	34,054	20,039	41,999	34,808	76,807
2009	567	28,513	2,519	16,288	69,222	55,864	80,867	93,334	174,201
2010	4,090	25,163	1,542	12,455	102,237	74,069	112,930	107,644	220,574
2011	3,517	28,267	742	14,569	64,403	23,757	80,488	55,886	136,374
2012	10,279	30,670	2,470	18,069	66,836	22,301	94,191	58,048	152,239
2013	5,935	21,957	2,515	21,246	56,785	26,732	73,263	62,936	136,198
2014	5,504	67,252	7,322	28,595	104,836	59,840	140,428	134,341	274,769
2015	1,540	12,544	610	8,197	21,278	9,646	28,719	25,010	53,729
2016 ^{e/}	232	2,063	891	NA	NA	23,030	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	20	7,148	3,834	969
2014	11	12,349	1,250	4,313
2015	6	11,574	4,879	16,639
2016 ^{b/}	41	5,137	7,294	4,312

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	19,166	656	798	13,026	5,383	23,171	15,514	38,684
2013	20,477	942	1,203	23,592	17,818	29,579	33,628	63,207
2014	50,294	2,061	2,334	54,065	31,132	78,517	62,945	143,003
2015 ^{b/}	9,734	548	809	17,476	13,473	22,601	20,753	43,387
2016 ^{b/}	37,187	NA	NA	NA	14,141	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	-	0	-	760	-	760	-	760
2013	-	<10	-	520	-	520	-	520
2014 ^{e/}	75	<10	-	377	-	452	-	462
2015 ^{c/e/}	44	<10	-	532	-	576	-	576
2016 ^{c/e/}	73	<10	-	NA	-	NA	-	NA
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.

e/ A fishery targeting early fall coho at the tail end of August in weeks 33 and 34 caught a number of early Chinook.

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		
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}		Natural ^{c/}	Indicator ^{d/}	Total
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	412	3,857	4,877	1,772	6,649
2012	2,722	86	296	3,707	5,835	922	6,757
2013	1,943	63	369	2,582	4,070	887	4,957
2014	1,180	73	117	3,820	3,099	2,059	5,158
2015	1,314	102	567	5,313	4,825	2,627	7,452
2016 ^{e/}	804	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/}			Total ^{d/}
	Gillnet	Ceremonial & Subsistence	River Sport ^{b/}	Natural	Supplemental	Hatchery	Natural	Supplemental	Hatchery	
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 ^{b/}	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	6,118	373	527	4,285	0	1,105	8,119	0	3,272	11,391
2013	4,519	519	1,285	5,684	0	9,680	9,086	0	11,578	20,664
2014	15,478	1,126	1,625	7,174	0	12,179	10,762	0	22,635	33,397
2015	2,268	209	299	2,028	0	868	2,494	0	5,119	7,613
2016 ^{g/}	6,745	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}	135	263	398	9	11	20	36	915	1	1,059	311	1,370	
2013 ^{d/e/}	117	415	532	6	17	23	65	750	0	873	497	1,370	
2014 ^{d/e/h/}	67	264	331	8	20	28	0	744	0	819	284	1,103	
2015 ^{d/e/h/}	17	55	72	9	5	14	0	1,070	0	1,096	60	1,156	
2016 ^{d/e/h/}	4	2	6	10	16	26	0	1,144	0	1,158	18	1,176	
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.

h/ Sport salmon fishery closed through August 31.

