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

LIST OF TABLES

LIST OF TABLES
(continued)

Page

TABLE B-1. California Central Valley natural fall chinook salmon spawning escapements in numbers of fish.[a/]

Year or Average	Upper Sacramento River		Lower Sacramento River								Sacramento River Totals		San Joaquin River Totals		Central Valley Totals	
			Feather River		Yuba River		American River		Total							
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1971-1975	58,462	18,289	40,221	9,745	10,877	1,615	41,726	3,695	92,824	15,055	151,286	33,344	13,462	1,345	164,748	34,690
1976-1980	67,011	17,905	33,954	3,544	7,387	1,563	28,509	1,344	69,850	6,452	136,861	24,357	2,886	763	139,747	25,120
1981-1985	57,793	22,432	36,252	5,243	12,825	5,146	32,332	4,954	81,409	15,343	139,202	37,775	34,930	10,721	174,132	48,496
1986-1990	87,397	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	33,814
1991	35,258	4,633	28,524	2,821	11,164	2,844	16,456	1,627	56,144	7,292	91,402	11,925	764	153	92,166	12,078
1992	31,734	9,112	19,790	4,315	4,517	1,845	3,416	1,395	27,723	7,555	59,457	16,667	1,094	846	60,551	17,513
1993	55,144	5,409	27,367	3,556	5,818	885	22,227	6,527	55,412	10,968	110,556	16,377	2,659	751	113,215	17,128
1994	66,383	20,371	31,013	7,369	7,046	3,844	28,589	2,931	66,647	14,145	133,030	34,516	4,168	1,253	137,197	35,770
1995	112,234	17,958	56,197	3,715	12,998	1,239	72,056	8,274	141,252	13,227	253,486	31,185	4,445	1,515	257,931	32,700
1996	131,267 [b/]	11,650 [b/]	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	167,354	13,736	47,009	3,538	19,202	6,746	46,036	6,159	112,246	16,444	279,600	30,180	17,983	1,146	297,583	31,326
1998	60,713 [b/]	5,137 [b/]	39,600 [c/]	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 [c/]	7,500	18,778	5,452	48,311	8,688	97,089	21,640	353,719	29,135	10,708	7,185	364,427	36,319
2000	152,923	3,900	107,834	6,883	12,954	2,041	93,413	5,646	214,201	14,570	367,124	18,470	36,896	2,578	404,019	21,049
2001	130,440	5,132	169,588	9,114	20,638	1,746	167,062	13,553	357,288	24,413	487,728	29,545	23,899	3,705	511,626	33,251
2002	481,924 [d/]	9,009	93,766	11,397	18,406	4,796	95,711	10,634	207,883	26,828	689,806	35,837	21,852	3,788	711,658	39,625
2003	164,802	4,402	84,380	4,440	27,618	1,279	136,238	9,627	248,236	15,346	413,038	19,748	14,497	2,185	427,535	21,933
2004[e/]	70,557	7,221	43,495	4,833	9,260	5,208	79,774	16,339	132,529	26,380	203,086	33,601	5,116	6,161	208,202	39,762

a/ Upper Sacramento River jack estimates based on Red Bluff Diversion Dam samples. All other estimates generally are based on carcass surveys. (Adult and jack numbers generally are based on a 24-inch fork length cut-off [unpublished CDFG data.]) Upper Sacramento River estimates also include Tehama-Colusa Spawning Channel for 1971 to 1980. For years prior to 2004, all numbers in this table were reviewed and updated by CDFG in 2003 to reflect CDFG final project reports.

b/ Total includes Butte Creek, for which a fall spawner survey was conducted in 1996 and 1998.

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

d/ Change in estimation methodology (due to extremely high Battle Creek escapement in 2002).

e/ Preliminary.

TABLE B-2. California Central Valley hatchery fall chinook salmon spawning escapements in numbers of fish.[a/]

Year or Average	Sacramento Hatcheries								San Joaquin Hatcheries						Central Valley Hatchery Totals	
	Coleman[b/]		Feather River		Nimbus		Totals		Mokelumne River		Merced River		Totals			
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults[c/]	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	7,238	1,990	17,198	4,760	271	59	346	23	617	82	17,814	4,842
1981-1985	11,557	3,734	6,845	884	10,072	2,257	29,832	7,689	759	734	797	449	1,556	1,183	31,388	8,872
1986-1990	11,507	2,288	5,837	1,947	5,685	1,349	23,028	5,584	278	286	299	140	577	426	23,605	6,010
1991	10,031	652	9,227	1,490	6,772	356	26,030	2,498	32	10	32	9	64	19	26,094	2,517
1992	6,257	1,019	10,324	6,116	5,107	1,349	21,688	8,483	264	446	123	245	387	691	22,074	9,175
1993	7,056	531	10,228	1,763	7,342	3,314	24,626	5,608	1,542	622	234	175	1,776	797	26,402	6,405
1994	11,585	7,406	11,341	3,861	7,676	891	30,601	12,159	1,168	751	497	446	1,665	1,197	32,266	13,356
1995	24,810	1,867	11,566	583	5,172	1,326	41,548	3,776	2,378	945	311	291	2,689	1,236	44,237	5,012
1996	18,848	2,330	6,494	1,613	7,177	474	32,519	4,417	1,828	2,055	395	746	2,223	2,801	34,742	7,218
1997	44,590	6,080	13,358	1,770	5,328	322	63,276	8,172	6,305	189	838	108	7,143	297	70,419	8,469
1998	42,400	1,951	17,567	1,322	9,949	1,839	69,915	5,113	2,506	585	347	452	2,853	1,037	72,768	6,150
1999	23,194	3,776	12,822	1,104	6,207	3,553	42,224	8,432	1,610	1,540	650	987	2,260	2,527	44,483	10,960
2000	20,793	866	16,470	1,676	10,312	848	47,575	3,390	4,566	884	1,615	331	6,181	1,215	53,756	4,605
2001	23,710	988	23,809	610	9,688	1,956	57,207	3,554	4,382	1,427	1,137	523	5,519	1,950	62,726	5,504
2002	61,946	4,112	17,516	2,991	6,231	3,586	85,693	10,689	5,800	2,119	1,250	588	7,050	2,707	92,743	13,396
2003	82,708	5,555	13,606	1,352	11,875	3,012	108,189	9,919	5,108	3,009	392	157	5,500	3,166	113,689	13,085
2004[d/]	51,557	16,672	15,762	5,535	12,741	13,659	80,060	35,866	5,471	4,879	456	594	5,927	5,473	85,987	41,339
GOALS[e/]	9,000	-	5,000	-	6,000	-	20,000	-	5,000	-	1,000	-	6,000	-	26,000	-

a/ For years prior to 2004, all numbers in this table were reviewed and updated by CDFG in 2003 to reflect CDFG final project reports.

b/ Fall spawning fish. Some spring run are included.

c/ Total adults in Sacramento Hatcheries include Tehama-Colusa Fish Facility for 1971 to 1985.

d/ Preliminary.

e/ Hatchery specific goals, not PFMC goals.

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

	Upper Sacramento River										
	Late Fall[a/b/]		Winter[a/b/]		Spring					Grand Totals	
					Tributary[c/]	Sacramento River[a/d/]		Feather River[d/e/]			
Year or Average	Adults	Jacks	Adults	Jacks	Adults and Jacks[f/]	Adults	Jacks	Adults	Jacks	Adults	Jacks
1971-1975	18,193	1,087	22,863	9,063	5,194	5,098	1,718	366	-	51,714	11,650
1976-1980	9,662	1,798	13,499	2,640	1,201	8,335	2,571	375	-	33,073	7,009
1981-1985	8,102	1,746	5,027	921	1,061	9,798	4,241	1,446	133	25,434	7,040
1986-1990	10,047	1,761	1,369	390	1,658	8,795	1,930	2,884	406	24,753	4,487
1991	7,404	859	192	19	798	607	218	4,148	155	13,149	1,251
1992	9,665	727	1,160	80	1,176	320	51	1,323	174	13,644	1,032
1993	1,093	174	250	137	1,007	275	116	3,943	729	6,568	1,156
1994	751	138	62	124	1,684	509	353	2,785	856	5,791	1,471
1995	307 [g/]	16 [g/]	1,267	30	9,398	341	85	5,003	411	16,315	543
1996	1,003 [g/]	382 [g/]	708	629	2,322	314	64	5,571	810	9,918	1,886
1997	4,166 [g/]	412 [g/]	528	352	1,303	36	90	2,970	683	9,003	1,537
1998	40,185 [h/]	5,055 [h/]	2,079	923	23,609	624	491	6,240	506	72,738	6,974
1999	24,475 [h/]	3,986 [h/]	822	2,466	6,104	142	117	3,530	201	35,073	6,770
2000	11,060 [h/]	3,507 [h/]	563	789	5,504	94	38	3,390	267	20,611	4,601
2001	23,956 [h/]	998 [h/]	1,696	3,827	21,430 [i/]	981	j/	4,052	83	52,115	4,908
2002	39,700 [h/]	401 [h/]	7,614	1,555	20,498 [i/]	430	53	3,982	207	72,224	2,216
2003	9,295 [h/]	190 [h/]	6,172	3,585	21,798 [i/]	l/	l/	8,273	389	45,538	4,164
2004[k/]	8,570 [h/]	238 [h/]	7,192	1,516	12,546 [i/]	763	326	3,630	572	32,701	2,652

a/ Estimated number of jacks and adults based on sampling at Red Bluff Diversion Dam (unpublished CDFG data). Beginning in 1987 for late-fall and winter and 1994 for fall, estimates have been based on historical run patterns and partial counts at Red Bluff Diversion Dam, due to the raising of the dam gates during the last part of fall and late-fall runs and first part of the winter run.

b/ Variable numbers of late-fall and winter run are trapped at Keswick Dam and spawned at Coleman or Livingston Stone Hatcheries.

c/ Natural spawning spring run which are isolated from fall run. Primarily Mill, Deer, and Butte Creeks.

d/ Includes fish having characteristics of fall run hybrids. Spawning is not isolated from fall run.

e/ Primarily fish spawned at Feather River Hatchery.

f/ No data available for age composition of tributary spring run.

g/ Primarily number of fish spawned at Coleman hatchery. No data are available for natural spawners, as gates were raised during the time coinciding with late-fall run.

h/ Data from carcass counts of natural spawners and fish spawned at Coleman hatchery.

i/ Includes Butte Creek spring run estimates.

j/ Jack proportion could not be determined.

k/ Preliminary.

l/ Estimates from mainstem Sacramento River not available.

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								
							Klamath River			Trinity River			Total		
			Indian	Sport	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	61,159	25,111	70,785	95,891
	Jacks	20,227	446	4,924	5,370	139	1,009	3,460	4,469	2,285	7,964	10,252	3,294	11,423	14,718
1991	Adults	32,670	10,198	3,383	13,581	956	4,002	6,782	10,784	2,482	4,867	7,349	6,484	11,649	18,133
	Jacks	1,755	62	686	748	19	65	336	401	205	382	587	270	718	988
1992	Adults	26,698	5,785	1,002	6,787	523	3,581	4,889	8,470	3,779	7,139	10,918	7,360	12,028	19,388
	Jacks	13,693	366	4,120	4,486	116	3,737	2,580	6,317	211	2,563	2,774	3,948	5,143	9,091
1993	Adults	57,212	9,636	3,172	12,808	903	20,828	15,953	36,781	815	5,905	6,720	21,643	21,858	43,501
	Jacks	7,598	175	1,925	2,100	54	883	1,360	2,243	736	2,465	3,201	1,619	3,825	5,444
1994	Adults	63,983	11,692	1,832	13,524	1,054	13,808	21,427	35,235	3,264	10,906	14,170	17,072	32,333	49,405
	Jacks	14,371	293	2,556	2,849	77	758	3,740	4,498	4,442	2,505	6,947	5,200	6,245	11,445
1995	Adults	222,768	15,557	6,081	21,638	1,477	22,681	83,918	106,599	15,178	77,876	93,054	37,859	161,794	199,653
	Jacks	22,774	557	4,420	4,977	138	259	8,062	8,321	76	9,262	9,338	335	17,324	17,659
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	11,704	20,994	5,037	6,753	11,790	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	59,260	130,895	25,976	23,468	49,444	97,611	82,728	180,339
	Jacks	10,246	303	1,582	1,885	58	839	3,018	3,857	1,070	3,376	4,446	1,909	6,394	8,303
2001	Adults	187,332	38,645	12,134	50,779	3,608	37,204	41,842	79,046	17,908	35,991	53,899	55,112	77,833	132,945
	Jacks	11,343	399	1,500	1,899	66	1,364	6,411	7,775	267	1,336	1,603	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	2,808	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[b/]	Adults	79,043	25,574	3,959	29,509	2,303	10,582	10,959	21,541	12,399	13,287	25,686	22,981	24,246	47,227
	Jacks	9,709	165	2,690	2,855	69	937	891	1,828	1,044	3,916	4,960	1,981	4,807	6,788
GOAL	Adults													≥35,000	

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

b/ Preliminary.

