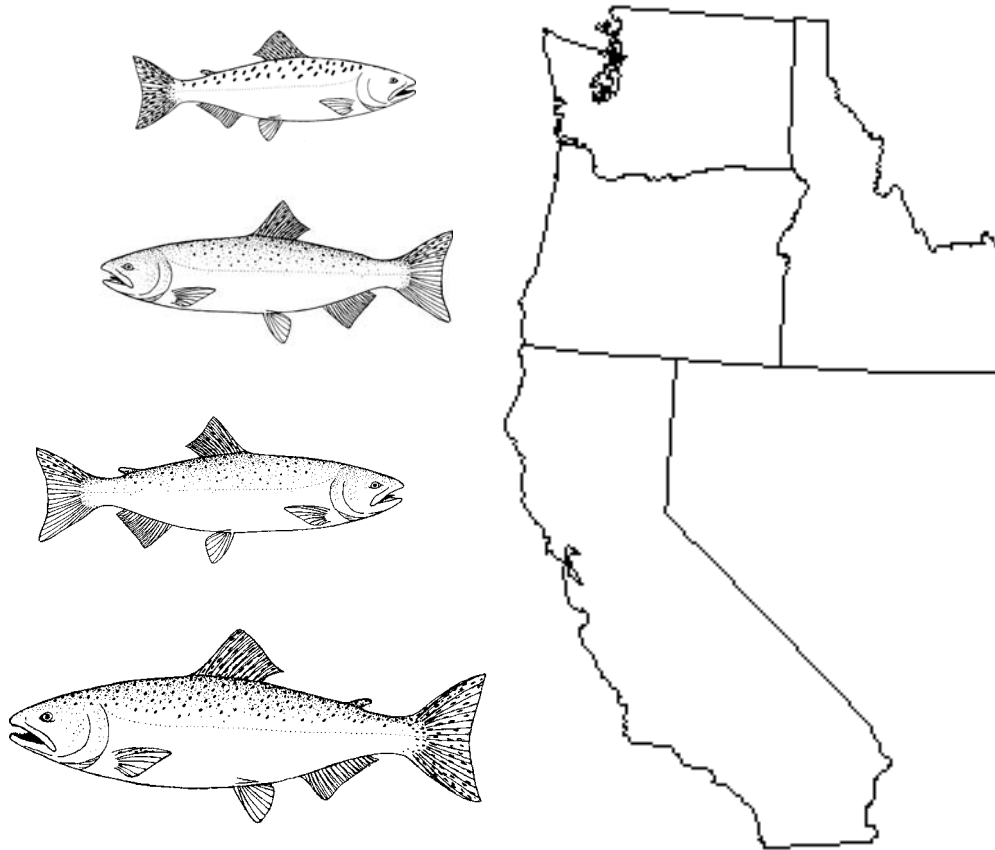


REVIEW OF 2004 OCEAN SALMON FISHERIES



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LIST OF ACRONYMS AND ABBREVIATIONS

AABM	aggregate abundance-based management
ADFG	Alaska Department of Fish and Game
AEQ	adult equivalents
CCC	central California coast (coho)
CDFG	California Department of Fish and Game
Council	Pacific Fishery Management Council
CRFMP	Columbia River Fishery Management Plan
CVI	Central Valley Index
CWT	coded-wire tag
EEZ	exclusive economic zone (from 3-200 miles from shore)
ESA	Endangered Species Act
ESU	evolutionarily significant unit
FEAM	Fishery Economic Assessment Model
FMP	fishery management plan
FRAM	Fisheries Regulatory Assessment Model
ISBM	individual stock-based management
KMZ	Klamath management zone (ocean zone between Humbug Mountain and Horse Mountain where management emphasis is on Klamath River fall chinook)
LRH	lower Columbia River hatchery (tule fall chinook returning to hatcheries below Bonneville Dam)
LRW	lower Columbia River wild (bright fall chinook spawning naturally in tributaries below Bonneville Dam)
MCB	mid-Columbia River brights (bright hatchery fall chinook released below McNary Dam)
MOC	mid-Oregon coast
MSY	maximum sustainable yield
NA	not available
NMFS	National Marine Fisheries Service
NOC	north Oregon coast
ODFW	Oregon Department of Fish and Wildlife
OC	Oregon coastal (coho)
OCN	Oregon coastal natural (coho)
OPI	Oregon Production Index (coho salmon stock index south of Leadbetter Point)
PacFIN	Pacific Coast Fisheries Information Network
PSC	Pacific Salmon Commission
PST	Pacific Salmon Treaty
RER	rebuilding exploitation rate
RK	Rogue/Klamath (coho)
SCH	Spring Creek Hatchery (tule fall chinook returning to Spring Creek Hatchery)
SEAK	Southeast Alaska
SONCC	southern Oregon/northern California coastal (coho)
SRFI	Snake River Fall Index
SRS	Stratified Random Sampling
STEP	Salmon Trout Enhancement Program
STT	Salmon Technical Team (formerly the Salmon Plan Development Team)
URB	upper river brights (naturally spawning bright fall chinook normally migrating past McNary Dam)
USFWS	U.S. Fish and Wildlife Service
WCVI	West Coast Vancouver Island
WDFW	Washington Department of Fish and Wildlife