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	3,784
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	929	10	237	1,937	0	3,014	99	3,113
2013	1,530	10	477	1,269	0	3,144	142	3,286
2014	658	10	144	1,933	0	2,664	81	2,745
2015 ^{d/}	493	11	198	1,592	0	2,236	58	2,294
2016 ^{d/}	137	3	0	2,333	0	2,467	6	2,473
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	2,706	10	444	4,072	0	7,106	126	7,232
2013	4,597	20	1,093	2,899	0	8,376	233	8,609
2014	3,879	20	417	4,565	0	8,641	240	8,881
2015 ^{f/}	575	10	253	1,794	0	2,605	27	2,632
2016 ^{f/}	295	2	NA	4,110	0	4,383	24	4,407
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		Total
	Gillnet	Ceremonial & Subsistence ^{a/}	River Sport ^{b/}	Natural ^{c/}	Hatchery ^{d/}	Natural ^{c/}	Hatchery ^{d/}	
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	3,054
2009	483	30	192	555	722	682	1,301	2,073
2010	567	0	233	772	880	941	1,554	2,495
2011	599	41	659	569	696	823	1,759	2,582
2012	880	20	640	729	437	841	1,881	2,722
2013	1,204	0	803	957	528	1,148	2,380	3,528
2014	714	0	481	608	342	843	1,330	2,173
2015 ^{e/}	1,049	0	641	824	505	1,064	1,966	3,030
2016 ^{e/}	1,335	0	599	893	745	1,184	3,601	3,575
GOAL				1,200 ^{f/}				

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/ 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		
	Gillnet	Ceremonial & Subsistence ^{a/}	River Sport ^{b/}	Natural ^{c/}	Hatchery ^{d/}	Natural ^{c/}	Hatchery ^{d/}	Total
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	2,842	0	358	3,518	0	6,682	36	6,718
2013	2,001	0	1,024	4,017	0	6,993	49	7,042
2014	4,213	0	423	2,782	0	7,327	96	7,423
2015 ^e	2,387	0	602	3,098	0	6,068	19	6,087
2016 ^e	1,467	0	73	3,508	0	5,042	6	5,048
GOAL				3,000 ^{f/}				

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/ 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	430	0	251	672	1,588	789	2,152	2,941
2013	1,028	0	331	451	2,504	990	3,324	4,314
2014	4,281	0	267	688	5,085	2,018	8,303	10,321
2015 ^{g/}	251	0	283	624	4,570	741	4,987	5,104
2016 ^{g/}	2,450	0	382	663	2,116	1,725	3,886	5,611
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 ^{f/}	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	11,051	1	1,317	5,846	2,276	15,421	5,070	20,490
2013	12,611	0	4,565	7,063	5,111	18,220	11,139	29,359
2014	27,427	0	3,279	7,410	12,389	22,570	27,950	50,520
2015 ^{g/}	5,484	0	3,054	3,079	3,595	8,672	6,568	15,240
2016 ^{g/}	5,597	0	180	9,025	16,332	11,069	20,148	31,217
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/ Regulations required nonretention of coho.

g/ Preliminary.

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	-	-	-	212	451	212	451	663
2013	-	-	-	726	680	726	680	1,406
2014	-	-	-	1,531	229	1,531	229	1,760
2015 ^{c/}	-	-	-	1,500	1,377	1,500	1,377	2,877
2016 ^{c/}	-	-	-	NA	NA	NA	NA	NA
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)

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
2001-2005	Non-Indian	11,100	26,008	258,211	852,710	92,830
	Treaty Indian	94,113	340,391	214,297	725,349	194,046
	Total	107,667	369,373	475,002	1,620,081	288,484
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

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

Year or	Fishery	Chinook	Coho	Pink ^{b/}	Chum	Sockeye
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	4,343	11,815	29	543,142	234,200
	Treaty Indian	36,116	122,769	667	505,117	486,895
	Total	40,459	134,584	696	1,048,259	721,095
2015 ^{c/}	Non-Indian	3,367	4,777	398,670	561,379	16,906
	Treaty Indian	41,249	29,450	519,204	516,526	37,752
	Total	44,616	34,227	917,874	1,077,905	54,658
2016 ^{c/}	Non-Indian	6,604	14,486	0	444,586	0
	Treaty Indian	48,684	201,588	43	462,848	4,663
	Total	55,288	216,074	43	907,434	4,663

