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## APPENDIX B

# HISTORICAL RECORD OF ESCAPEMENTS TO INLAND FISHERIES AND SPAWNING AREAS

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TABLE B-1. California Central Valley natural fall Chinook salmon spawning escapements in thousands of fish.<sup>a/</sup> (Page 1 of 1)

Year or Average	Lower Sacramento River															
	Upper Sacramento River		Feather River		Yuba River		American River		Total		Sacramento River Totals		San Joaquin River Totals		Central Valley Totals	
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1970-1975	56.3	17.7	41.0	10.3	11.0	1.7	39.1	3.7	91.1	15.6	147.5	33.4	16.0	2.6	163.5	35.9
1976-1980	65.4	17.5	34.0	3.5	7.4	1.6	28.5	1.3	69.9	6.5	135.2	24.0	2.9	0.8	138.1	24.8
1981-1985	57.4	22.2	36.3	5.2	12.8	5.1	32.3	5.0	81.4	15.3	138.8	37.5	34.9	10.7	173.7	48.2
1986-1990	87.4	17.2	38.7	6.4	9.3	2.4	24.4	3.3	72.4	12.2	159.8	29.4	10.8	4.4	170.6	33.8
1991	35.3	4.6	28.5	2.8	11.2	2.8	16.5	1.6	56.1	7.3	91.4	11.9	0.8	0.2	92.2	12.1
1992	31.7	9.1	19.8	4.3	4.5	1.8	3.4	1.4	27.7	7.6	59.5	16.7	1.1	0.8	60.6	17.5
1993	55.3	5.4	27.4	3.6	5.8	0.9	22.2	6.5	55.4	11.0	110.7	16.4	2.5	0.9	113.3	17.3
1994	66.4	20.4	31.0	7.4	7.0	3.8	28.6	2.9	66.6	14.1	133.0	34.5	4.4	1.3	137.4	35.8
1995	112.2	18.0	56.2	3.7	13.0	1.2	72.1	8.3	141.3	13.2	253.5	31.2	4.4	1.5	257.8	32.7
1996	131.3 <sup>b/</sup>	11.6 <sup>b/</sup>	44.6	12.6	23.5	4.4	67.7	7.0	135.8	24.0	267.1	35.7	5.7	6.0	272.8	41.6
1997	167.4	13.7	47.0	3.5	19.2	6.7	46.0	6.2	112.2	16.4	279.6	30.2	18.1	1.0	297.7	31.2
1998	60.7 <sup>b/</sup>	5.1 <sup>b/</sup>	39.6 <sup>c/</sup>	3.4	26.7	4.4	41.1	13.7	107.4	21.5	168.1	26.6	13.3	6.4	181.5	32.9
1999	263.6	7.1	30.0 <sup>c/</sup>	7.5	17.9	5.2	34.9	12.9	82.7	25.6	346.3	32.7	12.7	6.5	359.0	39.2
2000	153.6	3.9	101.4	6.5	12.9	1.9	93.7	6.2	208.0	14.6	361.6	18.5	36.5	2.6	398.1	21.1
2001	130.4	5.1	169.6	9.1	20.6	1.7	167.1	13.6	357.3	24.4	487.7	29.5	22.1	3.2	509.8	32.8
2002	481.9 <sup>d/</sup>	9.0	93.8	11.4	18.4	4.8	95.7	10.6	207.9	26.8	689.8	35.8	24.1	4.2	714.0	40.0
2003 <sup>e/</sup>	162.9	4.3	84.4	4.4	27.6	1.3	136.2	9.6	248.2	15.3	411.1	19.7	14.5	2.2	425.6	21.9

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 (Adult and jack numbers generally are based on a 24-inch fork length cut-off [unpublished CDFG data.])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 is 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 thousands of fish.<sup>a/</sup> (Page 1 of 1)

Year or Average	Sacramento Hatcheries								San Joaquin Hatcheries						Central Valley Hatchery Totals	
	Coleman <sup>b/</sup>		Feather River		Nimbus		Totals		Mokelumne River		Merced River		Totals			
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults <sup>c/</sup>	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1970-75	1.6	1.1	3.6	1.3	7.8	1.2	13.6	3.6	0.3	0.2	0.4	0.0	0.7	0.2	14.3	3.8
1976-80	4.2	1.3	4.3	1.0	7.2	2.0	17.2	4.3	0.3	0.1	0.3	0.0	0.6	0.1	17.8	4.4
1981-85	11.6	3.7	6.8	0.9	10.1	2.3	29.8	6.9	0.8	0.7	0.8	0.4	1.6	1.2	31.4	8.1
1986-90	11.5	2.3	5.8	1.9	5.7	1.3	23.0	5.6	0.3	0.3	0.3	0.1	0.6	0.4	23.6	6.0
1991	10.0	0.7	9.2	1.5	6.8	0.4	26.0	2.5	0.0	0.0	0.0	0.0	0.1	0.0	26.1	2.5
1992	6.3	1.0	10.3	6.1	5.1	1.3	21.7	8.5	0.3	0.4	0.1	0.2	0.4	0.7	22.1	9.2
1993	7.1	0.5	10.2	1.8	7.3	3.3	24.6	5.6	1.5	0.6	0.2	0.2	1.8	0.8	26.4	6.4
1994	11.6	7.4	11.3	3.9	7.7	0.9	30.6	12.2	1.2	0.8	0.5	0.4	1.7	1.2	32.3	13.4
1995	24.8	1.9	11.6	0.6	5.2	1.3	41.5	3.8	2.4	0.9	0.3	0.3	2.7	1.2	44.2	5.0
1996	18.8	2.3	6.5	1.6	7.2	0.5	32.5	4.4	1.8	2.1	0.4	0.7	2.2	2.8	34.7	7.2
1997	44.6	6.1	13.4	1.8	5.3	0.3	63.3	8.2	6.3	0.2	0.8	0.1	7.1	0.3	70.4	8.5
1998	42.4	2.0	17.6	1.3	9.9	1.8	69.9	5.1	2.5	0.6	0.3	0.5	2.9	1.0	72.8	6.1
1999	23.2	3.8	11.1	1.3	6.2	3.6	40.5	8.6	1.6	1.5	0.6	1.0	2.3	2.5	42.8	11.1
2000	20.8	0.9	21.0	0.2	10.3	0.8	52.1	1.9	4.6	0.9	1.8	0.2	6.4	1.0	58.6	3.0
2001	23.7	1.0	23.8	0.6	9.7	2.0	57.2	3.6	4.3	1.4	1.1	0.5	5.5	1.9	62.7	5.5
2002	62.2	4.0	17.5	3.0	6.2	3.6	85.9	10.5	5.8	2.1	1.3	0.6	7.0	2.7	93.0	13.2
2003 <sup>d/</sup>	83.0	5.3	13.6	1.4	11.9	3.0	108.5	9.7	5.1	3.0	0.4	0.2	5.5	3.2	114.0	12.8
GOALS <sup>e/</sup>	9.0	-	5.0	-	6.0	-	20.0	-	5.0	-	1.0	-	6.0	-	26.0	-

a/ Counts of fewer than 50 fish are shown as 0. 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 thousands of fish. (Page 1 of 1)

Year or Average	Upper Sacramento River									Grand Totals	
	Late Fall <sup>a/b/</sup>		Winter <sup>a/b/</sup>		Spring						
	Adults	Jacks	Adults	Jacks	Tributary <sup>c/</sup> Adults and Jacks <sup>f/</sup>	Sacramento River <sup>a/d/</sup>		Feather River <sup>d/e/</sup>		Adults	Jacks
1971-1975	17.9	0.9	21.8	8.8	5.2	5.1	1.7	0.4	0.0	50.3	11.4
1976-1980	9.2	1.8	13.0	2.5	1.2	8.3	2.6	0.4	0.0	32.1	6.8
1981-1985	7.9	1.7	5.2	0.9	1.1	9.8	4.2	1.4	0.1	25.4	7.0
1986-1990	10.5	1.4	1.4	0.4	1.7	8.8	1.9	2.9	0.4	25.2	4.1
1991	6.6	0.5	0.2	<sup>g/</sup>	0.8	0.6	0.2	4.1	0.2	12.3	0.9
1992	9.7	0.7	1.2	0.1	1.2	0.3	0.1	1.3	0.2	13.6	1.0
1993	0.4	0.2	0.3	0.1	1.0	0.3	0.1	3.9	0.7	5.8	1.2
1994	0.5	0.1	0.1	0.1	1.7	0.5	0.4	2.8	0.9	5.5	1.5
1995	0.3 <sup>h/</sup>	0.0 <sup>h/</sup>	1.3	<sup>g/</sup>	9.4	0.3	0.1	5.0	0.4	16.3	0.5
1996	1.0 <sup>h/</sup>	0.4 <sup>h/</sup>	0.7	0.6	2.3	0.5	0.1	5.6	0.8	10.1	1.9
1997	4.2 <sup>h/</sup>	0.4 <sup>h/</sup>	0.5	0.4	1.3	0.0	0.1	3.0	0.7	9.0	1.5
1998	40.2 <sup>i/</sup>	5.1 <sup>i/</sup>	2.1	0.9	23.6	0.6	0.5	6.2	0.5	72.7	7.0
1999	24.5 <sup>i/</sup>	4.0 <sup>i/</sup>	0.8	2.5	6.1	0.1	0.1	3.5	0.2	35.0	6.8
2000	11.1 <sup>i/</sup>	3.5 <sup>i/</sup>	0.6	0.8	5.5	0.1	<sup>g/</sup>	3.4	0.3	20.6	4.6
2001	24.0 <sup>j/</sup>	1.0 <sup>j/</sup>	1.7	3.8	25.5 <sup>j/</sup>	1.0	<sup>k/</sup>	4.1	0.1	56.2	4.9
2002	39.7 <sup>j/</sup>	0.4 <sup>j/</sup>	7.6	1.6	17.6 <sup>j/</sup>	0.4	0.1	4.0	0.2	69.3	2.2
2003 <sup>l/</sup>	9.4 <sup>i/</sup>	0.2 <sup>i/</sup>	6.2	3.6	21.8 <sup>j/</sup>	<sup>m/</sup>	<sup>m/</sup>	8.3	0.4	45.6	4.2

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/ Fewer than 50 fish.

h/ 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.

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

j/ Includes Butte Creek spring run estimates.

k/ Jack proportion could not be determined.

l/ Preliminary.

m/ Estimates from mainstem Sacramento River not available.

TABLE B-4. Summary of Klamath River fall Chinook salmon estimates in thousands of adults and jacks. (Page 1 of 2)

Year	Category	Total Inriver Run	Inriver Harvest			Nonlanded Fishery Mortality	Spawning Escapement								
			Indian	Sport	Total		Klamath River			Trinity River			Total		
							Hatchery	Natural	Total	Hatchery	Natural	Total	Hatchery	Natural	Total
1978	Adults	92.9	18.2	1.7	19.9	1.6	6.9	27.4	34.4	6.0	31.1	37.1	13.0	58.5	71.5
	Jacks	22.7	1.8	2.1	3.9	0.2	0.9	11.7	12.7	1.3	4.7	6.0	2.2	16.4	18.7
1979	Adults	51.3	13.7	2.1	15.8	1.2	2.3	22.6	24.9	1.3	8.0	9.4	3.6	30.6	34.3
	Jacks	11.7	1.4	2.2	3.5	0.2	0.3	2.8	3.1	1.0	3.9	4.9	1.2	6.8	8.0
1980	Adults	45.6	12.0	4.5	16.5	1.1	2.4	13.8	16.2	4.1	7.7	11.8	6.5	21.5	28.0
	Jacks	36.8	1.0	5.9	6.9	0.2	0.5	10.1	10.6	2.3	16.8	19.1	2.7	27.0	29.7
1981	Adults	80.3	33.0	6.0	39.0	3.0	2.1	18.5	20.6	2.4	15.3	17.7	4.4	33.9	38.3
	Jacks	28.1	2.5	7.3	9.7	0.4	0.5	10.6	11.1	1.0	5.9	6.9	1.5	16.5	18.1
1982	Adults	66.6	14.5	8.3	22.8	1.4	8.4	22.7	31.0	2.1	9.3	11.3	10.4	32.0	42.4
	Jacks	39.4	1.8	12.5	14.3	0.4	1.8	10.5	12.3	4.2	8.1	12.4	6.1	18.6	24.7
1983	Adults	57.5	7.9	4.2	12.1	0.8	8.4	13.5	21.9	5.5	17.3	22.8	13.9	30.8	44.6
	Jacks	3.8	0.2	0.4	0.5	0.0	0.5	1.7	2.2	0.3	0.9	1.1	0.8	2.5	3.3
1984	Adults	47.3	18.7	3.3	22.0	1.7	5.3	10.4	15.7	2.2	5.7	7.8	7.5	16.1	23.6
	Jacks	8.3	0.5	1.0	1.4	0.1	0.8	1.9	2.6	0.8	3.4	4.2	1.5	5.3	6.8
1985	Adults	64.4	11.6	3.6	15.1	1.1	20.0	16.5	36.4	2.6	9.2	11.8	22.5	25.7	48.2
	Jacks	69.4	1.6	11.2	12.8	0.4	2.2	6.5	8.7	18.2	29.5	47.6	20.3	36.0	56.3
1986	Adults	195.0	25.1	21.0	46.2	2.6	17.1	20.8	37.9	15.8	92.5	108.3	32.9	113.4	146.3
	Jacks	44.5	0.9	9.4	10.3	0.3	1.5	8.5	9.9	3.6	20.5	24.1	5.1	28.9	34.0
1987	Adults	209.1	53.1	20.2	73.3	5.0	15.2	29.8	45.0	13.9	71.9	85.9	29.1	101.7	130.8
	Jacks	19.0	0.4	5.4	5.9	0.1	1.8	2.8	4.6	2.5	5.9	8.4	4.3	8.8	13.1
1988	Adults	191.6	51.7	22.2	73.9	4.9	16.1	34.8	50.9	17.4	44.6	62.0	33.5	79.4	112.8
	Jacks	24.1	0.6	5.4	6.0	0.2	0.6	1.9	2.5	4.8	10.6	15.4	5.4	12.5	17.9
1989	Adults	124.3	45.6	8.8	54.3	4.1	10.9	14.4	25.3	11.1	29.4	40.6	22.0	43.9	65.9
	Jacks	9.1	0.2	2.3	2.5	0.1	0.8	3.0	3.8	0.2	2.5	2.8	1.1	5.5	6.6
1990	Adults	35.9	7.9	3.6	11.5	0.8	6.7	7.9	14.6	1.3	7.7	9.0	8.1	15.6	23.6
	Jacks	4.4	0.2	2.1	2.3	0.1	0.3	1.1	1.4	0.4	0.2	0.6	0.7	1.4	2.0
1991	Adults	32.7	10.2	3.4	13.6	1.0	4.0	6.8	10.8	2.5	4.9	7.3	6.5	11.6	18.1
	Jacks	1.8	0.1	0.7	0.7	0.0	0.1	0.3	0.4	0.2	0.4	0.6	0.3	0.7	1.0
1992	Adults	26.7	5.8	1.0	6.8	0.5	3.6	4.9	8.5	3.8	7.1	10.9	7.4	12.0	19.4
	Jacks	13.7	0.4	4.1	4.5	0.1	3.7	2.6	6.3	0.2	2.6	2.8	3.9	5.1	9.1
1993	Adults	57.2	9.6	3.2	12.8	0.9	20.8	16.0	36.8	0.8	5.9	6.7	21.6	21.9	43.5
	Jacks	7.6	0.2	1.9	2.1	0.1	0.9	1.4	2.2	0.7	2.5	3.2	1.6	3.8	5.4
1994	Adults	61.7	11.7	1.8	13.5	1.1	11.5	21.4	32.9	3.3	10.9	14.2	14.7	32.3	47.1
	Jacks	14.4	0.3	2.6	2.8	0.1	0.8	3.7	4.5	4.4	2.5	6.9	5.2	6.2	11.4

TABLE B-4. Summary of Klamath River fall Chinook salmon estimates in thousands of adults and jacks. (Page 2 of 2)