INTRODUCTION

The Salmon Technical Team (STT) and staff of the Pacific Fishery Management Council (Council) have prepared this postseason review of the 2004 ocean salmon fisheries off the coasts of Washington, Oregon, and California to help assess Council salmon management and to provide a detailed description of the affected environment for inclusion in a National Environmental Policy Act (NEPA) analysis of the 2005 management measures. The STT and Council staff will provide three additional reports prior to the beginning of the ocean salmon season to help guide the Council's selection of annual fishery management measures. The reports will provide estimates of stock abundance and analyze the impacts of the Council's proposed and adopted management recommendations and will serve as analyses for alternatives in the NEPA analysis.

West Coast fisheries in Council-managed waters (ocean fisheries between the U.S./Canada border and the U.S./Mexico border from 3 to 200 nautical miles offshore) are directed toward and harvest primarily chinook or king salmon *Oncorhynchus tshawytscha* and coho or silver salmon *Oncorhynchus kisutch*. Small numbers of pink salmon *Oncorhynchus gorbuscha* also are harvested, especially in odd numbered years. There are no directed fisheries for other Pacific salmon species, and they occur rarely in Council-managed harvests.

The Council's annual review of ocean fisheries provides a summary of important biological and socioeconomic data from which to assess the impacts of past management actions, determine how well management objectives are being met, and improve regulations for the future. The Council will formally review this report at its March meeting prior to the development of management options for the approaching fishing season.

Chapter I summarizes ocean salmon fishery regulations and landings within the Council management area and management actions and landings under the jurisdiction of the Pacific Salmon Commission (PSC). Appendix A tables detail historical harvest data by state and by management area.

For chinook and coho salmon, respectively, Chapters II and III assess, where possible, the achievement of pertinent management objectives by salmon stock (including those listed under the Endangered Species Act [ESA]), outline regulations to achieve the objectives, and summarize inside fisheries catch and spawner escapement data. Detailed information for other salmon species is not included, since Council fisheries have very minor impacts on pink salmon escapements and no measurable impacts on sockeye or chum salmon or steelhead trout.

Socioeconomic impacts of the fisheries are discussed in Chapter IV. Appendices B through D provide historical data on inland landings and escapements, ocean regulations, and fishery-related socioeconomics.

The annual review of ocean salmon fisheries is drafted as early as landings and escapement information is available. The most recent entries are noted as preliminary and later updated when the data become final. If updated information, or error corrections that could substantially affect the development of management measures for the upcoming season are available, an errata sheet will be included as an appendix in one of the subsequent STT preseason planning documents.

COMMON TABLE CONVENTIONS

All 2004 data provided in this report are preliminary. The following conventions apply to all tables in this report:

1. Due to rounding, the total values may not equal the sum of individual values.
2. A single dash indicates there are no data appropriate for a particular table cell, or in the case of fishing effort or landings, that the season was closed.
3. A double dash indicates no records are available, for example, a fishery may not have been sampled due to low and sporadic effort.
4. "NA" indicates data are not available at the time of publication, but are likely to be available at a future date.

CHAPTER I

COASTWIDE OCEAN FISHING SUMMARY

Chapter I contains, or references, tables summarizing the current and historical ocean salmon fishing regulations and harvest data. In addition, the chapter provides a brief summary of the Council's regulatory objectives, by management area, for the most recent fishing year and reports on the results of the Council's selective fisheries for marked hatchery coho and resulting bycatch mortality of wild salmon. The final section in the chapter provides a brief summary of management information and harvests under the authority of the PSC.

COUNCIL-AREA REGULATIONS AND LANDINGS

Summaries of the 2004 non-Indian commercial troll, treaty Indian commercial troll, and recreational ocean salmon fishing regulations for both the exclusive economic zone (EEZ) (3 to 200 nautical miles from shore) and state territorial waters (0 to 3 nautical miles from shore) are provided in Tables I-1, I-2, and I-3, respectively. Historical summaries of regulations for each of the three West Coast states and for treaty Indian troll fisheries are provided in Appendix C, Tables C-1 through C-7. Table C-9 provides a summary of inseason regulatory actions and events during the 2004 season.