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

		Spring Run			Fall Run		
Year	Area	Jack	Adult	Total	Jack	Adult	Total
2000	Commercial:Estuary	-	33	33	-	4,104	4,104
	Middle Klamath	-	2	2	-	186	186
	Upper Klamath	-	1	1	-	813	813
	Subsistence:Estuary	5	1,739	1,744	35	13,174	13,209
	Middle Klamath	0	509	509	29	1,049	1,078
	Upper Klamath	8	909	917	111	4,127	4,238
	Trinity River	29	1,325	1,354	128	5,962	6,090
	Total	42	4,518	4,560	303	29,415	29,718
2001	Commercial:Estuary	79	4,637	4,716	63	7,011	7,074
	Upper Klamath	1	58	59	1	51	52
	Subsistence:Estuary	152	8,846	8,998	198	21,956	22,154
	Middle Klamath	0	134	134	28	1,697	1,725
	Upper Klamath	19	1,504	1,523	49	2,976	3,025
	Trinity River	46	4,164	4,210	60	4,954	5,014
	Total	297	19,343	19,640	399	38,645	39,044
2002	Commercial:Estuary	7	1,852	1,859	7	8,952	8,959
	Upper Klamath	-	-	-	-	-	-
	Subsistence:Estuary	25	6,551	6,576	10	11,197	11,207
	Middle Klamath	70	1,310	1,380	10	729	739
	Upper Klamath	24	2,205	2,229	31	2,528	2,559
	Trinity River	40	3,052	3,062	68	1,168	1,236
	Total	166	14,970	15,136	126	24,574	24,700
2003	Commercial:Estuary	4	779	783	12	17,083	17,095
	Upper Klamath	0	0	0	0	0	0
	Subsistence:Estuary	10	1,800	1,810	4	5,604	5,608
	Middle Klamath	0	2,355	2,355	5	1,376	1,381
	Upper Klamath	0	1,730	1,730	11	3,200	3,211
	Trinity River	7	2,380	2,387	12	2,771	2,783
	Total	21	9,044	9,065	44	30,034	30,078
2004[a/]	Commercial:Estuary	2	408	410	13	14,251	14,264
	Upper Klamath	0	0	0	13	547	560
	Subsistence:Estuary	10	2,178	2,188	60	6,605	6,665
	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	19	1,635	1,654
	Total	91	8,591	8,682	165	25,574	25,739

a/ Preliminary.

TABLE B-6. Shasta River fall chinook salmon weir counts or spawning escapement estimates in numbers of fish.[a/]

Year	Adults	Jacks	Total
1931-1935[b/]	37,474	12,690	50,164
1936-1940	26,165	8,223	34,389
1941-1945	9,654	3,129	12,783
1946-1950	1,862	178	2,040
1951-1955	1,577	370	1,947
1956-1960	6,146	1,074	7,220
1961-1965	15,167	4,388	19,555
1966-1970	10,472	1,410	11,882
1971-1975	6,297	2,866	9,163
1976-1980[c/]	6,506	3,194	9,700
1981-1985	4,560	1,942	6,503
1986-1990[e/]	2,403	318	2,721
1991	716	10	726
1992	520	66	586
1993	1,341	85	1,426
1994	3,363	1,840	5,203
1995	12,816	695	13,511
1996	1,404	46	1,450
1997	1,667	334	2,001
1998	2,466	76	2,542
1999	1,296	1,901	3,197
2000	11,025	1,271	12,296
2001	8,452	2,641	11,093
2002	6,432	386	6,818
2003	4,134	155	4,289
2004[f/]	833	129	962

a/ From 1930-1937, 1957-1987 and 1991-1995, the 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).

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

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

d/ Includes 276 females taken to Iron Gate Hatchery in 1981.

e/ Low water conditions appeared to hinder entry into the river this year.

f/ Preliminary.

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

Year	Canon Creek (Mad River)[a/b/]			Sprowl Creek (Eel River)[a/c/]			Tomki Creek (Eel River)[d/]
	Number of Surveys	Chinook	Coho	Number of Surveys	Chinook	Coho	Chinook
1963-1964	12	70	55	-	-	-	-
1964-1965	NA	45	0	-	-	-	1,747
1965-1966	-	-	-	-	-	-	607
1966-1967	NA	334	3	3	1,189	6	-
1967-1968	-	-	-	-	-	-	-
1968-1969	-	-	-	-	-	-	-
1969-1970	-	-	-	-	-	-	-
1970-1971	NA	230	0	-	-	-	103
1971-1972	-	-	-	-	-	-	52
1972-1973	-	-	-	-	-	-	-
1973-1974	-	-	-	-	-	-	-
1974-1975	-	-	-	1	247	0	-
1975-1976	-	-	-	1	339	2	367
1976-1977	-	-	-	-	-	-	-
1977-1978	-	-	-	-	-	-	-
1978-1979	-	-	-	2	534	23	-
1979-1980	-	-	-	2	572	0	2,410
1980-1981	-	-	-	1	164	4	317
1981-1982	3	23	0	2	121	0	1,153
1982-1983	3	68	0	6	169	1	1,807
1983-1984	2	137	0	2	82	0	-
1984-1985[e/]	1	16	0	6	67	13	1,292
1985-1986	10	514	14	6	320	0	3,558
1986-1987[e/]	4	90	3	5	307	13	2,173
1987-1988	4	117	29	3	2,187	4	3,666
1988-1989	2	69	7	3	339	12	556
1989-1990[e/]	4	9	9	5	89	14	-
1990-1991	1	0	3	2	0	0	-
1991-1992[e/]	2	8	0	2	159	0	3
1992-1993[e/]	3	57	1	2	142	2	15
1993-1994	3	20	0	4	171	36	5
1994-1995	3	33	3	7	52	0	21
1995-1996[e/]	1	93	4	3	136	8	69
1996-1997	1	129	4	3	106	8	84
1997-1998	2	55	1	4	97	0	39
1998-1999	2	66	0	4	79	11	45
1999-2000[e/]	8	162	1	7	34	1	24
2000-2001[e/]	3	79	3	4	12	0	50
2001-2002	2	45	6	5	136	25	162 [f/]
2002-2003	3	402	1	6	267	17	5 [f/]
2003-2004[e/]	2	79	1	5	106	8	137 [f/]
2004-2005[e/g/]	4	86	0	5	199	36	113 [f/]

a/ Numbers reflect maximum annual counts of live fish and carcasses with adults and jacks combined. Counts in years of poor visibility are not shown.

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

c/ Survey area was the main stem and West Fork (4.5 miles).

d/ Total run size estimate including jacks and adults.

e/ Low flows this season appeared to increase main stem spawning and decrease tributary spawning.

f/ Survey methodology changed to using index sites and is not comparable to previous estimates.

g/ Preliminary.

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

	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)	
Year	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	3	2	75	5	10	1	40	4
1992	9	0	44	13	16	1	31	6
1993	10	7	69	19	7	2	39	13
1994	29	31	71	8	30	4	59	20
1995	8	4	111	7	18	1	61	5
1996	81	9	79	7	27	5	85	10
1997	17	1	60	5	41	1	41	3
1998	46	11	52	3	19	2	53	7
1999	58	3	12	0	10	0	36	1
2000	26	3	63	6	11	1	45	5
2001	25	2	49	2	9	3	38	3
2002	62	7	70	3	15	0	67	5
2003	20	7	28	5	12	1	27	6
2004[b/]	97	19	29	4	11	1	62	11

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.

	Gold Ray Dam, Rogue River[a/]				Winchester Dam, Umpqua River[a/]			
Year	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	9.3	3.0	12.3	2.4	2.4	1.8	4.2	0.6
1992	2.2	3.6	5.8	1.3	2.5	2.5	5.0	0.9
1993	12.6	13.5	26.1	6.8	3.8	2.1	5.9	1.2
1994	3.6	10.5	14.1	2.6	2.8	2.5	5.3	1.1
1995	20.7	61.2	81.9	6.2	6.2	3.6	9.8	1.9
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[c/]	9.3	23.9	33.2	2.3	6.1	14.6	20.7	4.7
2002[c/]	7.0	40.8	47.8	3.2	6.8	17.3	24.1	3.1
2003[c/]	19.3	22.6	41.9	3.0	7.9	12.3	20.2	4.1
2004[c/]	13.3	26.0	39.3	3.8	5.4	10.1	15.5	2.5

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	Carcass Counts		
	Adults	Jacks	Combined
1977-1980	5,256	1,004	6,260
1981-1985	3,906	1,009	4,915
1986-1990	17,253	1,071	18,324
1991	2,799	157	2,956
1992	2,366	464	2,830
1993	5,447	257	5,704
1994	7,366	529	7,895
1995	3,921	173	4,094
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[a/]	5,326 [b/]	250	5,576

a/ Preliminary.

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

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
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[a/]	143	12	61	6	32	2	47	5	127	23	22	3	166	37	31	28	39	12	73	14
1981-1985	163	18	95	9	78	6	55	2	178	24	47	6	149	31	21	2	45	7	89	11
1986-1990	136	4	154	8	118	3	54	2	240	25	100	6	427	44	13	5	49	6	140	11
1991	43	0	135	10	91	3	58	6	187	17	36	2	701	27	4	1	123	12	150	8
1992	90	4	200	15	76	7	73	1	137	6	66	9	521	32	10	5	92	6	138	9
1993	50	0	46	1	24	1	17	0	136	7	15	1	106	7	113	10	73	2	63	3
1994	83	5	36	1	201	2	113	2	b/	b/	46	4	300	19	73	14	86	6	125	7
1995	57	3	41	4	124	1	41	0	b/	b/	59	4	346	5	43	6	46	1	101	3
1996	86	2	60	0	40	0	122	0	b/	b/	62	2	614	29	92	3	29	3	147	5
1997	162	1	47	1	24	1	60	0	b/	b/	49	3	325	9	12	0	108	3	105	2
1998	93	2	42	1	42	0	83	3	b/	b/	78	0	176	2	29	11	191	7	98	3
1999	116	3	38	1	60	2	36	3	b/	b/	55	5	478	14	14	3	136	8	124	6
2000	175	3	40	3	32	2	63	1	b/	b/	38	3	205	18	5	0	83	9	85	5
2001	220	4	62	6	53	7	195	3	b/	b/	95	6	711	49	30	5	153	22	203	14
2002	311	1	137	3	124	1	221	1	b/	b/	114	6	834	22	51	12	218	9	268	7
2003	215	6	135	5	27	1	120	3	b/	b/	145	1	1,230	37	209	31	147	2	297	11
2004[c/]	196	3	71	1	76	1	19	0	b/	b/	76	5	986	17	40	4	101	5	209	5

a/ Flows too low to allow spawning in Salmon (Coquille) in 1976.

b/ Survey discontinued; landowner would not allow access.

c/ Preliminary.