Year	Category	Total Inriver Run	Inriver Harvest			Nonlanded Fishery Mortality	Spawning Escapement								
			Indian	Sport	Total		Klamath River			Trinity River			Total		
							Hatchery	Natural	Total	Hatchery	Natural	Total	Hatchery	Natural	Total
1995	Adults	213.8	15.6	6.1	21.6	1.5	13.7	83.9	97.7	15.2	77.9	93.1	28.9	161.8	190.7
	Jacks	22.8	0.6	4.4	5.0	0.1	0.3	8.1	8.3	0.1	9.3	9.3	0.3	17.3	17.7
1996	Adults	175.8	56.5	12.8	69.2	5.2	13.6	38.7	52.3	6.4	42.6	49.1	20.0	81.3	101.4
	Jacks	9.5	0.2	2.3	2.5	0.1	0.5	1.7	2.2	0.2	4.5	4.7	0.8	6.2	7.0
1997	Adults	83.7	12.1	5.7	17.8	1.2	13.3	34.6	47.9	5.4	11.5	16.9	18.7	46.1	64.8
	Jacks	8.0	0.0	2.4	2.4	0.1	0.5	1.4	1.8	0.8	2.8	3.7	1.3	4.2	5.5
1998	Adults	90.6	10.2	7.7	17.9	1.0	14.9	18.0	33.0	14.3	24.5	38.8	29.2	42.5	71.7
	Jacks	4.6	0.1	1.1	1.2	0.0	0.4	0.9	1.3	0.2	2.0	2.2	0.6	2.9	3.5
1999	Adults	51.0	14.7	2.3	16.9	1.3	9.3	11.7	21.0	5.0	6.8	11.8	14.3	18.5	32.8
	Jacks	19.2	0.3	1.6	1.9	0.1	4.8	6.3	11.1	2.0	4.2	6.2	6.9	10.4	17.3
2000	Adults	218.1	29.4	5.7	35.1	2.7	71.6	58.4	130.0	26.0	24.3	50.3	97.6	82.7	180.3
	Jacks	10.2	0.3	1.6	1.9	0.1	0.8	2.9	3.7	1.1	3.5	4.6	1.9	6.4	8.3
2001	Adults	187.4	38.6	12.1	50.8	3.7	37.2	40.9	78.1	17.9	36.9	54.8	55.1	77.8	132.9
	Jacks	11.3	0.4	1.5	1.9	0.1	1.4	6.4	7.7	0.3	1.4	1.6	1.6	7.7	9.4
2002	Adults	160.8 <sup>a/</sup>	24.6	10.5	35.1	2.4	23.7	54.2	77.9	3.5	11.4	14.9	27.2	65.6	92.8
	Jacks	9.2	0.1	0.9	1.0	0.0	1.3	1.5	2.8	1.0	2.3	3.4	2.3	3.9	6.2
2003 <sup>b/</sup>	Adults	191.6	29.9	9.7	39.6	2.8	32.0	55.0	87.0	29.8	32.4	62.2	61.8	87.4	149.2
	Jacks	3.8	0.0	0.8	0.9	0.0	0.3	0.8	1.1	0.6	1.2	1.8	0.9	2.1	3.0
GOAL	Adults														35.0

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 harvest.<sup>a/</sup> (Page 1 of 3)

Year	Area	Chinook Salmon (numbers of fish)					
		Spring Run			Fall Run		
		Jack	Adult	Total	Jack	Adult	Total
1977	Total	b/	b/	b/	2,700	27,300	30,000
1978	Total	b/	b/	b/	1,800	18,200	20,000
1979	Total	b/	b/	b/	1,350	13,650	15,000
1980	Total	20	980	1,000	987	12,013	13,000
1981	Estuary	21	1,320	1,341	912	23,097	24,009
	Resighinni	0	16	16	338	4,293	4,631
	Upper Klamath	19	381	400	766	4,112	4,878
	Trinity River	<u>17</u>	<u>1,090</u>	<u>1,107</u>	<u>449</u>	<u>1,531</u>	<u>1,980</u>
	Total	<u>57</u>	<u>2,807</u>	<u>2,864</u>	<u>2,465</u>	<u>33,033</u>	<u>35,498</u>
1982	Estuary	3	172	175	290	4,547	4,837
	Resighinni	11	789	800	368	3,551	3,919
	Upper Klamath	21	1,479	1,500	827	4,873	5,700
	Trinity River	<u>10</u>	<u>715</u>	<u>725</u>	<u>314</u>	<u>1,511</u>	<u>1,825</u>
	Total	<u>45</u>	<u>3,155</u>	<u>3,200</u>	<u>1,799</u>	<u>14,482</u>	<u>16,281</u>
1983	Estuary	1	59	60	12	800	812
	Middle Klamath	3	322	325	32	2,626	2,658
	Upper Klamath	1	129	130	89	3,074	3,163
	Trinity River	<u>5</u>	<u>75</u>	<u>80</u>	<u>30</u>	<u>1,390</u>	<u>1,420</u>
	Total	<u>10</u>	<u>585</u>	<u>595</u>	<u>163</u>	<u>7,890</u>	<u>8,053</u>
1984	Estuary	2	53	55	132	11,878	12,010
	Middle Klamath	8	147	155	81	2,807	2,888
	Upper Klamath	2	47	49	102	2,815	2,917
	Trinity River	<u>0</u>	<u>380</u>	<u>380</u>	<u>140</u>	<u>1,170</u>	<u>1,310</u>
	Total	<u>12</u>	<u>627</u>	<u>639</u>	<u>455</u>	<u>18,670</u>	<u>19,125</u>
1985 <sup>c/</sup>	Estuary	29	580	609	132	5,700	5,832
	Middle Klamath	6	184	190	283	1,731	2,014
	Upper Klamath	10	310	320	193	2,194	2,387
	Trinity River	<u>115</u>	<u>1,000</u>	<u>1,115</u>	<u>947</u>	<u>1,941</u>	<u>2,888</u>
	Total	<u>160</u>	<u>2,074</u>	<u>2,234</u>	<u>1,555</u>	<u>11,566</u>	<u>13,121</u>
1986 <sup>c/</sup>	Estuary	1	40	41	191	15,286	15,477
	Middle Klamath	3	164	167	176	2,501	2,677
	Upper Klamath	10	488	498	201	1,532	1,733
	Trinity River	<u>81</u>	<u>2,022</u>	<u>2,103</u>	<u>586</u>	<u>4,808</u>	<u>5,394</u>
	Total	<u>95</u>	<u>2,714</u>	<u>2,809</u>	<u>1,154</u>	<u>24,127</u>	<u>25,281</u>
1987	Commercial Estuary	0	0	0	0	29,040	29,040
	Subsistence: Estuary	23	786	809	36	10,938	10,974
	Middle Klamath	5	171	176	30	5,079	5,109
	Upper Klamath	20	689	709	87	3,057	3,144
	Trinity River	<u>122</u>	<u>4,146</u>	<u>4,268</u>	<u>262</u>	<u>4,982</u>	<u>5,244</u>
	Total	<u>176</u>	<u>5,792</u>	<u>5,962</u>	<u>415</u>	<u>53,096</u>	<u>53,511</u>
1988	Commercial Estuary	0	0	0	0	25,782	25,782
	Subsistence: Estuary	8	1,669	1,677	138	11,132	11,270
	Middle Klamath	0	710	710	36	6,252	6,288
	Upper Klamath	0	539	539	137	3,415	3,552
	Trinity River	<u>84</u>	<u>2,727</u>	<u>2,811</u>	<u>267</u>	<u>5,070</u>	<u>5,337</u>
	Total	<u>92</u>	<u>5,645</u>	<u>5,737</u>	<u>578</u>	<u>51,651</u>	<u>52,229</u>
1989	Commercial Estuary	0	206	206	0	27,504	27,504
	Subsistence: Estuary	0	644	644	0	9,626	9,626
	Middle Klamath	0	2,008	2,008	65	3,108	3,173
	Upper Klamath	0	1,887	1,887	55	1,853	1,908
	Trinity River	<u>20</u>	<u>1,978</u>	<u>1,998</u>	<u>71</u>	<u>3,474</u>	<u>3,545</u>
	Total	<u>20</u>	<u>6,723</u>	<u>6,743</u>	<u>191</u>	<u>45,565</u>	<u>45,756</u>



TABLE B-5. Estimates of Yurok and Hoopa Valley reservation Indian gillnet harvest.<sup>a/</sup> (Page 2 of 3)

Year	Area	Chinook Salmon (numbers of fish)					
		Spring Run			Fall Run		
		Jack	Adult	Total	Jack	Adult	Total
1990	Commercial Estuary	-	-	-	-	-	-
	Subsistence: Estuary	0	388	388	13	3,536	3,549
	Middle Klamath	0	521	521	36	1,116	1,152
	Upper Klamath	0	504	504	102	2,331	2,433
	Trinity River	<u>24</u>	<u>865</u>	<u>889</u>	<u>36</u>	<u>811</u>	<u>847</u>
	Total	24	2,278	2,302	187	7,794	7,981
1991	Commercial Estuary	-	-	-	-	-	-
	Subsistence: Estuary	0	70	70	7	3,902	3,909
	Middle Klamath	0	46	46	9	1,765	1,774
	Upper Klamath	3	167	170	16	3,251	3,267
	Trinity River	<u>0</u>	<u>263</u>	<u>263</u>	<u>30</u>	<u>1,310</u>	<u>1,340</u>
	Total	3	546	549	62	10,228	10,290
1992	Commercial Estuary	-	-	-	-	-	-
	Subsistence: Estuary	0	15	15	124	1,152	1,276
	Middle Klamath	0	97	97	52	1,107	1,159
	Upper Klamath	0	284	284	148	2,580	2,728
	Trinity River	<u>0</u>	<u>346</u>	<u>346</u>	<u>42</u>	<u>946</u>	<u>988</u>
	Total	0	742	742	366	5,785	6,151
1993	Commercial Estuary	-	-	-	-	-	-
	Subsistence: Estuary	0	19	19	62	3,017	3,079
	Middle Klamath	0	320	320	33	1,632	1,665
	Upper Klamath	0	211	211	47	3,495	3,542
	Trinity River	<u>0</u>	<u>228</u>	<u>228</u>	<u>33</u>	<u>1,492</u>	<u>1,525</u>
	Total	0	778	778	175	9,636	9,811
1994	Commercial Estuary	-	-	-	-	-	-
	Subsistence: Estuary	9	152	161	80	4,341	4,421
	Middle Klamath	14	110	124	4	1,448	1,452
	Upper Klamath	3	239	242	71	3,658	3,729
	Trinity River	<u>0</u>	<u>255</u>	<u>255</u>	<u>94</u>	<u>2,266</u>	<u>2,360</u>
	Total	26	756	782	249	11,713	11,962
1995	Commercial Estuary	-	-	-	-	-	-
	Subsistence: Estuary	0	656	656	117	5,200	5,317
	Middle Klamath	0	1,312	1,312	44	2,415	2,459
	Upper Klamath	0	624	624	47	4,610	4,657
	Trinity River	<u>93</u>	<u>1,175</u>	<u>1,268</u>	<u>268</u>	<u>3,383</u>	<u>3,651</u>
	Total	93	3,767	3,860	476	15,608	16,084
1996	Commercial Estuary	16	3,113	3,129	127	40,020	40,147
	Subsistence: Estuary	1	1,851	1,852	36	9,093	9,129
	Middle Klamath	9	673	682	7	1,570	1,577
	Upper Klamath	3	268	271	12	3,023	3,035
	Trinity River	<u>6</u>	<u>1,182</u>	<u>1,188</u>	<u>8</u>	<u>2,770</u>	<u>2,778</u>
	Total	35	7,087	7,122	190	56,476	56,666
1997	Commercial Estuary	-	-	-	-	-	-
	Subsistence: Estuary	0	2,919	2,919	21	5,574	5,595
	Middle Klamath	0	1,102	1,102	3	1,479	1,482
	Upper Klamath	0	1,419	1,419	5	3,796	3,801
	Trinity River	<u>1</u>	<u>1,250</u>	<u>1,251</u>	<u>6</u>	<u>1,238</u>	<u>1,244</u>
	Total	1	6,690	6,691	35	12,087	12,122
1998	Commercial Estuary	-	-	-	-	-	-
	Subsistence: Estuary	2	621	623	16	3,454	3,470
	Middle Klamath	0	937	937	9	1,324	1,333
	Upper Klamath	0	780	780	23	3,874	3,897
	Trinity River	<u>45</u>	<u>426</u>	<u>471</u>	<u>5</u>	<u>1,535</u>	<u>1,540</u>
	Total	47	2,764	2,811	53	10,187	10,240
1999	Commercial Estuary	-	-	-	-	2,077	2,077
	Subsistence: Estuary	2	456	458	127	2,315	2,442
	Middle Klamath	0	1,343	1,343	49	2,261	2,310
	Upper Klamath	0	593	593	237	4,784	5,021
	Trinity River	<u>13</u>	<u>776</u>	<u>789</u>	<u>96</u>	<u>2,978</u>	<u>3,074</u>
	Total	15	3,168	3,183	509	14,415	14,924

TABLE B-5. Estimates of Yurok and Hoopa Valley reservation Indian gillnet harvest.<sup>a/</sup> (Page 3 of 3)

		Chinook Salmon (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	<u>29</u>	<u>1,325</u>	<u>1,354</u>	<u>128</u>	<u>5,962</u>	<u>6,090</u>
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
		Middle Klamath	0	134	134	28	1,697	1,725
		Upper Klamath	19	1,504	1,523	49	2,976	3,025
		Trinity River	<u>46</u>	<u>4,164</u>	<u>4,210</u>	<u>60</u>	<u>4,954</u>	<u>5,014</u>
	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
		Middle Klamath	70	1,310	1,380	10	729	739
		Upper Klamath	24	2,205	2,229	31	2,528	2,559
		Trinity River	<u>40</u>	<u>3,052</u>	<u>3,062</u>	<u>68</u>	<u>1,168</u>	<u>1,236</u>
	Total	166	14,970	15,136	126	24,574	24,700	
2003 <sup>d/</sup>	Commercial:	Estuary	3	780	783	14	17,081	17,095
		Upper Klamath	0	0	0	0	0	0
	Subsistence:	Estuary	0	3	3	1	5,467	5,468
		Middle Klamath	0	0	0	5	1,377	1,382
		Upper Klamath	0	0	0	12	3,201	3,213
		Trinity River	<u>7</u>	<u>2,377</u>	<u>2,384</u>	<u>12</u>	<u>2,771</u>	<u>2,783</u>
	Total	10	3,160	3,170	44	29,897	29,941	

a/ USFWS estimates for 1977-1982 and for Klamath River portion in 1983-1993. The Fisheries Department of the Hoopa Valley Business Council has monitored the Trinity River fishery since 1982. The Yurok Tribe Fisheries Program monitored the Klamath River portion in 1994 and 1995.

b/ No estimate.

c/ Does not include fall chinook harvested under special ceremonial permit.

d/ Preliminary.

TABLE B-6. **Shasta River fall Chinook salmon weir counts or spawning escapement estimates.**<sup>a/</sup> (Page 1 of 1)

Year	Adults	Jacks	Total	Year	Adults	Jacks	Total
1930	7,280	12,082	19,362	1967	10,478	1,836	12,314
1931	61,811	20,037	81,848	1968	13,039	1,003	14,042
1932	30,534	5,058	35,592	1969	10,576	3,049	13,625
1933 <sup>b/</sup>	4,700	6,886	11,586	1970	12,693	712	13,405
1934	26,614	21,807	48,421	1971	4,970	1,649	6,619
1935	63,711	9,660	73,371	1972	2,802	839	3,641
1936	33,264	14,669	47,933	1973	4,516	4,902	9,418
1937	32,027	1,229	33,256	1974	7,376	2,729	10,105
1938	6,497	1,118	7,615	1975	11,821	4,211	16,032
1939	8,313	19,670	27,983	1976 <sup>c/</sup>	4,154	1,919	6,073
1940	50,725	4,431	55,156	1977	5,478	1,969	7,447
1941	7,372	5,860	13,232	1978	12,024	6,707	18,731
1942	9,342	1,834	11,176	1979	7,111	1,040	8,151
1943	8,048	1,974	10,022	1980	3,762	4,334	8,096
1944	8,604	2,686	11,290	1981	7,890 <sup>d/</sup>	4,330	12,220
1945	14,905	3,291	18,196	1982	6,533	1,922	8,455
1946	6,949	641	7,590	1983	3,119	753	3,872
1947	298	43	341	1984	2,362	480	2,842
1948	31	6	37	1985	2,897	2,227	5,124
1949	171	21	192	1986	3,274	683	3,957
1950		-- Incomplete Count --		1987	4,299	398	4,697
1951	1,565	459	2,024	1988 <sup>e/</sup>	2,586	256	2,842
1952	1,488	178	1,666	1989	1,440	137	1,577
1953	1,444	161	1,605	1990	415	118	533
1954	1,768	857	2,625	1991	716	10	726
1955	1,620	197	1,817	1992	520	66	586
1956		-- No Count --		1993	1,341	85	1,426
1957	1,781	453	2,234	1994	3,363	1,840	5,203
1958	4,694	1,379	6,073	1995	12,816	695	13,511
1959	8,619	1,256	9,875	1996	1,404	46	1,450
1960	9,489	1,209	10,698	1997	1,677	334	2,011
1961	5,250	3,514	8,764	1998	2,466	76	2,542
1962	9,907	4,991	14,898	1999	1,296	1,901	3,197
1963	22,825	9,012	31,837	2000	11,025	1,271	12,296
1964	30,715	3,648	34,363	2001	8,452	2,641	11,093
1965	7,136	775	7,911	2002	6,432	386	6,818
1966	5,573	451	6,024	2003 <sup>f/</sup>	4,134	155	4,289

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 this season.