Catch, quota, and fishing effort statistics are presented in the following series of tables:

- % Table I-4: Council area commercial and recreational ocean salmon fishing effort and landings of chinook, coho, and pink salmon by state of landing.
- % Table I-5: Council area commercial and recreational ocean salmon fishing effort and landings of chinook, coho, and pink salmon by management area.
- % Table I-6: The 2004 coho and chinook quotas for each fishery compared with actual harvests.
- % Appendix A Tables A-1 through A-19: Historical monthly ocean salmon harvest data by state and port area.
Tables A-20 through A-29: Historical monthly ocean salmon harvest data by management area.
- % Appendix B Tables B-1 through B-43: Historical inside harvest and escapement data.
- % Appendix C Table C-8: Historical record of annual preseason catch quotas for the area north of Cape Falcon, as well as the stocks that were critical for ocean salmon management actions.

TABLE I-1. Summary of actual ocean **non-Indian commercial troll** salmon fishing regulations for 2004. (Page 1 of 2)

Area and Season	Salmon Species	Actual Quota (Guideline*)		Special Restrictions ^{a/}
		Chinook	Coho	
U.S./Canada border to Cape Falcon, Oregon May 1-5; May 15-18; May 24-26; June 26-30 (Season total of 17 days)	All except coho	29,800	-	Washington permitted vessels must land and deliver their fish within the area and within 24 hours of any closure of this fishery. Oregon permitted vessels must land their fish within the area or in Garibaldi, Oregon, and within 24 hours of any closure of this fishery. State regulations require fishers south of Cape Falcon intending to fish within this area, and/or fishers fishing within this area intending to transport and deliver their catch outside the area, notify Oregon Department of Fish and Wildlife (ODFW) one hour prior to transport away from the port of landing by calling (541) 867-0300 ext. 271. Chinook landing limits for 2004 were not more than 125 chinook per vessel from May 15-18; 70 chinook from May 24-26; 50 chinook from June 26-30. Cape Flattery and Columbia River Control Zones closed.
U.S./Canada border to Queets River July 8-12, 16-19, 22-26; July 29-Aug. 2; Aug 5-9, 11-15, 18-22, 25-29; Sept. 1-5; Sept. 8-15 (52 Days)	All salmon	The chinook quota for all fisheries between the U.S./Canada border and Cape Falcon, Oregon combined was 22,801 ^{b/}	8,000	Washington permitted vessels must land and deliver their fish within the area and within 24 hours of any closure of this fishery. Oregon permitted vessels must land their fish within the area or in Garibaldi, Oregon, and within 24 hours of any closure of this fishery. State regulations require fishers south of Cape Falcon intending to fish within this area, and/or fishers fishing within this area intending to transport and deliver their catch outside the area, notify Oregon Department of Fish and Wildlife (ODFW) one hour prior to transport away from the port of landing by calling (541) 867-0300 ext. 271. Cape Flattery and Columbia River Control Zones closed. Landing limits of 100 chinook per vessel from July 8-12; and 125 chinook for each subsequent open period. No chum retention north of Cape Alava in August and September. Non-selective for coho between the Queets River and Cape Falcon Sept. 1-5.
Queets River to Cape Falcon July 8-12, 16-19, 22-26; July 29-Aug. 2; Aug 5-9, 11-15, 18-22, 25-29 (39 Days)			4,200 ^{c/}	
Queets River to Cape Falcon Sept. 1-5			10,000 ^{c/}	
Cape Falcon to Florence south jetty, Oregon Mar. 15-June 30; July 7-12; July 19-27; Aug. 1-14; Aug. 19- 24; Sept. 1-Oct. 31 (204 days)	All except coho	None	-	Chinook 26 inch minimum size limit, except 27 inches May 1 through September 30 and 28 inches October 1 through October 31.
Twin Rocks to Pyramid Rock, Oregon Mar. 15-June 30; July 7-12; July 19-27; Aug. 1-14; Aug. 19-24; Sept. 1-Nov. 15 (219 days)	Chinook only	None	-	Open 0-3 nautical miles. Chinook 26 inch minimum size limit, except 27 inches May 1 through September 30 and 28 inches October 1 through October 31.
Florence south jetty to Humbug Mt., Oregon Mar. 15-July 6; July 13-18; July 26-29; Aug. 1-8; Aug 15-22; Aug. 26-29; Sept. 1-Oct. 31 (205 days)	All except coho	None	-	Chinook 26 inch minimum size limit, except 27 inches May 1 through September 30 and 28 inches October 1 through October 31.
Cape Blanco to Humbug Mt., Oregon (off Elk R.) Nov. 1-Dec. 15 (45 days)	Chinook only	None	-	Open 0-3 nautical miles. Chinook 26 inch minimum size limit. Landings restricted to Port Orford.