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

Year or Average	Minimum Inriver Run Size	Lower River Catch[a/]		Tributary Runs							
				Willamette							
		Commercial	Sport	Run Size	L. Willamette Sport Catch	Will. Falls Escapement[b/]	Sandy	Cowlitz[c/]	Lewis[c/]	Kalama	Hatchery Escapement[d/]
1971-1975	84.0	13.8	3.7	53.3	17.0	34.3	-	11.9	0.2	1.1	20.0
1976-1980	89.0	6.2	2.8	49.8	15.0	31.4	1.0	19.7	3.0	2.2	26.6
1981-1985	70.1	7.0	2.1	59.4	18.4	35.6	1.9	20.0	4.2	3.7	28.8
1986-1990	107.5	12.2	4.3	88.7	24.1	58.8	2.4	10.7	11.3	1.9	32.5
1991	64.2	11.7	4.1	90.9	33.9	48.7	3.7	8.9	8.3	2.6	30.2
1992	95.3	5.1	4.1	65.6	16.1	39.7	9.2	10.4	5.6	2.4	29.8
1993	119.2	2.1	1.4	60.7	23.0	29.7	6.4	9.5	6.6	2.9	26.7
1994	23.8	1.6	1.6	46.5	12.9	25.5	3.5	3.1	3.0	1.3	16.6
1995	12.6	0.2	0.0	40.8	16.0	19.3	2.5	2.2	3.7	0.7	15.2
1996	55.3	0.9	0.0	33.2	7.8	20.4	4.1	1.8	1.7	0.6	15.9
1997	123.8	1.9	0.0	34.3	3.6	26.2	5.2	1.9	2.2	0.6	18.1
1998	43.5	2.2	0.1	43.3	4.1	33.1	4.2	1.1	1.6	0.4	22.9
1999	42.6	1.9	0.0	52.3	7.4	38.9	3.3	2.1	1.8	1.0	25.9
2000	186.1	0.4	0.6	57.4	9.9	39.1	3.8	1.9	2.2	1.4	24.1
2001	437.9	3.9	4.1	78.4	7.7	52.7	5.6	1.6	2.2	1.7	29.0
2002	331.3	17.2	5.6	109.1	10.5	83.1	7.0	3.7	2.0	2.8	58.3
2003	242.6	1.8	8.2	126.6	13.2	87.6	6.4	15.9	5.1	4.5	12.0
2004[e/]	221.6	6.3	7.2	129.3	11.7	95.2	13.4	16.7	11.1	4.6	26.8

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 timing of the catch as in previous years. Since 1986, GSI and VSI techniques have been used for stock composition analysis. Includes catch from Select Area fisheries.

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.

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.

Year or Average	Inriver Run Size	Lower River Catch[a/]		Bonneville Dam Count	Mainstem Treaty Indian Catch		Zone 6 Escapement[b/]	Snake River Escapement[c/]		U. Columbia River Escapement[d/]	Hatchery Escapement
		Commercial	Sport		Commercial	Ceremonial/ Subsistence		Total	Wild		
1976-1980	82,702	185	0	55,712	259	1,714	53,740	8,900	5,585	8,100	6,100
1981-1985	70,057	1,706	393	67,959	1,024	2,545	64,390	17,700	9,659	13,960	13,340
1986-1990	107,535	2,378	1,356	103,800	186	6,771	96,843	29,340	8,702	15,360	28,460
1991	64,233	1,017	1,537	61,679	5	3,871	57,803	10,400	5,172	7,700	9,800
1992	95,323	397	1,187	93,739	48	5,711	87,980	24,400	11,206	19,600	25,300
1993	119,203	611	413	118,179	0	7,296	110,883	28,900	10,472	29,300	33,900
1994	23,809	527	409	22,873	10	1,151	21,712	3,900	1,599	3,100	3,600
1995	12,634	2	5	12,627	13	620	11,994	1,800	1,088	1,100	1,300
1996	55,299	46	17	55,236	0	2,911	52,325	6,800	3,274	2,400	5,600
1997	123,824	53	13	123,758	14	8,309	115,435	44,600	11,633	6,800	38,700
1998	43,512	27	14	43,471	1	2,224	41,246	14,200	6,872	4,100	10,300
1999	42,582	28	21	42,533	1	1,983	40,549	6,600	2,924	4,100	7,200
2000	186,141	265	102	185,774	1,354	9,973	174,447	37,800	3,266	19,100	30,300
2001	437,910	2,543	22,714	412,653	43,715	10,985	357,953	185,700	16,477	50,400	141,800
2002	331,303	10,150	16,213	304,940	24,254	9,208	271,478	97,200	33,784	34,100	85,800
2003	242,638	3,524	9,615	229,499	9,205	9,090	211,204	87,000	38,636	18,200	59,600
2004[e/]	221,600	6,234	17,041	198,325	8,370	9,114	180,841	79,600	21,367	13,521	67,200
GOAL				115,000				35,000	25,000		

a/ 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. 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.

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

c/ Count at uppermost Snake River Dam (Little Goose in 1971-1974 and Lower Granite plus Tucannon wild escapement after 1974).

d/ Priest Rapids Dam count.

e/ 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/]

Year or Average	Inriver Run Size	Lower River Catch[a/]		Bonneville Dam Count	Mainstem Treaty Indian Catch		Zone 6 Escapement[b/]	U. Columbia River Escapement[d/]
		Commercial	Sport		Commercial	Ceremonial/ Subsistence		
1976-1980	22,566	81	0	22,485	1,084	0	21,401	18,161
1981-1985	17,092	55	0	17,037	958	0	16,079	12,202
1986-1990	21,668	71	7	21,590	838	64	20,689	15,785
1991	14,569	9	3	14,557	0	171	14,386	14,815
1992	9,796	35	12	9,749	0	46	9,703	8,523
1993	14,781	81	15	14,686	0	328	14,358	16,377
1994	14,977	23	27	14,927	0	171	14,756	14,859
1995	12,615	0	18	12,597	0	417	12,180	12,162
1996	12,333	15	27	12,291	0	374	11,917	10,995
1997	18,277	6	19	18,252	0	270	17,982	13,107
1998	16,332	1	27	16,304	0	335	15,969	13,387
1999	22,347	1	41	22,305	16	395	21,894	20,898
2000	23,169	0	25	23,144	0	209	22,935	22,306
2001	54,935	1	64	54,870	150	542	54,178	53,170
2002	92,820	8	1,503	91,309	1,451	568	89,290	96,326
2003	83,120	235	2,007	81,077	3,587	710	76,780	83,004
2004[e/]	65,446	488	1,240	63,970	8,004	390	55,576	67,060
GOAL	20,000							

a/ Includes estimated miscellaneous fishery-related impacts from 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.

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

c/ Count at uppermost Snake River Dam (Little Goose in 1971-1974 and Lower Granite plus Tucannon wild escapement after 1974).

d/ Priest Rapids Dam count.

e/ Preliminary.

TABLE B-15. Estimates of inriver run size, catch, and escapement in thousands of Columbia River adult Spring Creek Hatchery (SCH) stock fall chinook.[a/]

			Harvest				
			Treaty Indian	Non-Indian		Escapement	
Year or Average	Inriver Run Size	Bonneville Dam Count	Commercial and Subsistence	Commercial[b/]	Sport	Natural	Hatchery[c/]
1971-1975	105.7	67.6	29.0	37.9	0.3	2.9	17.0
1976-1980	116.5	83.0	32.5	31.8	0.1	2.3	22.0
1981-1985	63.3	49.8	24.6	9.7	0.6	1.2	16.0
1986-1990	16.7	10.2	6.1	2.9	0.8	1.5	4.6
1991	52.4	41.6	21.0	4.3	3.3	1.3	12.4
1992	29.5	24.7	9.7	1.0	1.5	1.3	8.8
1993	16.8	13.4	5.1	0.9	1.0	1.4	7.9
1994	18.5	15.8	5.0	0.0	0.2	1.9	10.3
1995	33.8	32.3	16.0	0.0	0.4	1.4	9.1
1996	33.1	30.3	21.1	1.7	0.9	1.3	7.7
1997	27.4	23.3	10.3	0.0	3.0	3.2	8.7
1998	20.2	17.1	4.8	0.0	1.4	2.7	5.4
1999	50.2	46.8	28.2	0.3	2.6	2.4	14.5
2000	20.5	18.4	6.4	0.7	0.5	4.1	6.3
2001	125.0	115.8	52.3	3.6	3.4	2.9	33.7
2002	163.8	145.2	59.7	10.2	6.6	6.2	67.4
2003	194.0	174.0	49.0	14.0	6.0	25.5	56.9
2004[d/]	180.0	171.3	59.5	4.1	6.1	31.8	69.7
GOAL							7.0[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.

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 thousands of Columbia River adult lower river hatchery (LRH) stock fall chinook.

		Harvest			Escapement	
		Treaty Indian	Non-Indian			
Year or Average	Inriver Run Size	Commercial	Commercial[b/]	Sport[c/]	Natural	Hatchery[d/]
1971-1975	175.9	0.0	78.1	5.4	49.2	43.2
1976-1980	145.4	0.0	59.4	4.4	36.9	44.6
1981-1985	107.2	0.9	25.6	4.5	37.7	36.8
1986-1990	199.9	0.7	93.8	17.4	38.7	48.8
1991	62.7	0.4	7.0	8.3	19.0	27.7
1992	62.6	0.2	2.7	8.6	24.2	26.5
1993	52.3	0.2	4.0	6.0	19.6	22.0
1994	53.6	0.0	0.0	0.2	22.6	30.6
1995	46.3	0.4	0.0	1.8	13.8	30.3
1996	75.5	0.4	3.9	4.6	23.9	42.7
1997	57.4	0.0	2.4	5.4	22.7	24.7
1998	45.3	0.0	0.8	4.5	14.9	23.6
1999	40.0	0.0	2.3	6.1	12.6	19.0
2000	27.0	0.0	1.5	4.0	5.0	6.0
2001	94.3	0.0	4.4	7.4	39.2	43.0
2002	137.7	0.0	8.0	14.2	59.5	56.0
2003	190.0	0.0	24.0	11.0	77.0	57.0
2004[e/]	101.0	0.7	2.6	NA	59.5	29.6
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

TABLE B-17. Estimates of inriver run size, catch, and escapement in thousands of Columbia River adult lower river wild (LRW) stock fall chinook.[a/]

		Harvest			Escapement	
		Treaty Indian	Non-Indian			
Year or Average	Inriver Run Size	Commercial	Commercial	Sport[b/]	Natural	Hatchery
1971-1975	59.7	0.0	27.9	2.1	29.4	0.1
1976-1980	27.0	0.0	11.7	1.2	13.7	0.2
1981-1985	16.3	0.0	1.9	1.3	12.5	0.5
1986-1990	32.6	0.1	10.7	3.3	18.4	0.2
1991	19.9	0.0	6.4	2.1	11.2	0.0
1992	12.5	0.0	2.3	2.3	7.9	0.0
1993	13.4	0.0	1.6	2.8	8.9	0.1
1994	12.2	0.0	0.3	0.9	10.9	0.0
1995	16.0	0.0	0.0	4.0	11.8	0.1
1996	14.6	0.0	0.3	0.2	13.9	0.1
1997	12.3	0.0	0.0	1.0	11.2	0.0
1998	7.3	0.0	0.0	0.4	6.6	0.0
1999	3.3	0.0	0.0	0.0	3.3	0.1
2000	10.2	0.0	0.5	0.0	9.4	0.2
2001	15.7	0.0	1.4	0.7	13.6	0.0
2002	18.3	0.0	3.2	2.8	12.3	0.0
2003	23.0	0.0	5.0	4.0	19.0	0.0
2004[c/]	22.4	0.0	5.4	6.2	17.1	0.0
GOAL					5.7[d/]	

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

b/ Includes tributary catches.

c/ Preliminary.

d/ Escapement objective is for North Lewis River, but escapement estimates include other fish. The escapement objective for the North Lewis River was met for all years except 1998-1999.

