

**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	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks				
1971-1975	58,462	18,289	40,221	9,745	10,877	1,615	41,726	3,695	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 ^{f/}	25,682	6,872	40,981	3,933	13,157	1,218	5,831	1,742	59,969	6,893	85,651	13,765	4,003	934	89,654	14,699

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	
	C oleman ^{b/}		F eather River ^{b/}		Nimbus ^{c/}		Totals		Mokelumne River		M erced 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 ^{e/}	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
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 ^{l/}	8,847	1,000	m/	m/	1,555	41	2,951 ^{j/}	m/	m/	1,655 ^{k/}	6 ^{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	Adults	175,773	56,476	12,766	69,242	5,172	13,622	38,680	52,302	6,411	42,646	49,057	20,033	81,326	101,359
	Jacks	9,532	190	2,312	2,502	64	543	1,696	2,239	249	4,478	4,727	792	6,174	6,966
1997	Adults	83,736	12,087	5,676	17,763	1,167	13,275	34,637	47,912	5,387	11,507	16,894	18,662	46,144	64,806
	Jacks	7,993	35	2,409	2,444	52	452	1,380	1,832	820	2,845	3,665	1,272	4,225	5,497
1998	Adults	90,647	10,187	7,710	17,897	1,043	14,923	18,028	32,951	14,296	24,460	38,756	29,219	42,488	71,707
	Jacks	4,639	53	1,108	1,161	28	403	881	1,284	192	1,974	2,166	595	2,855	3,450
1999	Adults	51,048	14,660	2,282	16,942	1,322	9,290	11,660	20,950	5,037	6,797	11,834	14,327	18,457	32,784
	Jacks	19,248	271	1,616	1,887	57	4,830	6,293	11,123	2,027	4,154	6,181	6,857	10,447	17,304
2000	Adults	218,077	29,415	5,650	35,065	2,673	71,635	58,388	130,023	25,976	24,340	50,316	97,611	82,728	180,339
	Jacks	10,246	303	1,582	1,885	58	839	2,891	3,730	1,070	3,503	4,573	1,909	6,394	8,303
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	90,972	29,996	3,035	33,031	2,670	10,276	15,166	25,442	7,774	22,055	29,829	18,050	37,221	55,271
	Jacks	16,652	436	1,832	2,268	75	1,071	1,811	2,882	1,432	9,995	11,427	2,503	11,806	14,309
GOAL	Adults														≥35,000 ^{c/}

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

b/ Preliminary.

c/ In 2008 -2010, fisheries were managed for a natural area spawning escapement of 40,700 adults.

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
2004	Commercial:Estuary	2	408	410	13	14,251	14,264
	Upper Klamath	0	0	0	13	540	554
	Subsistence:Estuary	10	2,178	2,188	62	6,787	6,848
	Middle Klamath	6	2,346	2,352	14	577	591
	Upper Klamath	11	1,715	1,726	46	1,959	2,005
	Trinity River	62	1,944	2,006	20	1,689	1,709
	Total	91	8,591	8,682	168	25,083	25,971
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 ^{b/}	Commercial:Estuary	0	258	258	3	15,196	15,199
	Middle Klamath	0	0	0	1	85	86
	Subsistence:Estuary	0	0	0	17	6,529	6,546
	Middle Klamath	0	0	0	32	1,821	1,853
	Upper Klamath	0	0	0	123	2,555	2,678
	Trinity River	4	1,740	1,744	260	3,810	4,070
	Total	4	1,998	2,002	436	29,996	30,432

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

b/ 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 ^{h/}	1,259	87	2,113	394	2,478	356

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- 2008 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, 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)		Sprowl Creek ^{a/b/d/} (Eel River)		Tomki Creek ^{e/} (Eel River)	Russian ^{f/} River	Lagunitas ^{g/} Watershed
	Chinook	Coho	Chinook	Coho	Chinook	Chinook	Coho Redds
1978-1979	-	-	534	23	-	-	-
1979-1980	-	-	572	0	2, 410	-	-
1980-1981	-	-	164	4	317	-	-
1981-1982	23	0	121	0	1, 153	-	-
1982-1983	68	0	169	1	1, 807	-	-
1983-1984	137	0	82	0	-	-	-
1984-1985 ^{h/}	16	0	67	13	1, 292	-	-
1985-1986	514	14	320	0	3, 558	-	-
1986-1987 ^{h/}	90	3	307	13	2, 173	-	-
1987-1988	117	29	2,187	4	3, 666	-	-
1988-1989	69	7	339	12	556	-	-
1989-1990 ^{h/}	9	9	89	14	-	-	-
1990-1991	0	3	0	0	-	-	-
1991-1992 ^{h/}	8	0	159	0	3	-	-
1992-1993 ^{h/}	57	1	142	2	15	-	-
1993-1994	20	0	171	36	5	-	-
1994-1995	33	3	52	0	21	-	-
1995-1996 ^{h/}	93	4	136	8	69	-	86
1996-1997	129	4	106	8	84	-	254
1997-1998	55	1	97	0	39	-	253
1998-1999	66	0	79	11	45	-	184
1999-2000 ^{h/}	162	1	34	1	24	-	203
2000-2001 ^{h/}	79	3	12	0	50	1,445	204
2001-2002	45	6	136	25	162	1,383	286
2002-2003	402	1	267	17	5	5,474	158
2003-2004 ^{h/}	79	1	106	8	137	6,103	383
2004-2005 ^{h/}	86	0	199	36	115	4,788	496
2005-2006	270	0	201	13	77	2,572	190
2006-2007 ^{i/}	152	2	37	9	20	3,410	338
2007-2008 ^{i/}	99	1	70	19	69	1,963	148
2008-2009 ^{i/}	65	0	158	40	17	1,125	26
2009-2010 ^{i/}	36	0	314	2	15	1,801	51
2010-2011 ^{i/j/}	104	2	256	43	150	2,414	78 ^{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, Sprowl, and Tomki creeks.

i/ Cañon and Sproul 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 13, 2011.