TABLE I-1. Summary of actual ocean **non-Indian commercial troll** salmon fishing regulations for 2004. (Page 2 of 2)

Area and Season	Salmon Species	Actual Quota (Guideline*)		Special Restrictions ^{a/}
		Chinook	Coho	
Humbug Mt. to Oregon/California border				
Mar. 15-May 31	All except coho	None	-	-
Jun. 1-19		2,600	-	Landing limit of 50 fish per trip June 1 through Aug. 29, and 65 fish per trip
July 1-19		1,600	-	Sept. 1 through 30. All fish must be landed and delivered to Gold Beach,
Aug. 1-4		2,500	-	Port Orford, or Brookings within 24 hours of closure. Chinook 26 inch
Sept. 1-3; 8-10; 15-30 (season total of 142 days)		3,000	-	minimum size limit prior to Sept. 1 and 28 inches in September.
Twin Rocks (42°05'36" N lat.) to Oregon/California border (off Chetco R.) Oct. 13-Nov. 3 (22 days)	Chinook only	1,000	-	Open 0-3 nautical miles. Chinook 26 inch minimum size limit. Landings restricted to the Port of Brookings. Daily landing limit of 25 chinook.
Oregon/California border to Humboldt south jetty, California Sept. 1-17 (17 days)	All except coho	6,000	-	Minimum size 28 inches. Possession and landing limit of 30 fish per day. All fish must be landed within the area and within 24 hours of closure. Klamath Control Zone closed.
Horse Mt. to Pt. Arena July 10-Aug. 29 (51 days)	All except coho	None	-	Minimum size 27 inches through Aug. 31. All vessels must land and deliver their fish within 24 hours of any closure of the fishery.
Sept. 1-30 (30 days)	All except coho	None	-	Minimum size 28 inches. All vessels must land and deliver their fish within 24 hours of any closure of the fishery.
Pt. Arena to U.S./Mexico Border May 1-Aug. 29 (121 days)	All except coho	None	-	Minimum size 26 inches through June 30 and 27 inches thereafter. All vessels must land and deliver their fish within 24 hours of any closure of the fishery.
Sept. 1-30 (30 days)	All except coho	None	-	Minimum size 27 inches. All vessels must land and deliver their fish within 24 hours of any closure of the fishery.
Pt. Reyes to Pt. San Pedro Oct 1; Oct 4-8; Oct 11-15 (11 days)	All except coho	None	-	Minimum size 26 inches.

a/ Single-point, single-shank barbless hooks required in all open areas coastwide. In California, when fishing with bait and angling by any other means than trolling, single-point, single-shank barbless circle hooks with no offset must be used. No more than 4 spreads per line off Oregon south of Cape Falcon. No more than 6 lines per boat allowed off California. Unless otherwise noted, minimum size limits (total length): chinook - 28 inches north of Cape Falcon; 26 inches south of Cape Falcon; coho - 16 inches.

b/ 22,801 quota includes 14,700 preseason quota plus 5,000 traded from the north of Cape Falcon recreational fishery, plus 3,101 rollover from May-June fishery.

c/ 67,500 preseason quota minus 20,000 traded to the recreational fishery (12,900 to Westport and 7,100 to transfer 3,100 to the Neah Bay recreational fishery on an Interior Fraser coho impact neutral basis) in exchange for 5,000 chinook. Quota remaining on September 1 (47,500-4,200[catch to date]-8,000[reserved for Queets River to U.S./Canada border subarea quota]=35,300) was converted to a non-mark selective coho quota of 10,000.

TABLE I-2. Summary of actual **treaty Indian commercial ocean and Area 4B troll** salmon seasons for 2004. (Page 1 of 1)

Tribe and Area	Salmon Species	Seasons ^{a/}		Minimum Size Limit (Inches)	
		Dates	Days	Chinook	Coho
Quinault					
Areas 2 and 3	Chinook Only	May 1-June 17	48	24	-
	All	July 1- Sept. 10	72	24	16
Hoh					
Area 2-3	Chinook Only	May 1-June 17	48	24	-
	All	July 1- Sept. 10	72	24	16
Quileute					
Area 3	Chinook Only	May 1-June 17	48	24	-
	All	July 1-Sept. 10; Sept. 16-Oct. 15	102	24	16
Makah					
Areas 3N, 4, and 4A	Chinook Only	May 1-June 17	48	24	-
	All	July 1- Sept. 10	72	24	16
Area 4B	Chinook Only	Jan. 1-Apr. 15; May 1-June 17; Sept. 16-Dec. 31	260	24 ^{b/}	-
	All	July 1-Sept. 10	72	24	16
S'Klallam					
Area 4B	Chinook Only	May 1-June 17	48	24	-
	All ^{c/}	Jan. 1-Apr. 15; July 1-Dec. 31	276	24 ^{b/}	16