TABLE B-18. Estimates of inriver run size, catch, and escapement in thousands of Columbia River adult upriver bright (URB) stock fall chinook destined for areas above McNary Dam and the Deschutes River.[a/]

			Harvest			Escapement						
				Non-Indian								
Year or Average	Inriver Run Size	Bonneville Dam Count	Treaty Indian Commercial and Subsistence	Commercial	Sport[b/]	Natural[c/]	Hatchery	Deschutes	McNary Dam Count	Ice Harbor Dam Count	Total Lower Granite Count	Wild Snake River Lower Granite Dam Count[d/]
1971-1975	110.5	80.4	35.1	29.3	3.1	36.8	2.6	--	39.5	5.6	-	-
1976-1980	92.3	72.4	32.2	19.2	1.0	29.5	2.0	--	31.0	1.2	0.532	0.532
1981-1985	111.9	94.1	26.7	13.9	3.0	46.1	8.1	--	51.0	1.6	0.586	0.450
1986-1990	291.3	222.3	100.1	61.5	13.7	90.5	13.2	5.3	107.2	4.4	0.691	0.289
1991	102.7	87.3	24.9	13.8	7.1	38.9	3.6	3.7	46.6	4.5	0.630	0.318
1992	81.0	74.0	13.9	5.8	4.4	38.8	9.1	2.8	51.2	4.6	0.855	0.549
1993	102.9	95.5	20.3	5.4	6.0	49.8	9.9	8.3	54.9	2.8	1.170	0.742
1994	132.9	132.8	24.0	-	4.9	68.5	14.2	5.5	85.9	2.1	0.791	0.406
1995	106.5	105.6	18.6	-	6.2	58.5	10.2	7.6	68.2	2.8	1.067	0.350
1996	143.2	135.5	29.8	3.7	9.2	59.6	15.9	8.8	73.9	3.8	1.308	0.639
1997	161.7	152.9	42.6	1.4	12.1	68.9	13.1	20.8	67.1	2.7	1.451	0.797
1998	142.3	137.5	33.0	0.9	8.2	60.5	14.0	11.4	63.8	4.2	1.909	0.306
1999	166.1	154.9	38.3	2.2	16.0	48.3	30.3	6.9	78.4	6.6	3.381	0.905
2000	155.7	143.6	33.5	4.8	10.6	69.5	10.8	4.3	66.4	6.5	3.602	1.148
2001	232.6	219.8	35.1	8.2	12.2	92.2	21.1	10.6	110.5	4.6	8.700	5.163
2002	276.9	269.8	58.0	6.9	22.2	123.3	14.8	12.2	141.6	15.4	12.300	2.116
2003	380.0	350.0	53.0	12.0	18.0	60.0	9.0	13.7	173.7	20.2	11.101	3.856
2004[e/]	370.0	NA	40.6	16.8	11.9	NA	NA	NA	168.9	21.1	14.960	NA
GOAL									40.0[f/]			

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.

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

d/ Adjusted for stray hatchery fish.

e/ Preliminary.

f/ FMP goal. The *U.S. v Oregon* parties managed for an escapement of 45,000 between 1990 and 1993 at McNary Dam to account for increased hatchery brood stock needs and concern for the Snake River wild fall chinook stock. Starting in 1994, inriver fisheries were based on ESA consultation standards, rather than a McNary Dam escapement goal.

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

			Harvest				
			Treaty	Non-Indian		Escapement	
Year	Inriver Run Size	Bonneville Dam Count	Commercial and Subsistence	Commercial	Sport[b/]	Natural	Hatchery[c/]
1982-1985	10.3	4.9	1.9	1.7	0.1	0.0	3.5
1986-1990	61.0	24.8	16.2	26.5	2.3	4.1	9.2
1991	35.9	18.3	6.0	9.1	1.1	4.0	10.3
1992	31.1	16.8	5.1	5.5	1.8	5.8	9.6
1993	27.4	16.7	6.8	4.8	1.4	3.1	7.9
1994	33.7	21.5	4.4	1.2	0.9	10.5	11.4
1995	34.1	23.5	6.2	0.1	2.8	5.6	14.0
1996	59.7	38.1	11.9	5.3	3.4	14.0	15.9
1997	58.9	36.6	11.3	3.3	4.8	13.8	15.8
1998	36.8	29.9	7.8	3.0	6.1	13.1	8.8
1999	50.7	40.4	9.6	1.6	5.9	15.7	7.3
2000	36.8	25.6	6.5	3.1	3.4	8.3	7.8
2001	76.4	48.1	16.6	7.0	9.4	12.7	13.7
2002	103.9	57.6	37.1	14.1	13.2	40.3	21.9
2003	118.0	80.0	25.0	16.0	2.0	31.5	24.2
2004[d/]	100.0	NA	15.1	8.0	4.9	NA	5.7
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.

TABLE B-20. Estimates of minimum inriver run size and catch in thousands of adult spring, summer, and fall chinook from the Columbia River.

Year	Minimum Inriver Run Size	Below Bonneville Dam					Above Bonneville Dam								Total Treaty Indian & Non-Indian
		Non-Indian Sport			Non-Indian Commercial		Bonneville Dam Counts	Non-Indian Sport		Treaty Indian			Non-Indian Total		
		Tributary[a/]	Buoy 10	Mainstem	Select Area[b/]	Mainstem		Mainstem	Tributary[c/]	Ticketed Commercial[d/]	Non-Ticketed Public Sales	Ceremonial & Subsistence[e/]	Sport	Commercial	
Spring Chinook															
1998	94,112	10,425		14	2,197	100	43,471	-	1,717	1	-	2,224	12,156	2,297	16,678
1999	103,082	14,967	f/	21	1,954	303	42,533	-	220	1	-	1,983	15,208	2,257	19,449
2000	252,841	17,821	f/	316	6,497	1,194	185,774	-	11,502	1,354	NA	9,973	29,639	7,691	48,657
2001	527,410	NA	f/	26,519	NA	5,564	412,653	93	56,111	22,019	21,696	10,985	82,723	5,564	142,987
2002	455,903	NA	f/	21,436	10,646	16,972	304,940	875	25,859	17,930	6,324	9,208	48,170	27,618	109,250
2003[h/]	401,138	NA	f/	16,845	7,390	4,894	229,499	1,302	21,179	6,363	2,842	9,090	39,326	12,284	69,905
2004[h/]	396,700	NA	f/	22,549	10,192	11,700	198,325	1,349	22,508	5,256	3,114	9,114	46,406	21,892	85,782
Summer Chinook[l/]															
1998	16,332	-	-	27	-	1	16,304	0	-	0	-	335	27	1	363
1999	22,347	-	-	41	-	1	22,305	0	-	16	-	395	41	1	453
2000	23,169	-	-	25	-	0	23,144	0	-	0	-	209	25	0	234
2001	54,935	-	-	64	-	1	54,870	0	-	150	-	542	64	1	757
2002	92,820	-	-	1,503	-	8	91,309	65	-	1,451	-	568	1,568	8	3,595
2003[h/]	83,120	-	-	2,007	235	0	81,077	269	-	3,587	-	710	2,276	235	6,808
2004[h/]	65,446	-	-	1,240	255	233	63,970	38	-	8,004	-	390	1,278	488	10,160
Fall Chinook[j/]															
1998	255,700	2,444	5,465	10,285	2,100	2,538	189,085	4,297	2,300	28,096	16,923	16,923	22,491	4,638	72,148
1999	313,700	4,182	10,255	8,652	2,100	4,967	242,143	7,375	1,700	43,780	32,883	1,310	30,464	7,067	115,504
2000	253,200	2,053	4,579	7,619	2,300	10,303	192,793	4,360	1,700	37,514	13,635	269	20,311	12,603	84,332
2001	549,100	4,831	12,363	8,680	3,104	21,487	400,205	7,933	1,900	73,078	38,643	365	35,707	24,591	172,384
2002	733,100	11,429	18,442	21,228	8,700	34,497	473,692	8,800	2,300	96,277	33,918	427	62,199	43,197	236,018
2003[h/]	893,100	15,070	16,300	26,200	9,700	25,400	610,075	9,300	1,400	75,900	48,400	683	68,270	35,100	228,353
2004[h/]	775,200	NA	16,100	18,800	8,400	37,500	583,600	2,400	NA	11,300	112,300	800	NA	45,900	NA
Total Chinook															
1998	366,144	12,869	5,465	10,326	4,297	2,639	248,860	4,297	1,717	28,097	16,923	2,559	34,674	6,936	89,189
1999	439,129	19,149	10,255	8,714	4,054	5,271	306,981	7,375	220	43,781	32,899	3,688	45,712	9,325	135,405
2000	529,210	19,874	4,579	7,960	8,797	11,497	401,711	4,360	13,202	38,868	13,635	10,451	49,975	20,294	133,223
2001	1,131,445	NA	12,363	35,263	3,104	27,052	867,728	8,026	58,011	116,943	38,643	11,892	118,494	30,156	316,128
2002	1,281,823	NA	18,442	44,167	19,346	51,477	869,941	9,740	28,159	120,531	35,369	10,203	111,937	70,823	348,863
2003[h/]	1,377,358	NA	16,300	45,052	17,325	30,294	920,651	10,871	22,579	88,692	48,400	10,483	109,872	47,619	305,066
2004[h/]	1,237,346	NA	16,100	42,589	18,847	49,433	845,895	3,787	NA	27,674	112,300	10,304	NA	68,280	NA

a/ For spring chinook: lower Willamette, Clackamas, Cowlitz, Kalama, and Lewis rivers (all years); upper Willamette and Sandy rivers for 1998 only. For summer chinook: all tributaries are closed. For fall chinook: all tributaries downstream from Bonneville Dam.

b/ Includes Youngs Bay, Tongue Point, and Blind Slough/Knappa in Oregon and Deep River in Washington.

c/ Includes tributaries between Bonneville and McNary Dams, the Snake and Yakima rivers, Icicle and Ringold creeks.

d/ 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.

e/ 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.

f/ Buoy 10 area catch is included in mainstem sport.

g/ Fewer than 50 fish.

h/ Preliminary.

l/ Summer chinook retention is prohibited for all mainstem non-Indian fisheries. Small incidental mortalities 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. Treaty Indians may retain summer chinook for subsistence purposes.

j/ 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[b/]			Lower River Escapement					
			Recreational							
		Commercial	Buoy 10	Mainstem	Hatchery[c/]	Tributary Dam Counts[d/]	Bonneville Dam Counts[e/]	Mainstem Commercial Treaty Catch	Zone 6 Escapement[f/]	Hatchery Escapement
1971-1975	367.3	194.2	-	11.7	117.1	8.5	35.8	8.3	27.6	12.1
1976-1980	229.9	101.8	-	9.4	94.3	3.5	20.8	2.1	18.7	6.0
1981-1985	581.3	316.3	48.5	14.8	142.7	5.8	53.3	5.6	47.7	16.5
1986-1990	474.2	245.1	72.8	12.0	114.7	5.0	25.6	2.7	22.9	7.0
1991	954.3	407.5	208.7	31.6	243.3	5.5	58.9	6.7	52.2	18.0
1992	217.7	54.1	43.1	9.0	88.6	5.2	17.8	1.0	16.8	5.2
1993	114.2	35.6	20.9	6.9	39.4	0.8	10.6	0.9	9.7	1.7
1994	169.1	60.7	1.8	4.1	78.0	4.1	20.3	1.0	19.3	3.9
1995	75.2	21.4	5.0	3.2	32.2	2.9	10.4	0.3	10.1	1.5
1996	104.6	19.8	4.5	3.9	60.2	0.6	15.7	0.1	15.6	1.4
1997	145.3	16.4	20.4	11.6	69.9	2.8	24.2	0.6	23.6	4.4
1998	164.5	23.0	3.2	6.7	83.8	1.3	46.6	0.2	46.4	11.3
1999	273.6	79.0	8.9	18.1	123.9	1.0	40.7	1.7	39.0	10.0
2000	549.6	168.4	21.5	36.5	232.0	5.6	85.6	6.3	79.3	26.6
2001	1,108.1	253.1	132.0	76.7	378.5	8.2	259.6	5.5	254.0	80.6
2002	511.6	163.0	6.2	35.5	215.2	3.6	88.1	1.6	86.5	2.9
2003	683.7	257.3	54.4	29.8	205.2	11.2	125.7	2.6	123.2	3.9
2004[g/]	446.0	109.8	15.3	22.3	178.7	5.3	115.0	6.4	108.6	6.2
GOAL					Hatchery Production					Hatchery Production