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 ^{b/}	14	2	75	5	26	2	52	4

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

b/ Preliminary.

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

Year or Avg.	Gold Ray Dam, Rogue River ^{a/}				Winchester Dam, Umpqua River ^{a/}			
	Natural	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 ^{c/}	9.6	11.5	21.1	1.9	6.1	7.8	13.9	3.8

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.

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/}	-	-	-

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	100	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 ^{b/}	57	0	24	1	27	2	56	3	a/	a/	75	6	301	7	46	14	a/	a/	87	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	119,498	3,680	2,875	66,039	18,180	32,580	4,951	6,801	5,870	1,976	23,700		
1996	54,437	149	-	33,358	6,100	20,400	3,997	1,787	1,730	627	15,900		
1997	53,560	300	-	34,536	1,900	26,200	4,625	1,877	2,196	505	18,100		
1998	52,651	100	49	43,497	2,800	33,100	3,768	1,055	1,611	407	22,900		
1999	63,348	349	-	52,584	5,500	38,900	3,985	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	149,970	7,900	5,800	120,164	10,800	83,100	5,903	5,208	3,520	2,924	58,300		
2003	163,329	1,900	8,200	123,352	13,500	87,600	5,600	15,972	5,057	4,565	45,626		
2004	195,839	8,500	7,500	143,242	12,000	95,200	12,675	16,514	7,426	4,339	67,791		
2005	85,969	3,400	4,400	59,495	5,800	35,453	7,668	9,353	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	43,904	100	700	27,016	4,600	14,151	5,447	2,986	2,252	1,617	15,757		
2009 ^{e/}	54,285	349	2,000	39,400	4,500	25,795	2,921	5,977	1,428	402	18,805		
2010 ^{e/}	153,034	3,349	6,200	107,675	22,700	65,293	8,057	8,849	2,797	764	43,063		

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 ^{e/}		Up. Col. River Escapement ^{f/}		Hatchery Escapement ^{g/}
		Commercial	Sport			Commercial ^{c/}	Ceremonial/ Subsistence	Zone 6 Escapement ^{d/}	Hatchery	Wild	Hatchery	Wild	
1976-1980	55,897	185	0	55,712	-	259	1,714	53,740	2,903	6,413	2,800	2,241	2,500
1981-1985	70,328	1,706	393	68,229	-	1,024	2,545	64,660	7,508	10,787	4,831	3,239	10,058
1986-1990	107,959	2,378	1,356	104,225	-	186	6,771	97,268	19,648	10,192	5,881	3,089	16,842
1991-1995	63,355	511	710	62,134	-	15	3,730	58,389	7,097	7,015	5,698	1,546	9,979
1996	55,559	46	17	55,496	0	0	2,911	52,585	3,179	3,788	1,959	371	4,861
1997	123,824	53	13	123,758	0	14	8,309	115,435	39,521	5,310	4,767	697	23,432
1998	43,512	27	14	43,471	0	1	2,224	41,246	6,918	7,587	2,735	377	7,806
1999	43,072	28	21	43,023	0	1	1,983	41,039	3,703	2,856	3,239	369	4,601
2000	186,707	251	116	186,340	0	1,379	9,973	174,988	29,568	8,255	13,840	829	18,810
2001	439,885	2,538	22,719	414,628	168	43,790	10,985	359,686	141,121	45,318	30,813	4,305	40,391
2002	334,543	10,151	16,268	308,180	1,684	24,257	9,208	273,031	67,312	30,248	19,628	1,622	27,768
2003	242,638	3,493	9,611	229,499	1,860	9,205	9,090	209,344	54,951	32,365	11,676	1,174	18,234
2004	221,606	6,233	17,146	198,325	1,616	8,370	9,114	179,225	58,624	21,401	7,573	1,649	17,022
2005	106,920	2,289	7,235	97,397	317	1	6,163	90,916	22,932	10,127	8,865	1,705	11,069
2006	132,583	2,238	4,187	126,158	1,288	0	8,401	116,469	20,248	9,490	9,716	967	12,288
2007	86,247	1,491	3,927	80,829	1,462	3	5,624	73,740	23,308	7,100	8,341	653	10,961
2008 ^{h/}	178,629	6,292	19,612	151,895	1,853	12,314	8,247	129,481	55,587	17,586	12,851	1,211	20,888
2009 ^{h/}	169,296	4,543	15,246	147,489	290	0	11,083	136,116	49,836	14,974	16,025	1,861	18,079
2010 ^{h/}	315,345	9,281	23,535	277,389	3,512	25,008	12,807	236,062	97,770	26,639	22,235	2,003	39,986
GOAL				115,000					35,000 ^{h/}	25,000 ^{h/}			

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

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

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

d/ Bonneville Dam count minus Zone 6 sport, mainstem commercial and ceremonial/subsistence treaty Indian harvest.

e/ Upper Columbia escapement at Rock Island Dam. Does not include Wenatchee, Entiat, and Methow.

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

g/ Preliminary.