a/ The overall quotas for these fisheries during the May 1-Sept. 15 ocean salmon management period were 49,000 chinook and 75,000 coho. These quotas include troll catches by the S'Klallam and Makah tribes in Washington State Statistical Area 4B from May 1-Sept. 15. The overall chinook quota was divided pre-season to provide 22,500 chinook for the May 1-June 30 chinook-directed season and 26,500 chinook for the July-Sept. all-salmon season. Transfer of any unused chinook quota from the May-June season to the July-Sept. season was not allowed; however, the actual July-Sept. quota was 22,223 because an overage in the May-June fishery was deducted from the July-Sept. quota. If the treaty Indian troll catch taken from areas 4/4B is projected in-season to exceed 55,000 coho, the total treaty Indian troll quota will be adjusted to ensure that the exploitation rate impact of the treaty Indian troll fishery on Interior Fraser coho does not exceed the level anticipated under the assumptions employed for impact assessment. Barbless hooks were required in all ocean fisheries.

b/ Minimum length limit 22 inches prior to May 1 and after October 31.

c/ Retention of steelhead prohibited; retention of chum prohibited prior to September 30.

TABLE I-3. Summary of actual ocean **recreational** salmon fishing regulations for 2004. (Page 1 of 2)

Area and Season	Salmon Species	Actual Quota (*Guideline)		Daily Limit and Special Restrictions ^{a/}
		Chinook	Coho	
U.S./Canada Border to Cape Alava, Washington (Neah Bay subarea) 7 days per week June 27-Sept. 2; Sept. 10-Sept. 19 (78 days)	All Salmon		30,750 ^{c/}	2 salmon daily, only one of which may be a chinook; no chum retention Aug. 1 - Sept. 19; all retained coho must have a healed adipose fin clip.
Cape Alava to Queets River, Washington (LaPush subarea) 7 days per week June 27-Sept. 19 (85 days)	All salmon	The chinook quota for all	5,200	2 salmon daily, only one of which may be a chinook; all retained coho must have a healed adipose fin clip.
North of 47°50'00" N lat. and south of 47°58'00" N lat. inside 3 nm 7 days per week Sept. 25-Oct.10 (16 days)	All Salmon	subareas between the U.S./	100	2 salmon daily, only one of which may be a chinook; all retained coho must have a healed adipose fin clip.
Queets River to Leadbetter Pt., Washington (Westport subarea) Sun.-Thurs. June 27-July 22; 7 days per week July 23-Aug. 28 (Season total of 57 days)	All salmon	Canada border and Cape Falcon, Oregon	18,717 ^{d/}	2 salmon daily, only one of which may be a chinook; all retained coho must have a healed adipose fin clip.
Queets River to Leadbetter Pt., Washington (Westport subarea) 7 days per week Aug. 29-Sept 6 (9 days)	All salmon	combined was 39,500 ^{b/}	10,000 ^{d/}	2 salmon daily, only one of which may be a chinook; no coho mark restriction.
Leadbetter Pt. to Cape Falcon, Oregon (Columbia River subarea) Sun.-Thurs. June 27-July 22; 7 days per week July 23 -Sep. 30 (Season total of 90 days)	All salmon		102,250	2 salmon daily, only one of which may be a chinook; all retained coho must have a healed adipose fin clip. Closed south of Tillamook Head Aug. 1 through Sept. 3. Columbia Control Zone closed.
Cape Falcon to Humbug Mt., Oregon Mar. 15-June 18; Sept. 1-Oct. 31 (157 days)	All except coho	None	-	2 salmon daily.
Cape Falcon to Oregon/California Border , June 19-Aug. 31 (74 days)	All salmon	None	75,000	2 salmon daily; all retained coho must have a healed adipose fin clip.
Twin Rocks to Pyramid Rock (off Tillamook Bay inside 3 nm) Mar. 15-June 18 (96 days)	Chinook only	None	-	Barbed hooks allowed. 2 adult and 5 jack salmon daily.
Sept. 1-Nov. 15 (76 days)	Chinook only	None	-	Barbed hooks allowed. 2 adult and 5 jack salmon daily; no more than 4 adults in 7 consecutive days.
June 19-Aug. 31 (74 days)	All salmon	None	-	Barbless hooks required. 2 salmon daily; all retained coho must have a healed adipose fin clip.