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

b/ Includes some upriver origin coho. 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	17,336	723	18,857	1.13
1983	7,128	604	3,574	0.59
1984	67,365	12,177	74,370	1.28
1985	32,156	2,655	25,387	0.87
1986	102,190	15,600	120,422	1.33
1987	124,594	42,100	47,170	0.72
1988	186,051	30,770	143,417	0.94
1989[b/]	160,692	16,884	85,110	0.63
1990[c/]	79,636	5,179	18,429	0.30
1991[d/]	171,680	11,647	208,638	1.28
1992	115,481	10,655	43,082	0.47
1993	75,774	5,288	20,932	0.35
1994	9,253	0	1,795	0.19
1995	25,186	853	5,026	0.23
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[e/]	72,518	6,085	21,478	0.38
2001[e/]	125,884	12,709	132,038	1.15
2002[e/]	84,457	19,441	6,233	0.30
2003[e/]	88,827	16,316	54,440	0.80
2004[e/f/]	69,135	16,158	15,322	0.46

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.

b/ 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 and 3,195 coho and a catch rate of 0.47 fish per trip. Catches in this fishery were counted against the Buoy 10 quota.

c/ 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 and 28 coho and a catch rate of 0.03 fish per trip.

d/ 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 and 1,151 coho and a catch rate of 0.43 fish per trip.

e/ Includes catch and effort from the Astoria-Megler Bridge upstream to the new boundary from Tongue Point, Oregon to Rocky Point, Washington.

f/ Preliminary.

TABLE B-23. Willapa Bay fall chinook terminal run size, catch, and spawning escapement in numbers of fish. (Page 1 of 1)

	Non-local Stocks	Terminal Catch		Spawning Escapement		Terminal Run
Year or Average	Gillnet Catch[a/]	Gillnet	Sport[b/]	Natural[c/]	Hatchery	Size[d/]
1976-1980	8,660	14,146	419	2,378	4,147	21,090
1981-1985	1,011	9,087	589	2,082	4,890	16,648
1986-1990	2,521	18,128	1,578	13,436	14,615	47,757
1991	1,658	25,658	1,932	7,490	11,539	46,619
1992	1,226	36,679	2,190	13,111	12,165	64,145
1993	603	31,194	5,370	6,291	12,530	55,385
1994	0	22,130	2,801	4,896	11,124	40,951
1995	0	25,476	2,928	10,160	10,448	49,012
1996	0	36,983	3,024	6,297	7,695	53,999
1997	0	12,309	2,404	11,014	6,492	32,219
1998	0	6,765	2,178	7,095	4,677	20,715
1999	0	265	1,885	3,462	4,814	10,426
2000	0	5,922	1,445	8,195	4,620	20,182
2001	0	5,459	2,117	5,468	6,802	19,846
2002	36	9,416	2,532	6,509	8,872	27,329
2003	220	7,479	3,242	9,699	7,403	27,823
2004[e/]	-	4,345	NA	NA	7,550	NA
GOAL				4,400[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/ Includes hatchery strays to natural spawning areas. Escapement estimates after 1984 are based on revised spawning habitat estimates.

d/ Does not include non-local stocks catch.

e/ Preliminary.

f/ Not an FMP goal.

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

	Terminal Catch		Spawning Escapement		Terminal Run
Year or Average	Gillnet	Sport[a/]	Natural[b/]	Hatchery[c/]	Size[d/]
1976-1980	15,011	2,842	5,800	12,000	35,653
1981-1985	46,058	2,141	3,567 [e/]	26,600	78,366
1986-1990	69,058	2,591	e/	35,811	107,460
1991	95,552	6,258	e/	62,338	164,148
1992	10,767	2,031	e/	15,443	28,241
1993	19,837	1,620	e/	11,976	33,433
1994	11,612	2,358	e/	15,798	29,768
1995	33,505	1,743	e/	30,471	65,719
1996	38,322	4,052	16,023	74,596	132,993
1997	1,526	806	5,473	9,276	17,081
1998	13,141	852	13,987	8,999	36,979
1999	5,467	2,836	12,832	22,853	43,988
2000	10,326	1,787	24,076	29,578	65,767
2001	31,913	4,481	44,625	60,462	141,481
2002[f/]	59,435	5,685	37,618	51,344	154,082
2003[f/]	59,470	5,767	NA	63,288	NA
2004[f/]	16,521	NA	NA	13,155	NA
GOAL			13,090[g/]	6,100[g/]	

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

b/ Natural spawning escapement estimates in 1996, 1997, and 1998 do not include adult fish released upstream of hatchery racks.

c/ Hatchery rack number includes fish released upstream.

d/ Does not include natural spawning escapement between 1984 and 1995.

e/ Estimates of natural spawning escapement were not made between 1984 and 1995.

f/ Preliminary

g/ Not an FMP goal.

TABLE B-25. Grays Harbor chinook terminal catch, spawning escapement, and run size in numbers of fish.

Year or Average	Early Non-local Catch	Terminal Catch: Non-Indian Gillnet	Terminal Catch: Treaty Indian Gillnet	Terminal Catch: Chehalis Tribal Gillnet	Terminal Catch: Sport[a/]	Spawning Escapement: Natural[b/]	Spawning Escapement: Hatchery[c/]	Terminal Run Size[d/]
				SPRING CHINOOK				
1976-1980	-	-	-	587	e/	600	-	1,187
1981-1985	-	-	-	70	12	924	-	1,006
1986-1990	-	-	e/	143	6	1,875	-	2,024
1991	-	-	0	187	13	1,289	-	1,489
1992	-	-	0	35	14	1,813	-	1,862
1993	-	-	0	92	31	1,254	-	1,377
1994	-	-	0	72	4	1,403	-	1,479
1995	-	-	0	82	15	2,070	-	2,167
1996	-	-	102	127	52	4,462	-	4,743
1997	-	-	0	172	160	4,460	-	4,792
1998	-	-	6	164	121	2,283	-	2,574
1999	-	-	3	187	80	1,285	-	1,555
2000	-	-	17	174	22	2,867	-	3,080
2001[g/]	-	-	4	210	170	2,860	-	3,244
2002[g/]	-	-	79	419	155	2,613	-	3,266
2003[g/]	-	-	68	NA	120	1,913	-	2,101
2004[g/]	-	-	54	NA	NA	NA	-	NA
GOAL						1,400		

(continued)

TABLE B-25. Grays Harbor chinook terminal catch, spawning escapement, and run size in numbers of fish.

Year or Average	Early Non-local Catch	Terminal Catch				Spawning Escapement		Terminal Run Size[d/]
		Non-Indian Gillnet	Treaty Indian Gillnet	Chehalis Tribal Gillnet	Sport[a/]	Natural[b/]	Hatchery[c/]	
				(continued)				
				FALL CHINOOK				
1976-1980	4,433	1,800	3,100	1,006	1,128	7	413	11,887
1981-1985	602	820	3,520	465	268	10	742	6,427
1986-1990	694	4,620	10,400	580	1,340	20,692	1,319	39,645 [h/]
1991	246	6,132	8,036	599	3,698	14,392	1,431	34,534 [h/]
1992	753	5,708	6,645	893	2,775	16,592	4,519	37,885 [h/]
1993	30	5,444	5,370	1,602	3,497	13,349	2,387	31,679 [h/]
1994	0	3,662	7,865	725	3,600	14,320	3,320	33,492 [h/]
1995	0	5,985	7,401	687	5,401	12,727	3,374	35,575 [h/]
1996	0	1,589	4,116	49	7,456	20,227	4,307	37,744 [h/]
1997	0	2,820	6,530	311	2,687	18,168	2,416	32,932 [h/]
1998	0	272	4,135	0	2,894	12,529	1,921	21,751 [h/]
1999	0	87	1,926	1	114	10,363	1,990	14,481 [h/]
2000	0	1,318	3,289	0	1,714	9,260	1,505	17,086
2001	0	2,523	3,885	0	3,210	9,491	1,365	20,474
2002[g/]	0	66	1,236	0	2,961	11,318	1,561	17,142
2003[g/]	0	99	851	0	1,013	19,432	2,124	23,519
2004[g/]	0	105	3,498	NA	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 0.1 for 1999; terminal run sizes would be adjusted accordingly.

i/ Ceremonial and subsistence catch is about 75% of the reported catch of last opening. Therefore, the expanded catch would be equal to 4,970.

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

Year or Average	Terminal Catch: Non-Indian Gillnet	Terminal Catch: Treaty Indian Gillnet	Terminal Catch: Chehalis Tribal Gillnet	Terminal Catch: Sport	Spawning Escapement: Natural[a/]	Spawning Escapement: Hatchery[a/]	Terminal Run Size: Natural	Terminal Run Size: Hatchery	Terminal Run Size: Total
1976-1980	5,231	9,800	3,500	2,500	29,510	9,310	44,972	14,879	59,851
1981-1985	5,299	15,620	2,863	5,012	36,847	13,957	42,974	36,624	79,598
1986-1990	7,716	30,120	1,817	5,355 b/	44,836	25,725	53,030	62,539	115,569
1991	46,198	68,889	8,120	29,408 b/	64,330	75,568	110,179	182,334	292,513
1992	666	14,117	1,122	5,264 b/	32,906	8,175	41,510	20,740	62,250
1993	3,759	15,893	1,292	6,363 b/	25,499	13,705	37,012	29,499	66,511
1994	715	8,617	918	1,789 b/	12,423	14,155	11,818	26,799	38,617
1995	9,604	38,363	2,127	9,690 b/	47,422	34,750	58,920	83,036	141,956
1996	10,096	39,842	2,915	20,846 b/	63,572	45,643	83,263	99,651	182,914
1997	115	5,395	125	1,547 b/	22,469	11,555	18,841	22,365	41,206
1998	795	13,431	361	2,123 b/	35,551	13,947	41,386	24,822	66,208
1999	1,674	12,065	797	4,507 b/	33,346	27,373	39,210	40,552	79,762
2000	4,775	10,802	331	5,122 b/	37,085	22,158	42,499	37,774	80,273
2001	2,778	15,501	533	20,868 b/	79,112	61,456	83,004	97,244	180,248
2002	6,853	14,145	666	13,103 b/	110,654	27,395	117,155	55,661	172,816
2003[c/]	6,623	18,778	NA	11,904 b/	107,324	65,484	NA	NA	NA
2004[c/]	5,231	17,668	NA	NA	64,666	45,168	NA	NA	NA
GOAL					35,400				

a/ "Natural" includes hatchery fish spawning in wild. "Hatchery" includes wild fish taken for broodstock.

