

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

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TABLE B-1. California Central Valley natural area fall Chinook salmon spawning escapement in numbers of fish.^{a/}

Year or Average	Upper Sacramento River ^{b/c/}		Lower Sacramento River								Sacramento River Totals		San Joaquin River Totals		Central Valley	
	Adults	Jacks	Feather River		Yuba River		American River		Total		Adults	Jacks	Adults	Jacks	Adults	Jacks
1971-1975	58,462	18,289	40,221	9,745	10,877	1,615	41,726	3,695	92,824	15,055	151,286	33,345	13,820	1,411	165,105	34,756
1976-1980	67,012	17,905	33,954	3,544	7,387	1,563	28,509	1,344	69,850	6,452	136,862	24,356	2,886	763	139,747	25,120
1981-1985	57,913	22,432	36,252	5,243	12,825	5,146	32,332	4,954	81,409	15,343	139,322	37,775	34,930	10,721	174,252	48,496
1986-1990	87,396	17,244	38,709	6,426	9,261	2,444	24,420	3,323	72,390	12,193	159,787	29,437	10,853	4,377	170,640	33,815
1991-1995	60,151	11,496	32,578	4,355	8,309	2,131	28,549	4,151	69,436	10,637	129,587	22,134	2,626	904	132,212	23,038
1996	131,268	11,649	44,593	12,577	23,492	4,408	67,719	7,026	135,803	24,012	267,071	35,661	5,766	5,979	272,837	41,640
1997	167,353	13,736	47,009	3,538	19,202	6,746	46,036	6,159	112,246	16,444	279,599	30,180	17,983	1,146	297,583	31,325
1998	60,713	5,137	39,600 ^{d/}	3,400	26,737	4,353	41,094	13,698	107,431	21,451	168,144	26,588	13,119	6,292	181,263	32,880
1999	256,629	7,495	30,000 ^{d/}	7,500	18,778	5,452	48,311	8,688	97,089	21,640	353,718	29,135	10,708	7,185	364,426	36,320
2000	152,923	3,900	109,924	7,017	12,954	2,041	93,413	5,646	216,291	14,704	369,214	18,604	36,896	2,578	406,110	21,182
2001	179,198	11,853	169,588	9,114	21,567	1,825	167,062	13,553	358,217	24,492	537,415	36,345	23,899	3,705	561,314	40,050
2002	474,812 ^{e/}	11,259	93,766	11,397	18,406	4,796	95,711	10,635	207,883	26,828	682,695	38,087	21,852	3,788	704,547	41,875
2003	164,802	4,402	85,578	4,369	26,820	1,489	136,238	9,627	248,636	15,485	413,438	19,887	14,519	2,164	427,957	22,051
2004	70,548	7,220	48,580	5,591	9,260	5,208	75,090	13,774	132,930	24,573	203,478	31,793	7,250	3,310	210,728	35,103
2005	96,716	3,267	43,738	4,848	16,251	987	54,001	2,842	113,990	8,677	210,706	11,944	15,843	1,577	226,549	13,521
2006	89,933	2,874	75,545	1,869	7,891	230	21,755	1,145	105,191	3,244	195,124	6,118	5,622	669	200,746	6,787
2007	36,079	978	21,541	321	2,523	81	9,855	130	33,919	532	69,998	1,510	1,521	164	71,519	1,674
2008	36,274	2,074	5,703	236	3,084	424	1,791	154	10,578	814	46,852	2,888	2,010	316	48,862	3,204
2009	12,277	1,624	3,950	897	3,992	803	3,118	575	11,060	2,275	23,337	3,899	1,394	688	24,731	4,587
2010	25,682	6,872	40,981	3,933	12,074	1,023	5,831	1,742	58,886	6,698	84,568	13,570	4,003	934	88,571	14,504
2011 ^{f/}	20,466	15,096	39,532	12,891	5,389	3,539	13,484	7,919	58,405	24,349	78,871	39,445	3,876	3,099	82,747	42,544

a/ Most estimates based on carcass surveys with a jack length cut-off. In 2004, CDFG reviewed and updated 1971-2003 escapement estimates to reflect final project reports.

b/ 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.

c/ 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.

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

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

f/ Preliminary.

TABLE B-2. California Central Valley hatchery fall Chinook salmon escapement in numbers of fish.^{a/}

Year or Average	Sacramento Hatcheries								San Joaquin Hatcheries						Central Valley Hatchery Totals	
	Coleman ^{b/}		Feather River ^{b/}		Nimbus ^{c/}		Totals		Mokelumne River		Merced River		Totals		Adults	Jacks
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults ^{d/}	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1971-1975	1,373	1,167	3,882	1,387	7,791	1,311	13,661	4,065	305	156	460	19	765	175	14,427	4,240
1976-1980	4,239	1,292	4,261	1,043	7,845	2,270	17,804	5,040	271	59	346	23	617	82	18,421	5,122
1981-1985	11,557	3,734	6,845	884	10,543	2,444	30,303	7,877	759	734	797	449	1,556	1,183	31,859	9,060
1986-1990	11,507	2,288	5,837	1,947	6,927	1,943	24,271	6,178	278	286	299	140	577	426	24,847	6,604
1991-1995	11,948	2,295	10,537	2,762	7,669	1,664	30,154	6,721	1,077	554	239	233	1,316	788	31,471	7,509
1996	18,848	2,330	6,494	1,613	9,219	2,273	34,561	6,216	1,828	2,055	395	746	2,223	2,801	36,784	9,017
1997	44,590	6,080	13,358	1,770	7,293	2,435	65,241	10,285	6,305	189	838	108	7,143	297	72,384	10,582
1998	42,400	1,951	17,567	1,322	17,797	3,979	77,763	7,253	2,686	585	347	452	3,033	1,037	80,796	8,290
1999	23,194	3,776	12,822	1,104	10,095	5,543	46,112	10,422	1,611	1,542	650	987	2,261	2,529	48,372	12,952
2000	20,793	866	16,470	1,676	11,060	1,893	48,323	4,435	4,637	887	1,615	331	6,252	1,218	54,575	5,653
2001	23,710	988	24,001	871	11,649	4,547	59,360	6,406	4,467	1,427	1,137	523	5,604	1,950	64,964	8,356
2002	61,895	4,029	17,516	2,991	7,762	8,146	87,173	15,166	5,800	2,119	1,250	588	7,050	2,707	94,223	17,873
2003	82,882	5,352	13,615	1,352	13,081	7,032	109,578	13,736	5,108	3,009	392	157	5,500	3,166	115,078	16,902
2004	52,145	17,027	15,769	5,535	15,493	21,390	83,407	43,952	5,477	4,879	456	594	5,933	5,473	89,340	49,425
2005	139,979	2,694	20,597	1,787	24,723	3,437	185,299	7,918	5,035	528	346	75	5,381	603	190,680	8,521
2006	56,819	1,013	13,400	634	9,687	681	79,906	2,328	2,801	1,338	130	20	2,931	1,358	82,837	3,686
2007	11,543	201	5,169	172	4,664	21	21,376	394	1,004	40	70	9	1,074	49	22,450	443
2008	10,181	458	5,031	323	3,300	453	18,512	1,234	116	123	39	37	155	160	18,667	1,394
2009	5,433	719	6,240	3,723	5,863	1,126	17,536	5,568	730	823	109	137	839	960	18,375	6,528
2010	8,666	8,572	17,215	2,757	13,821	2,389	39,702	13,718	3,543	1,733	115	31	3,658	1,764	43,360	15,482
2011 ^{e/}	19,312	23,068	15,925	16,691	7,634	8,963	42,871	48,722	2,402	13,503	99	338	2,501	13,841	45,372	62,563
GOALS ^{f/}	12,000	-	6,000	-	4,000	-	22,000	-	5,000	-	1,000	-	6,000	-	26,000	-

a/ In 2004, CDFG reviewed and updated 1971-2003 adult and jack spawner escapements based on final project reports.

b/ Chinook spawning during the fall; may include spring run fish.

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

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

e/ Preliminary.

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

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

Year or Average	Upper Sacramento River										
	Late Fall ^{a/b/c/}		Winter ^{d/}				Spring				
	Adults	Jacks	RBDD ^{a/c/}		Carcass Survey		Tributary ^{e/} Adults and Jacks ^{h/}	Sacramento River ^{a/f/}		Feather River ^{g/}	
Adults			Jacks	Adults	Jacks	Adults		Jacks	Adults	Jacks	
1971-1975	18,193	1,087	22,863	9,063	--	--	5,194	5,098	1,718	366	-
1976-1980	9,662	1,798	13,499	2,640	--	--	1,201	8,335	2,571	375	-
1981-1985	8,102	1,746	5,027	921	--	--	1,061	9,798	4,241	1,446	133
1986-1990	10,047	1,761	1,369	390	--	--	1,658	8,795	1,930	2,884	406
1991-1995	3,844 ^{i/}	383 ^{i/}	586	78	--	--	2,813	410	165	3,441	465
1999-2000	16,061 ^{i/}	2,478 ^{i/}	940	1,032	--	--	7,768	242	160	4,393	503
2001	20,614	1,199	1,696	3,827	7,443	781	21,623 ^{j/}	981	0 ^{h/}	4,052	83
2002	39,818	765	7,614	1,555	7,047	417	20,198 ^{j/}	430	53	3,982	207
2003	8,122	613	6,172	3,585	7,675	543	21,798 ^{j/}	0	0	8,373	389
2004	12,458	1,574	2,588	4,604	5,786	2,083	12,556 ^{j/}	763	326	3,630	572
2005	14,047	2,141	3,521	1,778	14,683	1,156	21,319 ^{j/}	21	9	1,811 ^{k/}	24 ^{k/}
2006	14,709	351	4,792	2,623	16,764	385	10,669 ^{j/}	0	0	2,052 ^{k/}	9 ^{k/}
2007	11,954	714	3,004	3,140	2,402	131	8,951 ^{j/}	226	22	2,669 ^{k/}	5 ^{k/}
2008	9,946	381	1,504	2,131	2,521	204	11,943 ^{j/}	0	0	1,056 ^{k/}	10 ^{k/}
2009	9,515	460	m/	m/	4,363	53	3,517 ^{j/}	m/	m/	867 ^{k/}	122 ^{k/}
2010	8,894	1,001	m/	m/	1,555	41	2,951 ^{j/}	m/	m/	1,655 ^{k/}	6 ^{k/}
2011 ^{l/}	7,129	1,161	m/	m/	637	187	5,431 ^{j/}	m/	m/	1,831 ^{k/}	138 ^{k/}

a/ Estimated number of jacks and adults based on sampling at Red Bluff Diversion Dam (RBDD) from unpublished CDFG data. Beginning in 1987 for late-fall and winter runs, estimates have been 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/ Variable numbers of late-fall and winter run are trapped at Keswick Dam and spawned 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, then 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 fish spawned at Coleman Hatchery 1991-1997. No data are available for natural spawners, as RBDD gates were raised during the 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 was implemented in 2005. Fish arriving at the hatchery prior to the spring Chinook spawning period were tagged and returned to the river. The spring Chinook escapement estimate is the number of these tagged fish that subsequently returned to the hatchery during the spring Chinook spawning period.

l/ Preliminary.