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		Zone 6 Escapement ^{e/}	U. Columbia River Escapement ^{f/}
		Commercial ^{c/}	Sport			Commercial ^{d/}	Ceremonial/ Subsistence		
1976-1980	22,566	81	-	22,485	-	38	1,047	21,401	18,161
1981-1985	16,822	55	-	16,767	-	304	669	15,793	12,202
1986-1990	21,244	71	8	21,166	-	708	194	20,264	15,785
1991-1995	13,032	30	15	12,988	-	-	227	12,761	13,347
1996	12,080	15	34	12,031	0	0	374	11,657	10,995
1997	18,274	6	16	18,252	0	0	270	17,982	13,107
1998	16,332	1	27	16,304	0	0	335	15,969	13,387
1999	21,867	1	51	21,815	0	0	411	21,404	20,898
2000	22,595	0	17	22,578	0	0	209	22,369	22,306
2001	52,960	1	64	52,895	0	150	542	52,203	53,170
2002	89,548	8	1,471	88,069	98	74	2,019	85,878	96,326
2003	83,120	36	2,007	81,077	361	3,587	710	76,419	83,004
2004	65,498	236	1,107	63,970	226	8,004	390	55,350	67,060
2005	60,445	2,787	1,794	55,864	450	6,415	1,227	47,772	61,227
2006	77,896	4,828	5,249	67,819	346	15,771	548	51,154	52,236
2007	37,017	1,122	2,196	33,699	194	4,564	811	28,130	30,644
2008 ^{g/}	55,532	1,429	2,140	51,963	1,072	8,317	712	41,862	39,305
2009 ^{g/}	53,878	2,546	2,341	48,994	193	10,441	1,209	37,151	49,417
2010 ^{g/}	72,346	4,740	2,738	64,638	145	15,569	h/	48,924	49,265
GOAL	29,300 ^{i/}								

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/ Bonneville Dam count minus Zone 6 mainstem sport, and treaty Indian commercial, and ceremonial/subsistence harvest.

f/ Priest Rapids Dam count.

g/ Preliminary.

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

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

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 ^{d/}	123,037	115,993	78,581	5,402	1,642	6,672	30,740
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 ^{e/}	86,245	0	8,914	15,430	26,958	34,943
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 ^{c/}	7,533	0	293	347	6,893	0	
2010 ^{c/}	9,971	0	163	1,134	8,674	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 ^{c/}	Hatchery	Deschutes above/below Sheares Falls ^{d/}			Ice Harbor Dam Count	Total Lower Granite Count	SRW L. Granite Dam Count ^{e/}
				Commercial	Sport ^{b/}			McNary Dam Count	McNary Dam Count	McNary Dam Count			
1971-1975	110,500	80,400	35,100	29,300	3,100	36,800	2,600	NA	39,500	5,600	-	-	
1976-1980	92,301	72,360	32,160	19,180	980	29,480	1,980	NA	31,080	1,160	532	532	
1981-1985	111,873	94,120	26,700	13,880	3,020	46,060	8,100	NA	51,042	1,583	586	450	
1986-1990	291,407	222,337	100,379	61,499	13,613	90,709	13,231	7,081	107,252	4,369	691	289	
1991-1995	105,302	99,028	20,813	5,000	5,095	51,424	9,419	7,342	61,362	3,352	903	473	
1996	143,155	135,499	29,868	3,717	8,918	59,598	15,905	10,233	73,929	3,810	1,308	639	
1997	161,735	152,941	42,637	1,429	11,506	68,889	13,114	20,208	67,192	2,752	1,451	797	
1998	141,575	137,509	33,760	770	8,137	54,297	18,798	15,908	63,791	4,220	1,909	306	
1999	165,889	155,756	38,822	2,133	15,173	48,372	30,272	7,389	78,356	6,586	3,381	905	
2000	156,595	145,104	36,501	5,551	10,545	66,512	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	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	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	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	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	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	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	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	23,468	6,908	101,869	21,896	16,628	2,222	
2009 ^{f/}	212,047	190,695	58,616	11,601	17,310	87,585	15,762	6,429	104,544	24,824	15,167	2,126	
2010 ^{f/}	255,492	247,620	81,625	15,741	19,869	78,256	35,000	NA	146,924	46,541	41,815	NA	
GOAL									40,000 ^{g/}				

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/ 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).

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

f/ Preliminary based on inseason run update.