TABLE I-3. Summary of actual ocean **recreational** salmon fishing regulations for 2004. (Page 2 of 2)

Area and Season	Salmon Species	Actual Quota (*Guideline)		Daily Limit and Special Restrictions ^{a/}
		Chinook	Coho	
Cape Blanco to Humbug Mt., Oregon (off Elk River inside 3 nm) Nov. 1-Dec. 15 (45 days)	Chinook only	None	-	2 salmon daily.
Humbug Mt., Oregon to Horse Mt., California Except as provided above in the Cape Falcon to Oregon/California border selective coho fishery May 15-June 18; Sept 1-12 (47 days)	All except coho	None	-	2 salmon daily. Klamath Control Zone closed. Special gear restriction. ^{e/}
Twin Rocks, Oregon (42°05'36" N lat.) to Oregon/California border (off Chetco River inside 3 nm) Oct. 1-12 (12 days)	Chinook only	None	-	2 salmon daily; no more than 4 fish per season.
Horse Mt. to Pt. Arena, California Feb. 14-Nov. 14 (275 days)	All except coho	None	-	2 salmon daily. Minimum size 24 inches through Apr. 30. Special gear restrictions. ^{e/f/}
Pt. Arena to Pigeon Pt. Apr. 17-Nov. 14 (212 days)	All except coho	None	-	2 salmon daily. Minimum size 24 inches through Apr. 30. Special gear restrictions. ^{e/f/}
Pigeon Pt. to U.S./Mexico Border Apr. 3-Oct. 3 (184 days)	All except coho	None	-	2 salmon daily. Minimum size 24 inches through Apr. 30. Special gear restrictions. ^{e/f/}

- a/ No more than one rod and single-point, single-shank barbless hooks required north of Pt. Conception, California. Unless otherwise noted: minimum size limits are (1) 26 inches for chinook and 16 inches for coho north of Cape Falcon, and (2) 20 inches for chinook and 16 inches for coho south of Cape Falcon.
- b/ 39,500 quota includes 44,500 preseason quota minus 5,000 traded to the north of Cape Falcon non-Indian commercial troll fishery.
- c/ 21,050 preseason quota plus 6,600 transferred from the Westport recreational fishery and 3,100 from the north of Cape Falcon non-Indian commercial fishery.
- d/ 74,900 preseason quota minus 40,000 to transfer 6,600 to the Neah Bay recreational fishery on an Interior Fraser coho impact neutral basis, plus 12,900 from the north of Cape Falcon non-Indian commercial fishery in exchange for 5,000 chinook. Quota remaining on August 29 (47,800 - 18,717 [catch to date] = 29,083) was converted to a non-mark selective coho quota of 10,000.
- e/ No more than 2 single-point, single-shank barbless hooks and one rod per angler when fishing for salmon or fishing from a boat with salmon on board.
- f/ If angling by any other means than trolling between Horse Mt. and Pt. Conception, no more than 2 single-point, single-shank, barbless circle hooks shall be used. The distance between the 2 hooks must not exceed 5 inches when measured from the top of the eye of the top hook to the inner base of the curve of the lower hook, and both hooks must be permanently tied in place (hard tied). Circle hooks are not required when artificial lures are used without bait. Trolling defined: Angling from a boat or floating device that is moving forward by means of a source of power, other than drifting by means of the prevailing water current or weather conditions, except when landing a fish. Circle hook defined: A hook with a generally circular shape and a point which turns inward, pointing directly to the shank at a 90° angle.

TABLE I-4. Council area **commercial and recreational** ocean salmon fishing **effort and landings** by state. Data are provisional, pending further review of data compilation methods. A double dash ("-") indicates no records are available. Fewer than 50 fish or pounds may be shown as zero. (Page 1 of 4)