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

c/ 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	109	6,304	2,565	5,566
1992	142	7,512	2,566	8,801
1993	126	6,695	5,259	32,077
1994	85	6,878	1,449	963
1995	26	4,076	687	207
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[b/]	36	4,542	1,151	16,939
2003[b/]	92	7,343	3,742	37,130
2004[b/]	142	10,661	2,916	6,973

a/ Preliminary. 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	21,506	-	-	9,250	22,531	13,166	38,517	51,683
1992	5,214	-	-	4,617	4,855	6,682	7,771	14,453
1993	6,020	-	-	1,940	5,688	3,077	10,057	13,134
1994	1,564	-	-	820	1,299	1,278	2,047	3,325
1995	5,513	-	-	4,969	5,858	6,824	8,970	15,794
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[b/]	19,197	-	-	12,213	16,841	16,847	30,196	47,043
2003[b/]	22,558	-	-	3,495	9,857	5,538	21,526	27,064
2004[b/]	17,071	-	-	NA	NA	NA	NA	NA
GOAL				Hatchery Production				

a/ Ceremonial, subsistence, and recreational catch negligible. 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	31	956	44	1,209
1986-1990	646	46	67	1,527	0	2,287	0	2,287
1991	112	9	10	630	0	761	0	761
1992	104	11	15	375	0	505	0	505
1993	46	3	26	713	0	788	0	788
1994	21	1	0	705	0	727	0	725
1995	35	2	0	625	0	662	0	662
1996	43	3	69	776	0	891	0	891
1997	72	10	71	540	0	693	0	693
1998	18	27	-	492	0	537	0	537
1999	12	41	-	373	0	426	0	426
2000	0	2	-	248	0	250	0	250
2001	0	17	-	548	0	565	0	565
2002	0	17	-	738	0	755	0	755
2003[c/]	0	6	-	189	0	195	0	195
2004[c/]	0	15	201	604	0	619	0	619
GOAL				700[d/]				

a/ River catch of adults.

b/ Natural escapement includes hatchery strays.

c/ Preliminary.

d/ Minimum. Terminal run managed at 30% 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.

	Terminal Catch			Escapement		Terminal Run Size		
Average	Gillnet	Ceremonial & Subsistence	River Sport[a/]	Natural[b/]	Hatchery	Natural	Hatchery	Total
1976-1980	1,540	100	36	2,820	-	4,320	-	4,320
1981-1985	2,104	20	135	3,720	360	5,691	591	6,282
1986-1990	2,430	20	214	8,298	619	10,677	861	11,538
1991	1,553	20	116	4,486	459	5,888	705	6,593
1992	1,711	20	106	4,695	366	6,338	542	6,880
1993	1,786	20	253	3,383	230	5,107	560	5,667
1994	2,441	20	18	3,805	578	5,866	988	6,854
1995	1,809	20	52	2,876	401	4,355	746	5,101
1996	1,307	20	238	3,441	927	4,693	1,234	5,927
1997	1,708	20	210	2,477	545	4,122	823	4,945
1998	804	20	347	3,951	58	5,009	164	5,173
1999	947	20	93	1,933	135	2,885	220	3,105
2000	262	20	NA	3,572	333	3,752	395	4,147
2001	1,366	20	306	2,859	168	4,222	528	4,750
2002	2,887	20	20	1,938	649	4,250	1,641	5,890
2003[c/]	1,322	20	278	4,993	203	5,978	782	6,760
2004[c/]	1,228	20	201	3,523	2,076	4,324	2,489	6,813
GOAL				2,500[d/]				

a/ River sport catch of 3-year olds and older. The 2000 sport fishery was closed to retention of unmarked chinook. The 2002 sport fishery was closed to chinook retention on Oct 18 due to unusually low water conditions.

b/ Includes fish taken for hatchery broodstock.

c/ Preliminary.

d/ Minimum. Terminal run managed at 40% exploitation rate of inriver 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			Terminal Run Size			
	Gillnet	Ceremonial & Subsistence	River Sport[b/]	Natural[c/]	Supplemental	Hatchery	Natural[c/]	Supplemental	Hatchery	Total
1976-1980	2,440	60	140	3,460	-	1,000	5,100	-	1,640	6,740
1981-1985	2,385	20	104	5,457	-	2,654	6,414	-	3,794	10,208
1986-1990	8,455	18	241	4,824	2,128	3,366	6,357	2,988	9,357	17,507
1991	10,345	20	638	6,525	d/	4,129	8,574	d/	12,441	21,015
1992	2,057	20	302	6,266	922	1,402	6,999	998	2,923	10,920
1993	3,897	150	306	5,020	2,208	5,938	5,350	2,482	9,663	17,495
1994	1,612	30	18	1,105	95	2,901	1,242	176	4,222	5,640
1995	4,203	30	103	6,181	592	2,385	7,273	794	5,311	13,378
1996	16,035	30	279	8,993	3,574	5,191	10,715	5,319	17,646	33,680
1997	3,087	30	106	1,851	d/	2,137	1,970	d/	5,086	7,056
1998	7,411	30	135	4,102	1,413	3,504	4,576	1,562	10,364	16,502
1999	3,974	300	119	4,791	521	3,551	5,029	557	7,061	12,647
2000	5,066	30	223	7,939	682	3,849	8,285	698	8,782	17,765
2001	13,722	30	1,554	23,793	1,084	6,594	27,754	2,701	15,477	45,932
2002[e/]	23,712	30	399	13,772	1,048	2,240	16,119	1,306	23,039	40,465
2003[e/]	12,692	30	743	8,594	704	7,394	11,234	923	16,114	28,271
2004[e/]	8,189	30	550	9,785	975	5,086	11,318	1,236	11,024	23,578
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 sizes estimates include fish taken for hatchery brood stock.

d/ Included in natural escapement and run size.

e/ Preliminary.

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

Year or Average	Terminal Catch[a/]			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport[b/]	Natural	Hatchery	Natural	Hatchery	Total
1976-1980	640	52	84	1,040	0	1,835	0	1,835
1981-1985	448	30	124	1,431	50	1,944	128	2,073
1986-1990	1,072	33	315	2,829	34	4,043	257	4,300
1991	600	13	138	1,078	0	1,693	153	1,846
1992	445	26	81	1,018	0	1,443	167	1,610
1993	509	25	357	1,411	0	2,065	242	2,307
1994	378	20	404	1,699	0	2,372	152	2,524
1995	230	25	387	1,132	0	1,686	68	1,754
1996	471	30	267	1,371	16	2,083	114	2,197
1997	416	57	331	1,826	0	2,582	53	2,635
1998	294	20	288	1,287	0	1,880	28	1,908
1999[c/]	155	20	52	928	99	1,081	171	1,252
2000[d/]	87	38	21	492	0	529	116	645
2001[d/]	134	39	43	1,159	0	1,231	101	1,332
2002[e/]	587	37	372	2,464	0	3,375	85	3,460
2003[e/f/]	296	20	206	1,228	0	1,646	104	1,750
2004[e/f/]	401	20	NA	1,829	NA	2,455	65	2,520
GOAL				900[g/]				

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

b/ Recreational catch of adults (at least 24 inches total length).

c/ Sport fishery closed until July 14.

d/ Sport fishery closed Aug 31 to retention of wild adult sp/sum chinook. Sport catch reflects retention of hatchery fish only.

e/ Sport fishery open May 16-Aug 31from mouth to Willoughby Creek.

f/ Preliminary estimate by Hoh Tribe.

g/ Minimum. Terminal run managed at 31% 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	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	1,076	15	130	1,420	0	2,628	13	2,641
1992	940	30	184	4,003	0	5,139	18	5,157
1993	1,148	30	416	2,280	0	2,951	91	3,042
1994	687	30	242	3,967	0	4,322	179	4,501
1995	502	30	194	2,202	0	2,912	22	2,934
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[d/]	517	30	216	1,649	32	2,319	99	2,418
2004[d/]	815	30	NA	1,845	NA	3,078	60	3,138
GOAL				1,200[e/]				

a/ River recreational catch of adults (three-year olds and older).

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 at 40% harvest rate of inriver run size through 1996; for 1997 and 1998, fishing regimes were designed to target a range near 40%.

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	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	1,254	20	276	4,129	14	5,370	323	5,693
1992	1,420	30	110	4,045	594	5,010	1,189	6,199
1993	709	30	90	1,345	0	1,874	300	2,174
1994	144	20	123	1,161	0	1,404	44	1,448
1995	478	30	242	4,710	0	5,420	40	5,460
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[f/]	1,872	20	350	6,273	645	8,118	1,021	9,139
2004[f/]	1,248	20	NA	2,069	NA	3,409	89	3,498
GOAL				2,000 to 5,000				

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

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

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

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

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

f/ Preliminary.

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

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport[a/]	Natural[b/]	Hatchery	Natural	Hatchery[c/]	Total
1976-1980	2,520	20	380	2,093	800	--	--	3,698
1981-1985	700	20	48	731	260	--	--	1,164
1986-1990	1,631	22	258	1,602	1,003	3,085	2,503	4,341
1991	1,271	25	381	1,188	781	1,500	2,146	3,646
1992	917	25	295	1,009	1,540	1,271	2,515	3,786
1993	1,237	25	367	1,292	866	1,531	2,256	3,787
1994	570	25	79	974	537	1,187	998	2,185
1995	471	25	341	1,333	438	1,731	877	2,608
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[d/]	184	50	343	1,219	1,250	1,308	1,738	3,046
2004[d/]	220	50	NA	745	763	788	990	1,778
GOAL				1,200[e/]				

a/ Recreational catch of adults.

b/ Natural escapement includes hatchery strays and broodstock fish.

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

d/ Preliminary.

e/ WDFW goal for summer chinook of 1,200 includes three-year old males.

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

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	River Sport[a/]	Natural[b/]	Hatchery[c/]	Natural	Hatchery[c/]	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	951	50	376	6,292	13	7,631	51	7,682
1992	1,208	50	200	6,342	14	7,750	62	7,812
1993	407	50	26	5,254	28	5,735	30	5,765
1994	448	50	262	4,932	0	5,692	0	5,692
1995	552	50	582	5,532	0	6,716	0	6,716
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[d/]	1,345	100	626	7,398	0	9,469	23	9,492
2004[d/e/]	1,533	100	NA	3,583	0	5,216	NA	5,216
GOAL				3,000[f/]				

a/ River recreational catch of three-year olds and older.

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

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

d/ Preliminary.

e/ Terminal run size estimates incomplete since inriver sport catch estimates are unavailable.

f/ Minimum. Terminal run managed at 40% harvest rate.

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

Year or Average	Terminal Catch[a/]			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport[b/]	Natural[c/]	Hatchery[d/]	Natural[c/]	Hatchery[d/]	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	2,661	50	319	1,001	9,877	1,280	12,628	13,908
1992	1,254	50	491	921	15,376	1,022	17,070	18,092
1993	396	50	63	256	1,654	324	2,095	2,419
1994	974	50	51	683	1,643	999	2,402	3,401
1995	1,144	50	29	1,060	3,957	1,318	4,922	6,240
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[e/]	3,982	50	150	1,012	3,939	2,099	7,034	9,133
2003[e/]	2,412	50	326	505	6,539	1,472	8,360	9,832
2004[e/f/]	1,337	50	NA	1,100	9,738	1,649	10,576	12,225
GOAL				Hatchery Production				
				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	2,078	100	626	9,532	7,168	10,648	8,856	19,504
1992	7,069	100	841	8,170	3,858	13,623	6,415	20,038
1993	1,318	100	60	4,165	3,746	4,676	4,713	9,389
1994	2,138	100	307	4,882	3,090	6,415	4,102	10,517
1995	5,386	100	991	10,035	5,819	14,286	8,045	22,331
1996	8,419	100	1,336	11,009	11,515	14,596	17,783	32,379
1997	456	50	38[g/]	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[e/]	13,949	50	2,533	14,756	13,799	25,188	19,899	45,087
2004[e/f/]	19,314	50	NA	10,601	27,102	20,889	36,187	57,076
GOAL				6,300-15,800				

a/ Includes dip-in fish from other 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/ 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/ Regulations required nonretention of coho.