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

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

Year or Average	Category	Total Inriver Run	Inriver Harvest			Nonlanded Fishery Mortality	Spawning Escapement								
			Indian	Sport	Total		Klamath River			Trinity River			Total		
							Hatchery	Natural	Total	Hatchery	Natural	Total	Hatchery	Natural	Total
1978-1980	Adults	63,306	14,621	2,777	17,398	1,329	3,886	21,277	25,163	3,823	15,593	19,416	7,709	36,871	44,579
	Jacks	23,731	1,379	3,385	4,764	189	544	8,224	8,768	1,515	8,495	10,010	2,059	16,719	18,778
1981-1985	Adults	63,230	17,128	5,096	22,224	1,593	8,812	16,313	25,125	2,934	11,354	14,288	11,746	27,667	39,413
	Jacks	29,811	1,287	6,447	7,734	243	1,162	6,227	7,389	4,888	9,556	14,444	6,050	15,783	21,833
1986-1990	Adults	151,203	36,669	15,145	51,814	3,498	13,194	21,543	34,737	11,912	49,242	61,154	25,106	70,785	95,891
	Jacks	20,227	446	4,924	5,370	139	1,009	3,460	4,469	2,285	7,964	10,248	3,294	11,423	14,718
1991-1995	Adults	80,666	10,574	3,094	13,668	983	12,980	26,594	39,574	5,104	21,339	26,442	18,084	47,932	66,016
	Jacks	12,038	291	2,741	3,032	81	1,140	3,216	4,356	1,134	3,435	4,569	2,274	6,651	8,925
1996-2000	Adults	123,856	24,565	6,817	31,382	2,275	24,549	32,279	56,828	11,421	21,950	33,371	35,970	54,229	90,199
	Jacks	10,332	170	1,805	1,976	52	1,413	2,628	4,042	872	3,391	4,262	2,285	6,019	8,304
2001	Adults	187,333	38,645	12,134	50,779	3,608	37,204	40,944	78,148	17,908	36,890	54,798	55,112	77,834	132,946
	Jacks	11,343	399	1,500	1,899	66	1,364	6,378	7,742	267	1,369	1,636	1,631	7,747	9,378
2002	Adults	160,788 ^{a/}	24,574	10,495	35,069	2,351	23,667	54,225	77,892	3,516	11,410	14,926	27,183	65,635	92,818
	Jacks	9,226	126	870	996	29	1,294	1,529	2,823	1,037	2,338	3,375	2,331	3,867	6,198
2003	Adults	191,949	30,034	9,680	39,714	2,810	31,970	55,423	87,393	29,812	32,219	62,031	61,782	87,642	149,424
	Jacks	3,845	44	814	858	21	290	848	1,138	574	1,254	1,828	864	2,102	2,966
2004	Adults	78,943	25,803	4,003	29,806	2,325	10,582	10,711	21,293	12,399	13,120	25,519	22,982	23,831	46,813
	Jacks	9,646	168	2,741	2,909	71	937	846	1,783	1,044	3,839	4,883	1,980	4,685	6,665
2005	Adults	65,227	8,016	1,985	10,001	738	13,955	13,554	27,509	13,744	13,235	26,979	27,699	26,789	54,488
	Jacks	2,296	70	1,030	1,100	27	42	398	440	59	670	729	101	1,068	1,169
2006	Adults	61,374	10,283	62	10,345	1,344	11,604	14,264	25,868	7,918	15,899	23,817	19,522	30,163	49,685
	Jacks	26,935	415	5,527	5,942	149	2,386	6,516	8,902	4,076	7,866	11,942	6,462	14,382	20,844
2007	Adults	132,131	27,573	6,312	33,885	2,526	16,969	21,292	38,261	18,081	39,378	57,459	35,050	60,670	95,720
	Jacks	1,684	21	369	390	10	180	232	412	33	839	872	213	1,071	1,284
2008	Adults	70,554	22,259	1,919	24,178	24,178	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	11,555	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 ^{b/}	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 ^{b/}	Adults	103,005	26,371	4,164	30,535	2,379	8,490	18,013	26,503	13,846	29,742	43,588	22,336	47,755	70,091
	Jacks	85,840	1,304	9,996	11,300	317	9,549	24,791	34,340	1,875	38,008	39,883	11,424	62,799	74,223
GOAL	Adults														≥40,700 ^{c/}

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

b/ Preliminary.

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

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

Year	Area ^{a/}	Spring Run			Fall Run		
		Jack	Adult	Total	Jack	Adult	Total
2005	Commercial:Estuary	0	0	0	0	0	0
	Upper Klamath	0	0	0	0	0	0
	Subsistence:Estuary	0	477	477	21	2,293	2,314
	Middle Klamath	0	518	518	5	464	469
	Upper Klamath	0	1,320	1,320	33	2,851	2,884
	Trinity River	17	1,858	1,858	11	2,409	2,420
	Total	33	7,286	7,302	70	8,017	8,087
2006	Commercial:Estuary	0	0	0	0	0	0
	Upper Klamath	0	0	0	0	0	0
	Subsistence:Estuary	8	302	310	30	2,726	2,756
	Middle Klamath	3	1,113	1,116	93	1,310	1,403
	Upper Klamath	36	1,257	1,293	147	2,086	2,233
	Trinity River	58	1,632	1,690	145	4,161	4,306
	Total	105	4,304	4,409	415	10,283	10,698
2007	Commercial:Estuary	0	2,300	2,300	1	21,100	21,101
	Upper Klamath	0	0	0	0	0	0
	Subsistence:Estuary	0	1,363	1,363	15	2,375	2,390
	Middle Klamath	0	200	200	1	425	426
	Upper Klamath	0	631	631	4	1,375	1,379
	Trinity River	6	1,349	1,355	0	2,298	2,298
	Total	6	5,843	5,849	21	27,573	27,594
2008	Commercial:Estuary	0	323	323	201	11,804	12,005
	Middle Klamath	0	0	0	11	154	165
	Subsistence:Estuary	0	295	295	101	5,906	6,007
	Middle Klamath	0	722	722	62	870	932
	Upper Klamath	9	685	694	114	1,612	1,726
	Trinity River	77	1,328	1,405	152	1,914	2,066
	Total	86	3,353	3,439	641	22,260	22,901
2009	Commercial:Estuary	0	21	21	34	15,463	15,497
	Middle Klamath	0	0	0	2	243	245
	Subsistence:Estuary	0	763	763	9	4,002	4,011
	Middle Klamath	2	487	489	18	2,202	2,220
	Upper Klamath	0	451	451	19	2,324	2,343
	Trinity River	74	1,764	1,838	96	4,153	4,249
	Total	76	3,486	3,562	178	28,387	28,565
2010	Commercial:Estuary	0	259	259	14	15,234	15,248
	Middle Klamath	0	0	0	3	83	86
	Subsistence:Estuary	0	812	812	6	6,491	6,497
	Middle Klamath	0	1,421	1,421	62	1,763	1,825
	Upper Klamath	6	781	787	91	2,615	2,706
	Trinity River	4	1,740	1,744	252	3,701	3,953
	Total	10	5,013	5,023	428	29,887	30,315
2011 ^{b/}	Commercial:Estuary	0	33	33	372	14,931	15,303
	Middle Klamath	0	0	0	28	255	283
	Subsistence:Estuary	8	398	406	429	1,915	2,344
	Middle Klamath	12	1,234	1,246	243	1,942	2,185
	Upper Klamath	9	875	884	224	2,047	2,271
	Trinity River	108	2,282	2,390	323	4,966	5,289
	Total	137	4,822	4,959	1,619	26,056	27,675

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

b/ Preliminary.

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

Year	Shasta River ^{a/}		Scott River ^{b/c/}		Salmon River ^{b/}	
	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	1,261	87	2,114	394	2,478	356
2011 ^{h/}	213	11,187	3,016	2,499	3,674	1,819

a/ From 1930-1937, 1957-1987 and 1991-1995, Shasta counts were made near the river mouth. From 1938-1955, they were made 6.5 miles upstream from the mouth; considerable spawning occurred downstream from the racks in these years. From 1988-1990, escapements were estimated from mark-recapture data (spawning surveys). 1991- 2011 estimates were generated from weir counts.

b/ In 1991, estimates were generated from weir counts. In 1992-2007, estimates were generated from carcass surveys. In 2008-2011, estimates were generated from a combination of video weir counts and carcass surveys.

c/ In 2005 and 2007, redd counts were used in lieu of carcass surveys.

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)		Sprawl Creek ^{a/b/d/} (Eel River)		Tomki Creek ^{e/} (Eel River)	Russian ^{f/} River	Lagunitas ^{g/} Watershed
	Chinook	Coho	Chinook	Coho	Chinook	Chinook	Coho Redds
1978-1979	-	-	534	23	-	-	-
1979-1980	-	-	572	0	2,410	-	-
1980-1981	-	-	164	4	317	-	-
1981-1982	23	0	121	0	1,153	-	-
1982-1983	68	0	169	1	1,807	-	-
1983-1984	137	0	82	0	-	-	-
1984-1985 ^{h/}	16	0	67	13	1,292	-	-
1985-1986	514	14	320	0	3,558	-	-
1986-1987 ^{h/}	90	3	307	13	2,173	-	-
1987-1988	117	29	2,187	4	3,666	-	-
1988-1989	69	7	339	12	556	-	-
1989-1990 ^{h/}	9	9	89	14	-	-	-
1990-1991	0	3	0	0	-	-	-
1991-1992 ^{h/}	8	0	159	0	3	-	-
1992-1993 ^{h/}	57	1	142	2	15	-	-
1993-1994	20	0	171	36	5	-	-
1994-1995	33	3	52	0	21	-	-
1995-1996 ^{h/}	93	4	136	8	69	-	86
1996-1997	129	4	106	8	84	-	254
1997-1998	55	1	97	0	39	-	253
1998-1999	66	0	79	11	45	-	184
1999-2000 ^{h/}	162	1	34	1	24	-	203
2000-2001 ^{h/}	79	3	12	0	50	1,445	204
2001-2002	45	6	136	25	162	1,383	286
2002-2003	402	1	267	17	5	5,474	158
2003-2004 ^{h/}	79	1	106	8	137	6,103	383
2004-2005 ^{h/}	86	0	199	36	115	4,788	496
2005-2006	270	0	201	13	77	2,572	190
2006-2007 ^{i/}	152	2	37	9	20	3,410	338
2007-2008 ^{i/}	99	1	70	19	69	1,963	148
2008-2009 ^{i/}	65	0	158	40	17	1,125	26
2009-2010 ^{i/}	36	0	314	2	15	1,801	51
2010-2011 ^{i/}	131	2	273	60	151	2,414	80
2011-2012 ^{h/i/j/}	76	1	20	98	92	3,088	103 ^{k/}

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 is 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, Sprawl, and Tomki creeks.

i/ Cañon and Sprawl creek totals exclude salmonids that were unidentifiable to species due to poor visibility or advanced decomposition.

j/ Preliminary data.

k/ Redd counts as of January 31, 2012.

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	9 ^{a/}	1 ^{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 ^{b/}	12	2	49	6	17	3	35	5

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	Hatchery	Total	Jacks ^{b/}	Natural	Hatchery	Total	Jacks ^{b/}
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 ^{c/}	9.9 ^{d/}	NA	NA	NA	8.9	7.7	16.6	5.4

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

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

c/ Preliminary.

d/ 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.

TABLE B-10. Rogue River fall Chinook carcass counts in numbers of fish.

Year or Avg.	Carcass Counts		
	Adults	Jacks	Total
1977-1980	5,256	1,004	6,259
1981-1985	3,906	1,009	4,915
1986-1990	16,797	1,527	18,324
1990-1995	4,387	316	4,703
1996	2,448	121	2,569
1997	1,643	68	1,711
1998	3,601	40	3,641
1999	2,493	157	2,650
2000	3,366	226	3,592
2001	6,380	772	7,152
2002	11,836	905	12,741
2003	14,620	983	15,603
2004	5,326 ^{a/}	250	5,576
2005 ^{b/}	-	-	-
2006 ^{b/}	-	-	-
2007 ^{b/}	-	-	-
2008 ^{b/}	-	-	-
2009 ^{b/}	-	-	-
2010 ^{b/}	-	-	-
2011 ^{b/}	-	-	-

a/ 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.

b/ Surveys were not conducted.