Year or Average	Effort (thousands of days fished)	COMMERCIAL TROLL						RECREATIONAL					
		Catch			Thousands of Pounds (Dressed Weight)			Effort (thousands of salmon angler trips)	Catch (thousands of fish)				Salmon Per Angler Trip
		Chinook	Coho	Pink	Chinook	Coho	Pink		Chinook	Coho	Pink	Total	
WASHINGTON^{a/}													
1966-70	--	172.5	717.2	96.2	1,810.0	4,557.0	431.6	401.9	152.6	427.7	14.6	595.0	1.5
1971-75	56.2	275.4	870.3	31.6	2,925.5	4,800.8	147.4	482.9	210.4	567.4	6.1	784.0	1.6
1976-80	45.3	206.4	754.4	422.8	2,363.8	3,674.8	788.8	429.8	114.1	511.8	9.5	635.5	1.5
1981-85 ^{b/}	13.5	72.6	226.9	150.5	776.4	1,059.2	357.7	163.3	54.7	172.4	3.6	230.6	1.4
1986-90	6.9	72.9	139.4	33.6	719.1	610.1	48.6	119.4	26.1	165.1	0.8	191.9	1.6
1991	6.5	51.0	136.2	48.1	482.9	634.3	160.6	127.2	12.7	207.7	2.2	222.6	1.8
1992	6.0	66.8	93.6	0.0	677.8	334.8	0.0	108.9	18.4	123.6	0.0	142.0	1.3
1993	5.5	55.8	73.1	6.3	563.4	336.1	19.9	128.8	13.0	126.0	2.4	141.4	1.1
1994	0.2	5.2	0.0	0.0	52.8	-	0.0	-	-	-	-	-	-
1995	0.8	11.3	56.2	41.7	85.1	254.8	136.7	54.8	0.5	68.3	2.8	71.6	1.3
1996	0.8	13.8	36.0	0.0	0.0	215.8	0.0	43.3	0.2	51.4	0.0	51.6	1.2
1997	0.9	21.7	15.7	1.8	80.9	94.0	1.8	29.7	4.0	26.8	1.4	32.1	1.1
1998	0.3	20.6	8.0	0.0	227.7	43.0	0.0	19.7	2.2	20.7	0.0	22.9	1.2
1999	1.1	45.0	37.2	1.6	417.8	137.9	5.2	50.8	9.9	40.1	2.2	52.2	1.0
2000	0.7	18.9	27.4	0.0	191.2	141.0	0.0	48.9	8.5	68.2	0.0	76.7	1.6
2001	1.6	55.6	65.7	2.6	518.0	375.6	9.6	126.6	23.0	168.3	3.9	195.2	1.5
2002	1.9	100.6	17.7	0.0	1,134.6	101.0	0.0	95.2	57.8	74.1	0.0	131.9	1.4
2003	2.2	95.4	19.6	0.5	1,257.8	116.3	2.0	119.2	34.2	139.1	13.4	186.7	1.6
2004 ^{c/}	2.2	86.4	75.0	0.0	1,155.7	469.0	0.2	112.7	24.9	112.9	0.0	137.8	1.2

TABLE I-4. Council area **commercial and recreational** ocean salmon fishing **effort and landings** by state. Data are provisional, pending further review of data compilation methods. A double dash ("-") indicates no records are available. Fewer than 50 fish or pounds may be shown as zero. (Page 2 of 4)

Year or Average	Effort (thousands of days fished)	COMMERCIAL TROLL						RECREATIONAL					
		Catch			Thousands of Pounds (Dressed Weight)			Effort (thousands of salmon angler trips)	Catch (thousands of fish)				Salmon Per Angler Trip
		Chinook	Coho	Pink	Chinook	Coho	Pink		Chinook	Coho	Pink	Total	
OREGON^d													
1966-70	--	122.0	804.5	--	1,158.6	5,358.4	--	--	--	--	--	--	
1971-75	47.4	208.5	979.0	--	2,127.9	6,015.4	--	--	--	--	--	--	
1976-80	56.3	234.1	796.5	--	2,406.1	4,251.2	138.8	387.7	40.0	289.2	--	329.2	0.8
1981-85	26.0	150.7	311.7	21.0	1,431.6	1,536.8	117.2	233.5	33.1	165.4	2.7	200.1	0.9
1986-90	38.3	397.6	399.1	4.3	3,730.9	1,957.2	21.0	241.2	35.8	218.6	0.5	254.4	1.1
1991	14.9	74.6	307.1	1.8	694.7	1,411.0	7.6	190.1	14.4	259.1	0.3	273.8	1.4
1992	9.2	110.6	49.8	0.0	1,012.6	206.6	0.0	165.3	12.6	185.8	0.0	198.5	1.2
1993	9.5	81.5	1.7	0.0	760.6	9.1	0.0	79.6	6.4	58.1	0.0	64.6	0.8
1994	3.8	25.3	-	0.0	286.6	-	0.0	26.9	6.0	0.0	0.0	6.1	0.2
1995	7.9	214.6	-	0.1	1,940.6	-	0.4	35.8	6.7	11.9	0.0	18.7	0.5
1996	8.5	177.2	-	0.0	1,925.1	-	0.0	44.0	11.2	7.2	0.0	18.4	0.4
1997	7.8	149.9	-	0.0	1,539.9	-	0.1	30.1	7.7	6.0	0.0	13.7	0.5
1998	7.2	124.9	-	0.0	1,397.7	-	0.0	26.0	4.1	2.3	0.0	6.4	0.2
1999	5.1	63.7	0.2	0.1	720.6	-	0.2	49.4	7.7	13.6	0.0	21.4	0.4
2000	7.5	136.5	12.3	0.0	1,481.0	71.4	0.0	78.6	25.5	33.2	0.0	58.7	0.7
2001	11.2	276.7	9.4	0.3	2,899.1	52.4	1.2	120.5	27.2	94.3	0.0	121.5	1.0
2002	12.0	319.3	1.5	0.0	3,488.7	10.7	0.0	107.6	47.5	36.5	0.0	84.0	0.8
2003	12.5	333.7	6.7	0.0	3,639.1	42.7	0.2	144.4	40.7	113.7	0.0	154.3	1.1
2004 ^c	13.4	260.1	9.3	0.0	2,839.1	69.6	0.0	145.7	56.4	71.8	0.0	128.2	0.9