a/ Data do 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	27,507	56,775	142,781
2012	41,632	169,884	5
2013	41,036	115,934	134,539
2014	32,358	124,185	52
2015 ^{c/}	29,168	142,669	198,931
2016	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	6	16	22	737	2,833	3,570	743	2,849	3,592
2012	8	11	19	1,158	2,095	3,253	1,166	2,107	3,272
2013	11	11	22	2,848	2,993	5,841	2,859	3,004	5,863
2014	31	49	80	2,633	4,172	6,805	2,664	4,221	6,885
2015	27	44	71	2,805	4,474	7,279	2,832	4,518	7,350
2016	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	21,054	3,336	24,390	8,506	378	8,884	29,560	3,714	33,274
2012	22,884	2,132	25,015	6,635	445	7,080	29,519	2,577	32,095
2013	18,829	3,159	21,988	8,816	473	9,289	27,645	3,632	31,277
2014	11,243	1,143	12,386	12,295	263	12,558	23,538	1,406	24,944
2015	8,838	3,173	12,011	6,049	0	6,049	14,887	3,173	18,060
2016	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	44	3,668	3,712	67	5,537	5,604	111	9,205	9,316
2012	12	1,940	1,952	82	13,817	13,899	94	15,757	15,851
2013	14	2,069	2,083	73	10,882	10,955	87	12,951	13,038
2014	0	1,582	1,582	0	8,672	8,672	0	10,254	10,254
2015	0	1,372	1,372	0	13,314	13,314	0	14,686	14,686
2016	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	21,860	690	22,550	15,749	1,553	17,302	37,609	2,243	39,852
2007	15,254	386	15,639	16,231	663	16,894	31,485	1,049	32,533
2008	16,092	707	16,799	14,813	1,439	16,252	30,905	2,146	33,051
2009	20,493	688	21,180	15,281	1,341	16,622	35,774	2,029	37,802
2010	21,419	1,096	22,514	13,956	1,341	15,297	35,375	2,437	37,811
2011	34,687	1,365	36,052	15,499	1,652	17,151	50,186	3,017	53,203
2012	58,321	1,753	60,075	28,256	2,000	30,256	86,577	3,753	90,331
2013	45,113	226	45,339	25,866	494	26,360	70,979	720	71,699
2014	15,841	183	16,025	8,921	253	9,174	24,762	436	25,199
2015	23,664	182	23,846	8,927	171	9,098	32,591	353	32,944
2016	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^{d/}									
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	4,157	199	4,356	3,665	3,040	6,705	7,822	3,239	11,061
2012	403	48	450	6,353	5,458	11,811	6,756	5,506	12,261
2013	1,760	102	1,862	5,656	3,484	9,140	7,416	3,586	11,002
2014	1,779	64	1,843	5,961	2,784	8,745	7,740	2,848	10,588
2015	852	1,503	2,355	4,682	2,739	7,421	5,534	4,242	9,776
2016	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	26,188	11,413	37,601	40,935	9,178	50,113	67,123	20,591	87,714
2012	22,168	5,838	28,006	39,753	17,165	56,918	61,921	23,003	84,924
2013	22,012	9,990	32,002	53,452	6,988	60,440	75,465	16,978	92,442
2014	9,539	3,452	12,992	26,937	4,293	31,230	36,477	7,745	44,222
2015	9,380	4,714	14,094	33,981	6,544	40,525	43,361	11,258	54,620
2016	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/ Since 1999, numbers include Tulaip 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
2001-2005	5,638	1,467	7,104	11,951	22,146	34,097	19,634	24,154	43,788
2006	845	220	1,065	596	3,940	4,536	1,665	4,224	5,889
2007	2,747	708	3,455	2,021	8,023	10,044	5,318	8,889	14,207
2008	688	144	832	692	3,335	4,027	1,392	3,481	4,873
2009	5,481	1,396	6,877	9,838	17,526	27,364	16,162	19,145	35,307
2010	2,082	464	2,546	4,286	19,282	23,568	6,596	19,935	26,531
2011	4,245	1,278	5,523	7,893	13,288	21,181	13,819	15,132	28,951
2012	4,153	1,140	5,293	5,832	13,096	18,928	10,686	14,485	25,171
2013	2,040	88	2,128	6,767	8,461	15,228	10,245	8,549	18,794
2014	3,201	4	3,205	3,688	11,002	14,690	7,353	11,006	18,359
2015 ^{d/}	291	94	385	1,019	3,698	4,717	1,613	3,792	5,405
2016	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
2001-2005	41,809	17,222	59,031	36,653	15,154	51,808	80,183	33,324	113,507
2006	16,932	4,846	21,778	8,533	845	9,378	25,644	5,966	31,610
2007	27,341	7,536	34,877	14,781	11,205	25,986	42,293	18,997	61,290
2008	26,295	2,822	29,117	6,067	1,047	7,114	32,452	4,089	36,541
2009	39,574	4,658	44,232	12,000	1,802	13,802	52,009	6,460	58,469