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 ^{b/}	164	5	48	2	15	1	29	0	a/	a/	40	2	270	21	53	1	a/	a/	92	5	

a/ Surveys were not conducted.

b/ Preliminary.

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

Year or Average	Minimum Inriver Run Size	Tributary Runs											
		Lower River Catch ^{a/}		Willamette					Sandy	Cowlitz ^{c/}	Lewis ^{c/}	Kalama	Hatchery Escapement ^{d/}
		Commercial	Sport	Run Size	L. Willamette Sport Catch	Will. Falls Escapement ^{b/}							
1971-1975	84,000	13,800	3,700	53,300	17,000	34,300	--	11,900	200	1,100	20,000		
1976-1980	92,160	6,160	2,720	51,240	14,380	31,420	975	19,680	2,980	2,020	26,580		
1981-1985	130,000	6,680	1,840	67,700	15,620	35,580	1,940	19,960	4,220	3,740	28,840		
1986-1990	175,563	11,980	4,330	103,100	21,140	58,760	2,425	10,691	11,340	1,877	32,460		
1991-1995	119,467	3,680	2,875	66,039	18,180	32,580	4,920	6,801	5,870	1,976	23,700		
1996	54,241	149	-	33,358	6,100	20,400	3,801	1,787	1,730	627	15,900		
1997	53,345	300	-	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	-	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	149,987	7,900	5,800	120,164	10,800	83,100	5,905	5,215	3,520	2,932	58,300		
2003	163,370	1,900	8,200	123,352	13,500	87,600	5,615	15,998	5,057	4,565	45,626		
2004	195,851	8,500	7,500	143,242	12,000	95,200	12,680	16,521	7,426	4,339	67,791		
2005	85,984	3,400	4,400	59,495	5,800	35,453	7,668	9,358	3,511	3,389	33,102		
2006	91,034	3,000	2,900	59,311	7,200	36,851	4,382	6,967	7,311	5,482	34,428		
2007	69,330	1,900	2,600	39,943	5,700	22,818	2,813	3,974	7,596	8,036	29,375		
2008	44,451	100	700	27,016	4,600	14,151	5,994	2,986	2,252	1,617	15,757		
2009	53,850	349	2,000	39,400	4,500	25,795	2,429	5,977	1,485	402	18,805		
2010	154,795	3,349	6,200	110,500	22,700	65,293	7,710	8,830	2,337	918	48,591		
2011 ^{e/}	99,735	2,349	2,500	80,254	22,800	43,748	4,348	4,064	1,436	764	32,371		

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

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

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

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

e/ Preliminary.

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

Year or Avg.	Inriver Run Size	Lower River Catch ^{b/}		Bonneville Dam Count	Zone 6 Sport	Mainstem Treaty Indian Catch		Snake River Escapement ^{d/}		Rock Island Dam Count		Hatchery Escapement ^{e/}
		Commercial	Sport			Commercial ^{c/}	Ceremonial/ Subsistence	Hatchery	Wild	Hatchery	Wild	
1976-1980	55,960	185	0	55,775	-	259	1,714	2,903	6,413	2,800	2,241	2,613
1981-1985	70,440	1,706	393	68,342	-	1,024	2,545	7,508	10,787	4,831	3,239	10,849
1986-1990	108,167	2,378	1,357	104,433	-	186	6,771	19,648	10,192	5,881	3,089	18,780
1991-1995	63,404	511	711	62,183	-	15	3,730	7,097	7,015	5,698	1,546	11,386
1996	55,552	46	10	55,496	-	0	2,911	3,179	3,788	1,959	371	5,402
1997	124,321	53	16	124,252	-	14	8,309	39,388	5,310	4,767	697	27,191
1998	44,308	27	14	44,267	-	1	2,224	6,707	7,587	2,735	377	8,813
1999	43,067	28	16	43,023	-	1	1,983	3,703	2,856	3,272	370	5,786
2000	186,715	251	124	186,340	-	1,379	9,973	29,568	8,255	13,954	829	21,623
2001	440,336	2,538	22,719	415,079	167	43,790	10,985	141,121	45,337	31,314	4,305	49,869
2002	335,214	10,151	16,268	308,795	1,716	24,257	9,208	67,312	30,248	19,976	1,622	35,042
2003	242,605	3,493	9,611	229,501	1,860	9,205	9,090	54,951	32,365	12,046	1,174	24,547
2004	221,675	6,233	17,146	198,296	1,616	8,370	9,114	58,624	21,401	9,525	1,744	26,447
2005	106,911	2,289	7,235	97,397	388	1	6,163	22,932	10,127	12,882	3,223	19,373
2006	132,583	2,238	4,187	126,158	1,245	0	8,401	20,248	9,490	10,245	1,092	16,752
2007	86,247	1,491	3,927	80,829	1,368	3	5,624	23,308	7,100	10,106	803	15,700
2008	178,629	6,292	19,612	151,895	2,196	12,314	8,247	55,587	17,586	19,575	1,178	35,314
2009	169,296	4,543	15,246	147,489	290	0	11,083	49,836	14,975	20,964	1,855	32,534
2010	315,345	9,281	23,535	277,389	3,512	25,008	12,807	97,770	26,643	22,291	2,110	51,730
2011 ^{f/}	221,157	3,929	9,506	205,431	2,379	7	13,235	72,262	24,562	17,625	2,682	27,170
GOAL				115,000				35,000 ^{g/}	25,000 ^{g/}			

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

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

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

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

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

f/ Preliminary.

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

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

Year or Avg.	Inriver Run Size	Lower River Catch ^{b/}		Bonneville Dam Count	Zone 6 Sport	Mainstem Treaty Indian Catch		
		Commercial ^{c/}	Sport			Commercial ^{d/}	Ceremonial/ Subsistence	Rock Island Dam Count
1976-1980	22,320	81	-	22,485	-	38	1,047	16,326
1981-1985	16,709	55	-	16,767	-	304	669	10,010
1986-1990	21,036	71	10	21,166	-	708	194	14,563
1991-1995	12,984	30	15	12,988	-	-	227	10,748
1996	12,080	15	34	12,031	0	0	374	9,417
1997	17,709	6	16	18,252	0	0	270	10,063
1998	15,536	1	27	16,304	0	0	335	11,225
1999	21,867	1	51	21,815	0	0	395	18,588
2000	22,595	0	17	22,578	0	0	209	20,218
2001	52,960	1	64	52,895	0	150	542	48,844
2002	89,524	8	1,447	88,069	113	74	2,019	86,825
2003	83,058	36	1,945	81,077	417	3,587	710	81,543
2004	65,623	222	1,246	63,970	261	8,004	390	62,311
2005	60,272	2,787	1,621	55,864	487	6,415	1,227	54,033
2006	77,573	4,828	4,926	67,819	346	15,771	548	61,821
2007	37,035	1,122	2,214	33,699	194	4,564	811	28,222
2008	55,532	1,429	2,140	51,963	1,072	8,317	712	38,171
2009	53,881	2,546	2,341	48,994	193	10,441	1,209	44,295
2010	72,346	4,740	2,738	64,638	156	15,569	0 ^{e/}	47,220
2011 ^{f/}	80,574	5,004	5,576	69,994	208	20,645	0 ^{e/}	44,432
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 catch and release mortality in selective fisheries beginning in 2002.

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

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

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

f/ Preliminary.

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

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

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

Year or Average	Inriver Run Size	Harvest				Escapement	
		Bonneville Dam Count	Treaty Indian Commercial and Subsistence	Non-Indian		Natural	Hatchery ^{c/}
				Commercial ^{b/}	Sport		
1971-1975	105,700	67,600	29,000	37,900	300	2,900	17,000
1976-1980	116,522	83,000	32,533	31,794	131	3,884	21,972
1981-1985	63,342	49,780	24,637	9,747	580	2,711	15,955
1986-1990	16,673	10,200	6,080	2,920	820	1,500	4,600
1991-1995	30,192	25,564	11,360	2,067	1,280	1,460	9,700
1996	33,137	30,300	21,100	1,700	900	1,300	7,700
1997	27,377	23,300	10,329	0	2,981	4,612	8,688
1998	20,158	17,100	6,592	197	2,556	2,731	3,224
1999	50,189	46,800	28,197	258	2,617	3,338	14,488
2000	20,527	18,400	7,903	1,141	897	4,085	6,257
2001	124,951	115,800	52,124	3,693	3,302	5,063	36,663
2002	158,299	145,200	48,350	11,485	6,654	8,069	67,436
2003	180,592	161,735	48,204	9,850	7,659	27,894	56,935
2004	175,245	164,482	59,941	3,690	5,614	14,084	68,932
2005	103,526	98,322	49,471	3,981	3,049	4,667	31,977
2006	27,917	21,197	13,400	1,774	654	1,931	9,889
2007	14,549	13,072	5,034	474	306	2,870	5,899
2008	93,860	82,331	43,933	7,100	3,526	2,765	33,722
2009	48,970	40,268	21,622	5,262	1,523	4,103	13,680
2010	130,767	115,993	58,824	11,236	3,299	4,843	45,279
2011 ^{d/}	81,000	65,905	32,204	11,018	1,183	3,813	29,888
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 ^{e/}	128,611	0	15,930	12,411	47,127	53,143
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 ^{c/}	13,120	0	776	3,416	8,928	0
GOAL					5,700 ^{d/}	

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

b/ Includes tributary catches.

c/ Preliminary estimates based on inseason run updates.

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

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

Year or Average	Inriver Run Size	Bonneville Dam Count	Harvest			Escapement							
			Treaty Indian Commercial and Subsistence	Non-Indian		Natural Escapement ^{c/}	Up. Col. Escapement ^{d/}	Hatchery	Deschutes above/below Sheares		Ice Harbor Dam Count	Total Lower Granite Count	SRW L. Granite Dam Count ^{f/}
				Commercial	Sport ^{b/}				McNary Dam Count	Falls ^{e/}			
1971-1975	110,500	80,400	35,100	29,300	3,100	36,800	NA	2,600	NA	39,500	5,600	-	-
1976-1980	92,301	72,360	32,160	19,180	980	29,480	NA	1,980	NA	31,080	1,160	532	532
1981-1985	111,873	94,120	26,700	13,880	3,020	46,060	NA	8,100	NA	51,042	1,583	586	450
1986-1990	291,407	222,337	100,379	61,499	13,613	90,709	NA	13,231	7,081	107,252	4,369	691	289
1991-1995	105,302	99,028	20,813	5,000	5,095	51,424	NA	9,419	7,342	61,362	3,352	903	473
1996	143,155	135,499	29,868	3,717	8,918	59,598	NA	15,905	10,233	73,929	3,810	1,308	639
1997	161,735	152,941	42,637	1,429	11,506	68,889	NA	13,114	20,208	67,192	2,752	1,451	797
1998	141,575	137,509	33,760	770	8,137	54,297	NA	18,798	15,908	63,791	4,220	1,909	306
1999	165,889	155,756	38,822	2,133	15,173	48,372	NA	30,272	7,389	78,356	6,586	3,381	905
2000	156,595	145,104	36,501	5,551	10,545	66,512	58,513	10,841	4,985	66,378	6,509	3,602	1,148
2001	232,366	219,801	35,422	8,151	12,648	92,194	72,738	21,143	12,817	110,517	13,635	8,915	5,163
2002	279,548	257,711	57,405	6,881	25,651	123,446	99,728	17,299	11,907	141,682	15,319	12,351	2,116
2003	374,154	341,208	49,060	15,930	25,918	176,865	146,437	12,356	13,413	179,970	20,903	11,732	3,856
2004	362,804	336,585	46,566	19,760	22,276	148,028	122,417	23,137	10,197	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	14,937	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	14,223	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	12,721	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	1,262
2010	324,908	247,620	59,115	13,536	24,624	163,998	114,230	28,684	9,275	146,924	46,541	41,815	9,583
2011 ^{g/}	335,700	289,650	100,710	27,041	31,537	75,341	NA	23,117	NA	161,191	31,405	25,249	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/ Entire time series of Deschutes escapement revised in 2010 to match Deschutes River Chinook Spawner Escapement Goal using U.S. v. Oregon Technical Advisory Committee 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 escapement of 60,000 beginning in 2008 for increased production in the Snake basin. However, starting in 1994 inriver fisheries were managed primarily for ESA consultation standards.