g/ FMP goal. The U.S. v. Oregon parties managed for a McNary Dam escapement of 45,000 beginning in 1990 to account for increased hatchery brood stock needs and concern for the Snake River wild fall Chinook stock; 46,000 beginning in 1994 to account for the Hanford Reach sport fishery; 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 ^{d/}	68,765	50,878	24,749	5,759	3,173	16,453	18,631
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			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		
Spring Chinook^{g/}															
'79-'80	146,497	11,427	h/	1,150	-	2,900	55,712	-	-	259	--	1,714	12,653	2,900	17,525
'81-'85	200,328	19,568	h/	2,233	-	8,197	68,229	-	925	1,024	--	2,545	22,726	8,197	34,492
'86-'90	283,523	39,688	h/	5,686	-	14,138	104,225	-	3,366	186	--	6,771	48,740	14,138	69,835
'91-'95	182,853	33,232	h/	3,010	376	4,042	62,134	-	1,227	15	--	3,730	37,469	4,343	45,557
1996	109,996	13,206	h/	17	789	154	55,496	-	40	0	--	2,911	13,263	943	17,117
1997	177,384	8,270	h/	13	1,821	309	123,758	-	7,387	14	--	8,309	15,670	2,130	26,123
1998	96,163	10,350	h/	63	2,313	100	43,471	-	1,679	1	--	2,224	12,092	2,413	16,730
1999	106,420	14,940	h/	21	1,980	351	43,023	-	211	1	--	1,983	15,172	2,331	19,487
2000	258,899	17,582	h/	351	6,631	1,237	186,340	-	11,497	1,379	--	9,973	29,430	7,868	48,650
2001	540,551	17,419	h/	27,014	9,719	5,279	414,628	168	56,684	22,019	21,696	10,985	101,285	14,998	170,983
2002	484,513	28,588	h/	22,045	12,251	17,407	308,180	1,684	25,839	17,930	6,324	9,208	78,157	29,658	141,276
2003	405,967	31,924	h/	17,781	8,783	4,658	229,499	1,860	21,117	6,363	2,842	9,090	72,683	13,441	104,419
2004	417,445	35,584	h/	24,638	11,643	14,489	198,325	1,616	22,471	5,256	3,114	9,114	84,310	26,132	127,926
2005	192,889	15,755	h/	11,635	2,553	5,647	97,397	317	6,545	1	--	6,163	34,252	8,200	48,616
2006	223,617	18,826	h/	7,087	7,581	5,106	126,158	1,288	3,686	0	--	8,401	30,887	12,687	51,975
2007	155,577	14,549	h/	6,527	6,968	3,336	80,829	1,462	5,075	3	--	5,624	27,613	10,304	43,544
2008	222,533	7,574	h/	20,312	4,586	6,007	151,895	1,853	19,341	12,314	--	8,247	49,080	10,593	80,234
2009 ^{j/}	223,581	7,727	h/	17,246	4,275	4,521	147,489	290	17,455	0	--	11,083	42,717	8,796	62,596
2010 ^{j/}	468,379	27,492	h/	29,735	26,142	10,807	277,389	3,512	38,023	25,008	--	12,807	98,762	36,949	173,526
Summer Chinook^{g/j/}															
'79-'80	22,566	-	-	-	-	81	22,485	-	-	38	--	1,047	0	81	1,165
'81-'85	16,822	-	-	-	-	55	16,767	-	-	304	--	669	0	55	1,028
'86-'90	21,244	-	-	8	-	71	21,166	-	-	1,180	--	194	8	71	980
'91-'95	13,032	-	-	15	-	30	12,988	-	-	-	--	227	15	30	271
1996	12,080	-	-	34	-	15	12,031	-	-	-	-	374	34	15	423
1997	18,274	-	-	16	-	6	18,252	-	-	-	-	270	16	6	292
1998	16,332	-	-	27	-	1	16,304	-	-	-	-	335	27	1	363
1999	21,867	-	-	51	-	1	21,815	-	-	-	-	411	51	1	463
2000	22,595	-	-	17	-	0	22,578	-	39	-	-	209	56	0	265
2001	52,960	-	-	64	-	1	52,895	-	82	150	--	542	146	1	839
2002	89,548	-	-	1,471	-	8	88,069	98	197	74	--	2,019	1,766	8	3,872
2003	83,120	-	-	2,007	36	0	81,077	361	223	3,587	--	710	2,591	36	6,959
2004	65,498	-	-	1,107	3	233	63,970	226	157	8,004	--	390	1,490	236	10,151
2005	60,445	-	-	1,794	0	2,787	55,864	450	338	6,415	--	1,227	2,582	2,787	13,205
2006	77,896	-	-	5,249	9	4,819	67,819	346	216	15,771	--	548	5,811	4,828	26,987
2007	37,017	-	-	2,196	0	1,122	33,699	194	294	4,564	--	811	2,685	1,122	9,194
2008	55,532	-	-	2,140	59	1,370	51,963	1,072	188	8,317	--	712	3,400	1,429	13,586
2009 ^{j/}	53,878	-	0	2,341	22	2,524	48,994	193	185	10,441	--	1,209	2,719	2,546	16,915
2010 ^{j/}	72,346	-	0	2,738	20	4,720	64,638	145	48	15,569	--	k/	2,931	4,740	23,240