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

d/ Includes 276 females taken to Iron Gate Hatchery.

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. (Page 1 of 1)

Year	Canon Creek (Mad River) <sup>a/b/</sup>			Sprowl Creek (Eel River) <sup>a/c/</sup>			Tomki Creek (Eel River) <sup>d/</sup>
	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	-	-	-	-	-	-	-
1966-1967	NA	334	3	3	1,189	6	-
1967-1968	-	-	-	-	-	-	-
1968-1969	-	-	-	-	-	-	-
1969-1970	-	-	-	-	-	-	-
1970-1971	NA	230	0	-	-	-	-
1971-1972	-	-	-	-	-	-	-
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	565
1982-1983	3	68	0	6	169	1	1,741
1983-1984	2	137	0	2	82	0	-
1984-1985 <sup>e/</sup>	1	16	0	6	67	13	1,292
1985-1986	10	514	14	6	320	0	3,558
1986-1987 <sup>e/</sup>	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 <sup>e/</sup>	4	9	9	5	89	14	0
1990-1991	1	0	3	2	0	0	0
1991-1992 <sup>e/</sup>	2	8	0	2	159	0	3
1992-1993 <sup>e/</sup>	3	57	1	2	142	2	15
1993-1994	3	20	0	4	171	36	5
1994-1995	3	33	3	7	52	0	22
1995-1996 <sup>e/</sup>	1	93	4	3	136	8	69
1996-1997	1	129	4	3	106	8	90
1997-1998	2	55	1	4	97	0	44
1998-1999	2	66	0	4	79	11	65
1999-2000 <sup>e/</sup>	8	162	1	7	34	1	35
2000-2001 <sup>e/</sup>	3	79	3	4	12	0	50
2001-2002	2	45	6	5	136	25	162 <sup>f/</sup>
2002-2003	3	402	1	6	267	17	5 <sup>f/</sup>
2003-2004 <sup>e/g/</sup>	2	79	1	5	106	8	137 <sup>f/</sup>

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. (Page 1 of 1)

Year	Deep Creek (Pistol River) (0.4 mile)		Big Emily Creek (Chetco River) (1.0 mile)		Bear Creek (Winchuck River) (0.8 mile)		Index (fish per mile)	
	Adults	Jack	Adults	Jacks	Adults	Jacks	Adults	Jacks
1960	1	0	-	-	-	-	-	-
1961	4	1	-	-	-	-	-	-
1962	9	2	-	-	-	-	-	-
1963	7	0	-	-	-	-	-	-
1964	12	0	-	-	30	2	-	-
1965	0	-	-	-	14	0	-	-
1966	82	6	-	-	27	3	-	-
1967	2	1	-	-	31	0	-	-
1968	8	1	-	-	57	2	-	-
1969	-	-	-	-	29	2	-	-
1970	-	-	-	-	-	-	-	-
1971	7	0	303	28	15	0	148	13
1972	7	0	344	11	-	-	251	8
1973	6	2	98	8	46	6	68	7
1974	2	0	100	0	13	0	52	0
1975	2	0	-	-	-	-	-	-
1976	-	-	41	22	0	2	23	13
1977	3	2	-	-	29	1	27	3
1978	-	-	245	36	33	0	154	20
1979	-	-	104	30	17	3	67	18
1980	0	0	107	39	13	0	55	18
1981	14	1	75	21	10	0	45	10
1982	25	1	84	12	13	1	55	6
1983	31	3	38	4	12	1	37	4
1984	11	2	23	4	15	1	22	3
1985	37	2	91	8	13	4	64	6
1986	0 <sup>a/</sup>	0 <sup>a/</sup>	73	20	12	3	39	10
1987	11	2	23	6	18	2	24	5
1988	27	3	112	25	15	1	70	13
1989	6	2	54	7	4	1	29	5
1990	1	0	26	2	2	1	13	1
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 <sup>b/</sup>	20	7	28	5	2	1	23	6

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

b/ Preliminary.

TABLE B-9. Counts of **natural** and **hatchery spring chinook** salmon at Gold Ray Dam on the **Rogue River** and at Winchester Dam on the north **Umpqua River** in thousands of fish. (Page 1 of 2)

Year	Gold Ray Dam, Rogue River <sup>a)</sup>				Winchester Dam, Umpqua River <sup>a)</sup>			
	Natural	Hatchery	Total	Jacks <sup>b)</sup>	Natural	Hatchery	Total	Jacks <sup>b)</sup>
1942	41.8	-	41.8	6.2	-	-	-	-
1943	36.1	-	36.1	4.5	-	-	-	-
1944	30.6	-	30.6	3.7	-	-	-	-
1945	32.0	-	32.0	5.3	-	-	-	-
1946	28.4	-	28.4	4.6	2.5	-	2.5	0.5
1947	33.6	-	33.6	3.1	3.8	-	3.8	0.8
1948	27.0	-	27.0	2.9	2.5	-	2.5	0.2
1949	18.8	-	18.8	1.8	2.6	-	2.6	0.5
1950	15.5	-	15.5	2.7	2.3	-	2.3	0.3
1951	19.4	-	19.4	4.9	3.6	-	3.6	0.7
1952	15.9	-	15.9	3.8	5.2	0.1	5.3	0.6
1953	31.5	-	31.5	4.2	3.9	0.9	4.8	0.5
1954	24.7	-	24.7	5.2	1.5	1.7	3.2	1.6
1955	15.7	-	15.7	2.8	6.6	1.0	7.6	1.4
1956	28.1	-	28.1	3.9	8.0	1.3	9.3	1.4
1957	17.7	-	17.7	3.0	4.0	1.2	5.2	0.9
1958	15.0	-	15.0	1.9	3.6	0.8	4.4	0.5
1959	14.0	-	14.0	2.6	3.1	0.7	3.8	0.3
1960	24.4	-	24.4	5.5	3.4	0.7	4.1	0.5
1961	31.8	-	31.8	5.4	4.4	0.9	5.3	0.5
1962	31.4	-	31.4	5.3	3.3	0.9	4.2	0.6
1963	40.6	-	40.6	6.9	8.7	2.3	11.0	1.8
1964	37.3	-	37.3	6.2	6.6	2.2	8.8	3.0
1965	47.6	-	47.6	8.1	9.0	2.7	11.7	3.1
1966	31.4	-	31.4	3.5	6.7	0.6	7.3	1.3
1967	14.7	-	14.7	2.4	6.5	2.6	9.1	4.9
1968	19.5	-	19.5	7.5	6.2	3.1	9.3	4.3
1969	59.0	-	59.0	6.7	10.7	9.4	20.1	3.0
1970	45.1	-	45.1	7.4	6.1	6.9	13.0	2.4
1971	28.3	1.1	29.5	6.1	6.0	3.9	9.9	2.6
1972	30.0	0.8	30.8	5.7	7.9	8.5	16.4	7.4
1973	34.7	0.6	35.3	5.0	11.4	8.2	19.7	3.2
1974	16.5	0.5	17.0	3.5	5.8	5.1	10.9	2.2
1975	20.4	1.0	21.5	4.6	5.4	5.2	10.6	3.6
1976	20.4	1.2	21.6	6.9	5.5	5.2	10.7	4.3
1977	14.9	1.5	16.4	3.0	6.8	5.5	12.3	3.5
1978	40.2	7.0	47.2	11.3	5.4	2.8	8.2	2.8
1979	29.3	8.9	38.2	5.8	5.5	4.0	9.5	3.2
1980	24.2	12.7	36.9	8.0	5.7	1.9	7.6	2.1
1981	12.8	4.4	17.2	3.0	4.6	4.1	8.7	2.0
1982	23.2	6.7	29.9	10.1	6.5	2.0	8.5	3.3
1983	9.8	2.7	12.5	4.7	3.0	2.9	5.9	1.8
1984	8.4	4.3	12.7	3.8	4.5	2.4	6.9	1.9
1985	27.8	12.7	40.5	15.0	7.5	6.1	13.5	3.6
1986	40.4	49.1	89.5	30.1	8.3	5.3	13.6	4.4
1987	37.4	44.1	81.6	16.2	8.3	7.2	15.6	3.4
1988	38.8	43.8	82.6	18.4	7.8	3.8	11.6	1.6
1989	7.9	52.4	60.3	6.6	7.6	2.2	9.8	1.7
1990	18.0	6.5	24.6	3.1	5.5	2.0	7.6	1.3
1991	9.3	3.0	12.4	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

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. (Page 2 of 2)

Year	Gold Ray Dam, Rogue River <sup>a/</sup>				Winchester Dam, Umpqua River <sup>a/</sup>			
	Natural	Hatchery	Total	Jacks <sup>b/</sup>	Natural	Hatchery	Total	Jacks <sup>b/</sup>
1995	20.7	61.2	82.0	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	1.6
1998	3.7	12.3	16.0	2.8	4.0	2.9	7.0	1.5
1999	6.0	15.0	21.0	1.9	2.8	4.6	7.4	3.1
2000	3.4	26.8	30.3	3.8	3.4	9.2	12.6	4.6
2001	3.0	30.3	33.3	2.3	6.1	14.6	20.7	4.7
2002 <sup>c/</sup>	6.9	41.2	48.1	3.1	6.8	17.3	24.1	3.1
2003 <sup>c/</sup>	18.9	22.9	41.8	3.0	7.9	12.3	20.2	4.1

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. (Page 1 of 1)

Year	Carcass Counts		
	Adults	Jacks	Combined
1977-1980	5,113	890	6,003
1981-1985	2,975	902	3,877
1986-1990	14,784	1,065	15,849
1991	2,799	157	2,956
1992	2,345	460	2,805
1993	5,447	257	5,704
1994	7,366	529	7,895
1995	3,921	173	4,094
1996	1,702	84	1,786
1997	1,594	108	1,702
1998	2,617	90	2,707
1999	2,495	157	2,652
2000	3,396	193	3,589
2001	6,384	768	7,152
2002	12,142	920	13,062
2003 <sup>a/</sup>	14,513	1,021	15,534

a/ Preliminary.



TABLE B-11. Peak counts for **north migrating Oregon coastal chinook** stocks on selected fall chinook spawning index stream surveys. (Page 1 of 2)

Year	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	96	8	130	36	65	4	52	11	51	1	38	8	26	22	3	3	10	14	51	12
1962	69	9	95	22	39	8	131	29	32	15	8	5	12	4	2	0	1	0	42	10
1963	96	37	128	22	88	2	63	8	67	13	39	12	27	2	0	2	3	0	56	11
1964	112	14	134	29	45	8	18	7	22	3	22	7	212	35	1	0	9	2	63	11
1965	100	43	93	18	123	2	32	8	44	34	31	14	28	11	2	0	91	49	59	19
1966	95	8	85	25	73	7	36	6	67	15	42	20	111	11	5	1	55	19	62	12
1967	64	2	117	41	55	6	39	3	35	13	12	14	110	31	7	0	17	0	50	12
1968	44	2	81	29	41	2	19	4	32	9	18	12	52	32	0	0	16	4	33	10
1969	29	2	41	13	28	8	7	3	68	20	13	2	140	52	6	2	7	0	37	11
1970	54	3	139	29	39	8	51	9	105	10	43	34	256	76	12	0	36	23	80	21
1971	84	10	35	4	35	1	40	5	78	17	38	8	49	10	21	22	17	5	43	9
1972	71	46	54	12	82	10	27	14	36	12	3	2	88	56	8	12	8	4	41	18
1973	139	28	84	1	61	4	47	0	48	4	20	4	-	-	21	1	18	0	52	5
1974	141	16	45	4	42	0	47	2	93	0	13	0	131	68	16	28	13	7	59	14
1975	72	28	-	-	-	-	-	-	-	-	9	1	106	60	22	4	18	9	55	25
1976	135	39	35	5	0	0	18	12	10	6	1	0	188	74	28	24	0 <sup>al</sup>	0 <sup>al</sup>	49	19
1977	158	12	56	2	14	2	45	2	160	20	13	2	181	60	19	8	7	7	71	13
1978	166	6	62	8	31	3	28	0	175	6	12	0	115	24	42	18	40	3	73	7
1979	168	2	45	2	50	3	98	7	144	78	40	10	128	12	35	24	33	8	81	16
1980	90	3	106	14	64	1	44	2	145	4	46	2	218	16	30	65	74	31	89	16
1981	148	1	94	6	41	1	68	2	185	13	32	3	140	43	4	4	43	8	82	9
1982	70	13	107	15	89	12	40	1	160	18	54	9	206	34	80	2	95	13	90	13
1983	61	4	45	1	60	1	29	3	86	11	25	0	28	0	9	0	43	4	42	3
1984	280	31	101	9	84	6	47	3	195	17	55	2	103	7	0	1	38	6	98	9
1985	257	40	128	14	117	9	90	3	263	59	70	15	268	70	11	2	6	4	132	23
1986	108	8	153	11	161	6	46	5	172	33	54	9	255	68	5	2	46	9	109	16
1987	219	6	255	6	127	1	14	0	173	19	51	1	207	25	19	11	46	4	121	8
1988	155	4	121	8	143	1	97	1	547	35	251	11	538	52	22	6	92	10	214	14
1989	150	2	118	4	104	4	61	3	168	12	72	5	555	34	5	3	27	7	137	8
1990	50	1	122	10	55	2	50	1	139	25	71	6	578	43	12	3	32	1	121	10
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

TABLE B-11. Peak counts for **north migrating Oregon coastal chinook** stocks on selected fall chinook spawning index stream surveys. (Page 2 of 2)

Year	River Tributaries																				
	Humbug (Nehalem) (1.0 mile)		Tillamook (1.8 mile)		Niagara (Nestucca) (0.4 mile)		Sunshine (Siletz) (1.2 mile)		Grant (Yaquina) (1.7 mile)		Buck (Alsea) (1.0 mile)		Siuslaw Lake (0.8 mile)		W.F. Millicoma (Coos) (0.5 mile)		Salmon (Coquille) (0.8 mile)		Index Fish Per Mile		
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults
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 <sup>c/</sup>	215	6	135	5	27	1	120	3	b/	b/	145	1	1,230	37	209	31	147	2	297	11	

a/ Flows too low to allow spawning.

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**. (Page 1 of 1)

Year or Average	Minimum Inriver Run Size	Tributary Runs											
		Lower River Catch <sup>a/</sup>		Willamette					Sandy	Cowlitz <sup>c/</sup>	Lewis <sup>b/</sup>	Kalama	Hatchery Escapement <sup>d/</sup>
		Commercial	Sport	Run Size	Lower Willamette Sport Catch	Will. Falls Escapement <sup>b/</sup>	Run Size						
1971-1975	84.0	13.8	3.7	53.3	17.0	34.3	NA	11.9	0.2	1.1	20.0		
1976-1980	84.3	6.2	2.8	49.8	15.0	31.4	1.0	19.7	3.0	2.2	26.6		
1981-1986	248.4	7.0	2.1	59.4	18.4	35.6	1.9	20.0	4.2	3.7	28.8		
1986-1990	131.5	12.2	4.3	88.7	24.1	58.8	2.4	10.7	11.3	1.9	32.5		
1991	130.2	11.7	4.1	90.9	33.9	48.7	3.7	8.9	8.3	2.6	30.2		
1992	102.0	5.1	4.1	65.6	16.1	39.7	9.2	10.4	5.6	2.4	29.8		
1993	89.7	2.1	1.4	60.7	23.0	29.7	6.4	9.5	6.6	2.9	26.7		
1994	60.5	1.6	1.6	46.5	12.9	25.5	3.5	3.1	3.0	1.3	16.6		
1995	50.3	0.2	0.0	40.8	16.0	19.3	2.5	2.2	3.7	0.7	15.2		
1996	42.4	0.9	0.0	33.2	7.8	20.4	4.1	1.8	1.7	0.6	15.9		
1997	46.3	1.9	0.0	34.3	3.6	26.2	5.2	1.9	2.2	0.6	18.1		
1998	53.2	2.2	0.1	43.3	4.1	33.1	4.2	1.1	1.6	0.4	22.9		
1999	62.1	1.9	0.0	52.3	7.4	38.9	3.3	2.1	1.8	1.0	25.9		
2000	67.1	0.4	0.6	57.4	9.9	39.1	3.8	1.9	2.2	1.4	24.1		
2001	89.6	3.9	4.1	78.4	7.7	52.7	5.6	1.6	2.2	1.7	29.0		
2002	147.4	17.2	5.6	109.1	10.5	83.1	7.0	3.7	2.0	2.8	58.3		
2003 <sup>e/</sup>	154.8	1.8	8.1	126.6	13.2	87.6	NA	13.4	5.1	4.2	NA		

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 is dependent on run size under the Willamette Basin Fish Management Plan. Under this plan, the escapement target is 30,000 adults above Willamette Falls at Willamette River run sizes (run entering the Columbia River) of 70,000 or less and increases linearly (500 per each 1,000 of increased run size) to 45,000 at Willamette River run sizes of 100,000 or greater.