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

Year or Average	Inriver Run Size	Harvest				Escapement	
		Bonneville Dam Count	Treaty Indian Commercial and Subsistence	Non-Indian		Natural	Hatchery ^{c/}
				Commercial	Sport ^{b/}		
1982-1985	10,275	4,925	1,875	1,675	100	0	3,450
1986-1990	60,894	24,780	16,288	26,547	2,277	4,253	9,194
1991-1995	32,352	19,360	6,014	4,151	1,622	7,327	10,631
1996	59,698	38,100	12,443	5,306	3,387	15,618	15,868
1997	58,932	36,600	11,596	3,320	6,517	15,916	15,808
1998	37,328	29,900	5,570	1,063	5,697	11,380	8,401
1999	50,788	40,400	10,581	1,543	5,927	17,213	7,334
2000	37,191	25,600	7,186	3,739	3,507	10,135	7,884
2001	76,504	48,100	16,821	7,023	9,580	14,600	13,701
2002	108,198	57,600	24,358	9,437	12,737	27,005	21,946
2003	150,042	97,179	27,830	20,432	12,804	38,204	24,175
2004	122,496	79,866	23,392	9,178	11,167	27,779	26,210
2005	100,333	60,464	23,158	6,590	10,727	14,271	30,991
2006	80,470	31,402	22,705	4,577	3,567	12,501	19,745
2007	47,556	29,029	13,369	6,665	2,528	5,559	13,053
2008	76,297	44,210	23,260	10,349	5,648	6,813	21,409
2009	73,069	41,298	21,213	8,508	7,433	9,320	22,003
2010	78,937	50,878	22,009	3,719	5,960	7,904	33,391
2011 ^{d/}	77,000	44,528	15,517	8,541	10,433	17,078	20,657
GOAL							Hatchery Production

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

b/ Includes tributary and mainstem catches.

c/ Little White Salmon and Bonneville Hatcheries.

d/ Preliminary based on inseason run updates.

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

Year	Minimum Inriver Run Size	Below Bonneville Dam					Above Bonneville Dam						Total Treaty Indian & Non-Indian		
		Non-Indian Sport		Non-Indian Commercial		Bonneville Dam Counts	Non-Indian Sport		Treaty Indian			Non-Indian Total			
		Tributary ^{a/}	Buoy 10 Mainstem ^{b/}	Select Area ^{c/}	Mainstem		Mainstem	Tributary ^{d/}	Ticketed Commercial ^{e/}	Non-Ticketed Public Sales	Ceremonial & Subsistence ^{f/}	Sport		Commercial	
Spring Chinook^{g/}															
'79-'80	146,560	11,427	h/	1,150	-	2,900	55,775	-	-	259	--	1,714	12,653	2,900	17,525
'81-'85	200,440	19,568	h/	2,233	-	8,197	68,342	-	925	1,024	--	2,545	22,726	8,197	34,492
'86-'90	283,730	39,688	h/	5,686	-	14,138	104,433	-	3,366	186	--	6,771	48,741	14,138	69,836
'91-'95	182,871	33,201	h/	3,011	376	4,042	62,183	-	1,227	15	--	3,730	37,438	4,343	45,526
'96-'00	149,830	12,669	h/	93	2,731	430	90,676	-	4,163	279	--	5,080	16,925	3,161	25,445
2001	541,002	17,419	h/	27,014	9,769	5,279	415,079	167	56,651	22,019	21,696	10,985	101,251	15,048	170,999
2002	485,201	28,588	h/	22,045	12,251	17,407	308,795	1,716	25,837	17,930	6,324	9,208	78,187	29,658	141,306
2003	405,975	31,924	h/	17,781	8,800	4,658	229,501	1,860	21,105	6,363	2,842	9,090	72,671	13,458	104,424
2004	417,526	35,584	h/	24,638	11,643	14,489	198,296	1,616	22,471	5,256	3,114	9,114	84,310	26,132	127,926
2005	192,895	16,136	h/	11,635	2,563	5,647	97,397	388	6,545	1	--	6,163	34,703	8,210	49,077
2006	223,617	18,826	h/	7,087	7,581	5,106	126,158	1,245	3,686	0	--	8,401	30,844	12,687	51,931
2007	155,577	14,549	h/	6,527	6,968	3,336	80,829	1,368	5,082	3	--	5,624	27,526	10,304	43,457
2008	223,080	8,094	h/	20,312	4,586	6,007	151,895	2,196	19,341	12,314	--	8,247	49,943	10,593	81,096
2009	223,146	10,946	h/	17,246	4,275	4,521	147,489	290	17,451	0	--	11,083	45,932	8,796	65,811
2010	470,140	38,771	h/	29,735	26,142	10,807	277,389	3,512	38,083	25,008	--	12,807	110,101	36,949	184,865
2011 ^{h/}	320,892	24,666	h/	12,006	11,855	5,759	205,431	2,379	23,906	7	--	13,235	62,957	17,614	93,813
Summer Chinook^{g/h/}															
'79-'80	22,320	-	-	-	-	81	22,485	-	-	38	--	1,047	0	81	1,165
'81-'85	16,709	-	-	-	-	55	16,767	-	-	304	--	669	0	55	1,028
'86-'90	21,036	-	-	8	-	71	21,166	-	-	1,180	--	194	8	71	980
'91-'95	12,984	-	-	15	-	30	12,988	-	-	-	--	227	15	30	271
'96-'00	17,957	-	-	29	-	5	18,196	-	-	-	--	317	37	5	358
2001	52,960	-	-	64	-	1	52,895	-	82	150	--	542	146	1	839
2002	89,524	-	-	1,447	-	8	88,069	113	197	74	--	2,019	1,757	8	3,858
2003	83,058	-	-	1,945	36	0	81,077	417	223	3,587	--	710	2,584	36	6,917
2004	65,623	-	-	1,246	3	219	63,970	261	157	8,004	--	390	1,663	222	10,279
2005	60,272	-	-	1,621	0	2,787	55,864	487	338	6,415	--	1,227	2,446	2,787	12,875
2006	77,573	-	-	4,926	9	4,819	67,819	346	216	15,771	--	548	5,488	4,828	26,635
2007	37,035	-	-	2,214	0	1,122	33,699	194	294	4,564	--	811	2,702	1,122	9,199
2008	55,532	-	-	2,140	59	1,370	51,963	1,072	188	8,317	--	712	3,400	1,429	13,858
2009	53,881	-	0	2,341	22	2,524	48,994	193	185	10,441	--	1,209	2,719	2,546	16,915
2010	72,346	-	0	2,738	20	4,720	64,638	156	48	15,569	--	k/	2,942	4,740	23,251
2011 ^{h/}	80,574	-	0	5,576	0	5,004	69,994	208	55	20,645	--	k/	5,839	5,004	31,488

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

Year	Minimum Inriver Run Size	Below Bonneville Dam						Above Bonneville Dam						Total Treaty Indian & Non-Indian	
		Non-Indian Sport				Non-Indian Commercial		Non-Indian Sport		Treaty Indian			Non-Indian Total		
		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/}	Sport		Commercial
		Fall Chinook ^{h/}													
'79-'80	327,458	3,651	-	1,155	20,800	73,253	135,878	500	--	32,568	--	--	5,306	113,253	151,127
'81-'85	307,206	4,158	7,176	1,528	8,560	45,490	150,768	2,795	--	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	4,765	5,692	37,056	197,876	360,441
'91-'95	240,267	3,541	6,224	2,633	1,230	14,693	145,489	4,150	584	33,408	4,732	658	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	606	24,077	10,265	94,970
2001	548,736	2,971	12,287	8,683	4,200	22,938	400,410	7,922	2,800	79,959	31,397	365	34,663	27,138	173,522
2002	733,340	7,789	18,273	21,235	7,899	34,428	474,648	11,171	5,940	96,277	33,918	457	64,408	42,327	237,387
2003	893,926	11,999	14,873	25,931	9,360	54,620	610,336	9,267	4,490	94,822	31,107	683	66,560	63,980	257,152
2004	799,024	8,379	15,201	16,968	12,400	40,373	583,269	10,297	4,215	111,833	15,379	416	55,060	52,773	235,461
2005	584,009	7,810	9,983	20,111	8,677	26,231	417,057	9,110	4,307	92,463	22,058	570	51,321	34,908	201,320
2006	422,433	7,052	1,620	13,447	4,822	23,144	299,161	5,136	3,969	58,842	18,849	391	31,224	27,966	137,272
2007	219,628	2,700	3,389	7,888	3,650	11,685	159,815	4,914	2,019	34,001	11,085	270	20,910	15,335	81,601
2008	448,985	3,499	7,764	10,881	12,495	27,678	314,995	7,022	2,647	90,968	18,055	40	31,813	40,173	181,049
2009	428,981	7,616	4,218	14,954	10,973	32,668	283,691	8,124	3,330	63,498	12,008	15	38,242	43,641	157,404
2010	657,083	8,074	6,473	16,948	18,137	30,712	467,524	13,527	3,307	118,447	13,029	27	48,329	48,849	228,681
2011 ^{h/}	648,941	7,647	9,603	31,624	25,037	50,606	401,576	11,279	0	109,655	19,834	550	60,153	75,643	265,835
Total Chinook															
'79-'80	496,338	13,253	-	1,728	20,800	39,608	214,138	500	--	16,581	--	2,760	15,306	59,608	94,254
'81-'85	524,355	23,726	7,176	3,761	8,560	53,742	235,877	1,677	925	50,216	--	8,239	32,959	62,302	153,716
'86-'90	908,480	46,071	20,641	9,813	16,059	196,025	384,406	5,825	3,454	119,758	4,765	12,656	85,804	212,085	431,257
'91-'95	436,121	36,741	6,224	5,658	1,531	18,765	220,660	4,150	1,811	33,424	4,732	4,482	53,340	20,295	116,273
'96-'00	463,384	14,067	6,906	8,888	5,650	7,781	317,708	5,084	6,093	38,676	21,746	5,881	41,038	13,431	120,773
2001	1,142,698	20,390	12,287	35,761	13,969	28,218	868,384	8,089	59,533	102,128	53,093	11,892	136,060	42,187	345,361
2002	1,308,065	36,377	18,273	44,727	20,150	51,843	871,512	13,000	31,974	114,281	40,242	11,684	144,351	71,993	382,551
2003	1,382,959	43,923	14,873	45,657	18,196	59,278	920,914	11,544	25,818	104,772	33,949	10,483	141,815	77,474	368,493
2004	1,282,174	43,963	15,201	42,852	24,046	55,081	845,535	12,174	26,843	125,093	18,493	9,920	141,033	79,127	373,666
2005	837,176	23,946	9,983	33,367	11,240	34,665	570,318	9,984	11,190	98,879	22,058	7,960	88,470	45,905	263,272
2006	723,623	25,878	1,620	25,460	12,412	33,069	493,138	6,727	7,871	74,613	18,849	9,340	67,556	45,481	215,838
2007	412,239	17,249	3,389	16,629	10,618	16,143	274,343	6,476	7,395	38,568	11,085	6,705	51,138	26,761	134,257
2008	727,597	11,593	7,764	33,333	17,140	35,055	518,853	10,290	22,176	111,599	18,055	8,999	85,156	52,195	276,003
2009	706,008	18,562	4,218	34,541	15,270	39,713	480,174	8,607	20,966	73,939	12,008	12,307	86,893	54,983	240,130
2010	1,199,569	46,845	6,473	49,422	44,299	46,239	809,551	17,195	41,438	159,024	13,029	12,834	161,372	90,538	436,797
2011 ^{h/}	1,050,407	32,313	9,603	49,206	36,892	61,369	677,001	13,866	23,961	130,307	19,834	13,785	128,949	98,261	391,136