2010	45,789	37,912	83,701	15,968	24,582	40,550	62,325	62,494	124,819
2011	63,369	5,453	68,822	14,645	2,228	16,873	78,608	7,681	86,289
2012	48,942	10,877	59,819	16,726	9,600	26,326	65,867	20,485	86,352
2013	32,970	16,517	49,487	16,700	20,494	37,194	51,010	37,063	88,073
2014	9,368	1,364	10,732	18,845	5,530	24,375	28,791	6,911	35,702
2015 ^{d/}	14,384	499	14,883	24,485	1,384	25,869	39,065	1,885	40,950
2016	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
2001-2005	3,681	18,529	22,211	13,700	76,980	90,680	18,332	100,976	119,307
2006	1,148	4,288	5,436	1,927	7,702	9,629	3,276	12,797	16,073
2007	1,226	15,850	17,076	10,302	52,333	62,635	12,408	72,647	85,055
2008	1,814	6,807	8,621	11,062	22,706	33,768	13,445	30,684	44,129
2009	1,898	7,636	9,534	11,018	76,689	87,707	13,556	88,781	102,337
2010	1,676	23,466	25,142	5,548	43,083	48,631	7,555	69,111	76,666
2011	5,075	16,540	21,615	12,328	49,162	61,490	18,804	71,289	90,093
2012	2,601	17,337	19,938	13,973	109,763	123,736	17,445	134,606	152,051
2013	4,490	22,103	26,593	14,830	88,246	103,076	21,772	124,941	146,713
2014	2,314	11,898	14,212	7,924	27,170	35,094	11,875	44,680	56,555
2015 ^{d/}	730	2,272	3,002	2,080	6,483	8,563	4,489	13,984	18,473
2016	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
2001-2005	16,792	27,331	44,123	34,590	104,232	138,822	62,404	135,781	198,185
2006	24,542	34,126	58,668	3,883	13,665	17,548	32,106	49,718	81,824
2007	20,161	31,505	51,666	15,995	48,740	64,735	38,699	82,808	121,507
2008	31,860	12,408	44,268	8,876	11,796	20,672	43,916	25,518	69,434
2009	36,664	20,428	57,092	13,256	27,906	41,162	54,240	50,085	104,325
2010	14,944	12,907	27,851	9,494	4,753	14,247	25,385	17,867	43,252
2011	36,526	27,635	64,161	20,117	25,733	45,850	64,244	56,528	120,772
2012	37,357	52,711	90,068	16,956	46,802	63,758	61,633	103,276	164,909
2013	35,929	6,886	42,815	18,255	16,064	34,319	59,942	24,277	84,219
2014	8,020	16,181	24,201	7,066	26,787	33,853	16,865	44,694	61,559
2015	NA	NA	NA	NA	NA	NA	NA	NA	NA
2016	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
2001-2005	9	3,579	3,589	71	47,628	47,699	84	53,012	53,095
2006	0	2,845	2,845	0	8,549	8,549	0	11,780	11,780
2007	16	3,915	3,931	160	38,732	38,892	188	45,457	45,645
2008	0	2,255	2,255	5	12,938	12,943	6	15,356	15,362
2009	0	2,313	2,313	5	22,179	22,184	6	27,505	27,511
2010	18	574	592	71	15,172	15,243	90	16,208	16,298
2011	19	6,184	6,203	155	49,991	50,146	183	59,079	59,262
2012	17	5,369	5,386	101	45,156	45,257	154	54,197	54,351
2013	57	7,881	7,938	0	60,387	60,387	80	73,386	73,466
2014	52	7,964	8,016	246	35,763	36,009	329	46,474	46,803
2015 ^{d/}	1	466	467	5	2,572	2,577	9	4,373	4,382
2016	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
2001-2005	36,746	15,200	51,947	18,272	193,475	211,747	57,319	219,745	277,064
2006	4,898	24,081	28,979	6,136	75,630	81,766	11,224	102,050	113,274
2007	14,107	11,845	25,952	7,147	117,736	124,883	22,104	137,744	159,848
2008	31,268	6,464	37,732	3,329	35,441	38,770	34,796	44,025	78,821
2009	19,350	8,972	28,322	11,472	98,979	110,451	33,008	116,146	149,154
2010	319	1,418	1,737	3,090	49,100	52,190	3,526	52,389	55,915
2011	5,342	9,891	15,233	7,747	111,374	119,121	13,808	131,209	145,017
2012	43,092	10,795	53,887	10,441	130,637	141,078	56,883	155,075	211,958
2013	29,463	16,400	45,863	10,453	125,870	136,323	42,688	162,989	205,677
2014	28,639	10,069	38,708	13,483	46,244	59,727	45,163	61,910	107,073
2015 ^{d/}	5,079	2,552	7,631	4,365	12,804	17,169	11,197	23,971	35,168
2016	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
2001-2005	116,825	41,503	158,327	110,918	36,881	147,799	243,845	85,823	329,668
2006	114,496	29,436	143,932	47,625	21,449	69,074	166,886	55,795	222,681
2007	57,894	25,382	83,276	53,136	32,187	85,323	120,018	66,938	186,956
2008	97,850	14,499	112,349	53,835	17,372	71,207	158,218	35,487	193,705
2009	87,470	18,554	106,024	51,672	26,164	77,836	156,182	62,414	218,596