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 thousands of **Columbia River adult spring chinook** destined for areas **above Bonneville Dam**. (Page 1 of 1)

Year or Average	Inriver Run Size	Mainstem							Snake River Escapement <sup>c/</sup>		Upper Columbia River Escapement <sup>d/</sup>	Hatchery Escapement
		Lower River Catch <sup>a/</sup>		Bonneville Dam Count	Commercial Treaty Catch	Treaty Ceremonial/ Subsistence	Zone 6 Escapement <sup>b/</sup>	Total	Wild			
		Commercial	Sport									
1971-1975	167.5	31.4	16.0	120.1	21.3	NA	98.8	28.9	NA	8.2	13.4	
1976-1980	86.2	1.8	2.8	81.6	4.1	2.5	75.5	21.0	3.026	13.9	14.0	
1981-1985	65.6	1.7	0.4	63.6	1.3	2.5	60.0	13.3	5.937	14.0	18.3	
1986-1990	100.2	2.3	1.3	96.5	0.3	6.8	89.5	24.1	5.921	15.4	31.5	
1991	59.9	1.0	1.5	57.3	e/	3.9	53.5	6.6	2.206	7.7	17.5	
1992	90.0	0.4	1.2	88.4	e/	5.7	82.7	21.4	11.134	19.6	30.9	
1993	111.8	0.5	0.4	110.8	0.0	7.3	103.6	21.0	5.871	29.3	36.4	
1994	21.1	0.5	0.4	20.2	e/	1.1	19.0	3.1	1.416	3.1	7.2	
1995	10.2	e/	e/	10.2	e/	0.6	9.6	1.1	0.745	1.1	4.9	
1996	51.5	e/	e/	51.5	0.0	2.8	48.7	4.2	1.358	2.4	17.8	
1997	114.1	e/	e/	114.1	e/	8.3	105.8	33.9	2.126	6.8	29.6	
1998	38.4	e/	e/	38.3	e/	2.2	36.1	9.9	5.089	4.1	11.6	
1999	38.7	e/	e/	38.6	e/	2.0	36.7	3.3	0.594	4.1	18.2	
2000	178.6	0.1	0.1	178.3	e/	9.9	167.0	33.8	3.266	19.1	22.9	
2001	416.5	2.4	22.7	391.4	43.7	10.8	336.8	172.0	16.477	50.4	78.0	
2002	295.1	10.1	16.2	268.8	24.2	8.9	235.7	75.0	34.144	34.1	55.2	
2003 <sup>f/</sup>	209.2	2.8	9.8	195.8	8.3	8.9	177.6	78.3	38.636	18.1	49.1	
GOAL				115.0				35.0	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 terminal 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/ Fewer than 50 fish.

f/ Preliminary.

TABLE B-14. Estimates of inriver run size, catch, and escapement in thousands of **Columbia River adult summer chinook** destined for areas above Bonneville Dam.<sup>a/</sup> (Page 1 of 1)

Year or Average	Inriver Run Size	Mainstem							Snake River Escapement <sup>c/</sup>		Upper Columbia River Escapement <sup>d/</sup>
		Lower River Catch		Bonneville Dam Count	Commercial Treaty Catch	Treaty Ceremonial/ Subsistence	Zone 6 Escapement <sup>b/</sup>	Total	Wild		
		Commercial	Sport								
1971-1975	47.8	1.1	1.4	45.4	2.1	NA	43.3	13.4	13.429	14.6	
1976-1980	30.9	0.1	e/	30.8	0.1	0.9	30.0	6.3	6.288	17.8	
1981-1985	21.6	0.1	e/	21.4	0.3	0.6	20.5	4.4	3.283	12.2	
1986-1990	29.0	0.2	e/	28.9	0.7	0.2	28.0	5.3	2.397	15.8	
1991	18.9	e/	e/	18.9	0.0	0.2	18.7	3.8	2.967	14.8	
1992	15.1	0.1	e/	15.1	0.0	0.1	15.0	3.0	0.441	8.5	
1993	22.2	0.2	e/	22.0	0.0	0.4	21.7	7.9	4.082	16.4	
1994	17.7	e/	e/	17.6	0.0	0.2	17.4	0.8	0.183	14.9	
1995	15.0	e/	e/	15.0	0.0	0.4	14.6	0.7	0.343	12.2	
1996	16.1	e/	e/	16.0	0.0	0.5	15.5	2.6	1.916	10.9	
1997	28.0	e/	e/	27.9	0.0	0.3	27.6	10.7	5.137	13.1	
1998	21.5	e/	e/	21.4	0.0	0.4	21.1	4.4	2.913	13.4	
1999	26.2	e/	0.1	26.2	0.0	0.4	25.7	3.3	1.584	20.9	
2000	30.7	e/	e/	30.6	0.0	0.3	30.3	3.9	NA	22.3	
2001	76.4	e/	0.1	76.2	0.1	0.7	75.3	13.7	12.475	53.2	
2002	129.0	e/	1.6	127.4	0.0	2.3	125.1	22.2	3.552	99.3	
2003 <sup>f/</sup>	116.9	0	2.0	114.8	3.6	0.8	110.1	20.7	8.374	83.0	
GOAL							80.0-90.0				

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 after 1974).

d/ Priest Rapids Dam count.

e/ Fewer than 50 fish.

f/ 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.**<sup>a/</sup> (Page 1 of 1)

Year or Average	Inriver Run Size	Bonneville Dam Count	Harvest				Escapement	
			Treaty Commercial and Subsistence	Non-Indian		Natural	Hatchery <sup>c/</sup>	
				Commercial <sup>b/</sup>	Sport			
1971-1975	105.7	67.6	29.0	37.9	0.3	2.9	17.0	
1976	182.2	142.1	65.6	40.0	0.2	3.1	24.6	
1977	107.7	66.1	19.4	41.5	0.1	1.3	21.5	
1978	99.7	76.2	25.5	23.4	0.2	2.4	18.0	
1979	95.2	72.8	28.8	22.3	0.1	1.9	18.8	
1980	97.8	57.8	23.4	31.8	0.1	2.6	27.0	
1981	86.3	75.6	33.1	3.4	0.0	1.5	25.1	
1982	120.7	80.7	48.9	35.7	0.3	2.5	29.4	
1983	28.9	24.6	7.9	3.6	0.1	1.0	10.1	
1984	47.5	38.1	19.2	5.9	2.3	0.7	9.6	
1985	33.2	29.9	14.1	0.1	0.2	0.5	5.6	
1986	16.6	8.7	5.7	4.1	0.4	0.9	4.1	
1987	9.1	4.5	1.7	1.6	1.2	1.3	2.7	
1988	12.0	6.0	2.9	3.2	0.3	1.6	3.7	
1989	26.8	18.3	12.7	4.6	1.8	2.7	4.3	
1990	18.9	13.5	7.4	1.1	0.4	1.0	8.2	
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	NA	65.4	
2003 <sup>d/</sup>	194.0	174.0	49.0	14.0	6.0	NA	58.0	
GOAL							7.0 <sup>e/</sup>	

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.**<sup>a/</sup> (Page 1 of 1)

Year or Average	Inriver Run Size	Harvest			Escapement	
		Treaty Commercial	Non-Indian		Natural	Hatchery <sup>d/</sup>
			Commercial <sup>b/</sup>	Sport <sup>c/</sup>		
1971-1975	175.9	0.0	78.1	5.4	49.2	43.2
1976	171.0	0.0	63.3	5.3	50.8	51.6
1977	165.1	0.0	74.5	3.9	44.5	42.2
1978	166.5	0.0	58.3	5.8	43.2	59.2
1979	118.7	0.0	43.9	4.0	25.3	45.5
1980	105.6	0.1	57.0	2.9	20.9	24.6
1981	94.9	1.0	21.5	2.9	26.5	42.5
1982	139.5	1.0	47.3	3.9	44.0	42.6
1983	88.1	0.8	14.9	1.5	33.7	36.5
1984	102.4	1.4	26.7	8.8	32.0	27.4
1985	111.0	0.1	17.6	5.3	52.4	35.2
1986	154.8	0.7	75.3	10.8	26.5	41.3
1987	344.1	0.6	179.8	32.6	49.6	80.5
1988	309.9	1.8	178.4	22.0	53.0	53.8
1989	130.9	0.0	31.0	15.3	45.1	39.3
1990	60.0	0.2	4.4	6.4	19.4	29.2
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 <sup>e/</sup>	190.0	0.0	24.0	11.0	77.0	57.0
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**. (Page 1 of 1)

Year or Average	Inriver Run Size	Harvest			Escapement	
		Treaty Commercial	Non-Indian		Natural	Hatchery
			Commercial	Sport <sup>a/</sup>		
1971-1975	59.7	0.0	27.9	2.1	29.4	0.1
1976	14.9	0.0	6.1	0.6	8.2	0.0
1977	29.8	0.0	14.4	1.1	14.2	0.1
1978	18.5	0.0	7.1	1.1	10.1	0.2
1979	32.8	0.0	12.6	2.0	17.9	0.3
1980	38.8	0.1	18.4	1.3	18.2	0.6
1981	25.0	0.0	1.4	1.1	21.5	0.9
1982	13.0	0.0	1.2	1.0	10.4	0.3
1983	16.8	0.0	0.6	1.5	14.1	0.6
1984	13.3	0.0	2.9	1.7	8.5	0.2
1985	13.3	0.0	3.6	1.3	7.9	0.4
1986	24.5	0.0	10.1	2.0	12.2	0.0
1987	37.9	0.2	16.4	3.6	17.5	0.2
1988	41.7	0.1	19.3	3.4	18.7	0.2
1989	38.6	0.0	6.7	4.9	26.7	0.3
1990	20.3	0.0	0.9	2.4	16.8	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 <sup>b/</sup>	23.0	0.0	5.0	4.0	19.0	0.0
<b>GOAL</b>					<b>5.7<sup>c/</sup></b>	

a/ Includes tributary catches.

b/ Preliminary.

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



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.<sup>a/</sup> (Page 1 of 1)

Year or Average	Inriver Run Size	Bonneville Dam Count	Harvest				Escapement					
			Treaty Commercial and Subsistence	Non-Indian		Natural <sup>c/</sup>	Total		McNary Dam Count	Ice Harbor Dam Count	Total Lower Granite Count	Wild Snake River Lower Granite Count <sup>d/</sup>
				Commercial	Sport <sup>b/</sup>		Hatchery	Deschutes				
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	102.1	61.3	12.7	90.5	13.2	-	107.2	4.4	0.691	0.289
1991	102.7	87.3	26.0	13.7	5.9	38.9	3.6	3.7	46.6	4.5	0.630	0.318
1992	81.0	74.0	13.9	5.6	4.0	38.8	9.1	2.8	51.2	4.6	0.855	0.549
1993	102.9	95.5	20.3	5.3	5.3	49.8	9.9	8.3	54.9	2.8	1.170	0.742
1994	132.9	132.8	24.1	0.0	4.8	68.5	14.2	5.5	85.9	2.1	0.791	0.406
1995	106.5	105.6	18.7	0.0	5.4	58.5	10.2	7.6	68.2	2.8	1.067	0.350
1996	143.2	135.5	29.8	3.7	8.9	59.6	15.9	8.8	73.9	3.8	1.308	0.639
1997	161.7	152.9	42.7	1.4	11.5	68.9	13.1	20.8	67.1	2.7	1.451	0.797
1998	142.3	137.5	42.4	2.3	8.1	60.5	14.0	11.4	63.8	4.2	1.909	0.306
1999	166.1	154.9	38.7	2.2	15.2	48.3	30.3	6.9	78.4	6.6	3.381	0.905
2000	155.7	143.6	23.5	4.8	10.2	69.5	10.8	4.3	66.4	6.5	3.602	1.148
2001	232.6	219.8	35.1	8.2	10.1	92.2	21.1	10.6	110.5	4.6	8.700	5.163
2002	285.4	269.8	32.2	4.9	18.1	NA	14.8	NA	141.6	15.4	12.300	2.116
2003 <sup>e/</sup>	380.0	350.0	53.0	12.0	18.0	60.0	9.0	NA	173.7	20.2	11.101	NA
GOAL									40.0 <sup>f/</sup>			

a/ Based on Columbia River fall chinook data base, WDFW, unpublished data. Does not include hatchery URB chinook, which were 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.<sup>a/</sup> (Page 1 of 1)

Year	Inriver Run Size	Bonneville Dam Count	Harvest				Escapement	
			Treaty Commercial and Subsistence	Non-Indian		Natura I	Hatchery <sup>c/</sup>	
				Commercial	Sport <sup>b/</sup>			
1982	8.8	4.8	2.0	0.7	0.0	0.0	2.9	
1983	14.4	8.1	2.7	1.1	0.1	0.0	4.9	
1984	11.8	5.1	1.6	3.2	0.2	0.0	3.2	
1985	6.1	1.7	1.2	1.7	0.1	0.0	2.8	
1986	17.4	8.4	5.9	6.5	0.4	0.3	2.3	
1987	57.0	26.1	16.0	24.4	1.4	4.7	6.5	
1988	78.0	30.9	21.9	37.9	2.8	5.9	8.5	
1989	93.3	32.0	21.9	46.2	3.7	5.0	14.1	
1990	59.1	26.5	15.4	17.7	3.1	4.8	14.6	
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	NA	21.9	
2003 <sup>d/</sup>	118.0	80.0	25.0	16.0	2.0	NA	24.2	
GOAL							Hatchery Production	

a/ Based on Columbia River fall chinook database, WDFW, unpublished data. 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**. (Page 1 of 2)

Year	Min. Inriver Run Size	Below Bonneville Dam						Above Bonneville Dam								
		Non-Indian Sport			Non-Indian Commercial			Non-Indian Sport			Treaty Indian			Non-Indian Total		
		Tributary <sup>a/</sup>	Buoy 10	Mainstem	Select Area <sup>b/</sup>	Mainstem	Bonneville Dam Counts	Mainstem	Tributary <sup>c/</sup>	Ticketed Commercial <sup>d/</sup>	Non Ticketed Public Sales	Ceremonial & Subsistence <sup>e/</sup>	Sport	Commercial	Total Treaty Indian & Non-Indian	
Spring Chinook																
1998	91.6	11.7	f/	0.1	2.2	0.1	38.3	-	1.5	g/	-	2.2	13.3	2.3	17.8	
1999	100.8	8.1	f/	g/	2.0	0.1	38.6	-	1.6	g/	-	2.0	9.7	2.1	13.8	
2000	245.7	11.9	f/	0.3	6.5	0.5	178.3	-	23.6	1.4	2.9	11.3	35.8	7.0	58.4	
2001	506.1	9.5	f/	27.1	8.8	4.5	391.4	0.1	60.3	20.8	22.8	10.8	97.0	13.3	164.7	
2002	442.5	17.5	f/	20.5	11.7	14.4	268.8	1.1	33.0	17.1	7.2	8.9	72.1	26.1	131.4	
2003 <sup>h/</sup>	367.5	17.6	f/	16.9	7.8	3.0	229.5	2.0	NA	0.9	0.0	17.3	36.5	10.8	65.5	
Summer Chinook <sup>i/</sup>																
1998	21.5	-	-	g/	g/	-	21.4	-	-	-	-	0.4	0.0	0.0	0.4	
1999	26.2	-	-	0.1	-	-	26.2	-	-	-	-	0.4	0.1	0.0	0.5	
2000	30.6	-	-	g/	-	-	30.6	-	0.7	-	-	0.3	0.7	0.0	1.0	
2001	76.4	-	-	0.1	g/	-	76.2	-	6.0	0.1	g/	0.7	6.1	0.0	6.9	
2002	129.0	-	-	1.6	g/	-	127.4	-	6.7	-	-	2.3	8.3	0.0	10.6	
2003 <sup>h/</sup>	83.1	-	-	2.0	0.0	0.0	81.1	-	0.0	3.6	0.0	0.8	2.3	0.0	6.7	
Fall Chinook <sup>i/</sup>																
1998	253.9	0.1	5.5	10.3	2.0	2.5	184.5	4.3	2.3	28.1	14.9	16.9	22.5	4.5	86.9	
1999	312.4	2.5	10.3	8.7	2.1	5.8	242.1	7.4	1.7	43.8	31.6	33.2	30.6	7.9	147.1	
2000	252.2	0.3	4.6	7.6	2.0	10.3	146.6	4.4	1.7	41.8	10.1	8.1	18.6	12.3	90.9	
2001	548.2	3.0	12.4	9.2	4.2	23.0	387.2	7.9	1.9	80.0	31.4	43.9	34.4	27.2	216.9	
2002	723.5	7.9	19.4	21.8	8.7	44.5	474.1	8.8	NA	96.3	33.9	33.6	57.9	53.2	274.9	
2003 <sup>h/</sup>	905.0	NA	16.3	26.2	9.7	58.4	601.3	13.1	NA	127.0	0.0	0.0	55.6	68.1	250.7	