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

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

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

Year or Average	Minimum Inriver Run Size	Below Bonneville Dam					Above Bonneville Dam			
		Lower River Catch			Lower River Escapement		Bonneville Dam Counts ^{e/}	Mainstem Commercial Treaty Catch	Zone 6 Escapement ^{f/}	Hatchery Escapement
		Commercial	Recreational		Hatchery ^{c/}	Tributary Dam Counts ^{d/}				
			Buoy 10	Mainstem ^{b/}						
1971-1975	373.4	199.4	-	11.8	117.1	9.5	35.7	9.1	26.6	11.6
1976-1980	263.3	123.6	-	10.1	102.2	3.6	23.8	2.6	21.2	7.0
1981-1985	305.3	132.1	30.6	11.4	101.0	4.6	31.9	2.6	29.2	12.5
1986-1990	688.4	392.2	82.3	13.9	147.6	5.8	46.3	5.5	40.7	11.5
1991-1995	305.9	115.8	55.9	10.7	96.0	3.7	23.6	2.0	21.6	6.1
1996	113.0	26.2	4.5	3.8	62.2	0.6	15.7	0.7	15.0	1.4
1997	149.1	20.4	20.4	11.6	69.7	2.8	24.2	0.6	23.6	4.4
1998	168.4	23.0	3.2	6.7	87.9	1.3	46.3	1.5	44.8	11.3
1999	274.2	79.1	9.0	19.9	124.5	1.0	40.7	2.3	38.4	10.0
2000	548.2	168.4	21.5	37.7	288.6	6.2	85.8	6.3	79.5	26.6
2001	1,108.3	253.1	132.0	78.0	377.3	8.2	259.8	5.4	254.4	80.6
2002	499.9	163.0	6.2	27.4	211.1	3.7	88.6	1.6	86.9	2.9
2003	677.7	257.3	54.4	23.6	205.4	11.2	125.7	5.8	120.0	3.9
2004	442.6	119.6	15.2	13.6	173.5	5.6	115.0	10.3	104.8	6.2
2005	341.0	94.8	6.9	10.5	142.3	3.3	83.3	4.9	78.5	2.3
2006	386.2	63.4	3.7	16.5	191.1	9.5	102.1	8.1	94.1	0.7
2007	336.9	40.3	8.4	24.2	161.0	10.5	92.5	8.0	84.5	2.0
2008	494.3	60.4	8.6	42.8	240.9	6.2	135.5	21.6	113.9	1.1
2009	729.8	124.2	48.1	39.8	260.4	32.3	244.9	8.9	236.0	2.4
2010 ^{g/}	440.4	76.3	8.0	24.2	188.9	22.3	102.7	7.1	95.6	0.6
2011 ^{g/}	352.0	59.0	7.6	23.5	108.3	8.3	145.3	33.3	112.0	0.6
GOAL					Hatchery Production				Hatchery Production	

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

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

c/ Includes hatcheries operated by all agencies.

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

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

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

g/ Preliminary.

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

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

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

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

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

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

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

f/ Preliminary.

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

Year or Average	Non-local Stocks	Terminal Catch		Spawning Escapement		Terminal Run Size ^{d/}
	Gillnet Catch ^{a/}	Gillnet	Sport ^{b/}	Natural ^{c/}	Hatchery	
1976-1980	8,660	14,496	419	1,995	4,529	21,439
1981-1985	1,011	7,331	589	1,588	5,398	14,906
1986-1990	2,521	18,173	1,578	5,596	22,458	47,805
1991-1995	1,162	28,082	2,823	2,818	17,086	50,809
1996	-	37,065	3,024	2,153	12,079	54,321
1997	-	12,311	2,404	3,852	13,729	32,296
1998	-	6,765	2,178	3,114	8,658	20,715
1999	-	265	1,906	1,360	6,966	10,497
2000	-	5,902	1,399	2,303	10,455	20,059
2001	-	5,444	2,121	2,161	10,099	19,825
2002	36	9,452	2,537	1,729	13,680	27,398
2003	220	7,488	3,242	2,732	14,628	28,090
2004	-	4,349	3,851	2,838	21,444	32,482
2005	-	6,523	6,630	2,510	18,177	33,840
2006	-	12,334	6,442	4,258	24,209	47,243
2007	-	4,112	2,579	2,346	13,400	22,437
2008	-	3,595	2,904	1,900	14,891	23,290
2009	-	6,868	4,552	2,847	19,831	34,098
2010 ^{e/}	-	6,903	3,217	3,395	23,468	36,983
2011 ^{e/}	1,857	17,059	NA	NA	NA	NA
GOAL				3,393 ^{f/}	9,800 ^{g/}	

a/ Non-local gillnet is catch in Area 2G prior to Aug. 16.

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

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

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

e/ Preliminary.

f/ MSY spawning escapement objective established in FMP Amendment 16; previously a WDFW goal of 4,350.

g/ 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	15,011	2,842	5,800	14,328	37,981
1981-1985	39,007	2,181	3,567	26,640	69,968
1986-1990	69,199	2,591	NA	35,811	107,601
1991-1995	34,287	2,802	4,582	27,205	65,211
1996	38,316	4,052	15,711	69,940	128,019
1997	1,550	806	4,934	9,992	17,282
1998	13,140	852	13,807	9,701	37,500
1999	5,467	2,836	9,628	27,481	45,412
2000	10,193	1,780	23,031	34,651	69,655
2001	31,837	5,689	48,414	54,777	140,717
2002	59,435	5,683	58,703	48,984	172,805
2003	66,460	5,881	49,398	66,783	188,522
2004	16,533	2,325	38,672	19,624	77,154
2005	49,001	3,867	26,493	40,926	120,287
2006	19,948	811	12,563	7,866	41,188
2007	8,218	955	18,009	9,434	36,616
2008	16,699	1,221	16,419	11,009	45,348
2009	75,417	6,257	47,333	21,384	150,391
2010 ^{e/}	28,568	4,891	77,784	27,514	138,757
2011 ^{e/}	48,173	NA	NA	NA	NA
GOAL			13,090 ^{f/}	6,100 ^{f/}	

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

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

c/ Hatchery rack number includes fish released upstream.

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

e/ Preliminary.

f/ WDFW goal; not an FMP goal.

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

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

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

Year or Average	Terminal Catch					Spawning Escapement		Terminal Run Size ^{d/}
	Early Non-local Catch	Non-Indian Gillnet	Treaty Indian Gillnet	Chehalis Tribal Gillnet	Sport ^{a/}	Natural ^{b/}	Hatchery ^{c/}	
FALL Chinook								
1976-1980	4,433	3,642	3,108	1,006	1,128	7	413	9,303
1981-1985	602	964	3,524	465	268	10	742	5,973
1986-1990	694	4,122	10,414	597	1,340	20,474	1,319	38,266 ^{i/}
1991-1995	206	5,000	7,750	901	3,794	12,044	3,006	32,496 ^{i/}
1996	148	1,441	4,068	49	7,456	16,988	4,307	34,309 ^{i/}
1997	24	2,796	6,630	311	2,687	16,342	2,416	31,183 ^{i/}
1998	5	267	4,135	0	2,912	11,476	1,921	20,711 ^{i/}
1999	0	87	1,926	1	114	9,196	1,990	13,315 ^{i/}
2000	671	647	3,289	0	1,714	8,081	1,450	15,182
2001	0	2,523	3,885	0	3,210	8,340	1,121	19,079
2002	40	26	963	0	2,955	10,621	2,006	16,570
2003	0	295	851	0	1,031	17,808	2,858	22,842
2004	0	183	3,498	476	6,158	29,461	3,584	43,360
2005	0	379	2,260	3	465	17,040	3,536	23,683
2006	0	195	3,738	0	1,635	15,955	2,845	24,368
2007 ^{g/}	0	514	2,472	19	1,719	11,264	1,072	17,060
2008 ^{g/}	0	717	1,878	72	0	13,570	1,631	17,868
2009 ^{g/}	0	1,193	2,485	0	860	7,215	1,125	12,878
2010 ^{g/}	0	1,495	3,403	0	1,995	16,951	2,217	26,061
2011 ^{g/}	0	2,121	6,402	0	NA	NA	NA	NA
GOAL						11,388 ^{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/ MSY spawning escapement objective adopted under Amendment 16. Previous objectives of 1,400 (spring) and 14,600 (fall) were used for preseason planning in 2011.

i/ Recreational catch estimates by WDFW reflect application of catch record card bias correction factor of 0.833. Quinault Indian Nation does not believe this factor is appropriate for this fishery. 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		Natural	Hatchery	Natural	Hatchery	Total ^{d/}	
			Tribal	Gillnet	Sport ^{e/}					
1976-1980	5,231	9,675	3,500		2,021	29,510	10,207	44,430	17,933	61,088
1981-1985	5,299	15,614	2,863		5,012	36,847	17,565	40,374	42,013	82,388
1986-1990	7,715	30,109	1,817		5,355	44,836	30,767	51,553	69,041	120,595
1991-1995	12,502	29,745	2,716		10,503	36,516	31,654	51,384	72,082	123,466
1996	10,096	51,812	2,915		20,846	63,572	49,378	87,869	110,161	198,030
1997	115	5,548	125		1,547	22,469	12,710	19,258	22,958	42,216
1998	795	13,586	361		2,123	35,551	16,228	40,398	28,702	69,100
1999	1,674	12,212	797		4,507	33,346	29,655	37,987	44,342	82,329
2000	4,995	10,947	331		5,122	38,054	29,127	43,355	40,268	83,623
2001	3,152	15,671	533		20,868	80,100	90,411	76,401	118,595	194,996
2002	6,853	14,518	797		13,083	110,066	45,300	110,969	76,108	187,077
2003	6,623	18,778	1,000		12,026	84,952	65,114	94,759	87,383	182,142
2004	5,231	17,431	4,483		9,847	60,690	47,418	64,371	80,736	145,107
2005	3,073	23,232	2,286		11,043	38,585	47,784	43,665	82,716	126,381
2006 ^{e/}	649	8,680	127		2,185	17,767	16,729	20,440	24,902	45,342
2007 ^{e/}	1,687	8,922	1,108		4,456	25,121	14,345	32,472	23,284	55,756
2008 ^{e/}	7,783	10,204	385		3,210	34,054	12,774	47,060	19,990	67,050
2009 ^{e/}	561	28,487	858		16,053	69,222	45,174	88,405	56,792	145,197
2010 ^{e/}	3,990	25,133	2,519		12,038	102,237	67,387	105,590	96,265	201,855
2011 ^{e/}	3,628	28,895	1,542		NA	NA	NA	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 broodstock.

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/ MSY spawning escapement objective adopted under Amendment 16. Previous objective of 35,400 was used for preseason planning in 2011.

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 ^{b/}	43	5,455	1,156	1,441
2010 ^{b/}	8	4,521	2,037	1,856
2011 ^{b/}	26	5,998	7,421	9,177

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 ^{b/}	54,882	2,036	2,047	33,140	23,353	48,324	66,095	114,419
2010 ^{b/}	41,726	1,449	1,450	19,445	12,785	33,945	41,445	76,854
2011 ^{b/}	38,426	NA	NA	NA	NA	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 ^{c/}	-	0	-	495	-	495	-	495
2010 ^{c/}	-	0	-	259	-	259	-	259
2011 ^{c/}	-	0	-	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.