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		Bonneville Dam Counts	Non-Indian Sport		Treaty Indian						
		Tributary ^{a/}	Buoy 10 Mainstem ^{b/}	Select Area ^{c/}	Mainstem		Mainstem	Tributary ^{d/}	Ticketed Commercial ^{e/}	Non-Ticketed Public Sales	Ceremonial & Subsistence ^{f/}	Sport	Commercial		
Fall Chinook^{h/}															
'79-'80	337,608	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
1996	332,051	1,474	1,322	9,178	4,879	11,937	205,358	5,125	1,479	41,718	21,533	504	18,578	16,816	99,149
1997	322,460	2,615	13,048	8,447	4,002	5,130	214,779	4,300	2,100	40,878	23,757	341	30,510	9,132	104,618
1998	255,379	120	5,441	10,232	1,700	2,350	189,085	4,297	2,324	28,096	16,923	--	22,414	4,050	71,483
1999	313,648	2,462	10,170	8,551	2,009	5,774	242,143	7,375	1,720	43,780	32,883	1,310	30,278	7,783	116,034
2000	254,445	320	4,549	7,422	2,007	11,539	192,815	4,324	1,988	37,514	13,635	269	18,603	13,546	83,567
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 ^{j/}	428,981	7,616	4,218	14,954	10,973	32,668	351,920	8,124	3,330	63,498	12,008	15	38,242	43,641	157,404
2010 ^{j/}	556,191	7,576	6,393	16,600	12,712	32,681	468,284	11,209	NA	118,447	13,029	27	41,778	45,393	218,675
Total Chinook															
'79-'80	506,672	13,253	-	1,728	20,800	39,608	214,075	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	235,764	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	384,197	5,825	3,454	119,758	4,765	12,656	85,804	212,085	431,256
'91-'95	436,153	36,773	6,224	5,658	1,531	18,765	220,611	4,150	1,811	33,424	4,732	4,482	53,371	20,295	116,304
1996	454,128	14,680	1,322	9,229	5,668	12,106	272,885	5,125	1,519	41,718	21,533	3,789	31,875	17,774	116,689
1997	518,117	10,885	13,048	8,476	5,823	5,445	356,789	4,300	9,487	40,892	23,757	8,920	46,196	11,268	131,033
1998	367,874	10,470	5,441	10,322	4,013	2,451	248,860	4,297	4,003	28,097	16,923	2,559	34,533	6,464	88,576
1999	441,935	17,402	10,170	8,623	3,989	6,126	306,981	7,375	1,931	43,781	32,883	3,704	45,500	10,115	135,983
2000	535,939	17,902	4,549	7,790	8,638	12,776	401,733	4,324	13,524	38,893	13,635	10,451	48,089	21,414	132,482
2001	1,142,247	20,390	12,287	35,761	13,919	28,218	867,933	8,090	59,566	102,128	53,093	11,892	136,094	42,137	345,344
2002	1,307,401	36,377	18,273	44,751	20,150	51,843	870,897	12,953	31,976	114,281	40,242	11,684	144,331	71,993	382,535
2003	1,383,013	43,923	14,873	45,719	18,179	59,278	920,912	11,488	25,830	104,772	33,949	10,483	141,834	77,457	368,530
2004	1,281,967	43,963	15,201	42,713	24,046	55,095	845,564	12,139	26,843	125,093	18,493	9,920	140,860	79,141	373,538
2005	837,343	23,565	9,983	33,540	11,230	34,665	570,318	9,877	11,190	98,879	22,058	7,960	88,155	45,895	263,141
2006	723,946	25,878	1,620	25,783	12,412	33,069	493,138	6,770	7,871	74,613	18,849	9,340	67,922	45,481	216,234
2007	412,222	17,249	3,389	16,611	10,618	16,143	274,343	6,570	7,388	38,568	11,085	6,705	51,207	26,761	134,339
2008	727,050	11,073	7,764	33,333	17,140	35,055	518,853	9,947	22,176	111,599	18,055	8,999	84,293	52,195	274,869
2009 ^{j/}	706,440	15,343	4,218	34,541	15,270	39,713	548,403	8,607	20,970	73,939	12,008	12,307	83,678	54,983	236,915
2010 ^{j/}	1,096,916	35,068	6,393	49,074	38,874	48,208	810,311	14,865	38,071	159,024	13,029	12,834	143,472	87,082	415,441

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	148.1	19.4	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	274.1	79.0	9.0	19.9	124.5	1.0	40.7	2.3	38.4	10.0	
2000	547.6	168.4	21.5	37.7	288.6	5.6	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	3.6	88.6	1.6	86.9	2.9	
2003	677.3	257.3	54.4	23.3	205.4	11.2	125.7	5.8	120.0	3.9	
2004	442.5	119.6	15.2	13.5	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	386.4	63.4	3.7	16.7	191.1	9.5	102.1	8.1	94.1	0.7	
2007	331.1	40.3	8.4	24.0	161.0	4.9	92.5	8.0	84.5	2.0	
2008	493.8	60.4	8.6	42.3	240.9	6.2	135.5	21.6	113.9	1.1	
2009	729.8	124.2	48.1	39.9	260.4	32.3	244.9	8.9	236.0	2.4	
2010 ^{g/}	441.1	76.3	8.0	26.7	187.3	22.1	102.7	7.1	95.6	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		Catch Per Trip
		Chinook	Coho	
1982-1985	30,996	4,040	30,547	0.97
1986-1990 ^{b/c/}	130,633	22,107	82,910	0.78
1991-1995 ^{d/}	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 ^{e/}	52,300	6,807	7,980	0.28

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

b/ 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

c/ 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.

d/ 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.

e/ 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 ^{e/}	-	4,349	3,851	2,838	21,444	32,482
2005 ^{e/}	-	6,523	6,630	1,978	18,514	33,645
2006 ^{e/}	-	12,334	6,442	3,739	24,569	47,084
2007 ^{e/}	-	4,112	2,579	1,907	13,839	22,437
2008 ^{e/}	-	3,595	2,904	1,507	15,241	23,247
2009 ^{e/}	-	6,868	4,552	2,251	20,333	34,004
2010 ^{e/}	-	6,903	NA	NA	NA	NA
GOAL				4,350 ^{f/}	9,800 ^{f/}	

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/ 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	48,854	106,933
1997	1,550	806	4,934	6,691	13,981
1998	13,140	852	13,807	6,902	34,701
1999	5,467	2,836	9,628	22,823	40,754
2000	10,193	1,780	23,031	29,387	64,391
2001	31,837	5,689	48,414	54,359	140,299
2002	59,435	5,683	58,703	48,871	172,692
2003	66,460	5,881	49,398	66,115	187,854
2004 ^{e/}	16,533	2,325	38,672	19,216	76,746
2005 ^{e/}	50,031	3,867	26,493	40,679	121,070
2006 ^{e/}	19,948	811	12,563	7,831	41,153
2007 ^{e/}	8,218	955	13,723	9,002	31,898
2008 ^{e/}	16,699	1,221	18,474	9,743	46,137
2009 ^{e/}	75,417	6,257	48,774	20,306	150,754
2010 ^{e/}	28,568	NA	NA	NA	NA
GOAL			13,090 ^{f/}	6,100 ^{g/}	