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

Year	Min. Inriver Run Size	Below Bonneville Dam						Above Bonneville Dam								
		Non-Indian Sport			Non-Indian Commercial			Non-Indian Sport			Treaty Indian			Non-Indian Total		Total Treaty Indian & Non-Indian
		Tributary <sup>a/</sup>	Buoy 10	Mainstem	Select Area <sup>b/</sup>	Mainstem	Bonneville Dam Counts	Mainstem	Tributary <sup>c/</sup>	Ticketed Commercial <sup>d/</sup>	Non Ticketed Public Sales	Ceremonial & Subsistence <sup>e/</sup>	Sport	Commercial		
Total Chinook																
1998	367.0	11.8	5.5	10.4	4.2	2.6	244.2	4.3	3.8	28.1	14.9	19.5	35.8	6.8	105.1	
1999	439.4	10.6	10.3	8.8	4.1	5.9	306.9	7.4	3.3	43.8	31.6	35.6	40.4	10.0	161.4	
2000	528.5	12.2	4.6	7.9	8.5	10.8	355.5	4.4	26.0	43.2	13.0	19.7	55.1	19.3	150.3	
2001	1,130.	12.5	12.4	36.4	13.0	27.5	854.8	8.0	68.2	100.9	54.2	55.4	137.5	40.5	388.5	
2002	1,286.	25.4	19.4	43.9	20.4	58.9	870.3	9.9	NA	113.4	41.1	44.8	138.3	79.3	416.9	
2003 <sup>h/</sup>	1,355.	17.6	16.3	45.1	17.5	61.4	911.9	15.4	NA	131.5	0.0	18.1	94.4	78.9	322.9	

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/Knapa 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.

i/ 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.<sup>a/</sup> (Page 1 of 1)

Year or Average	Minimum Inriver Run Size	Below Bonneville Dam					Above Bonneville Dam			
		Lower River Catch <sup>b/</sup>			Lower River Escapement		Bonneville Dam Counts <sup>c/</sup>	Mainstem Commercial Treaty Catch	Zone 6 Escapement <sup>f/</sup>	Hatchery Escapement
		Commercial	Recreational		Hatchery <sup>d/</sup>	Tributary Dam Counts <sup>e/</sup>				
1971-1975	373.4	199.4	-	11.8	117.1	9.5	35.6	9.1	26.6	11.6
1976-1980	263.3	123.6	-	10.1	102.2	3.6	23.8	2.6	21.2	7.0
1981-1985	305.5	132.0	30.6	11.4	101.3	4.6	31.9	2.6	29.2	12.5
1986-1990	689.2	392.2	82.3	14.5	148.8	5.8	46.3	5.5	40.7	11.5
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 <sup>g/</sup>	694.8	255.7	54.3	29.9	217.9	11.2	125.8	2.6	123.2	3.9
GOAL		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 additional small adults counted as jacks for 1983-1984 and 1986-1989.

d/ Includes hatcheries operated by all agencies.

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

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.<sup>a/</sup> (Page 1 of 1)

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 <sup>b/</sup>	160,692	16,884	85,110	0.63
1990 <sup>c/</sup>	79,636	5,179	18,429	0.30
1991 <sup>d/</sup>	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	72,578	6,085	21,478	0.38
2001 <sup>e/</sup>	125,884	12,709	132,038	1.15
2002 <sup>e/</sup>	84,457	19,438	6,205	0.30
2003 <sup>f/</sup>	88,611	16,294	54,301	0.80

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)

Year or Average	Non-local Stocks Gillnet Catch <sup>a/</sup>	Terminal Catch		Spawning Escapement		Terminal Run Size <sup>b/</sup>
		Gillnet	Sport <sup>c/</sup>	Natural <sup>d/</sup>	Hatchery	
<b>CHINOOK (thousands)</b>						
1976-1980	8.1	14.7	0.4	3.2	5.6	23.9
1981-1985	0.9	7.4	0.6	3.4	6.1	17.6
1986-1990	2.4	18.2	1.6	13.2	14.6	47.6
1991	1.7	25.6	1.9	7.5	11.5	46.5
1992	1.2	36.7	2.2	13.1	12.2	64.2
1993	0.6	31.2	5.4	6.3	12.5	54.8
1994	-	21.9	2.8	4.8	11.1	40.6
1995	-	25.5	2.9	10.2	10.4	49.0
1996	-	37.1	3.0	6.3	7.7	54.1
1997	-	12.3	2.4	11.0	6.0	31.7
1998	-	6.9	2.2	7.1	4.7	20.9
1999	-	0.3	1.8	3.4	4.8	10.3
2000	-	6.0	1.4	8.2	4.9	20.5
2001	-	5.4	2.1	5.5	6.8	19.8
2002	0.0	9.4	2.5	6.5	8.9	27.3
2003 <sup>e/</sup>	0.2	7.4	NA	NA	7.4	NA
<b>GOAL</b>				<b>4.4</b>	<b>9.8</b>	

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

b/ Does not include non-local stocks catch.

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

d/ Includes hatchery strays to natural spawning areas. Escapement estimates after 1984 are based on revised spawning habitat estimates.

e/ Preliminary.

TABLE B-24. Willapa Bay coho terminal run size, catch, and spawning escapement in numbers of fish. (Page 1 of 1)

Year or Average	Terminal Catch		Spawning Escapement		Terminal Run Size <sup>d/</sup>
	Gillnet	Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery <sup>c/</sup>	
	<b>COHO (thousands)</b>				
1976-1980	15.0	1.5	4.8	12.2	33.5
1981-1985	39.0	2.2	3.6	26.6	69.9
1986-1990	69.6	2.6	0.0	36.1	108.3
1,991.0	95.5	6.3	e/	62.3	164.2
1,992.0	10.8	2.0	e/	15.4	28.2
1,993.0	19.8	1.3	e/	12.4	33.5
1,994.0	11.7	0.8	e/	15.6	28.1
1,995.0	33.6	1.8		30.1	66.5
1,996.0	38.3	4.1	16.0	49.8	108.2
1,997.0	1.5	0.8	5.5	9.3	17.1
1,998.0	13.1	0.9	14.0	8.2	36.2
1,999.0	5.4	2.8	12.8	22.6	43.6
2,000.0	10.3	1.8	26.9	12.9	51.9
2,001.0	31.9	4.8	16.3	52.3	105.3
2002 <sup>f/</sup>	59.3	5.7	NA	39.8	NA
2003 <sup>f/</sup>	64.4	NA	NA	55.7	NA
GOAL				Hatchery Production	

a/ Adults. Sport catch since 1991 includes marine areas within Willapa 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 1984 and 1995.

f/ Preliminary



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

Year or Average	Terminal Catch					Spawning Escapement		Terminal Run Size <sup>d/</sup>
	Early Non-local Catch	Non-Indian Gillnet	Treaty Gillnet	Chehalis Tribal Gillnet	Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery <sup>c/</sup>	
<b>SPRING CHINOOK (thousands)</b>								
1976-1980	-	-	-	0.6	<sup>e/</sup>	0.6	-	1.2
1981-1985	-	-	-	0.2	<sup>e/</sup>	0.9	-	1.0
1986-1990	-	-	<sup>e/</sup>	0.2	<sup>e/</sup>	2.0	-	2.1
1991	-	-	-	0.2	<sup>e/</sup>	1.3	-	1.5
1992	-	-	-	<sup>e/</sup>	<sup>e/</sup>	1.7	-	1.7
1993	-	-	-	0.1	<sup>e/</sup>	1.3	-	1.4
1994	-	-	-	0.1	<sup>e/</sup>	1.4	-	1.5
1995	-	-	-	0.1	-	2.1	-	2.2
1996	-	-	<sup>f/</sup>	0.1	<sup>e/</sup>	4.5 <sup>g/</sup>	-	4.6
1997	-	-	<sup>f/</sup>	0.2	0.2	4.5 <sup>g/</sup>	-	4.9
1998	-	-	<sup>f/</sup>	0.2	0.1	2.3	-	2.6
1999	-	-	<sup>f/</sup>	0.2	0.1	2.9	-	1.5
2000	-	-	<sup>e/</sup>	0.1	0.1	2.9	-	3.1
2001 <sup>h/</sup>	-	-	0.1	NA	0.2	2.9	-	3.2 <sup>h/</sup>
2002 <sup>h/</sup>	-	-	0.1	NA	NA	2.6	-	2.6
2003 <sup>h/</sup>	-	-	0.1	NA	NA	NA	-	NA
GOAL						1.4		
<b>FALL CHINOOK (thousands)</b>								
1976-1980	4.4	1.8	3.1	1.0	1.1	6.5	0.3	13.9
1981-1985	0.6	0.8	3.5	0.5	0.3	9.8	0.8	15.7
1986-1990	0.4	4.6	10.4	0.6	1.5 <sup>i/</sup>	20.7	1.0	38.7 <sup>i/</sup>
1991	0.2	6.0	8.0	0.6	3.7 <sup>i/</sup>	14.4	0.5	33.2 <sup>i/</sup>
1992	0.2	5.6	6.6	0.9	2.1 <sup>i/</sup>	16.9	1.1	33.2 <sup>i/</sup>
1993	<sup>e/</sup>	5.8	8.8	1.6	3.5 <sup>i/</sup>	13.3	0.9	33.9 <sup>i/</sup>
1994	-	3.7	7.9	0.7	3.6 <sup>i/</sup>	14.3	0.8	31.0 <sup>i/</sup>
1995	-	5.1	7.4	0.7	5.4 <sup>i/</sup>	12.7	0.4	31.7 <sup>i/</sup>
1996	-	1.4	7.1	<sup>e/</sup>	5.7 <sup>i/</sup>	20.2	0.7	35.1 <sup>i/</sup>
1997	-	2.7	6.6	0.3	2.8 <sup>i/</sup>	18.2	0.4	31.0
1998	-	0.2	4.1 <sup>j/</sup>	0.0	2.9 <sup>i/</sup>	12.5	0.5	18.4
1999	-	1.0	1.9	0.0	1.9 <sup>h/i/</sup>	7.8	0.8	14.3
2000	-	1.3	3.0	0.0	1.2	4.9	0.3	11.8
2001	-	2.5	3.9	0.0	3.2	8.3	1.4	19.9
2002 <sup>h/</sup>	-	<sup>e/</sup>	1.0	0.0	3.0	10.0	1.8	15.9
2003 <sup>h/</sup>	-	0.1	0.9	NA	NA	NA	NA	NA
GOAL						14.6		

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 does not include July catches in spring chinook total while the Quinault Indian Nation does. For 1996, the WDFW estimate of spring chinook catch is 12; the Quinault estimate is 151. For 1997, WDFW estimate is 38; the Quinault estimate is 72. For 1998, the Quinault estimate is 17. For 1999, the Quinault estimate is 3.

g/ WDFW is not able to differentiate spawning time and believes this includes fall chinook.

h/ Preliminary.

i/ Recreational catch estimates by WDFW reflect application of catch record card bias correction factor of 0.833. Quinault Indian Nation does not believe this factor is appropriate for this fishery. Unadjusted catch estimates are 1,000 for 1987; 2,400 for 1988; 2,500 for 1989; 2,400 for 1990; 4,500 for 1991; 2,600 for 1992; 4,200 for 1993; 4,300 for 1994; 6,500 for 1995; 6,800 for 1996; 3,400 for 1997; 3,500 for 1998; and 0.1 for 1999; terminal run sizes would be adjusted accordingly.

j/ 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. (Page 1 of 1)

Year or Average	Terminal Catch			Spawning Escapement			Terminal Run Size		
	Non-Treaty Gillnet	Treaty Gillnet	Chehalis Tribal-River	Sport (Adults)	Natural <sup>a/</sup>	Hatchery <sup>a/</sup>	Natural	Hatchery	Total
<b>COHO (thousands)</b>									
1976-1980	5.2	9.8	3.5	2.5	29.5	9.4	NA	NA	59.9
1981-1985	5.2	15.6	2.9	4.9	36.8	14.0	42.9	36.4	79.3
1986-1990	7.7	30.1	1.8	5.3 <sup>b/</sup>	44.8	25.8	53.0	62.5	115.5
1991	47.8	68.9	8.1	25.2 <sup>b/</sup>	64.3	75.6	108.7	181.2	289.9
1992	0.7	14.1	1.1	4.3 <sup>b/</sup>	32.9	8.2	40.8	20.4	61.2
1993	4.4	15.9	1.3	6.3 <sup>b/</sup>	25.5	13.7	37.3	29.7	67.0
1994	0.7	8.6	0.9	1.8 <sup>b/</sup>	12.4	14.2	11.8	26.8	38.6
1995	9.5	38.4	2.1	9.7 <sup>b/</sup>	47.4	34.7	58.9	83.0	141.9
1996	10.1	51.7	2.9	7.2 <sup>b/</sup>	63.6	45.6	82.4	98.6	181.0
1997	0.1	5.4	0.1	1.6 <sup>b/</sup>	22.5	11.6	18.9	22.4	41.2
1998	0.7	13.4	0.4	2.3 <sup>b/</sup>	35.6	13.9	41.2	25.1	66.3
1999	1.7	12.1	0.8	3.9 <sup>b/c/</sup>	33.3 <sup>c/</sup>	27.4	38.9	40.3	79.2
2000	5.6	10.8	0.3	3.2	35.9 <sup>c/</sup>	20.8	40.8	35.8	76.6
2001 <sup>c/</sup>	3.2	15.5	0.1	20.9	56.8	91.2	73.5	117.8	191.3
2002 <sup>c/</sup>	6.9	14.1	0.1	13.2	NA	42.6	NA	NA	NA
2003 <sup>c/</sup>	6.3	12.0	NA	NA	NA	64.5	NA	NA	NA
<b>GOAL</b>					<b>35.4</b>				

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. Quinault Indian Nation does not believe this factor is appropriate. Unadjusted estimates are 3,900 for 1987; 6,800 for 1988; 5,800 for 1989; 8,000 for 1990; 28,600 for 1991; 5,100 for 1992; 7,600 for 1993; 2,100 for 1994; 11,700 for 1995; 2,142 for 1996; 1,800 for 1997; 2,500 for 1998; and 1,200 for 1999. Terminal run sizes would be adjusted accordingly.

c/ Preliminary.

TABLE B-27. Treaty Indian gillnet catch of chinook, chum, and sockeye salmon in the Quinault River in numbers of fish. (Page 1 of 1)

Year or Average	Spring/Summer Chinook <sup>a/</sup>	Fall Chinook <sup>a/</sup>	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	4,700	3,440
1999	10	4,840	583	73
2000	0	3,420	755	0
2001	6	4,047	2,009	0
2002 <sup>b/</sup>	36	4,542	1,148	16,939
2003 <sup>b/</sup>	92	7,433	3,742	37,131

a/ Preliminary. Stock separation under review.

b/ Preliminary.