2010	19,739	5,820	25,559	17,461	11,160	28,621	39,806	18,451	58,257
2011	31,699	10,929	42,628	49,765	34,651	84,416	92,488	56,177	148,665
2012	102,273	32,416	134,689	84,436	48,911	133,347	208,863	100,807	309,670
2013	70,907	13,870	84,777	70,586	23,298	93,884	162,450	54,660	217,110
2014	44,272	11,209	55,481	43,094	16,371	59,465	98,062	35,814	133,876
2015 ^{d/}	8,297	2,941	11,238	15,023	14,370	29,393	32,411	27,482	59,893
2016	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	319	319	0	15,148	15,148	0	15,467	15,467
2005	0	51	51	0	8,688	8,688	0	8,739	8,739
2007	0	117	117	0	6,252	6,252	0	6,369	6,369
2009	0	2,713	2,713	0	41,533	41,533	0	44,246	44,246
2011	0	2,041	2,041	0	27,616	27,616	0	29,657	29,657
2013	8	20,875	20,883	157	409,959	410,116	165	430,834	430,999
2015	0	18,104	18,104	0	337,724	337,724	0	355,828	355,828
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	11	2,478	2,489	446	95,000	95,446	457	97,478	97,935
2001	208	13,886	14,094	3,714	226,000	229,714	3,922	239,886	243,808
2003	291	2,593	2,884	7,264	51,011	58,275	7,555	53,604	61,159
2005	629	1,546	2,175	1,791	3,719	5,510	2,420	5,265	7,685
2007	14	851	865	276	9,302	9,578	290	10,153	10,443
2009	250	6,222	6,472	2,097	45,120	47,217	2,347	51,342	53,689
2011	49	11,468	11,517	285	53,852	54,137	334	65,320	65,654
2013	63	100,407	100,470	284	224,000	224,284	347	324,407	324,754
2015	25	81,595	81,620	90	247,358	247,448	115	328,953	329,068
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/}
(Page 2 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
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	207,680	207,680	0	894,061	894,061	0	1,101,741	1,101,741
2003	0	234,621	234,621	0	567,080	567,080	0	801,701	801,701
2005	0	20,252	20,252	0	60,000	60,000	0	80,252	80,252
2007	0	11,713	11,713	0	300,000	300,000	0	311,713	311,713
2009	0	396,971	396,971	0	1,160,000	1,160,000	0	1,556,971	1,556,971
2011	0	378,553	378,553	0	560,000	560,000	0	938,553	938,553
2013	0	624,303	624,303	0	900,000	900,000	0	1,524,303	1,524,303
2015	0	75,281	75,281	0	290,000	290,000	0	365,281	365,281
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	7,639	12,667	20,306	7,657	12,677	20,334
2001	781	883	1,664	71,539	98,338	169,877	72,320	99,221	171,541
2003	525	782	1,307	25,217	37,531	62,748	25,742	38,313	64,055
2005	117	145	262	14,107	17,481	31,588	14,224	17,626	31,850
2007	82	541	623	4,406	29,001	33,407	4,488	29,542	34,030
2009	3,178	723	3,901	22,455	11,093	33,548	25,633	11,816	37,449
2011	5,081	1,117	6,198	17,792	15,122	32,914	22,873	16,239	39,112
2013	2,114	10,694	12,808	4,904	195,601	200,505	7,018	206,295	213,313
2015	485	27,706	28,191	5,948	595,679	601,627	6,433	623,385	629,818
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	13,451	13,451	0	461,543	461,543	0	474,994	474,994
2001	0	100,549	100,549	0	1,847,648	1,847,648	0	1,948,197	1,948,197
2003	0	191,453	191,453	0	1,577,001	1,577,001	0	1,768,454	1,768,454
2005	0	20,009	20,009	0	600,124	600,124	0	620,133	620,133
2007	0	47,466	47,466	0	1,383,591	1,383,591	0	1,431,057	1,431,057
2009	0	707,056	707,056	0	2,882,373	2,882,373	0	3,589,429	3,589,429
2011	0	517,760	517,760	0	612,903	612,903	0	1,130,663	1,130,663
2013	0	1,150,404	1,150,404	0	2,153,569	2,153,569	0	3,303,973	3,303,973
2015	0	125,701	125,701	0	480,674	480,674	0	606,375	606,375
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 ^{f/g/}	0	10,574	10,574	0	1,087,906	1,087,906	0	1,098,480	1,098,480
2007 ^{f/g/}	0	27,802	27,802	0	1,218,897	1,218,897	0	1,246,699	1,246,699
2009 ^{f/g/}	0	467,321	467,321	0	4,091,283	4,091,283	0	4,558,604	4,558,604
2011 ^{g/}	0	295,895	295,895	0	2,422,575	2,422,575	0	2,718,470	2,718,470
2013 ^{g/}	0	309,604	309,604	0	2,172,795	2,172,795	0	2,482,399	2,482,399
2015 ^{g/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
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/}
(Page 4 of 4)