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

Average	Terminal Catch			Escapement Natural ^{b/}	Terminal Run Size		Total
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}		Natural ^{c/}	Indicator ^{d/}	
1976-1980	1,540	100	36	2,820	4,320	-	4,320
1981-1985	2,104	20	135	3,930	5,691	591	6,282
1986-1990	2,430	20	214	8,768	10,677	861	11,538
1991-1995	1,860	20	109	4,106	5,511	708	6,219
1996	1,307	20	238	4,218	4,693	1,234	5,927
1997	1,708	20	210	2,872	4,122	823	4,945
1998	804	20	347	3,859	5,009	164	5,173
1999	947	20	93	1,918	2,885	220	3,105
2000	262	20	50	3,755	3,752	395	4,147
2001	1,366	64	285	3,099	3,604	1,204	4,808
2002	2,887	69	20	2,589	4,377	1,184	5,561
2003	1,322	93	278	4,979	5,203	1,415	6,618
2004	1,228	93	370	5,105	4,778	2,019	6,797
2005	1,648	90	441	4,557	4,521	2,213	6,734
2006	1,079	57	71	3,051	3,255	1,003	4,258
2007	634	20	74	878	1,293	307	1,600
2008	1,020	41	0	3,082	3,465	692	4,157
2009	1,522	65	209	3,106	4,032	856	4,889
2010 ^{e/}	1,722	81	169	4,022	4,233	1,758	5,994
2011 ^{e/}	2,327	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. Broodstock are unmarked wild fish collected from river.

e/ Preliminary.

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

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

Year or Average	Terminal Catch ^{a/}			Escapement ^{c/}			Terminal Run Size ^{c/}			
	Gillnet	Ceremonial & Subsistence	River Sport ^{b/}	Natural	Supplemental	Hatchery	Natural	Supplemental	Hatchery	Total ^{d/}
1976-1980	2,440	60	140	3,460	-	1,000	5,100	-	1,640	6,740
1981-1985	2,385	20	104	5,397	-	2,654	6,411	-	3,794	10,205
1986-1990	8,455	18	241	4,826	996	3,700	6,343	1,825	9,685	17,123
1991-1995 ^{e/}	4,423	285	273	4,943	1,024	3,455	5,967	1,167	6,927	13,828
1996	16,035	920	279	8,926	3,575	5,189	10,722	4,502	13,078	28,302
1997	3,087	222	106	1,712	e/	2,137	1,970	e/	5,029	6,999
1998	7,411	452	135	4,134	1,387	3,503	4,661	1,536	9,545	15,742
1999	3,974	381	119	4,799	519	3,551	5,054	529	7,388	12,971
2000	5,066	479	223	8,104	682	2,032	8,715	701	5,366	14,782
2001	13,722	1,287	1,554	23,871	1,082	6,508	28,368	2,293	14,193	44,854
2002	23,712	1,009	399	13,968	1,065	2,240	16,123	1,311	21,514	38,948
2003	12,693	921	743	9,846	1,081	7,002	13,224	1,343	15,544	30,111
2004 ^{f/}	8,189	657	1,287	7,484	1,225	3,985	10,030	1,673	10,395	22,098
2005 ^{f/}	20,810	989	873	6,539	432	7,843	9,658	542	26,304	36,504
2006 ^{f/}	6,190	353	52	5,626	0	2,931	6,400	0	7,101	13,501
2007	2,261	304	153	4,680	0	1,874	6,066	0	2,779	8,845
2008	4,671	356	562	4,629	0	3,461	6,221	0	5,667	11,888
2009 ^{g/}	25,004	1,680	865	9,404	0	14,151	16,909	0	30,161	47,070
2010 ^{g/}	21,138	1,387	944	11,261	0	10,326	18,900	0	20,954	39,854
2011 ^{g/}	16,638	900	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. Escapement estimates for 2009 and 2010 were under review; data for the 2011 run were being processed.

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	717	274	991
2009 ^{d/e/}	30	106	136	3	2	5	12	880	2	913	110	1,023
2010 ^{d/e/f/}	24	83	107	0	0	0	6	828	0	858	83	941
2011 ^{d/e/f/}	51	25	76	7	3	10	NA	NA	NA	NA	NA	NA
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 through August 31 to retention of wild adult spring/summer Chinook.

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

f/ Preliminary.

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

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

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}	Natural ^{b/}	Hatchery	Natural ^{b/}	Hatchery	Total
1976-1980	760	36	37	2,080	-	2,960	-	2,960
1981-1985	849	36	59	2,745	20	3,684	100	3,764
1986-1990	2,000	32	213	4,500	33	6,819	88	6,907
1991-1995	871	27	233	2,774	0	3,590	65	3,655
1996	836	30	192	3,022	0	4,061	19	4,080
1997	1,114	35	164	1,773	0	3,034	52	3,086
1998	846	30	268	4,257	0	5,388	13	5,401
1999	596	30	413	1,924	0	2,941	22	2,963
2000	404	20	479	1,749	0	2,632	20	2,652
2001	946	40	600	2,560	0	4,116	120	4,236
2002 ^{c/}	1,461	30	134	4,415	82	5,716	406	6,122
2003	517	30	216	1,649	32	2,345	99	2,444
2004	815	30	400	3,211	26	4,410	72	4,482
2005	970	21	229	4,180	14	5,337	77	5,414
2006	586	30	204	1,535	0	2,324	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	2,767	21	2,788
2010 ^{d/}	342	0	297	2,599	0	3,204	34	3,238
2011 ^{d/}	528	0	NA	NA	NA	NA	NA	NA
GOAL				1,200 ^{e/}				

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

b/ Includes fish taken for hatchery brood stock.

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

d/ Preliminary.

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

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

Year or Average	Terminal Catch ^{a/}			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport ^{b/}	Natural ^{c/}	Hatchery	Natural ^{c/}	Hatchery	Total
1976-1980	1,960	74	28	2,700	39	4,683	259	4,942
1981-1985	1,604	48	22	3,371	92	4,655	452	5,107
1986-1990	2,507	30	165	3,145	238	5,221	760	5,981
1991-1995	801	26	168	3,078	122	3,816	379	4,195
1996	972	50	101	4,858	0	5,835	146	5,981
1997 ^{d/}	85	25	4	1,386	0	1,449	51	1,500
1998	650	20	213	4,418	0	5,184	118	5,302
1999	1,706	25	256	4,594	0	6,293	308	6,601
2000	1,932	20	280	6,772	0	8,831	173	9,004
2001	3,909	40	786	10,773	840	14,801	1,547	16,348
2002 ^{e/}	3,114	30	401	9,009	1,922	11,254	3,222	14,476
2003	1,872	20	350	6,273	645	8,118	1,021	9,139
2004	1,255	20	437	4,702	14	6,291	137	6,428
2005	3,830	30	280	4,711	732	8,294	1,259	9,553
2006	1,313	30	108	1,282	0	2,267	466	2,733
2007	1,757	40	305	3,072	0	5,120	54	5,174
2008	1,788	4	204	2,461	67	4,308	220	4,528
2009	4,294	0	505	6,595	0	10,718	685	11,403
2010 ^{f/}	2,638	0	515	7,864	0	10,549	468	11,017
2011 ^{f/}	3,418	0	NA	NA	NA	NA	NA	NA
GOAL				2,000 to 5,000				

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

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

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

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

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

f/ Preliminary.

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

Year or Average	Terminal Catch			Escapement		Terminal Run Size		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	3,001
2009 ^{e/}	483	30	192	555	722	682	1,300	1,982
2010 ^{e/f/}	567	0	245	815	880	941	1,566	2,507
2011 ^{e/f/}	595	41	NA	600	696	806	1,236	1,932
GOAL				1,200 ^{g/}				

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

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

c/ Natural escapement includes hatchery strays and broodstock fish.

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

e/ Preliminary.

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

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

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

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	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 ^{e/}	2,434	0	352	3,130	0	5,874	42	5,916
2010 ^{e/f/}	1,815	0	529	4,635	0	6,961	18	6,979
2011 ^{e/f/}	1,972	3	NA	3,993	0	5,927	41	5,968
GOAL				3,000 ^{g/}				

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

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

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

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

e/ Preliminary.

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

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

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

Year or Average	Terminal Catch ^{a/}			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence ^{b/}	River Sport ^{c/}	Natural ^{d/}	Hatchery ^{e/}	Natural ^{d/}	Hatchery ^{e/}	Total
SUMMER COHO								
1976-1980	5,038	56	266	1,192	4,565	1,962	9,154	11,116
1981-1985	4,062	50	105	946	2,744	2,106	5,802	7,908
1986-1990	3,204	50	94	723	4,001	1,643	6,430	8,072
1991-1995	1,286	50	191	784	6,501	989	7,823	8,812
1996	2,552	50	189	465	3,400	801	5,855	6,656
1997	70	50	14	753	1,509	798	1,598	2,396
1998	1,310	50	93	346	1,688	593	2,894	3,487
1999	945	50	292	624	7,527	723	8,715	9,438
2000	1,188	50	278	1,001	3,745	1,237	5,025	6,262
2001	2,196	50	590	961	12,993	1,841	14,949	16,790
2002	3,982	50	150	1,012	3,939	2,099	7,034	9,133
2003	2,412	50	326	505	6,539	1,472	8,360	9,832
2004	1,337	50	343	1,269	6,527	1,874	7,652	9,526
2005	10,273	0	487	1,218	7,182	2,197	16,963	19,160
2006	2,146	0	141	621	1,832	1,549	3,191	4,740
2007	645	0	200	805	4,778	1,029	5,399	6,428
2008 ^{f/}	1,313	0	198	706	6,419	971	7,665	8,636
2009 ^{f/}	3,227	0	233	1,337	8,085	2,210	10,672	12,882
2010 ^{f/g/}	890	0	NA	276	1,644	558	2,252	2,810
2011 ^{f/g/}	757	0	NA	1,644	3,800	1,991	4,210	6,201
GOAL	Hatchery Production							

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

Year or Average	Terminal Catch ^{a/}			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence ^{b/}	River Sport ^{c/}	Natural ^{d/}	Hatchery ^{e/}	Natural ^{d/}	Hatchery ^{e/}	Total
FALL COHO								
1976-1980	5,985	53	70	9,002	2,435	13,959	3,587	17,546
1981-1985	3,789	49	164	7,464	2,102	10,988	2,580	13,568
1986-1990	5,794	100	385	8,766	1,771	14,119	2,695	16,815
1991-1995	3,598	100	565	7,357	4,736	9,930	6,426	16,356
1996	8,419	100	1,336	11,009	11,515	14,596	17,783	32,379
1997	456	50	38 ^{h/}	4,623	2,645	5,021	2,791	7,812
1998	4,606	50	1,340	13,866	12,834	16,980	15,716	32,696
1999	22,946	50	1,054	9,365	13,528	19,524	27,515	47,039
2000	5,606	50	1,059	13,343	13,118	17,706	15,470	33,176
2001	23,991	50	2,620	18,876	23,892	36,714	32,715	69,429
2002	22,214	50	2,002	23,016	30,656	34,695	43,243	77,938
2003	13,949	50	2,533	14,756	13,799	25,188	19,899	45,087
2004	19,321	50	2,831	13,354	21,248	25,118	31,687	56,805
2005	29,530	0	3,420	11,501	24,137	22,125	46,463	68,588
2006	9,779	0	291	5,210	4,450	12,266	7,464	19,730
2007	10,152	0	826	6,252	5,423	10,942	11,711	22,653
2008 ^{f/}	15,722	10	511	6,947	12,098	12,979	22,309	35,288
2009 ^{f/}	37,112	0	4,620	7,863	23,373	24,653	48,315	72,968
2010 ^{f/g/}	27,127	10	NA	9,837	23,325	22,393	37,906	60,299
2011 ^{f/g/}	21,983	11	NA	9,512	22,487	20,032	33,976	54,008
GOAL	6,300-15,800							

a/ Includes dip-in fish from other systems.

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

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

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

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

f/ Preliminary.