TABLE B-28. Estimated inriver run size, catch and escapement for **Quinault River coho** in thousands of fish. (Page 1 of 1)

Year or Average	Terminal Catch <sup>a/</sup>			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport	Natural	Hatchery	Natural	Hatchery	Total
1977-1980	9,750	-	-	3,425	2,875	8,475	7,475	17,667
1981-1985	10,700	-	-	4,220	6,300	7,800	13,420	21,220
1986-1990	13,777	-	-	3,177	4,239	7,101	13,206	20,307
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	-	-	6,024	9,524	9,330	16,111	25,441
1997	365	-	-	3,150	1,054	3,339	1,118	4,457
1998	5,941	-	-	3,764	3,158	7,142	5,581	12,723
1999	15,492	-	-	12,666	14,617	19,138	23,101	42,239
2000	16,214	-	-	7,138	10,356	14,276	19,182	33,458
2001	25,355	-	-	21,565	30,689	30,016	47,115	77,131
2002 <sup>b/</sup>	19,149	-	-	57,322	16,841	60,543	32,196	92,739
2003 <sup>b/</sup>	22,558	-	-	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**. (Page 1 of 1)

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport <sup>a/</sup>	Natural <sup>b/</sup>	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	0	492	0	537	0	537
1999	12	41	0	373	0	426	0	426
2000	0	2	0	248	0	250	0	250
2001	0	17	0	548	0	565	0	565
2002	0	17	0	738	0	755	0	755
2003 <sup>c/</sup>	0	6	0	189	0	195	0	195
GOAL								700 <sup>d/</sup>

a/ Sport 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**. (Page 1 of 1)

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery	Natural	Hatchery	Total
1976-1980	1,540	100	36	2,820	0	4,320	0	4,320
1981-1985	2,104	20	135	3,720	360	5,691	591	6,282
1986-1990	2,428	20	214	8,298	619	10,677	861	11,538
1991	1,511	20	116	4,486	459	5,888	705	6,593
1992	1,693	20	106	4,695	366	6,338	542	6,880
1993	1,787	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	1,308	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	939	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 <sup>c/</sup>	1,322	20	473	4,993	203	6,082	874	6,956
GOAL				2,500 <sup>d/</sup>				

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**. (Page 1 of 1)

Year or Avg.	Terminal Catch <sup>a/</sup>			Escapement			Terminal Run Size			Total
	Gillnet	Ceremonial & Subsistence	River Sport <sup>b/</sup>	Natural <sup>c/</sup>	Supplemental	Hatchery	Natural <sup>c/</sup>	Supplemental	Hatchery	
1976-1980	2,440	60	140	3,460		1,000	5,100		1,640	6,740
1981-1985	2,385	20	104	5,457		2,654	6,414		3,794	10,208
1986-1990	8,453	18	241	4,824	2,128	3,366	6,357	2,988	9,357	17,507
1991	10,342	20	709	6,525	d/	4,129	8,574	d/	12,441	21,015
1992	2,049	20	363	6,266	922	1,402	6,999	998	2,923	10,920
1993	3,896	150	367	5,020	2,208	5,938	5,350	2,482	9,663	17,495
1994	1,611	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	7,379	30	135	4,102	1,413	3,504	4,576	1,562	10,364	16,502
1999	3,972	300	119	4,791	521	3,551	5,029	557	7,061	12,647
2000	4,984	30	259	7,939	682	3,849	8,285	698	8,782	17,765
2001	13,722	30	1,542	23,793	1,084	6,594	27,754	2,701	15,477	45,932
2002 <sup>e/</sup>	23,322	30	399	13,772	1,048	2,240	16,119	1,306	23,039	40,465
2003 <sup>e/</sup>	12,692	30	1,901	15,972	714	10,825	19,465	1,052	19,465	39,982
<b>GOAL</b>				<b>5,800-14,500</b>						

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. (Page 1 of 1)

Year	Terminal Catch <sup>a/</sup>			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport <sup>b/</sup>	Natural	Hatchery	Natural	Hatchery	Total
1976	500	20	100	600	0	1,300	0	1,300
1977	900	20	20	1,000	0	2,000	0	2,000
1978	1,000	100	100	1,400	0	2,472	0	2,472
1979	700	100	100	1,400	0	2,326	0	2,326
1980	100	20	100	800	0	1,079	0	1,079
1981	432	63	20	1,498	22	2,005	47	2,052
1982	569	15	100	1,553	87	2,125	202	2,327
1983	458	36	100	1,696	67	2,233	131	2,364
1984	444	21	300	1,430	50	2,005	139	2,144
1985	336	15	100	978	22	1,353	123	1,476
1986	554	15	138	1,248	0	1,912	43	1,955
1987	676	38	227	1,710	0	2,480	171	2,651
1988	1,008	38	304	2,605	10	3,671	294	3,965
1989	1,735	38	555	4,697	119	6,810	334	7,144
1990	1,387	38	351	3,886	40	5,260	442	5,702
1991	600	13	138	1,078	0	1,693	153	1,846
1992	445	26	81	1,018	0	1,440	167	1,607
1993	509	25	357	1,411	0	2,049	242	2,291
1994	378	20	404	1,699	0	2,357	152	2,509
1995	230	25	387	1,132	0	1,676	68	1,744
1996	471	30	267	1,371	16	2,043	114	2,157
1997	416	57	331	1,826	0	2,577	53	2,630
1998	294	20	288	1,287	0	1,861	28	1,889
1999 <sup>c/</sup>	155	20	52	928	99	1,081	171	1,252
2000 <sup>d/</sup>	87	38	21	492	0	529	109	638
2001 <sup>d/</sup>	134	39	43	1,159	0	1,231	101	1,332
2002 <sup>e/</sup>	587	37	372	2,464	0	3,375	85	3,460
2003 <sup>e/f/</sup>	296	20	NA	1,228	0	1,335	107	1,442
GOAL				900 <sup>g/</sup>				

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 31 from 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. (Page 1 of 1)

Year	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery	Natural	Hatchery	Total
1976	500	20	45	2,500	0	3,100	0	3,100
1977	1,600	20	40	2,100	0	3,800	0	3,800
1978	800	100	51	1,900	0	2,900	0	2,900
1979	400	20	28	1,700	0	2,200	0	2,200
1980	500	20	21	2,200	0	2,800	0	2,800
1981	800	20	0	3,100	0	4,000	0	4,000
1982	1,200	20	12	4,500	20	5,800	100	5,900
1983	500	20	134	2,500	20	3,300	100	3,400
1984	800	20	118	1,900	20	2,600	100	2,700
1985	946	100	30	1,725	20	2,720	100	2,820
1986	900	20	178	4,981	20	6,000	100	6,100
1987	1,800	20	299	4,006	20	6,147	89	6,236
1988	2,639	20	224	4,128	20	6,873	100	6,973
1989	2,740	50	197	5,148	60	8,682	100	8,782
1990	1,921	50	169	4,236	46	6,347	50	6,397
1991	1,076	15	130	1,420	0	2,611	13	2,624
1992	940	30	184	4,003	0	5,136	18	5,154
1993	1,148	30	416	2,280	0	3,766	91	3,857
1994	687	30	242	3,967	0	4,806	179	4,985
1995	502	30	194	2,202	0	2,898	22	2,920
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	597	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	597	2,560	0	4,113	120	4,233
2002 <sup>c/</sup>	1,461	30	134	4,415	82	5,716	406	6,122
2003 <sup>d/</sup>	517	30	NA	1,417	NA	1,888	46	1,934
GOAL				1,200 <sup>e/</sup>				

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. (Page 1 of 1)

Year	Terminal Catch <sup>a/</sup>			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport <sup>b/</sup>	Natural <sup>c/</sup>	Hatchery	Natural	Hatchery	Total
1976	1,800	50	44	2,300	0	4,200	0	4,200
1977	1,000	30	6	2,400	0	3,400	0	3,400
1978	2,800	125	20	2,100	0	5,100	0	5,100
1979	2,900	100	47	5,000	93	8,200	593	8,793
1980	1,300	65	23	1,700	100	2,515	700	3,215
1981	2,073	40	7	1,900	100	3,245	875	4,120
1982	2,000	100	6	3,600	100	5,351	319	5,670
1983	152	10	9	1,735	260	1,810	346	2,156
1984	351	46	9	7,400	0	7,690	116	7,806
1985	3,410	43	79	2,218	0	5,568	606	6,174
1986	2,800	42	385	4,270	0	6,400	795	7,195
1987	3,917	50	239	3,516	46	7,165	557	7,722
1988	350	20	39	2,350	611	2,639	731	3,370
1989	2,350	20	106	3,497	351	5,428	720	6,148
1990	3,119	20	42	2,094	184	4,460	999	5,459
1991	1,254	20	276	4,129	14	5,370	323	5,693
1992	1,420	30	107	4,045	594	5,007	1,189	6,196
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	241	4,710	0	5,419	40	5,459
1996	972	50	102	4,858	0	5,835	146	5,981
1997 <sup>d/</sup>	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	287	6,772	0	8,838	173	9,011
2001	3,909	40	824	10,773	840	14,839	1,547	16,386
2002 <sup>e/</sup>	3,114	30	401	9,009	1,922	11,254	3,222	14,476
2003 <sup>f/</sup>	1,872	20	NA	5,115	NA	5,403	288	5,691
GOAL				2,000 to 5,000				

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/ 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.  
(Page 1 of 1)

Year or Average	Terminal Catch			Escapement		Terminal Run Size		Total
	Gillnet	Ceremonial and Subsistence	River Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery	Natural	Hatchery <sup>c/</sup>	
1976-1980	2,520	20	380	2,093	800	NA	NA	3,698
1981-1985	700	20	48	731	260	NA	NA	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	1,372	1,559	2,931
2002	419	50	361	1,002	836	1,064	1,603	2,667
2003 <sup>d/</sup>	184	50	NA	1,065	1,250	1,111	1,438	2,549
GOAL				1,200 <sup>e/</sup>				

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.

TABLE B-36. Estimated inriver run size, catch, and escapement for **Quillayute River fall chinook** in numbers of fish. (Page 1 of 1)

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial and Subsistence	River Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery <sup>c/</sup>	Natural	Hatchery <sup>c/</sup>	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	673	5,136	0	7,559	0	7,559
2002	3,074	100	271	6,057	0	9,512	0	9,512
2003 <sup>d/e/</sup>	1,345	100	NA	4,578	0	6,023	0	6,023
GOAL				3,000 <sup>f/</sup>				

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. (Page 1 of 1)

Year or Average	Terminal Catch <sup>a/</sup>			Escapement		Terminal Run Size		
	Gillnet	Ceremonial and Subsistence	River Sport <sup>b/</sup>	Natural <sup>c/</sup>	Hatchery <sup>d/</sup>	Natural <sup>c/</sup>	Hatchery <sup>d/</sup>	Total
<b>SUMMER COHO</b>								
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	598	961	12,993	1,857	14,941	16,798
2002 <sup>e/</sup>	3,982	50	149	1,012	3,939	2,086	7,046	9,132
2003 <sup>e/</sup>	2,412	50	NA	505	6,539	1,467	8,039	9,506
GOAL	Hatchery Production							
<b>FALL COHO</b>								
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 <sup>f/</sup>	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	34,789	42,147	76,936
2003 <sup>e/g/</sup>	13,949	50	NA	14,370	13,799	22,068	20,100	42,168
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/ Regulations required nonretention of coho.

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

TABLE B-38. Puget Sound **commercial net and troll** fishery salmon catches.<sup>a/</sup> (Page 1 of 2)

Year or Average	Fishery	Chinook	Coho	Pink	Chum	Sockeye
<b>THOUSANDS OF FISH</b>						
1971-1975	Non-Indian	103.9	523.6	1,942.9 <sup>b/</sup>	331.1	2,159.0
	Treaty Indian	<u>54.0</u>	<u>224.7</u>	<u>114.4<sup>b/</sup></u>	<u>78.2</u>	<u>37.8</u>
	Total	<u>157.9</u>	<u>748.3</u>	<u>2,057.3<sup>b/</sup></u>	<u>409.3</u>	<u>2,196.8</u>
1976-1980	Non-Indian	103.5	413.4	2,626.1 <sup>b/</sup>	408.0	1,095.6
	Treaty Indian	<u>126.1</u>	<u>488.5</u>	<u>464.4<sup>b/</sup></u>	<u>294.9</u>	<u>277.8</u>
	Total	<u>229.6</u>	<u>901.9</u>	<u>3,090.5<sup>b/</sup></u>	<u>702.9</u>	<u>1,373.4</u>
1981-1985	Non-Indian	71.1	344.1	1,917.1 <sup>b/</sup>	368.7	924.6
	Treaty Indian	<u>144.4</u>	<u>606.6</u>	<u>1,377.8<sup>b/</sup></u>	<u>388.0</u>	<u>912.6</u>
	Total	<u>215.5</u>	<u>950.7</u>	<u>3,294.9<sup>b/</sup></u>	<u>756.7</u>	<u>1,837.2</u>
1986	Non-Indian	73.5	493.5	0.0	505.7	1,394.0
	Treaty Indian	<u>150.4</u>	<u>863.6</u>	<u>0.1</u>	<u>650.1</u>	<u>1,357.4</u>
	Total	<u>223.9</u>	<u>1,357.1</u>	<u>0.1</u>	<u>1,155.8</u>	<u>2,751.3</u>
1987	Non-Indian	57.3	664.0	963.3	597.3	974.7
	Treaty Indian	<u>155.8</u>	<u>1,118.2</u>	<u>1,106.4</u>	<u>704.3</u>	<u>971.3</u>
	Total	<u>213.1</u>	<u>1,782.2</u>	<u>2,069.8</u>	<u>1,301.6</u>	<u>1,946.1</u>
1988	Non-Indian	50.4	459.8	0.0	706.3	348.0
	Treaty Indian	<u>181.1</u>	<u>777.7</u>	<u>0.1</u>	<u>862.4</u>	<u>501.4</u>
	Total	<u>231.4</u>	<u>1,237.5</u>	<u>0.1</u>	<u>1,568.7</u>	<u>849.4</u>
1989	Non-Indian	54.1	344.4	1,583.9	368.1	1,127.8
	Treaty Indian	<u>199.8</u>	<u>621.1</u>	<u>1,843.8</u>	<u>518.4</u>	<u>1,124.0</u>
	Total	<u>253.9</u>	<u>965.4</u>	<u>3,427.7</u>	<u>886.5</u>	<u>2,251.7</u>
1990	Non-Indian	52.5	390.9	0.0	526.9	982.4
	Treaty Indian	<u>197.7</u>	<u>676.9</u>	<u>0.3</u>	<u>573.6</u>	<u>1,184.4</u>
	Total	<u>250.2</u>	<u>1,067.7</u>	<u>0.4</u>	<u>1,100.5</u>	<u>2,166.7</u>
1991	Non-Indian	21.6	196.4	1,578.4	476.8	983.4
	Treaty Indian	<u>121.6</u>	<u>401.8</u>	<u>1,710.0</u>	<u>545.0</u>	<u>844.7</u>
	Total	<u>143.3</u>	<u>598.2</u>	<u>3,288.5</u>	<u>1,021.8</u>	<u>1,828.1</u>
1992	Non-Indian	19.5	98.9	0.1	617.6	316.1
	Treaty Indian	<u>94.0</u>	<u>300.0</u>	<u>0.1</u>	<u>763.6</u>	<u>292.1</u>
	Total	<u>113.5</u>	<u>398.9</u>	<u>0.2</u>	<u>1,381.2</u>	<u>608.2</u>
1993	Non-Indian	18.1	27.7	974.9	588.6	1,328.5
	Treaty Indian	<u>64.2</u>	<u>162.0</u>	<u>1,117.2</u>	<u>539.4</u>	<u>1,364.5</u>
	Total	<u>82.3</u>	<u>189.7</u>	<u>2,092.1</u>	<u>1,128.0</u>	<u>2,693.0</u>
1994	Non-Indian	19.8	20.0	<sup>c/</sup>	579.9	878.4
	Treaty Indian	<u>61.5</u>	<u>427.8</u>	<u>1.7</u>	<u>772.4</u>	<u>956.1</u>
	Total	<u>81.3</u>	<u>447.8</u>	<u>1.7</u>	<u>1,352.3</u>	<u>1,834.5</u>
1995	Non-Indian	6.7	24.5	1,366.9	373.9	170.6
	Treaty Indian	<u>74.1</u>	<u>278.3</u>	<u>1,340.4</u>	<u>382.0</u>	<u>243.7</u>
	Total	<u>80.8</u>	<u>302.7</u>	<u>2,707.3</u>	<u>755.9</u>	<u>414.3</u>
1996	Non-Indian	9.2	20.0	0.0	530.5	50.5
	Treaty Indian	<u>69.0</u>	<u>145.3</u>	<u>0.0</u>	<u>261.5</u>	<u>286.1</u>
	Total	<u>78.2</u>	<u>165.3</u>	<u>0.0</u>	<u>792.1</u>	<u>336.6</u>
1997	Non-Indian	21.6	9.6	868.9	234.9	681.7
	Treaty Indian	<u>58.0</u>	<u>142.4</u>	<u>985.2</u>	<u>186.3</u>	<u>660.6</u>
	Total	<u>79.6</u>	<u>152.0</u>	<u>1,854.1</u>	<u>421.2</u>	<u>1,342.3</u>
1998	Non-Indian	12.4	12.5	0.4	505.3	229.3
	Treaty Indian	<u>43.6</u>	<u>149.1</u>	<u>0.5</u>	<u>320.1</u>	<u>309.7</u>
	Total	<u>56.0</u>	<u>161.6</u>	<u>0.9</u>	<u>825.4</u>	<u>539.0</u>

TABLE B-38. Puget Sound **commercial net and troll** fishery salmon catches.<sup>a/</sup> (Page 2 of 2)

Year or Average	Fishery	Chinook	Coho	Pink	Chum	Sockeye
<b>THOUSANDS OF FISH</b>						
1999	Non-Indian	9.2	11.4	1.1	128.3	0.0
	Treaty Indian	<u>77.0</u>	<u>96.9</u>	<u>51.3</u>	<u>110.4</u>	<u>20.0</u>
	Total	86.2	108.2	52.4	238.7	20.1
2000	Non-Indian	11.5	21.9	-	139.6	230.4
	Treaty Indian	<u>62.1</u>	<u>371.3</u>	<u>0.3</u>	<u>146.9</u>	<u>314.2</u>
	Total	73.6	393.2	0.4	286.6	544.6
2001	Non-Indian	18.0	28.0	463.1	823.8	85.1
	Treaty Indian	<u>89.3</u>	<u>329.5</u>	<u>317.8</u>	<u>647.0</u>	<u>167.9</u>
	Total	107.3	357.4	780.9	1,470.9	253.0
2002 <sup>d/</sup>	Non-Indian	19.7	24.5	0.0	1,115.6	141.5
	Treaty Indian	<u>86.8</u>	<u>275.4</u>	<u>0.3</u>	<u>790.1</u>	<u>333.9</u>
	Total	106.5	299.9	0.3	1,905.8	475.4
2003 <sup>d/</sup>	Non-Indian	8.6	17.7	676.4	775.3	83.4
	Treaty Indian	<u>65.4</u>	<u>226.6</u>	<u>516.0</u>	<u>518.4</u>	<u>142.0</u>
	Total	74.0	244.3	1,192.4	1,293.7	255.4

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

b/ Odd-year average.

c/ Fewer than 50 fish.

d/ Preliminary.