TABLE B-38. Puget Sound commercial net and troll fishery salmon catches in numbers of fish.[a/]

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	Non-Indian	21,629	196,928	1,578,440	476,214	983,408
	Treaty Indian	120,057	406,801	1,710,032	545,421	844,690
	Total	141,686	603,729	3,288,472	1,021,635	1,828,098
1992	Non-Indian	19,496	98,920	82	618,909	316,113
	Treaty Indian	90,331	292,526	121	763,831	292,140
	Total	109,827	391,446	203	1,382,740	608,253
1993	Non-Indian	19,040	27,305	974,865	587,690	1,328,468
	Treaty Indian	62,719	164,555	1,117,356	540,018	1,365,219
	Total	81,759	191,860	2,092,221	1,127,708	2,693,687
1994	Non-Indian	20,855	24,248	30	561,243	880,632
	Treaty Indian	65,913	438,937	208	802,872	959,599
	Total	86,768	463,185	238	1,364,115	1,840,231
1995	Non-Indian	6,577	24,455	1,366,919	372,923	170,551
	Treaty Indian	73,547	281,100	1,337,021	383,000	243,641
	Total	80,124	305,555	2,703,940	755,923	414,192
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
2002[d/]	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[d/]	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[d/]	Non-Indian	5,043	39,519	4	1,174,862	81,031
	Treaty Indian	98,207	506,160	591	713,294	143,359
	Total	103,250	545,679	595	1,888,156	224,390

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

b/ Odd-year averages for pink salmon.

c/ Fewer than 50 fish.

d/ 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[e/f/]	90,566	252,361	44,946
1992[e/f/]	97,733	189,372	384
1993[e/f/]	80,166	135,974	67,575
1994[e/]	48,286	31,801	5
1995[e/]	69,799	78,675	100,570
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/g/]	23,879	74,972	17
2001[e/g/]	44,422	193,493	117,367
2002[e/g/]	30,900	67,333	31
2003[e/g/]	30,936	101,518	148,965
2004[e/g/]	3,710	12	22

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/ 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/]

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size[c/]		
	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total
				Strait of Juan de Fuca					
1981-1985	57	126	183	811	1,450	2,261	868	1,576	2,444
1986-1990	136	448	584	1,276	4,538	5,814	1,412	4,986	6,398
1991	100	290	390	970	3,508	4,478	1,070	3,798	4,868
1992	5	202	207	97	4,504	4,601	102	4,706	4,808
1993	14	128	142	165	2,299	2,464	179	2,427	2,606
1994	18	70	88	365	1,611	1,976	383	1,681	2,064
1995	3	55	58	145	2,597	2,742	148	2,652	2,800
1996	0	13	13	214	3,110	3,324	214	3,123	3,337
1997	6	58	64	318	3,394	3,712	324	3,452	3,776
1998	6	6	12	1,689	1,934	3,623	1,695	1,940	3,635
1999	10	17	27	726	2,675	3,401	736	2,692	3,428
2000	5	6	11	1,244	1,683	2,927	1,249	1,689	2,938
2001[d/]	4	4	8	1,660	1,947	3,607	1,664	1,951	3,615
2002[d/]	5	6	11	1,513	2,182	3,695	1,518	2,188	3,706
2003[d/]	4	10	14	1,258	2,787	4,045	1,262	2,797	4,059
2004[d/]	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						5,300			
				Nooksack-Samish					
1981-1985	54,046	33,562	87,608	16,083	6,541	22,623	70,129	40,103	110,232
1986-1990	37,987	26,271	64,368	10,698	4,127	14,825	48,685	30,398	79,194
1991	26,657	3,628	30,562	9,407	708	10,115	36,064	4,336	40,677
1992	15,605	1,854	17,819	8,152	547	8,699	23,757	2,401	26,518
1993	18,080	1,760	20,260	11,335	1,013	12,348	29,415	2,773	32,608
1994	17,945	7,990	21,187	6,215	911	7,126	24,160	8,901	28,313
1995	12,561	1,239	13,967	7,993	475	8,468	20,554	1,714	22,435
1996	18,010	1,327	19,429	9,026	866	9,892	27,036	2,193	29,321
1997	18,200	3,743	14,541	15,775	3,985	19,760	33,975	7,728	34,301
1998	16,239	5,006	19,259	7,706	2,539	10,245	23,945	7,545	29,504
1999	25,724	6,804	31,295	6,962	2,598	9,560	32,686	9,402	40,855
2000	25,796	2,258	28,054	3,732	432	4,164	29,528	2,690	32,218
2001[d/]	22,209	27,159	49,368	6,300	9,017	15,317	28,509	36,176	64,685
2002[d/]	9,240	29,476	38,716	3,665	13,593	17,258	12,905	43,069	55,974
2003[d/]	6,686	12,425	19,111	3,347	7,864	11,211	10,033	20,289	30,322
2004[d/]	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				8,700					

(continued)

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/]

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size[c/]		
	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total
				(continued)					
				Skagit					
1981-1985	573	9,208	9,781	787	11,545	12,332	1,360	20,753	22,112
1986-1990	246	4,157	4,404	815	12,641	13,456	1,061	16,798	17,860
1991	387	2,737	3,124	915	5,824	6,739	1,302	8,561	9,863
1992	477	1,975	2,452	2,212	7,348	9,560	2,689	9,323	12,012
1993	214	1,185	1,399	1,184	5,801	6,985	1,398	6,986	8,384
1994	327	1,066	1,393	5,124	5,561	10,685	5,451	6,627	12,078
1995	845	2,609	3,454	2,576	6,892	9,468	3,421	9,501	12,922
1996	21	1,625	1,646	1,133	10,613	11,746	1,154	12,238	13,392
1997	18	1,127	1,145	78	4,872	4,950	96	5,999	6,095
1998	2	319	321	91	14,609	14,700	93	14,928	15,021
1999	5	257	262	92	4,924	5,016	97	5,181	5,278
2000	4	291	295	185	16,930	17,115	189	17,221	17,410
2001[d/]	2	247	249	150	13,793	13,943	152	14,040	14,192
2002[d/]	0	323	323	0	19,591	19,591	0	19,914	19,914
2003[d/]	7	292	299	194	9,489	9,683	201	9,781	9,982
2004[d/]	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					14,900				
				Hood Canal					
1981-1985	4,917	3,648	8,565	3,787	2,038	5,824	8,704	5,685	14,389
1986-1990	10,497	18,719	29,216	6,223	2,006	8,229	16,721	20,724	37,445
1991	7,912	3,856	11,768	5,637	1,858	7,495	13,549	5,714	19,263
1992	255	567	822	1,235	940	2,175	1,490	1,507	2,997
1993	566	455	1,021	2,619	1,172	3,791	3,185	1,627	4,812
1994	227	187	414	2,363	1,072	3,435	2,590	1,259	3,849
1995	178	40	218	7,176	1,999	9,175	7,354	2,039	9,393
1996	30	4	34	7,103	1,028	8,131	7,133	1,032	8,165
1997	135	7	142	7,292	492	7,784	7,427	499	7,926
1998	964	132	1,096	13,432	1,803	15,235	14,396	1,935	16,331
1999	7,184	950	8,134	18,443	2,975	21,418	25,627	3,925	29,552
2000	9,744	1,291	11,035	9,063	1,582	10,645	18,807	2,873	21,680
2001[d/]	23,285	4,212	27,497	13,616	2,428	16,044	36,901	6,640	43,541
2002[d/]	21,031	2,786	23,817	12,953	1,712	14,665	33,984	4,498	38,482
2003[d/]	24,355	1,406	25,761	4,850	1,422	6,272	29,205	2,828	32,033
2004[d/]	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				3,400					
				(continued)					

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/]

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size[c/]		
	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total
				(continued)					
				Stillaguamish-Snohomish					
1981-1985	2,714	6,915	9,630	1,849	4,901	6,750	4,564	11,816	16,380
1986-1990	932	4,241	5,174	1,134	5,210	6,344	2,066	9,451	11,517
1991	447	3,588	4,035	550	4,415	4,965	997	8,003	9,000
1992	573	2,130	2,703	943	3,488	4,431	1,516	5,618	7,134
1993	814	2,021	2,835	1,929	4,794	6,723	2,743	6,815	9,558
1994	1,497	1,755	3,252	3,904	4,580	8,484	5,401	6,335	11,736
1995	220	299	519	3,822	3,998	7,820	4,042	4,297	8,339
1996	18	23	41	4,555	6,035	10,590	4,573	6,058	10,631
1997	242	112	354	11,746	5,451	17,197	11,988	5,563	17,551
1998	37	68	105	4,691	7,844	12,535	4,728	7,912	12,640
1999	26	33	59	4,700	5,897	10,597	4,726	5,930	10,656
2000	8	94	102	1,931	7,738	9,669	1,939	7,832	9,771
2001[d/]	26	291	317	871	9,513	10,384	897	9,804	10,701
2002[d/]	17	57	74	2,566	8,808	11,374	2,583	8,865	11,448
2003[d/]	6	207	213	5,665	6,435	12,100	5,671	6,642	12,313
2004[d/]	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					7,300				
				South Puget Sound					
1981-1985	25,093	9,099	34,191	23,341	6,371	29,712	48,434	15,470	63,903
1986-1990	25,548	20,168	45,716	35,315	18,110	53,425	60,863	38,278	99,141
1991	17,096	13,998	31,094	22,368	17,545	39,913	39,464	31,543	71,007
1992	16,337	12,139	28,476	18,255	12,807	31,062	34,592	24,946	59,538
1993	17,335	10,246	27,581	21,952	9,373	31,325	39,287	19,619	58,906
1994	20,214	17,049	37,263	29,082	12,812	41,894	49,296	29,861	79,157
1995	23,959	14,867	38,826	51,803	19,843	71,646	75,762	34,710	110,472
1996	18,866	11,590	30,456	39,499	24,343	63,842	58,365	35,933	94,298
1997	11,307	4,442	15,749	36,303	16,347	52,650	47,610	20,789	68,399
1998	12,021	7,467	19,488	42,501	20,210	62,711	54,522	27,677	82,199
1999	18,185	8,141	26,326	56,495	18,948	75,443	74,680	27,089	101,769
2000	14,030	5,083	19,113	47,175	13,319	60,494	61,205	18,402	79,607
2001[d/]	33,992	10,436	44,428	67,134	25,665	92,799	101,126	36,101	137,227
2002[d/]	26,232	9,631	35,863	74,436	18,626	93,062	100,668	28,257	128,925
2003[d/]	76,384	2,374	78,758	53,091	12,979	66,070	129,475	15,353	144,828
2004[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 Pudget Sound.

d/ Preliminary

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/]

Year or Average	Commercial Net Catches[c/]			Spawning Escapement			Terminal Run Size[c/]		
	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	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	2,374	776	3,150	2,746	4,500	7,246	5,120	5,276	10,396
1992	2,371	277	2,648	3,473	6,450	9,923	5,844	6,727	12,571
1993	211	39	250	4,031	3,540	7,571	4,242	3,579	7,821
1994	1,359	251	1,610	2,267	2,850	5,117	3,626	3,101	6,727
1995	3,043	89	3,132	9,063	6,709	15,772	12,106	6,798	18,904
1996	4,176	81	4,257	7,563	3,090	10,653	11,739	3,171	14,910
1997[d/]	227	65	292	13,889	8,769	22,658	14,116	8,834	22,950
1998[d/]	5,272	964	6,236	6,109	18,077	24,186	11,381	19,041	30,422
1999[d/]	3,830	313	4,143	6,253	10,002	16,255	10,083	10,315	20,398
2000[d/]	7,989	1,726	9,715	19,233	23,758	42,991	27,222	25,484	52,706
2001[d/]	10,758	2,663	13,421	24,768	43,039	67,807	35,526	45,702	81,228
2002[d/]	8,105	1,458	9,563	10,837	24,346	35,183	18,942	25,804	44,746
2003[d/]	3,003	1,006	4,009	15,513	18,873	34,386	18,516	19,879	38,395
2004[d/]	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						14,800			
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	48,041	16,924	64,965	11,710	12,000	23,710	59,751	28,924	88,675
1992	60,755	9,291	70,046	21,616	8,900	30,516	82,371	18,191	100,562
1993	39,955	15,524	55,479	25,043	11,300	36,343	64,998	26,824	91,822
1994	43,703	20,431	64,134	14,083	14,300	28,383	57,786	34,731	92,517
1995	47,827	7,220	55,047	26,514	7,677	34,191	74,341	14,897	89,238
1996	50,711	1,607	52,318	40,293	2,518	42,811	91,004	4,125	95,129
1997[d/]	13,751	1,257	15,008	34,305	6,700	41,005	48,056	7,957	56,013
1998[d/]	15,751	7,134	22,885	21,089	10,300	31,389	36,840	17,434	54,274
1999[d/]	41,926	7,457	49,383	41,876	8,039	49,915	83,802	15,496	99,298
2000[d/]	58,011	9,597	67,608	49,035	11,000	60,035	107,046	20,597	127,643
2001[d/]	49,044	26,099	75,143	49,788	27,500	77,288	98,832	53,599	152,431
2002[d/]	34,625	16,825	51,450	45,161	20,300	65,461	79,786	37,125	116,911
2003[d/]	33,939	9,425	43,364	35,482	14,200	49,682	69,421	23,625	93,046
2004[d/]	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				17,900					