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

h/ Regulations required nonretention of coho.

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

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}	Natural ^{b/}	Supplemental	Natural ^{b/}	Supplemental	Total
1991-1995	-	-	5	362	432	362	432	795
1996	-	-	4	435	830	435	830	1,265
1997	-	-	8	365	529	365	529	894
1998	-	-	-	705	1,017	705	1,017	1,722
1999	-	-	-	734	954	734	954	1,688
2000	-	-	-	294	437	294	437	731
2001	-	-	-	496	450	496	450	946
2002	-	-	-	192	488	192	488	680
2003	-	-	-	402	696	402	696	1,098
2004	-	-	-	266	820	266	820	1,086
2005	-	-	-	72	212	72	212	284
2006	-	-	-	172	723	172	723	895
2007	-	-	-	251	317	251	317	568
2008	-	-	-	106	377	106	377	483
2009 ^{c/}	-	-	-	28	347	28	347	375
2010 ^{c/}	-	-	-	322	471	322	471	793
2011 ^{c/}	-	-	-	1,081	423	1,081	423	1,504
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/ Terminal run size estimates incomplete since inriver sport catch estimates are unavailable.

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

e/ Not an FMP goal.

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

Year or Average	Fishery	Chinook	Coho	Pink ^{b/}	Chum	Sockeye
1971-1975	Non-Indian	105,332	525,867	1,172,614	331,029	2,158,784
	Treaty Indian	57,672	224,743	61,818	78,266	38,225
	Total	163,005	750,610	1,234,433	409,295	2,197,009
1976-1980	Non-Indian	103,546	413,583	1,050,560	407,859	1,095,603
	Treaty Indian	135,592	492,549	185,831	296,057	277,771
	Total	239,138	906,132	1,236,391	703,916	1,373,374
1981-1985	Non-Indian	72,934	346,125	1,154,851	368,762	928,477
	Treaty Indian	155,966	608,241	829,340	387,951	912,408
	Total	228,899	954,366	1,984,191	756,713	1,840,885
1986-1990	Non-Indian	57,550	470,494	509,445	540,843	964,690
	Treaty Indian	176,966	812,712	590,138	662,215	1,028,361
	Total	234,516	1,283,206	1,099,583	1,203,058	1,993,051
1991-1995	Non-Indian	17,519	74,371	784,067	523,396	735,834
	Treaty Indian	82,513	316,784	832,948	607,028	741,058
	Total	100,033	391,155	1,617,015	1,130,424	1,476,892
1996-2000	Non-Indian	12,870	15,204	174,163	307,799	240,088
	Treaty Indian	64,442	184,866	211,946	210,140	321,849
	Total	77,311	200,071	386,109	517,939	561,937
2001	Non-Indian	18,029	28,299	463,083	824,328	85,112
	Treaty Indian	109,865	366,011	319,553	777,019	170,309
	Total	127,894	394,310	782,636	1,601,347	255,421
2002 ^{c/}	Non-Indian	17,628	24,459	7	1,117,666	141,456
	Treaty Indian	98,251	286,500	327	833,497	339,773
	Total	115,879	310,959	334	1,951,163	481,229

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

Year or Average	Fishery	Chinook	Coho	Pink ^{b/}	Chum	Sockeye
2003 ^{c/}	Non-Indian	8,567	18,105	683,393	764,132	90,618
	Treaty Indian	84,680	244,091	556,943	814,212	183,670
	Total	93,247	262,196	1,240,336	1,578,344	274,288
2004 ^{c/}	Non-Indian	5,042	39,481	4	1,174,295	81,031
	Treaty Indian	99,741	529,668	712	934,155	137,699
	Total	104,783	569,149	716	2,108,450	218,730
2005 ^{c/}	Non-Indian	6,236	19,694	144,567	383,127	65,931
	Treaty Indian	86,071	296,637	243,012	351,416	141,747
	Total	92,307	316,331	387,579	734,543	207,678
2006 ^{c/}	Non-Indian	13,300	9,827	6	877,791	223,908
	Treaty Indian	134,604	292,448	613	628,271	543,546
	Total	147,904	302,275	619	1,506,062	767,454
2007 ^{c/}	Non-Indian	6,785	13,435	200,687	680,385	6,266
	Treaty Indian	120,247	209,677	301,846	782,678	6,327
	Total	127,032	223,112	502,533	1,463,063	12,593
2008 ^{c/}	Non-Indian	6,103	6,464	14	449,348	16,319
	Treaty Indian	103,295	227,459	744	575,727	44,865
	Total	109,398	233,923	758	1,025,075	61,184
2009 ^{c/}	Non-Indian	2,753	20,091	2,789,870	294,841	1,605
	Treaty Indian	87,350	259,634	1,947,980	355,615	2,949
	Total	90,103	279,725	4,737,850	650,456	4,554
2010 ^{c/}	Non-Indian	7,922	18,220	309	416,252	749,668
	Treaty Indian	87,882	154,884	1,828	557,910	1,165,605
	Total	95,804	173,104	2,137	974,162	1,915,273
2011 ^{c/}	Non-Indian	10,097	28,821	2,266,672	463,116	86,908
	Treaty Indian	100,515	222,483	2,267,080	580,228	198,832
	Total	110,612	251,304	4,533,752	1,043,344	285,740

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

b/ Odd-year averages for pink salmon.

c/ Preliminary.

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

Year or Average	Chinook	Coho	Pink ^{b/}
1971-1975	225,650	119,301	14,855
1976-1980	253,763	202,983	47,029
1981-1985	156,183	196,632	14,910
1986-1990	127,860	251,087	40,884
1991-1995	77,310	137,637	71,030
1996	72,069	85,139	50
1997	60,425	137,571	35,197
1998	26,114	89,520	201
1999	28,739	22,055	23,780
2000	23,679	74,934	17
2001	44,422	193,454	117,367
2002	30,743	66,576	31
2003	30,349	92,114	143,248
2004	26,727	83,708	138
2005	22,879	58,309	68,546
2006	28,582	26,688	19
2007	48,726	65,306	93,251
2008	31,092	23,794	4
2009	31,685	75,684	156,901
2010 ^{c/}	37,073	27,654	32
2011 ^{c/}	NA	NA	NA

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

b/ Odd-year averages for pink salmon.

c/ Preliminary.

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

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery	Natural ^{b/}	Total	Hatchery	Natural ^{b/}	Total	Hatchery	Natural ^{b/}	Total
Strait of Juan de Fuca									
1981-1985	57	126	183	811	1,450	2,261	868	1,576	2,444
1986-1990	136	456	591	1,276	4,755	6,031	1,411	5,211	6,622
1991-1995	69	109	178	979	2,390	3,369	1,048	2,499	3,547
1996-2000	8	16	24	1,193	2,236	3,429	1,201	2,252	3,453
2001	4	5	9	1,660	1,947	3,607	1,664	1,952	3,616
2002	5	7	12	1,558	2,182	3,740	1,563	2,189	3,752
2003	7	16	23	1,258	2,787	4,045	1,265	2,803	4,068
2004	6	17	23	1,364	4,033	5,397	1,370	4,050	5,420
2005	6	9	15	1,401	2,083	3,484	1,407	2,092	3,499
2006	8	15	23	1,234	3,145	4,379	1,242	3,160	4,402
2007	3	4	7	769	1,353	2,122	772	1,357	2,129
2008	12	23	35	683	1,182	1,865	695	1,205	1,900
2009	1	10	11	1,530	1,254	2,784	1,531	1,264	2,795
2010 ^{d/}	11	72	83	737	2,518	3,255	748	2,590	3,338
2011 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						5,300			
Nooksack-Samish									
1981-1985	54,054	33,567	87,621	16,083	6,541	22,623	70,137	40,107	110,244
1986-1990	38,058	26,273	64,330	10,729	4,127	14,856	48,786	30,400	79,186
1991-1995	18,245	2,302	20,548	8,646	740	9,386	26,891	3,042	29,933
1996-2000	20,298	4,662	24,960	8,263	2,611	10,874	28,561	7,274	35,834
2001	21,205	28,241	49,446	6,306	9,876	16,182	27,511	38,117	65,628
2002	10,313	28,421	38,734	4,325	13,593	17,918	14,638	42,014	56,652
2003	6,660	12,200	18,860	3,356	7,864	11,220	10,016	20,064	30,080
2004	4,822	5,814	10,636	3,097	4,325	7,422	7,919	10,139	18,058
2005	8,398	3,973	12,371	2,461	1,655	4,116	10,859	5,628	16,487
2006	16,193	9,189	25,382	3,857	2,699	6,556	20,050	11,888	31,938
2007	9,870	7,679	17,549	4,453	4,535	8,988	14,323	12,214	26,537
2008	13,577	5,772	19,349	6,271	3,516	9,787	19,848	9,288	29,136
2009	4,974	6,377	11,351	3,494	6,054	9,548	8,468	12,431	20,899
2010 ^{d/}	23,275	1,186	24,461	15,873	865	16,738	39,148	2,051	41,199
2011 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						1,800			

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

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery	Natural ^{b/}	Total	Hatchery	Natural ^{b/}	Total	Hatchery	Natural ^{b/}	Total
Skagit									
1981-1985	595	9,162	9,757	787	11,109	11,896	1,382	20,271	21,653
1986-1990	251	4,043	4,294	815	12,452	13,267	1,066	16,495	17,561
1991-1995	463	1,583	2,046	2,402	6,280	8,682	2,865	7,863	10,728
1996-2000	10	445	455	316	10,390	10,705	326	10,835	11,161
2001	3	249	252	150	13,793	13,943	153	14,042	14,195
2002	2	324	326	101	19,591	19,692	103	19,915	20,018
2003	10	323	333	298	9,777	10,075	308	10,100	10,408
2004	5	557	562	226	23,553	23,779	231	24,110	24,341
2005	41	2,576	2,617	331	20,803	21,134	372	23,379	23,751
2006	30	1,696	1,726	368	20,768	21,136	398	22,464	22,862
2007	54	1,658	1,712	370	11,281	11,651	424	12,939	13,363
2008	47	3,315	3,362	164	11,664	11,828	211	14,979	15,190
2009	57	5,142	5,199	77	6,955	7,032	134	12,097	12,231
2010 ^{d/}	17	1,939	1,956	70	8,017	8,087	87	9,956	10,043
2011 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						14,900			
Hood Canal									
1981-1985	4,918	3,649	8,567	3,787	2,038	5,824	8,705	5,686	14,391
1986-1990	10,493	4,938	15,432	6,189	2,006	8,195	16,682	6,944	23,626
1991-1995	1,830	1,021	2,851	3,946	1,408	5,355	5,776	2,430	8,206
1996-2000	3,626	82	3,708	11,002	1,606	12,608	14,629	1,688	16,317
2001 ^{d/}	9,135	913	10,048	13,042	3,002	16,044	22,177	3,915	26,092
2002 ^{d/}	14,851	220	15,071	13,451	1,725	15,176	28,302	1,945	30,247
2003 ^{d/}	17,656	207	17,863	13,643	1,512	15,155	31,299	1,719	33,018
2004 ^{d/}	14,082	910	14,992	15,666	3,663	19,329	29,748	4,573	34,321
2005 ^{d/}	31,048	1,041	32,089	19,782	2,875	22,657	50,830	3,916	54,746
2006 ^{d/}	22,475	894	23,369	15,750	1,549	17,299	38,225	2,443	40,668
2007 ^{d/}	15,265	384	15,649	16,232	663	16,895	31,497	1,047	32,544
2008 ^{d/}	15,932	881	16,813	14,814	1,439	16,253	30,746	2,320	33,066
2009 ^{d/}	20,521	984	21,505	15,271	1,224	16,495	35,792	2,208	38,000
2010 ^{d/}	27,631	773	28,404	13,957	1,341	15,298	41,588	2,114	43,702
2011 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						3,400			