TABLE B-39. Summary of Puget Sound **marine recreational** salmon catch estimates from catch record cards.<sup>a/</sup> (Page 1 of 1)

Year or Average	Chinook	Coho	Pink
<b>THOUSANDS OF FISH</b>			
1971-1975	225.6	119.3	14.8 <sup>b/</sup>
1976-1980	252.4	200.2	47.0 <sup>b/</sup>
1981-1985	160.2	197.6	23.3 <sup>b/</sup>
1986-1990 <sup>c/</sup>	128.5	248.3	39.9 <sup>b/</sup>
1991 <sup>c/</sup>	90.6	252.4	44.9
1992 <sup>c/</sup>	97.7	189.4	0.4
1993 <sup>c/</sup>	80.2	136.0	67.6 <sup>d/</sup>
1994	48.2	31.7	
1995	67.7	74.3	100.5
1996	70.7	85.4	d/
1997	58.5	130.2	28.5
1998	26.1	89.5	0.2
1999	28.7	22.1	23.8
2000 <sup>e/</sup>	23.9	71.9	0.0
2001 <sup>e/</sup>	47.7	204.7	117.4
2002 <sup>e/</sup>	31.4	73.2	0.3
2003 <sup>e/</sup>	NA	NA	NA

a/ WDFW Statistical Areas 5 through 13, which include the Strait of Juan de Fuca, San Juan Islands, and inner Puget Sound.

b/ Odd years only.

c/ Catch record card estimates adjusted for results of 1987-1990 WDFW/tribal sports emphasis study.

d/ Fewer than 50 fish.

e/ 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.**<sup>a/</sup> (Page 1 of 3)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>b/</sup>		
	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total
<b>ALL CHINOOK (thousands)</b>									
<u>Strait of Juan de Fuca</u>									
1981-1985	0.1	0.1	0.2	0.8	1.5	2.3	0.9	1.6	2.5
1986-1990	0.1	0.5	0.6	1.3	4.6	5.8	1.4	5.0	6.4
1991	0.1	0.3	0.4	1.0	3.5	4.5	1.1	3.8	4.9
1992	0.0	0.2	0.2	0.1	4.5	4.6	0.1	4.7	4.8
1993	0.0	0.1	0.1	0.2	2.3	2.5	0.2	2.4	2.6
1994	0.0	0.1	0.1	0.4	1.6	2.0	0.4	1.7	2.1
1995	0.0	0.0	0.0	0.1	2.8	2.9	0.1	2.8	2.9
1996	0.0	d/	d/	0.2	3.1	3.3	0.2	3.1	3.3
1997	0.0	0.0	0.0	0.3	3.4	3.7	0.3	3.5	3.8
1998	0.0	0.0	0.0	1.7	1.9	3.6	1.7	1.9	3.6
1999	0.0	0.0	0.0	0.7	2.7	3.4	0.7	2.7	3.4
2000	0.0	0.0	0.0	1.2	1.7	2.9	1.2	1.7	2.9
2001 <sup>e/</sup>	0.0	0.0	0.0	1.7	2.0	3.7	1.7	2.0	3.7
2002 <sup>e/</sup>	0.0	0.0	0.0	0.0	3.7	3.7	0.0	3.7	3.7
2003 <sup>e/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						5.3			
<u>Nooksack-Samish</u>									
1981-1985	54.0	33.6	87.5	16.1	6.5	22.6	70.1	40.1	110.1
1986-1990	38.1	26.3	64.3	10.7	4.1	14.9	48.8	30.4	79.2
1991	27.1	3.3	30.4	9.6	0.7	10.3	36.7	4.0	40.7
1992	15.9	1.6	17.6	8.4	0.5	9.0	24.3	2.2	26.5
1993	18.2	1.6	19.9	12.1	1.0	13.1	30.3	2.6	32.9
1994	18.2	2.6	20.8	6.4	0.9	7.3	24.6	3.6	28.1
1995	12.5	1.2	13.7	8.1	0.5	8.6	20.6	1.7	22.3
1996	17.5	1.9	19.4	9.0	0.9	10.0	26.6	2.9	29.4
1997	14.7	7.0	21.8	8.0	4.3	12.4	22.8	11.4	34.2
1998	13.4	7.9	21.2	5.1	3.1	8.3	18.5	11.0	29.5
1999	32.6	0.0	32.6	8.3	0.0	8.3	40.9	0.0	40.9
2000	28.3	0.0	28.3	5.2	0.0	5.2	38.5	0.0	33.5
2001 <sup>e/</sup>	48.9	0.0	48.9	15.0	0.0	15.0	63.9	0.0	63.9
2002 <sup>e/</sup>	36.1	0.0	36.1	17.3	0.0	17.3	53.4	0.0	53.4
2003 <sup>e/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						8.7			
<u>Skagit</u>									
1981-1985	0.6	9.2	9.8	0.8	11.5	12.3	1.4	20.7	22.1
1986-1990	0.3	4.1	4.3	0.8	12.7	13.6	1.1	16.8	17.8
1991	0.4	2.6	2.9	0.9	6.0	6.9	1.3	8.6	9.9
1992	0.5	1.6	2.1	2.2	7.7	9.9	2.7	9.3	12.0
1993	0.2	1.0	1.2	1.2	5.9	7.1	1.4	7.0	8.3
1994	0.3	0.4	0.7	4.0	6.2	10.3	4.3	6.6	10.9
1995	0.8	2.4	3.2	2.5	7.2	9.6	3.3	9.6	12.9
1996	d/	0.2	0.2	1.2	12.0	13.2	1.2	12.2	13.5
1997	0.0	1.2	1.2	0.0	5.0	5.0	0.0	6.2	6.2
1998	0.0	0.3	0.3	0.1	14.6	14.7	0.1	14.9	15.0
1999	0.0	0.3	0.3	0.0	4.9	4.9	0.0	5.2	5.2
2000	0.0	0.3	0.3	0.2	16.9	17.1	0.2	17.2	17.4
2001 <sup>e/</sup>	0.0	0.3	0.3	0.1	13.8	13.9	0.1	14.1	14.1
2002 <sup>e/</sup>	0.0	0.3	0.3	0.0	19.6	19.6	0.0	19.9	19.9
2003 <sup>e/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						14.9			

TABLE B-40. Puget Sound **commercial net fishery catches** and **spawning escapements** in numbers of fish for hatchery and natural **Puget Sound chinook** stocks.<sup>a/</sup> (Page 2 of 3)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>b/</sup>		
	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total
<b>ALL CHINOOK (thousands)</b>									
<u>Hood Canal</u>									
1981-1985	4.9	3.6	8.6	3.8	2.0	5.8	8.7	5.7	14.4
1986-1990	10.5	4.9	15.4	6.2	2.0	8.2	16.7	6.9	23.7
1991	8.0	3.8	11.8	5.6	1.8	7.5	13.6	5.6	19.2
1992	0.3	0.6	0.8	1.2	0.9	2.2	1.5	1.5	3.0
1993	0.6	0.5	1.0	2.6	1.2	3.8	3.2	1.6	4.8
1994	0.2	0.2	0.4	2.4	1.1	3.4	2.6	1.3	3.8
1995	0.2	0.0	0.2	7.2	2.0	9.2	7.4	2.0	9.4
1996	d/	d/	d/	7.1	1.0	8.1	7.1	1.0	8.2
1997	0.1	0.0	0.1	7.3	0.5	7.8	7.4	0.5	7.9
1998	1.0	0.1	1.1	13.4	1.8	15.2	14.4	1.9	16.3
1999	7.2	0.9	8.2	18.4	3.0	21.4	25.6	3.9	29.6
2000	13.7	0.3	14.0	8.8	1.5	10.3	18.6	2.7	21.3
2001 <sup>e/</sup>	3.0	0.5	3.5	13.5	2.3	15.8	16.5	2.8	19.3
2002 <sup>e/</sup>	19.7	2.6	22.3	13.0	1.7	14.6	32.7	4.3	37.0
2003 <sup>e/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				3.4					
<u>Stillaguamish-Snohomish</u>									
1981-1985	3.9	6.9	10.8	2.0	4.9	6.9	5.9	11.8	17.7
1986-1990	3.4	4.2	7.6	1.1	5.2	6.3	4.5	9.4	14.0
1991	2.6	3.6	6.2	0.6	4.4	5.0	3.1	8.0	11.1
1992	1.8	2.2	3.9	1.0	3.5	4.5	2.7	5.7	8.4
1993	2.2	2.1	4.3	1.9	4.9	6.9	4.1	7.0	11.2
1994	3.3	1.7	5.0	3.9	4.6	8.5	7.2	6.3	13.5
1995	6.2	2.8	9.0	3.9	4.5	8.4	10.1	7.3	17.4
1996	7.5	4.0	11.5	5.7	6.2	11.9	13.1	10.2	23.4
1997	8.7	0.1	8.8	2.6	5.5	8.1	11.3	5.6	16.9
1998	7.2	0.1	7.3	1.1	7.9	9.0	8.3	7.9	16.2
1999	15.2	0.0	15.2	1.6	5.9	7.5	16.8	5.9	22.7
2000	8.4	0.1	8.5	1.5	7.7	9.2	9.9	7.8	17.7
2001 <sup>e/</sup>	5.1	0.3	5.4	0.7	9.5	10.2	5.8	9.8	15.6
2002 <sup>e/</sup>	4.4	0.1	4.5	2.6	8.8	11.4	7.0	8.9	15.9
2003 <sup>e/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					7.3				

TABLE B-40. Puget Sound **commercial net fishery catches** and **spawning escapements** in numbers of fish for hatchery and natural **Puget Sound chinook stocks.**<sup>a/</sup> (Page 3 of 3)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>b/</sup>		
	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total
<b>ALL CHINOOK (thousands)</b>									
<u>South Puget Sound</u>									
1981-1985	23.1	11.2	34.4	23.4	10.2	33.5	46.4	21.5	67.9
1986-1990	22.8	23.0	45.8	33.6	21.6	55.3	56.4	44.6	101.0
1991	17.0	14.1	31.1	22.4	17.7	40.0	39.4	31.8	71.1
1992	16.3	12.1	28.5	18.3	12.8	31.1	34.6	24.9	59.5
1993	16.3	10.4	26.7	20.4	9.4	29.8	36.8	19.8	56.5
1994	20.0	16.0	35.9	28.9	14.0	42.9	48.9	29.9	78.8
1995	23.5	14.3	37.8	51.0	20.2	71.2	74.5	34.5	109.0
1996	18.8	11.4	30.2	39.5	24.3	63.8	58.3	35.8	94.1
1997	10.2	4.3	14.5	36.3	16.3	52.7	46.5	20.6	67.1
1998	11.7	7.1	18.7	42.5	20.2	62.7	54.5	27.7	82.2
1999	18.2	8.2	26.4	66.1	14.0	80.1	83.6	17.0	100.6
2000	7.9	3.1	11.0	38.7	9.1	47.8	49.4	13.9	63.3
2001 <sup>e/</sup>	29.9	8.0	37.9	66.5	12.2	78.7	96.4	20.2	116.5
2002 <sup>e/</sup>	13.5	3.8	17.3	71.4	17.7	89.2	84.9	21.5	106.5
2003 <sup>e/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						34.9			

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

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

c/ Includes estimated off-station returns.

d/ Fewer than 50.

e/ 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.<sup>a/</sup> (Page 1 of 3)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>b/</sup>		
	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total
<b>COHO (thousands)</b>									
<b>Strait of Juan de Fuca</b>									
1981-1985	17.4	3.4	20.8	9.0	5.1	14.1	26.4	8.5	34.9
1986-1990	6.3	2.6	8.8	2.9	6.0	9.0	9.2	8.6	17.8
1991	2.7	1.0	3.7	2.7	4.1	6.8	5.4	5.1	10.5
1992	2.4	0.3	2.7	3.5	6.1	9.6	5.9	6.4	12.3
1993	0.3	0.1	0.4	4.0	3.3	7.3	4.3	3.4	7.7
1994	1.4	0.3	1.7	2.3	2.4	4.7	3.7	2.7	6.4
1995	1.0	2.3	3.3	7.2	5.7	12.9	8.2	8.0	16.2
1996	4.3	0.1	4.4	7.5	2.4	9.9	11.8	2.5	14.3
1997 <sup>d/</sup>	1.0	0.1	1.1	13.9	5.4	19.3	14.9	5.5	20.4
1998 <sup>d/</sup>	7.6	0.0	7.6	6.1	17.1	23.2	13.7	17.1	30.8
1999 <sup>d/</sup>	5.6	0.0	5.6	6.3	9.3	15.6	11.9	9.3	21.2
2000 <sup>d/</sup>	12.3	0.3	12.6	19.2	19.0	38.2	31.5	19.3	50.8
2001 <sup>d/</sup>	20.5	0.3	20.8	24.8	37.0	61.7	45.3	37.2	82.6
2002 <sup>d/</sup>	11.7	0.2	11.9	10.8	0.0	10.8	22.5	0.2	22.7
2003 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						14.8			
<b>Nooksack-Samish</b>									
1981-1985	131.0	18.9	149.9	24.4	7.2	31.6	155.4	26.1	181.5
1986-1990	146.9	22.8	169.7	21.1	7.4	28.5	167.9	30.2	198.2
1991	51.9	18.8	70.7	9.7	11.5	21.2	61.6	30.3	91.9
1992	61.5	9.4	70.9	19.6	8.4	28.0	81.1	17.8	98.9
1993	40.5	15.7	56.2	23.0	10.8	33.8	63.5	26.5	90.0
1994	43.9	20.5	64.4	12.1	13.8	25.9	56.0	34.3	90.3
1995	44.5	11.7	56.2	12.0	7.1	19.1	56.5	18.8	75.3
1996	51.0	1.6	52.6	38.2	2.0	40.2	89.2	3.6	92.8
1997 <sup>d/</sup>	13.0	2.4	15.4	34.4	6.7	41.1	47.4	9.1	56.5
1998 <sup>d/</sup>	22.0	4.2	26.2	21.5	10.3	31.8	43.5	14.5	58.0
1999 <sup>d/</sup>	44.4	8.2	52.6	41.9	8.0	49.9	86.3	16.2	102.5
2000 <sup>d/</sup>	60.2	11.4	71.6	49.4	8.8	58.2	109.6	20.2	129.8
2001 <sup>d/</sup>	52.4	28.2	80.6	49.8	27.5	77.3	102.2	55.7	157.9
2002 <sup>d/</sup>	36.3	18.8	55.0	45.7	20.3	66.0	81.9	39.1	121.0
2003 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						17.9			
<b>Skagit</b>									
1981-1985	9.2	11.6	20.8	21.7	19.8	41.5	30.9	31.4	62.3
1986-1990	6.5	13.8	20.3	13.8	25.8	39.6	20.3	39.6	59.9
1991	1.8	4.0	5.8	3.5	7.8	11.3	5.3	11.8	17.1
1992	3.1	2.0	5.1	11.6	7.5	19.1	14.7	9.5	24.2
1993	0.7	1.1	1.8	8.8	13.4	22.2	9.5	14.5	24.0
1994	1.2	1.4	2.6	24.9	29.1	54.0	26.1	30.5	56.6
1995	1.4	2.8	4.2	6.6	13.4	20.0	8.0	16.2	24.2
1996	0.7	0.4	1.1	18.0	8.3	26.3	18.7	8.7	27.4
1997 <sup>d/</sup>	2.4	7.6	10.0	3.4	32.6	36.0 <sup>e/</sup>	5.8	40.2	46.0
1998 <sup>d/</sup>	1.4	12.3	13.7	11.0	73.6	84.6	12.4	85.9	98.3
1999 <sup>d/</sup>	0.7	8.6	9.3	2.7	28.6	31.3	3.4	37.2	40.6
2000 <sup>d/</sup>	2.6	13.3	15.9	11.4	63.7	75.1	14.0	77.0	91.0
2001 <sup>d/</sup>	3.6	28.6	32.1	17.2	87.0	104.2	20.8	115.6	136.4
2002 <sup>d/</sup>	3.4	14.3	17.7	20.2	46.7	66.9	23.6	61.0	84.6
2003 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						30.0			