(continued)

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/]

Year or Average	Commercial Net Catches[c/]			Spawning Escapement			Terminal Run Size[c/]		
	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total
				(continued)					
				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	1,116	2,498	3,614	3,483	7,800	11,283	4,599	10,298	14,897
1992	2,881	1,856	4,737	11,641	7,500	19,141	14,522	9,356	23,878
1993	548	836	1,384	8,789	13,400	22,189	9,337	14,236	23,573
1994	987	1,152	2,139	24,908	29,100	54,008	25,895	30,252	56,147
1995	1,158	2,354	3,512	6,589	13,400	19,989	7,747	15,754	23,501
1996	719	332	1,051	17,983	8,300	26,283	18,702	8,632	27,334
1997[d/]	155	1,139	1,294	4,784	22,383	27,167	4,939	23,522	28,461
1998[d/]	749	9,563	10,312	11,046	73,678	84,724	11,795	83,241	95,036
1999[d/]	495	6,777	7,272	3,024	27,341	30,365	3,519	34,118	37,637
2000[d/]	1,526	11,777	13,303	13,935	62,898	76,833	15,461	74,675	90,136
2001[d/]	1,658	17,933	19,591	16,852	87,017	103,869	18,510	104,950	123,460
2002[d/]	2,205	11,743	13,948	19,096	55,968	75,064	21,301	67,711	89,012
2003[d/]	4,236	18,602	22,838	9,118	69,221	78,339	13,354	87,823	101,177
2004[d/]	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					30,000				
				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	20,063	1,909	21,972	6,354	12,500	18,854	26,417	14,409	40,826
1992	3,622	441	4,063	5,378	19,200	24,578	9,000	19,641	28,641
1993	2,836	440	3,276	12,293	22,100	34,393	15,129	22,540	37,669
1994	31,130	418	31,548	24,775	56,140	80,915	55,905	56,558	112,463
1995	9,019	158	9,177	25,160	40,300	65,460	34,179	40,458	74,637
1996	4,066	137	4,203	27,337	37,051	64,388	31,403	37,188	68,591
1997[d/]	4,359	5,570	9,929	35,319	95,861	131,180	39,678	101,431	141,109
1998[d/]	3,374	18,599	21,973	13,761	100,818	114,579	17,135	119,417	136,552
1999[d/]	3,641	1,246	4,887	14,113	16,563	30,676	17,754	17,809	35,563
2000[d/]	9,155	13,902	23,057	24,940	27,239	52,179	34,095	41,141	75,236
2001[d/]	8,720	11,946	20,666	39,243	94,773	134,016	47,963	106,719	154,682
2002[d/]	6,021	12,123	18,144	39,330	69,300	108,630	45,351	81,423	126,774
2003[d/]	7,198	26,211	33,409	33,221	170,255	203,476	40,419	196,466	236,885
2004[d/]	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					21,500				
				(continued)					

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/]

Year or Average	Commercial Net Catches[c/]			Spawning Escapement			Terminal Run Size[c/]		
	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total
					(continued)				
					Stillaguamish-Snohomish				
1981-1985	19,973	47,552	67,524	12,940	88,000	100,940	32,913	135,552	168,464
1986-1990	58,543	86,887	145,431	26,134	110,400	136,534	84,677	197,287	281,965
1991	55,849	50,664	106,513	19,230	45,000	64,230	75,079	95,664	170,743
1992	38,658	37,962	76,620	26,376	97,500	123,876	65,034	135,462	200,496
1993	31,202	643	31,845	15,178	62,800	77,978	46,380	63,443	109,823
1994	44,450	3,917	48,367	24,794	182,600	207,394	69,244	186,517	255,761
1995	33,367	13,688	47,055	32,271	100,700	132,971	65,638	114,388	180,026
1996	23,406	7,159	30,565	23,583	59,200	82,783	46,989	66,359	113,348
1997[d/]	19,337	5,687	25,024	25,162	69,100	94,262	44,499	74,787	119,286
1998[d/]	14,520	10,207	24,727	18,715	177,300	196,015	33,235	187,507	220,742
1999[d/]	16,636	1,634	18,270	11,578	68,300	79,878	28,214	69,934	98,148
2000[d/]	84,222	5,682	89,904	31,338	122,510	153,848	115,560	128,192	243,752
2001[d/]	58,375	17,137	75,512	41,516	334,630	376,146	99,891	351,767	451,658
2002[d/]	49,489	18,371	67,860	12,732	187,305	200,037	62,221	205,676	267,897
2003[d/]	2,034	7,251	9,285	14,925	228,290	243,215	16,959	235,541	252,500
2004[d/]	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL - Snohomish					70,000				
GOAL - Stillaguamish					17,000				
					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	207,490	72,877	280,367	54,701	14,972	69,673	262,191	87,849	350,040
1992	158,774	50,678	209,452	102,723	16,000	118,723	261,497	66,678	328,175
1993	45,935	9,245	55,180	101,159	18,400	119,559	147,094	27,645	174,739
1994	164,252	100,280	264,532	122,881	38,957	161,838	287,133	139,237	426,370
1995	113,353	49,229	162,582	103,547	31,396	134,943	216,900	80,625	297,525
1996	56,117	13,503	69,620	107,463	21,991	129,454	163,580	35,494	199,074
1997[d/]	27,242	52,147	79,389	61,274	40,500	101,774	88,516	92,647	181,163
1998[d/]	50,203	15,204	65,407	33,290	18,052	51,342	83,493	33,256	116,749
1999[d/]	15,986	5,417	21,403	26,559	10,008	36,567	42,545	15,425	57,970
2000[d/]	139,605	59,438	199,043	139,838	51,192	191,030	279,443	110,630	390,073
2001[d/]	110,988	59,923	170,911	127,179	37,688	164,867	238,167	97,611	335,778
2002[d/]	97,237	33,486	130,723	115,145	18,296	133,441	212,382	51,782	264,164
2003[d/]	97,414	30,393	127,807	94,890	51,654	146,544	192,304	82,047	274,351
2004[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 commercial net catch (inriver and terminal net 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 Pudget 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/]

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size[c/]		
	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	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[d/]	3	578	581	469	80,949	81,418	472	81,527	81,999
2003[d/]	0	282	282	0	15,148	15,148	0	15,430	15,430
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	2,446	2,446	0	95,000	95,000	0	97,446	97,446
2001[d/]	215	13,735	13,950	3,714	226,000	229,714	3,929	239,735	243,664
2003[d/]	338	2,400	2,738	7,264	51,011	58,275	7,602	53,411	61,013
GOAL					50,000				

(continued)

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/]

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size[c/]		
	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total
				(continued)					
				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	32,636	32,636	0	320,000	320,000	0	352,636	352,636
2001[d/]	0	206,533	206,533	0	894,061	894,061	0	1,100,594	1,100,594
2003[d/]	0	232,732	232,732	0	567,080	567,080	0	799,812	799,812
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	7	7	14	7,617	9,479	17,096	7,624	9,486	17,110
2001[d/]	713	703	1,416	71,539	98,338	169,877	72,252	99,041	171,293
2003[d/]	464	691	1,155	25,217	37,531	62,748	25,681	38,222	63,903
GOAL					Not Agreed Upon				
				(continued)					

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/]

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size[c/]		
	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total	Hatchery[b/]	Wild	Total
				(continued)					
				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	133	175,025	175,158	192	502,192	502,384	325	677,217	677,542
1987	757	111,294	112,051	418	271,418	271,836	1,175	382,712	383,887
1989	33	354,805	354,838	16	150,549	150,565	49	505,354	505,403
1991	18,336	63,953	82,289	447	260,000	260,447	18,783	323,953	342,736
1993	7,327	14,129	21,456	135	210,000	210,135	7,462	224,129	231,591
1995	47,431	16,440	63,871	26	309,600	309,626	47,457	326,040	373,497
1997	34,999	24,173	59,172	0	192,109	192,109	34,999	216,282	251,281
1999	11,283	2,113	13,396	0	461,543	461,543	11,283	463,656	474,939
2001[d/]	0	100,015	100,015	0	1,847,648	1,847,648	0	1,947,663	1,947,663
2003[d/]	0	187,286	187,286	0	1,577,001	1,577,001	0	1,764,287	1,764,287
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	72	72	12	4,670	4,682	12	4,742	4,754
2001[d/ e/ f/]	5	735	740	48	16,173	16,221	53	16,908	16,961
2003[d/ e/ f/]	1	5,393	5,394	68	185,277	185,345	69	190,670	190,739
GOAL					25,000				

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/ 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 Pudget Sound.

d/ Preliminary.

e/ Nisqually escapement estimate incomplete.

f/ Large runs of pinks have returned to Green River in 2001 and 2003, however, no formal escapement methodology exists, and Green River pinks are not included in the run reconstruction model.

TABLE B-43. Puget Sound spring chinook spawning escapement estimates in numbers of adult fish.

	Stock						
	Skagit		NF Nooksack		SF Nooksack	White River	Quilcene
Year	Hatchery	Natural	Natural	Hatchery	Hatchery/ Natural	Hatchery[b/]	Hatchery[c/]
1981	9	1,362	NA	NA	NA	175	NA
1982	33	965	NA	NA	NA	20	NA
1983	14	710	NA	NA	NA	42	NA
1984	6	755	45	0	188	52	NA
1985	12	3,249	258	0	445	62	149
1986	27	1,977	226	0	170	192	197
1987	21	1,981	181	0	248	261	115
1988	120	2,064	456	0	233	631	119
1989	298	1,516	303	0	606	438	120
1990	307	1,592	10	0	142	517	76
1991	386	1,442	108	151	365	426	23
1992	249	986	498	1,016	103	1,039	20
1993	1,574	782	449	1,364	235	948	27
1994	881	470	45	549	118	1,227	10
1995	984	855	230	769	290	1,684	16
1996	856	1,051	534	1,070	203	1,625	12
1997	1,220	1,041	520	1,663	180	1,609	16
1998	1,054	1,086	368	1,370	157	2,710	5
1999	3,171	471	823	2,873	166	1,550	4
2000	1,102	1,021	1,245	1,204	284	2,363	0
2001	1,566	1,856	2,209	1,006	267	5,690	0
2002[d/]	1,606	1,065	3,741	5,649	289	1,780	0
2003[d/]	1,537	844	2,857	6,250	204	2,760	0
2004[d/]	NA	NA	NA	NA	NA	NA	NA
GOAL		3,000					

a/ Natural escapement estimates based on carcass counts which are conservative. Redd counts have been made in 2 years and escapement estimates from redd counts are 3 to 4 times higher than the carcass counts. Most natural spawners are hatchery fish spawning in the wild.

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

c/ Program has been discontinued.

d/ Preliminary.