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

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	NA	NA	-	NA
GOAL						1,400		

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 ^{h/}
1991-1995	206	5,000	7,750	901	3,794	12,044	3,006	32,496 ^{h/}
1996	148	1,441	4,068	49	7,456	16,988	4,307	34,309 ^{h/}
1997	24	2,796	6,630	311	2,687	16,342	2,416	31,183 ^{h/}
1998	5	267	4,135	0	2,912	11,476	1,921	20,711 ^{h/}
1999	0	87	1,926	1	114	9,196	1,990	13,315 ^{h/}
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	313	13,570	1,631	18,181
2009 ^{g/}	0	1,193	2,485	0	0	7,215	1,125	12,018
2010 ^{g/}	0	1,495	3,403	0	NA	NA	NA	NA
GOAL						14,600		

a/ Age-3 and older.

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

c/ Includes naturally spawning fish taken 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/ 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 Tribal Gillnet		Natural	Hatchery	Natural	Hatchery	Total ^{d/}
				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	666	13,083	110,066	45,300	110,969	76,108	187,077
2003	6,623	12,041	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	28,513	858	16,053	69,733	45,174	88,405	56,792	145,197
2010 ^{e/}	3,990	25,314	2,519	NA	NA	NA	NA	NA	NA
GOAL					35,400				

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.

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

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/}	41,806	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	-	N/A	-	N/A	-	N/A
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 ^{e/}	1,522	65	209	NA	NA	NA	NA
2010 ^{e/}	1,723	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/}	25,003	1,697	865	9,200	0	NA	NA	0	NA	NA
2010 ^{g/}	21,107	NA	NA	NA	0	NA	NA	0	NA	NA
GOAL				5,800-14,500						

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

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

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

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

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

f/ Poor conditions during the coho spawner survey season precluded conduct of an independent spawner escapement estimate.

g/ Preliminary. In-season effort model used to scale run size to observed catch and effort, natural escapement, and actual hatchery rack escapement.

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/f/}	30	106	136	3	2	5	12	880	2	913	110	1,023	
2010 ^{d/e/f/}	24	83	107	0	0	0	NA	NA	0	NA	83	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 ^{d/}	660	30	192	1,556	0	2,427	11	2,438
2008 ^{d/}	659	0	278	2,849	0	3,761	25	3,786
2009 ^{d/}	651	0	140	2,081	0	2,851	21	2,872
2010 ^{d/}	342	0	NA	2,347	0	NA	0	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 ^{f/}	1,764	30	305	3,072	0	5,120	51	5,171
2008 ^{f/}	1,788	4	204	2,461	67	4,308	220	4,528
2009 ^{f/}	4,294	0	505	4,615	0	8,224	685	8,909
2010 ^{f/}	2,638	0	NA	NA	0	NA	468	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/}	564	0	NA	702	880	828	1,318	2,146
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 are 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/}	1,814	0	NA	4,386	0	6,182	18	6,200
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 are 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	2,413	0	141	604	1,832	1,620	3,222	4,842
2007	645	0	200	792	4,778	1,029	5,399	6,428
2008 ^{f/}	1,376	0	198	706	6,419	1,010	7,689	8,699
2009 ^{f/}	3,645	0	233	1,337	8,085	2,355	10,945	13,300
2010 ^{f/g/}	1,378	0	NA	276	1,644	737	2,561	3,298
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	9,643	0	291	5,210	4,450	12,195	7,433	19,628
2007	10,152	0	826	6,232	5,423	10,942	11,711	22,653
2008 ^{f/}	15,659	10	478	6,947	12,098	12,866	22,326	35,192
2009 ^{f/}	36,693	0	4,620	7,863	23,373	24,508	48,041	72,549
2010 ^{f/g/}	26,639	10	NA	9,322	23,325	21,699	37,597	59,296
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 are unavailable.

h/ Regulations required nonretention of coho.

TABLE B-38. 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	Non-Indian	9,046	19,218	2	530,372	50,474
	Treaty Indian	67,061	153,748	58	264,486	286,187
	Total	76,107	172,966	60	794,858	336,661
1997	Non-Indian	21,894	10,454	869,345	229,261	690,236
	Treaty Indian	56,638	133,150	1,007,380	188,850	678,489
	Total	78,532	143,604	1,876,725	418,111	1,368,725
1998	Non-Indian	12,428	12,538	352	505,349	229,313
	Treaty Indian	43,273	148,441	512	320,122	308,446
	Total	55,701	160,979	864	825,471	537,759
1999	Non-Indian	9,512	11,902	1,109	133,404	37
	Treaty Indian	83,686	102,278	51,432	117,763	20,495
	Total	93,198	114,180	52,541	251,167	20,532
2000	Non-Indian	11,468	21,910	9	140,611	230,379
	Treaty Indian	71,551	386,714	346	159,477	315,628
	Total	83,019	408,624	355	300,088	546,007
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

TABLE B-38. 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
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
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	120,255	209,677	301,846	782,678	6,327
	Total	127,040	223,112	502,533	1,463,063	12,593
2008 ^{c/}	Non-Indian	6,103	6,464	14	449,348	16,319
	Treaty Indian	103,293	227,459	744	575,727	44,865
	Total	109,396	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	87,395	259,451	1,947,946	355,780	2,949
	Total	90,148	279,542	4,737,816	650,621	4,554
2010 ^{c/}	Non-Indian	7,922	18,220	309	416,252	749,668
	Treaty Indian	85,278	152,937	1,754	520,975	1,225,316
	Total	93,200	171,157	2,063	937,227	1,974,984