- 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	1,663	1,065	5,649	3,741	625	1,761	0
2003	1,545	844	5,046	2,857	570	2,937	0
2004	3,107	1,575	3,501	1,719	170	3,088	0
2005	2,258	1,246	1,569	2,047	230	3,687	0
2006	1,487	1,896	732	1,184	515	4,137	0
2007	1,931	613	665	1,438	323	8,200	0
2008	1,462	1,470	1,194	1,266	443	3,927	0
2009	900	978	812	1,903	453	2,200	0
2010	1,371	1,361	1,279	2,048	548	2,193	0
2011	1,301	825	1,404	865	470	3,292	0
2012	1,579	2,763	1,215	758	508	4,096	0
2013	1,256	1,960	2,297	1,346	243	6,597	0
2014	1,109	1,608	1,998	1,398	208	2,157	0
2015 ^{e/}	1,836	1,408	2,994	1,717	135	2,938	0
2016 ^{e/}	2,441	2,428	1,806	NA	NA	6,718	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 spaw ners are hatchery fish spaw ning in the wild.

c/ Estimate includes adult returns to Hupp Springs, White R. Hatchery, and Buckley Trap. Data from 1999 - 2013 were updated using new "agreed-to" methodology for estimating unsampled portions of Spring Chinook back to Buckley Trap.

d/ Program has been discontinued.

e/ Preliminary.

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