TABLE B-41. Puget Sound **commercial net** fishery catches and spawning escapements in numbers of fish for hatchery and natural **Puget Sound coho** stocks.<sup>a/</sup> (Page 2 of 3)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>b/</sup>		
	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total
<b>COHO (thousands)</b>									
<u>Hood Canal</u>									
1981-1985	40.5	24.3	64.8	19.0	23.6	42.6	59.5	47.9	107.4
1986-1990	45.2	23.5	68.7	14.7	18.3	33.0	59.9	41.8	101.7
1991	21.6	2.8	24.4	6.4	12.5	18.9	28.0	15.3	43.3
1992	3.7	0.7	4.4	5.4	19.2	24.6	9.1	19.9	29.0
1993	3.2	0.8	4.0	12.3	15.9	28.2	15.5	16.7	32.2
1994	31.5	0.9	32.4	24.8	56.1	80.9	56.3	57.0	113.3
1995	9.5	0.8	10.3	25.2	40.3	65.5	34.7	41.1	75.8
1996	4.2	0.2	4.4	27.3	37.1	64.4	31.5	37.3	68.8
1997 <sup>d/</sup>	7.1	4.0	11.1	37.4	95.8	133.2	44.5	99.8	144.3
1998 <sup>d/</sup>	3.5	21.3	24.8	13.8	101.1	114.9	17.3	122.4	139.7
1999 <sup>d/</sup>	4.3	2.0	6.3	14.1	16.6	30.7	18.4	18.6	37.0
2000 <sup>d/</sup>	13.4	12.8	26.2	24.9	27.3	52.2	38.3	40.1	78.4
2001 <sup>d/</sup>	15.7	9.9	25.6	39.2	94.7	133.9	55.0	104.6	159.6
2002 <sup>d/</sup>	15.0	16.1	31.1	36.4	39.3	105.7	51.5	85.4	136.8
2003 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						21.5			
<u>Stillaguamish-Snohomish</u>									
1981-1985	22.4	56.5	78.9	12.9	88.0	100.9	35.4	144.5	179.9
1986-1990	61.9	94.8	156.7	26.1	110.4	136.5	88.0	205.2	293.3
1991	60.3	56.3	116.6	19.2	45.0	64.2	79.5	101.3	180.8
1992	42.8	36.8	79.6	26.4	97.5	123.9	69.2	134.3	203.5
1993	23.7	10.9	34.6	15.2	62.8	78.0	38.9	73.7	112.6
1994	48.1	32.7	80.8	24.8	182.6	207.4	72.9	215.3	288.2
1995	34.0	15.6	49.6	32.3	109.7	142.0	66.3	125.3	191.6
1996	23.5	7.3	30.8	23.6	59.2	82.8	47.1	66.5	113.6
1997 <sup>d/</sup>	15.8	17.8	33.6	25.2	69.1	94.3	41.0	86.9	127.9
1998 <sup>d/</sup>	16.1	19.2	35.3	18.9	177.3	196.2	35.0	196.5	231.5
1999 <sup>d/</sup>	17.2	6.5	23.7	11.8	68.3	80.1	29.0	74.8	103.8
2000 <sup>d/</sup>	20.3	81.5	101.8	31.3	122.5	153.8	51.6	204.0	255.6
2001 <sup>d/</sup>	63.4	39.8	103.2	41.5	334.6	376.1	104.9	374.4	479.3
2002 <sup>d/</sup>	52.9	26.0	78.8	13.8	187.3	201.1	66.6	213.3	279.9
2003 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL- Snohomish						70.0			
GOAL- Stillaguamish						17.0			

TABLE B-41. Puget Sound **commercial net** fishery catches and spawning escapements in numbers of fish for hatchery and natural **Puget Sound coho** stocks.<sup>a/</sup> (Page 3 of 3)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>b/</sup>		
	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total
<b>COHO (thousands)</b>									
<u>South Puget Sound</u>									
1981-1985	354.8	154.9	509.7	76.6	38.7	115.2	431.3	193.5	624.9
1986-1990	527.7	224.5	752.2	69.2	29.7	98.9	596.9	254.2	851.1
1991	223.0	78.1	301.1	54.7	15.0	69.7	277.7	93.1	370.8
1992	162.1	51.5	213.6	102.7	16.0	118.7	264.8	67.5	332.3
1993	66.6	9.4	76.0	101.2	18.4	119.6	167.8	27.8	195.6
1994	168.6	102.1	270.7	122.9	39.0	161.9	291.5	141.1	432.6
1995	115.6	50.6	166.2	103.5	32.4	135.9	219.1	83.0	302.1
1996	56.4	13.6	70.0	107.5	22.0	129.5	163.9	35.6	199.5
1997 <sup>d/</sup>	111.4	3.0	114.4	62.1	38.2	100.3	173.5	41.2	214.7
1998 <sup>d/</sup>	70.5	11.5	82.0	33.6	18.1	51.7	104.1	29.6	133.7
1999 <sup>d/</sup>	19.0	7.2	26.2	26.7	10.0	36.7	45.7	17.2	62.9
2000 <sup>d/</sup>	174.7	25.6	200.3	136.4	53.0	189.4	311.1	78.6	389.7
2001 <sup>d/</sup>	134.4	70.6	205.0	123.8	38.2	162.0	258.2	108.9	367.0
2002 <sup>d/</sup>	104.6	33.8	138.4	115.4	19.4	134.8	220.1	53.1	273.2
2003 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				52.0					

a/ Includes treaty Indian and non-Indian net commercial catches during the adult accounting period. Source: Preliminary estimates of 1998 Puget Sound coho escapements, Aug. 24, 1999 Bill Tweit.

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

c/ Includes estimated off-station returns.

d/ Preliminary.

e/ Calculated using different method than 1981-1996 estimates.

TABLE B-42. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks.<sup>a/</sup> (Page 1 of 2)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>b/</sup>		
	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total
<b>PINK (thousands)</b>									
<u>Strait of Juan de Fuca</u>									
1981	0.0	1.7	1.7	0.0	3.1	3.1	0.0	4.8	4.8
1983	0.0	1.1	1.1	0.0	5.1	5.1	0.0	6.2	6.2
1985	0.0	3.5	3.5	0.0	4.8	4.8	0.0	8.3	8.3
1987	0.1	2.4	2.5	0.0	2.0	2.0	0.1	4.3	4.4
1989	0.0	12.3	12.3	0.0	10.9	10.9	0.0	23.3	23.3
1991	0.0	32.1	32.1	0.0	9.9	9.9	0.0	42.0	42.0
1993	0.0	0.1	0.1	0.0	1.7	1.7	0.0	1.8	1.8
1995	0.1	0.2	0.3	0.0	8.3	8.3	0.1	8.5	8.6
1997	0.0	0.5	0.6	0.1	5.0	5.0	0.1	5.5	5.6
1999	0.0	0.0	0.0	0.0	7.3	7.3	0.0	7.3	7.3
2001 <sup>d/</sup>	0.0	0.4	0.4	0.5	80.9	81.4	0.5	81.4	81.8
2003 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL	Not Agreed Upon								
<u>Nooksack-Samish</u>									
1981	0.0	35.3	35.3	0.0	15.0	15.0	0.0	50.3	50.3
1983	0.0	25.8	25.8	0.0	60.0	60.0	0.0	85.8	85.8
1985	0.0	27.1	27.1	0.0	23.0	23.0	0.0	50.1	50.1
1987	0.0	49.9	49.9	0.0	36.6	36.6	0.0	86.5	86.5
1989	1.6	179.7	181.3	1.2	137.6	138.8	2.8	317.3	320.1
1991	0.0	93.5	93.5	0.0	24.0	24.0	0.0	117.5	117.5
1993	0.0	0.0	0.0	0.0	56.5	56.5	0.0	56.0	56.0
1995	0.0	13.5	13.5	0.0	207.1	207.1	0.6	220.6	220.6
1997	0.0	4.2	4.2	0.0	26.0	26.0	0.0	30.2	30.2
1999	0.0	2.5	2.5	0.0	95.0	95.0	0.0	97.5	97.5
2001 <sup>d/</sup>	0.0	13.4	13.4	0.0	226.0	226.0	0.0	239.4	239.4
2003 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL	50.0								
<u>Skagit</u>									
1981	0.4	133.4	133.7	0.3	100.0	100.3	0.6	233.4	234.0
1983	0.0	8.0	8.0	0.1	470.0	470.1	0.1	478.0	478.2
1985	0.0	224.2	224.2	0.0	710.0	710.0	0.0	934.2	934.2
1987	0.9	351.3	352.2	1.5	592.0	593.5	2.4	943.3	945.7
1989	0.0	575.0	575.0	0.0	401.3	401.3	0.0	976.3	976.3
1991	0.0	144.7	144.7	0.0	351.0	351.0	0.0	495.7	495.7
1993	0.0	180.1	180.1	0.0	530.0	530.0	0.0	710.1	710.1
1995	0.0	899.2	899.2	0.0	527.4	527.4	0.0	1,384.4	1,426.6
1997	0.0	57.7	57.7	0.0	60.0	60.0	0.0	117.7	117.7
1999	0.0	32.6	32.6	0.0	320.0	320.0	0.0	352.6	352.6
2001 <sup>d/</sup>	0.0	204.1	204.1	0.0	894.1	894.1	0.0	1,098.2	1,098.2
2003 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL	330.0								

TABLE B-42. Puget Sound **commercial net fishery catches** and **spawning escapements** in numbers of fish for hatchery and natural **Puget Sound pink stocks**.<sup>a/</sup> (Page 2 of 2)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>b/</sup>		
	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total	Hatchery <sup>c/</sup>	Wild	Total
<b>PINK (thousands)</b>									
<u>Hood Canal</u>									
1981	0.2	0.6	0.9	1.6	6.6	8.1	1.8	7.2	9.0
1983	0.0	0.2	0.3	0.5	25.2	25.7	0.5	25.4	26.0
1985	0.1	2.4	2.6	1.5	64.1	65.6	1.6	66.5	68.1
1987	1.2	2.2	3.4	8.1	62.2	70.3	9.2	64.4	73.6
1989	7.0	19.8	26.8	2.5	61.0	63.5	9.5	80.8	90.3
1991	0.8	1.5	2.3	3.3	118.5	121.8	4.1	119.9	124.0
1993	0.6	2.2	2.8	11.5	35.4	46.9	12.1	37.6	47.0
1995	1.6	1.0	2.6	24.6	31.3	55.9	26.2	32.3	58.5
1997	2.3	0.9	3.2	21.5	8.4	29.9	23.8	9.3	33.1
1999	0.0	0.0	0.0	7.6	9.5	17.1	7.6	9.5	17.1
2001 <sup>d/</sup>	0.6	0.5	1.0	71.5	96.7	168.2	72.1	97.1	169.2
2003 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL	Not Agreed Upon								
<u>Stillaguamish-Snohomish</u>									
1981	0.0	38.7	38.7	0.0	108.1	108.1	0.0	146.87	146.8
1983	0.0	48.9	48.9	0.0	324.4	324.4	0.0	373.3	373.3
1985	0.0	171.08	171.0	0.0	502.2	502.2	0.0	673.28	673.2
1987	0.0	85.69	85.6	0.0	271.4	271.4	0.0	357.0	357.0
1989	0.0	313.9	313.9	0.0	150.5	150.5	0.0	464.54	464.5
1991	0.0	50.76	50.7	0.0	260.4	260.4	0.0	311.26	311.2
1993	0.0	9.9	9.9	0.0	210.1	210.1	0.0	220.09	220.0
1995	0.0	63.94	63.9	0.0	309.6	309.6	0.0	373.50	373.5
1997	0.0	59.2	59.2	0.0	192.1	192.1	0.0	251.3	251.3
1999	0.0	13.45	13.4	0.0	461.5	461.5	0.0	475.01	475.0
2001 <sup>d/</sup>	0.0	95.89	95.8	0.0	1,847.6	1,847.6	0.0	1,943.4	1,943.4
2003 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL - Stillaguamish						155.0			
GOAL - Snohomish						120.0			
<u>South Puget Sound</u>									
1981	2.6	18.6	21.1	0.8	12.1	12.9	3.4	30.7	34.0
1983	0.6	15.3	15.9	0.1	12.2	12.3	0.8	27.5	28.3
1985	0.2	34.0	34.2	0.0	34.7	34.7	0.2	68.7	68.9
1987	0.0	64.1	64.1	0.0	42.2	42.2	0.0	106.3	106.3
1989	1.3	129.9	131.2	0.5	62.0	62.4	1.7	191.8	193.6
1991	2.4	64.8	67.2	0.3	16.0	16.3	2.7	80.8	83.5
1993 <sup>e/</sup>	0.1	2.3	2.4	0.0	10.6	10.6	0.1	12.9	13.0
1995	0.0	5.5	5.5	0.1	17.9	18.0	0.1	23.4	23.5
1997	0.0	0.4	0.4	0.0	3.0	3.0	0.0	3.4	3.4
1999	0.0	0.1	0.1	0.0	4.7	4.7	0.0	4.7	4.8
2001 <sup>d/</sup>	0.0	0.7	0.7	0.0	16.2	16.2	0.1	16.9	16.9
2003 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						25.0			

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

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

c/ Includes estimated off-station returns.

d/ Preliminary.

e/ Nisqually escapement estimate incomplete in 1993.



TABLE B-43. Puget Sound spring chinook spawning escapement estimates in numbers of adult fish. (Page 1 of 1)

Year	Stock						
	Skagit Hatchery	Skagit Natural	NF Nooksack Natural <sup>a/</sup>	NF Nooksack Hatchery	SF Nooksack Hatchery/ Natural	White River Hatchery <sup>b/</sup>	Quilcene Hatchery <sup>c/</sup>
1981	9	1,250	NA	NA	NA	197	NA
1982	33	965	NA	NA	NA	43	NA
1983	14	710	NA	NA	NA	49	NA
1984	6	747	13	183	188	51	NA
1985	12	3,249	74	62	445	60	149
1986	27	1,978	65	42	170	192	197
1987	21	1,979	52	285	248	261	115
1988	120	2,064	131	837	233	631	119
1989	298	1,515	87	470	606	438	120
1990	307	1,592	3	109	142	517	76
1991	386	1,411	31	278	365	430	23
1992	249	1,001	143	1,016	103	1,156	20
1993	1,574	788	129	1,364	235	1,029	27
1994	881	899	13	549	118	1,227	10
1995	984	2,010	66	769	290	1,822	16
1996	856	1,728	156	1,070	203	1,972	12
1997	823	581	180	1,667	180	1,655	16
1998	364	1,050	157	1,280	336	1,173	5
1999	3171	471	911	4,019	213	2,789	4
2000	1,102	1,021	1,235	2,052	283	3,189	0
2001	1,566	1,856	2,185	5,363	NA	3,090	0
2002 <sup>d/</sup>	1,606	1,065	3,687	5,649	282	1,071	0
2003 <sup>d/</sup>	1537	785	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.

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