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-39. 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 ^{c/}	156,183	196,632	14,910
1986-1990 ^{c/d/e/}	127,860	251,087	40,884
1991-1995 ^{e/f/}	77,310	137,637	71,030
1996 ^{e/}	72,069	85,139	50
1997 ^{e/}	60,425	137,571	35,197
1998 ^{e/}	26,114	89,520	201
1999 ^{e/}	28,739	22,055	23,780
2000 ^{e/}	23,679	74,934	17
2001 ^{e/}	44,422	193,454	117,367
2002 ^{e/g/}	30,743	66,576	31
2003 ^{e/g/}	30,859	101,561	148,965
2004 ^{e/g/}	27,121	88,036	213
2005 ^{e/g/}	22,758	62,110	68,166
2006 ^{e/g/}	29,512	29,726	23
2007 ^{e/g/}	50,357	77,475	105,831
2008 ^{e/g/}	29,788	23,794	12
2009 ^{e/g/}	34,377	96,309	177,255
2010 ^{e/g/}	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.

b/ Odd-year averages for pink salmon.

c/ 1981-1987: Adjusted all Puget Sound and freshwater estimates by 0.833, due to previous estimates being 20% too high.

d/ 1988: Area 5, no adjustment. Areas 6-13 adjusted by 0.633, due to estimates being 58% too high.

e/ 1989-Present: Area 5, no adjustment. Areas 6-13 adjusted by 0.685, due to estimates being 46% too high.

f/ 1991, 1992, and 1993 catch record card estimates adjusted for results of 1987-1990 WDFW/tribal sports emphasis study.

g/ Preliminary.

TABLE B-40. 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 ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	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 ^{d/}	4	5	9	1,660	1,947	3,607	1,664	1,952	3,616
2002 ^{d/}	5	7	12	1,558	2,182	3,740	1,563	2,189	3,752
2003 ^{d/}	7	16	23	1,258	2,787	4,045	1,265	2,803	4,068
2004 ^{d/}	6	17	23	1,364	4,033	5,397	1,370	4,050	5,420
2005 ^{d/}	6	9	15	1,401	2,083	3,484	1,407	2,092	3,499
2006 ^{d/}	8	15	23	1,234	3,145	4,379	1,242	3,160	4,402
2007 ^{d/}	3	4	7	769	1,353	2,122	772	1,357	2,129
2008 ^{d/}	12	23	35	683	1,182	1,865	695	1,205	1,900
2009 ^{d/}	1	10	11	1,530	1,254	2,784	1,531	1,264	2,795
2010 ^{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 ^{d/}	21,205	28,241	49,446	6,306	9,876	16,182	27,511	38,117	65,628
2002 ^{d/}	10,313	28,421	38,734	4,325	13,593	17,918	14,638	42,014	56,652
2003 ^{d/}	6,660	12,200	18,860	3,356	7,864	11,220	10,016	20,064	30,080
2004 ^{d/}	4,822	5,814	10,636	3,097	4,325	7,422	7,919	10,139	18,058
2005 ^{d/}	8,398	3,973	12,371	2,461	1,655	4,116	10,859	5,628	16,487
2006 ^{d/}	16,193	9,189	25,382	3,857	2,699	6,556	20,050	11,888	31,938
2007 ^{d/}	9,870	7,679	17,549	4,453	4,535	8,988	14,323	12,214	26,537
2008 ^{d/}	13,577	5,772	19,349	6,271	3,516	9,787	19,848	9,288	29,136
2009 ^{d/}	4,974	6,377	11,351	3,494	6,054	9,548	8,468	12,431	20,899
2010 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				1,800					

TABLE B-40. 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 ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	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 ^{d/}	3	249	252	150	13,793	13,943	153	14,042	14,195
2002 ^{d/}	2	324	326	101	19,591	19,692	103	19,915	20,018
2003 ^{d/}	10	323	333	298	9,777	10,075	308	10,100	10,408
2004 ^{d/}	5	557	562	226	23,553	23,779	231	24,110	24,341
2005 ^{d/}	41	2,576	2,617	331	20,803	21,134	372	23,379	23,751
2006 ^{d/}	30	1,696	1,726	368	20,768	21,136	398	22,464	22,862
2007 ^{d/}	54	1,658	1,712	370	11,281	11,651	424	12,939	13,363
2008 ^{d/}	47	3,315	3,362	164	11,664	11,828	211	14,979	15,190
2009 ^{d/}	57	5,142	5,199	77	6,955	7,032	134	12,097	12,231
2010 ^{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/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				3,400					