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

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery	Natural ^{b/}	Total	Hatchery	Natural ^{b/}	Total	Hatchery	Natural ^{b/}	Total
Stillaguamish-Snohomish^{e/}									
1981-1985	3,894	6,917	10,811	1,990	4,901	6,891	5,884	11,818	17,702
1986-1990	3,370	4,241	7,612	1,148	5,210	6,358	4,519	9,451	13,970
1991-1995	3,688	1,966	5,654	2,253	4,371	6,624	5,941	6,337	12,278
1996-2000	10,193	54	10,247	5,543	6,813	12,357	15,737	6,867	22,603
2001	5,115	293	5,408	872	9,513	10,385	5,987	9,806	15,793
2002	5,193	58	5,251	2,542	8,808	11,350	7,735	8,866	16,601
2003	8,796	145	8,941	5,655	6,435	12,090	14,451	6,580	21,031
2004	5,747	103	5,850	6,124	12,112	18,236	11,871	12,215	24,086
2005	7,370	241	7,611	3,592	5,447	9,039	10,962	5,688	16,650
2006	4,016	194	4,210	4,017	9,562	13,579	8,033	9,756	17,789
2007	3,380	28	3,408	6,222	4,769	10,991	9,602	4,797	14,399
2008	1,518	144	1,662	5,720	10,155	15,875	7,238	10,299	17,537
2009	1,309	173	1,482	2,422	3,291	5,713	3,731	3,464	7,195
2010 ^{d/}	2,634	552	3,186	3,273	5,218	8,491	5,907	5,770	11,677
2011 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				7,300					
South Puget Sound									
1981-1985	25,101	9,101	34,201	23,341	6,371	29,712	48,442	15,472	63,913
1986-1990	25,697	20,036	45,733	36,998	18,108	55,106	62,695	38,144	100,839
1991-1995	19,388	13,071	32,460	30,556	14,488	45,044	49,944	27,559	77,504
1996-2000	14,208	10,049	24,257	37,032	27,268	64,301	51,241	37,317	88,558
2001	21,603	18,557	40,160	55,026	42,069	97,095	76,629	60,626	137,255
2002	22,549	15,845	38,394	46,744	41,135	87,879	69,293	56,980	126,273
2003	23,916	13,122	37,038	33,234	25,457	58,691	57,150	38,579	95,729
2004	20,860	15,403	36,263	45,760	26,864	72,624	66,620	42,267	108,887
2005	21,825	6,496	28,321	52,049	12,540	64,589	73,874	19,036	92,910
2006	40,430	14,284	54,714	63,541	22,691	86,232	103,971	36,975	140,946
2007	64,716	13,720	78,436	75,549	16,389	91,938	140,265	30,109	170,374
2008	43,567	16,559	60,126	47,042	15,659	62,701	90,609	32,218	122,827
2009	33,348	5,302	38,650	39,336	7,955	47,291	72,684	13,257	85,941
2010 ^{d/}	32,816	5,774	38,589	50,076	8,165	58,241	82,892	13,939	96,830
2011 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				34,900					

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

b/ Includes estimated off-station returns.

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

d/ Preliminary.

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

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

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

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

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

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

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

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

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

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

b/ Includes estimated off-station returns.

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

d/ Preliminary.

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

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total
Strait of Juan de Fuca									
1981	0	295	295	0	3,100	3,100	0	3,395	3,395
1983	0	144	144	0	5,088	5,088	0	5,232	5,232
1985	0	58	58	0	4,830	4,830	0	4,888	4,888
1987	3	158	161	47	1,956	2,003	50	2,114	2,164
1989	0	1,053	1,053	0	10,903	10,903	0	11,956	11,956
1991	0	1,129	1,129	0	9,896	9,896	0	11,025	11,025
1993	0	91	91	0	1,696	1,696	0	1,787	1,787
1995	4	262	266	100	8,254	8,354	104	8,516	8,620
1997	8	538	546	71	4,953	5,024	79	5,491	5,570
1999	0	6	6	0	7,306	7,306	0	7,312	7,312
2001	3	578	581	469	80,949	81,418	472	81,527	81,999
2003	0	282	282	0	15,148	15,148	0	15,430	15,430
2005 ^{d/}	0	241	241	0	8,688	8,688	0	8,929	8,929
2007 ^{d/}	0	147	147	0	6,251	6,251	0	6,398	6,398
2009 ^{d/}	0	2,711	2,711	0	41,533	41,533	0	44,244	44,244
2011 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL ^{e/}	Not Agreed Upon								
Nooksack-Samish									
1981	0	21,659	21,659	0	26,814	26,814	0	48,473	48,473
1983	0	13,321	13,321	0	66,966	66,966	0	80,287	80,287
1985	0	6,204	6,204	0	24,914	24,914	0	31,118	31,118
1987	0	5,069	5,069	0	32,685	32,685	0	37,754	37,754
1989	237	24,727	24,964	1,200	126,006	127,206	1,437	150,733	152,170
1991	0	21,852	21,852	0	21,304	21,304	0	43,156	43,156
1993	0	4,323	4,323	0	51,680	51,680	0	56,003	56,003
1995	0	13,532	13,532	0	207,112	207,112	0	220,644	220,644
1997	0	4,152	4,152	0	26,000	26,000	0	30,152	30,152
1999	0	2,478	2,478	0	95,000	95,000	0	97,478	97,478
2001	215	13,735	13,950	3,714	226,000	229,714	3,929	239,735	243,664
2003	338	2,400	2,738	7,264	51,011	58,275	7,602	53,411	61,013
2005 ^{d/}	259	1,975	2,234	1,791	13,627	15,418	2,050	15,602	17,652
2007 ^{d/}	17	1,124	1,141	276	18,992	19,268	293	20,116	20,409
2009 ^{d/}	283	6,283	6,566	2,096	46,603	48,699	2,379	52,886	55,265
2011 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
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	206,533	206,533	0	894,061	894,061	0	1,100,594	1,100,594
2003	0	232,732	232,732	0	567,080	567,080	0	799,812	799,812
2005 ^{d/}	0	20,147	20,147	0	60,000	60,000	0	80,147	80,147
2007 ^{d/}	0	13,154	13,154	0	300,000	300,000	0	313,154	313,154
2009 ^{d/}	0	396,928	396,928	0	1,160,000	1,160,000	0	1,556,928	1,556,928
2011 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL ^{e/}					330,000				
Hood Canal									
1981	380	1,241	1,621	1,557	6,551	8,108	1,937	7,792	9,729
1983	50	831	881	503	25,201	25,704	553	26,032	26,585
1985	138	2,854	2,992	1,456	64,101	65,557	1,594	66,955	68,549
1987	1,855	6,942	8,797	8,056	62,220	70,276	9,911	69,162	79,073
1989	7,799	26,946	34,745	2,500	60,970	63,470	10,299	87,916	98,215
1991	409	13,518	13,927	3,300	118,450	121,750	3,709	131,968	135,677
1993	623	1,917	2,540	11,497	35,647	47,144	12,120	37,564	49,684
1995	1,565	994	2,559	24,665	31,306	55,971	26,230	32,300	58,530
1997	2,436	910	3,346	21,493	8,363	29,856	23,929	9,273	33,202
1999	18	10	28	7,617	12,667	20,284	7,635	12,677	20,312
2001	713	703	1,416	71,539	98,338	169,877	72,252	99,041	171,293
2003	464	691	1,155	25,217	37,531	62,748	25,681	38,222	63,903
2005 ^{d/}	98	121	219	14,116	17,481	31,597	14,214	17,602	31,816
2007 ^{d/}	101	677	778	4,306	29,001	33,307	4,407	29,678	34,085
2009 ^{d/}	2,670	1,230	3,900	22,943	10,575	33,518	25,613	11,805	37,418
2011 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL ^{e/}					Not Agreed Upon				

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

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total
Stillaguamish-Snohomish									
1981	40	49,480	49,520	96	108,096	108,192	136	157,576	157,712
1983	51	57,452	57,503	283	324,383	324,666	334	381,835	382,169
1985	63	175,095	175,158	192	502,192	502,384	255	677,287	677,542
1987	173	111,881	112,054	418	271,418	271,836	591	383,299	383,890
1989	33	354,805	354,838	16	150,549	150,565	49	505,354	505,403
1991	139	82,150	82,289	447	260,000	260,447	586	342,150	342,736
1993	13	21,444	21,457	135	210,000	210,135	148	231,444	231,592
1995	5	33,871	33,876	26	309,600	309,626	31	343,471	343,502
1997	0	59,173	59,173	0	192,109	192,109	0	251,282	251,282
1999	0	13,443	13,443	0	461,543	461,543	0	474,986	474,986
2001	0	100,015	100,015	0	1,847,648	1,847,648	0	1,947,663	1,947,663
2003	0	187,286	187,286	0	1,577,001	1,577,001	0	1,764,287	1,764,287
2005 ^{d/}	0	19,193	19,193	0	600,124	600,124	0	619,317	619,317
2007 ^{d/}	0	54,082	54,082	0	1,383,591	1,383,591	0	1,437,673	1,437,673
2009 ^{d/}	0	706,958	706,958	0	2,882,373	2,882,373	0	3,589,331	3,589,331
2011 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL ^{e/} - Stillaguamish					155,000				
GOAL ^{e/} - Snohomish					120,000				
South Puget Sound									
1981	1,569	9,818	11,387	791	12,715	13,506	2,360	22,533	24,893
1983	492	11,265	11,757	149	12,200	12,349	641	23,465	24,106
1985	119	5,335	5,454	13	34,700	34,713	132	40,035	40,167
1987	15	9,386	9,401	3	42,200	42,203	18	51,586	51,604
1989	361	36,999	37,360	452	62,220	62,672	813	99,219	100,032
1991	357	5,037	5,394	346	15,950	16,296	703	20,987	21,690
1993 ^{f/}	3	2,330	2,333	21	10,619	10,640	24	12,949	12,973
1995 ^{f/}	13	5,163	5,176	84	18,278	18,362	97	23,441	23,538
1997 ^{f/}	0	449	449	0	2,965	2,965	0	3,414	3,414
1999 ^{f/}	0	80	80	12	4,670	4,682	12	4,750	4,762
2001 ^{f/g/}	5	735	740	48	16,173	16,221	53	16,908	16,961
2003 ^{f/g/}	1	5,393	5,394	68	185,277	185,345	69	190,670	190,739
2005 ^{d/f/g/}	0	3,964	3,964	0	466,435	466,435	0	470,399	470,399
2007 ^{d/f/g/}	0	19,162	19,162	0	615,678	615,678	0	634,840	634,840
2009 ^{d/f/g/}	0	462,782	462,782	0	4,091,283	4,091,283	0	4,554,065	4,554,065
2011 ^{d/f/g/}	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 pttal 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	166	1,550	4
2000	1,102	1,021	2,052	1,242	284	2,363	0
2001	1,566	1,856	5,363	2,185	267	5,690	0
2002 ^{e/}	1,663	1,065	5,649	3,741	289	1,780	0
2003 ^{e/}	1,545	844	5,046	2,857	204	2,760	0
2004 ^{e/}	3,107	1,575	3,501	1,719	130	1,115	0
2005 ^{e/}	2,258	1,246	1,552	2,047	120	2,061	0
2006 ^{e/}	1,487	1,896	732	1,184	355	4,321	0
2007 ^{e/}	1,931	613	505	1,438	182	8,417	0
2008 ^{e/}	1,462	1,470	1,194	1,266	443	4,278	0
2009 ^{e/}	900	978	769	1,903	45	2,640	0
2010 ^{e/}	1,371	1,361	1,252	2,044	NA	2,623	0
2011 ^{e/}	1,301	825	1,331	NA	NA	NA	0
GOAL		3,000					

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

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

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

d/ Program has been discontinued.

e/ Preliminary.

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