TABLE B-40. 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 ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	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 ^{d/}	5,115	293	5,408	872	9,513	10,385	5,987	9,806	15,793
2002 ^{d/}	5,193	58	5,251	2,542	8,808	11,350	7,735	8,866	16,601
2003 ^{d/}	8,796	145	8,941	5,655	6,435	12,090	14,451	6,580	21,031
2004 ^{d/}	5,747	103	5,850	6,124	12,112	18,236	11,871	12,215	24,086
2005 ^{d/}	7,370	241	7,611	3,592	5,447	9,039	10,962	5,688	16,650
2006 ^{d/}	4,016	194	4,210	4,017	9,562	13,579	8,033	9,756	17,789
2007 ^{d/}	3,380	28	3,408	6,222	4,769	10,991	9,602	4,797	14,399
2008 ^{d/}	1,518	144	1,662	5,720	10,155	15,875	7,238	10,299	17,537
2009 ^{d/}	1,309	173	1,482	2,422	3,291	5,713	3,731	3,464	7,195
2010 ^{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 ^{d/}	21,603	18,557	40,160	55,026	42,069	97,095	76,629	60,626	137,255
2002 ^{d/}	22,549	15,845	38,394	46,744	41,135	87,879	69,293	56,980	126,273
2003 ^{d/}	23,916	13,122	37,038	33,234	25,457	58,691	57,150	38,579	95,729
2004 ^{d/}	20,860	15,403	36,263	45,760	26,864	72,624	66,620	42,267	108,887
2005 ^{d/}	21,825	6,496	28,321	52,049	12,540	64,589	73,874	19,036	92,910
2006 ^{d/}	40,430	14,284	54,714	63,541	22,691	86,232	103,971	36,975	140,946
2007 ^{d/}	64,716	13,720	78,436	75,549	16,389	91,938	140,265	30,109	170,374
2008 ^{d/}	43,567	16,559	60,126	47,042	15,659	62,701	90,609	32,218	122,827
2009 ^{d/}	33,348	5,302	38,650	39,336	7,955	47,291	72,684	13,257	85,941
2010 ^{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-41. 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/}	5,242	1,634	6,876	9,838	14,064	23,902	15,822	15,893	31,715
2010 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						7,008-10,978			
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/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				17,900					

TABLE B-41. 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/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL	14,857-25,000								
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/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL	10,750-14,350								

TABLE B-41. 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/}	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/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					31,000-50,000				

TABLE B-41. 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/}	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-42. 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/}	NA	NA	NA	NA	NA	NA	NA	NA	NA	
GOAL	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/}	NA	NA	NA	NA	NA	NA	NA	NA	NA	
GOAL					50,000					

TABLE B-42. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks.^{a/}
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Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total	Hatchery ^{b/}	Natural	Total
Skagit									
1981	403	150,626	151,029	268	100,268	100,536	671	250,894	251,565
1983	4	19,023	19,027	128	470,128	470,256	132	489,151	489,283
1985	9	229,993	230,002	30	710,030	710,060	39	940,023	940,062
1987	1,090	421,176	422,266	1,535	593,535	595,070	2,625	1,014,711	1,017,336
1989	8	661,061	661,069	5	401,300	401,305	13	1,062,361	1,062,374
1991	0	188,927	188,927	0	351,000	351,000	0	539,927	539,927
1993	0	180,088	180,088	0	530,000	530,000	0	710,088	710,088
1995	0	568,561	568,561	0	857,000	857,000	0	1,425,561	1,425,561
1997	0	57,710	57,710	0	60,000	60,000	0	117,710	117,710
1999	0	32,626	32,626	0	320,000	320,000	0	352,626	352,626
2001	0	206,533	206,533	0	894,061	894,061	0	1,100,594	1,100,594
2003	0	232,732	232,732	0	567,080	567,080	0	799,812	799,812
2005 ^{d/}	0	20,147	20,147	0	60,000	60,000	0	80,147	80,147
2007 ^{d/}	0	13,154	13,154	0	300,000	300,000	0	313,154	313,154
2009 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					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/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				Not Agreed Upon					

TABLE B-42. 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/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL - Stillaguamish					155,000				
GOAL - 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 ^{e/}	3	2,330	2,333	21	10,619	10,640	24	12,949	12,973
1995 ^{e/}	13	5,163	5,176	84	18,278	18,362	97	23,441	23,538
1997 ^{e/}	0	449	449	0	2,965	2,965	0	3,414	3,414
1999 ^{e/}	0	80	80	12	4,670	4,682	12	4,750	4,762
2001 ^{e/f/}	5	735	740	48	16,173	16,221	53	16,908	16,961
2003 ^{e/f/}	1	5,393	5,394	68	185,277	185,345	69	190,670	190,739
2005 ^{d/e/f/}	0	3,964	3,964	0	466,435	466,435	0	470,399	470,399
2007 ^{d/e/f/}	0	19,162	19,162	0	615,678	615,678	0	634,840	634,840
2009 ^{d/e/f/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					25,000				

TABLE B-42. 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/ Nisqually escapement estimate incomplete.

f/ Large runs of pinks have returned to Green River in 2001, 2003, 2005, and 2007; 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-43. 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	15	1,408	0	152	317	70	149
1986-1990	155	1,826	0	235	280	408	125
1991-1995	815	907	770	266	222	1,065	19
1996	856	1,051	1,070	534	203	1,625	12
1997	1,220	1,041	1,663	520	180	1,609	16
1998	1,054	1,086	1,370	368	157	2,710	5
1999	3,171	471	2,873	823	166	1,550	4
2000	1,102	1,021	1,204	1,245	284	2,363	0
2001	1,566	1,856	1,006	2,185	267	5,690	0
2002 ^{e/}	1,606	1,065	5,649	3,741	289	1,780	0
2003 ^{e/}	1,537	844	6,250	2,857	204	2,760	0
2004 ^{e/}	3,107	1,622	3,533	1,746	130	1,115	0
2005 ^{e/}	2,254	1,305	1,569	2,167	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/}	2,040	1,474	1,194	1,266	443	3,821	0
2009 ^{e/}	1,215	983	769	1,903	45	2,327	0
2010 ^{e/}	580	1,361	NA	NA	NA	2,353	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.