TABLE I-4. Council area **commercial and recreational** ocean salmon fishing **effort and landings** by state. Data are provisional, pending further review of data compilation methods. A double dash ("- -") indicates no records are available. Fewer than 50 fish or pounds may be shown as zero. (Page 3 of 4)

Year or Average	Effort (thousands of days fished)	COMMERCIAL TROLL						RECREATIONAL					
		Catch			Thousands of Pounds (Dressed Weight)			Effort (thousands of salmon angler trips)	Catch (thousands of fish)				Salmon Per Angler Trip
		Chinook	Coho	Pink	Chinook	Coho	Pink		Chinook	Coho	Pink	Total	
CALIFORNIA^{6/}													
1966-70	--	486.3	319.7	7.4	4,924.5	2,351.5	36.6	189.8	120.8	33.2	0.0	154.0	0.8
1971-75	45.2	562.7	361.8	4.7	5,743.0	2,211.3	22.4	247.4	169.6	48.3	0.0	217.9	0.9
1976-80	81.3	618.6	243.4	0.5	5,867.3	1,184.3	2.7	163.5	92.4	31.2	0.0	123.6	0.8
1981-85	59.8	462.7	58.7	2.4	4,453.6	344.9	13.6	147.2	108.8	19.9	0.0	128.7	0.9
1986-90	58.5	794.7	46.8	0.3	8,097.4	262.2	1.6	241.3	166.5	40.3	0.0	206.8	0.9
1991	35.3	294.9	82.3	0.0	3,237.9	459.2	0.0	196.6	80.8	69.3	0.0	150.1	0.8
1992	20.3	163.4	2.5	0.0	1,632.1	11.3	0.0	127.9	73.6	11.5	0.0	85.1	0.7
1993	25.9	279.6	-	0.0	2,536.9	-	0.0	174.9	110.0	29.8	0.0	139.8	0.8
1994	21.2	295.6	-	0.0	3,103.1	-	0.0	189.9	183.2	0.5	0.0	183.7	1.0
1995	25.8	679.3	-	0.0	6,633.5	-	0.0	378.5	397.2	0.9	0.0	398.1	1.1
1996	21.1	380.6	-	0.0	4,113.4	-	0.0	225.4	164.2	0.6	0.0	164.8	0.7
1997	18.9	487.7	-	0.0	5,247.8	-	0.0	234.3	229.0	0.5	0.0	229.5	1.0
1998	14.5	227.3	-	0.0	1,847.1	-	0.0	151.8	122.0	0.1	0.0	122.1	0.8
1999	16.5	290.9	-	0.0	3,845.8	-	0.0	147.1	87.8	0.6	0.0	88.4	0.6
2000	20.1	479.1	-	0.0	5,130.6	-	0.0	214.4	185.9	0.4	0.0	186.3	0.9
2001	13.9	193.1	-	0.0	2,408.6	-	0.0	165.1	98.8	1.3	0.0	100.1	0.6
2002	17.4	391.7	-	0.0	5,007.5	-	0.0	210.1	182.0	0.8	0.0	182.9	0.9
2003	15.9	491.9	-	0.0	6,391.6	-	0.0	134.6	94.7	0.6	0.0	95.3	0.7
2004 ^{c/}	21.6	500.8	-	0.0	6,225.6	-	0.0	215.7	220.2	1.4	0.0	221.6	1.0

TABLE I-4. Council area **commercial and recreational** ocean salmon fishing **effort and landings** by state. Data are provisional, pending further review of data compilation methods. A double dash ("-") indicates no records are available. Fewer than 50 fish or pounds may be shown as zero. (Page 4 of 4)

Year or Average	Effort (thousands of days fished)	COMMERCIAL TROLL						RECREATIONAL					
		Catch			Thousands of Pounds (Dressed Weight)			Effort (thousands of salmon angler trips)	Catch (thousands of fish)				Salmon Per Angler Trip
		Chinook	Coho	Pink	Chinook	Coho	Pink		Chinook	Coho	Pink	Total	
COUNCIL AREA^{a/b/d/}													
1966-70	--	780.8	1,841.4	--	7,893.1	12,266.9	--	--	--	--	--	--	--
1971-75	148.8	1,046.6	2,211.1	--	10,796.4	13,027.5	--	--	--	--	--	--	--
1976-80	182.9	1,059.1	1,794.3	423.3	10,637.2	9,110.3	--	981.0	246.5	832.2	9.5	1,088.3	1.1
1981-85	99.3	686.0	597.3	113.9	6,661.6	2,940.9	488.5	544.0	196.6	357.7	6.3	559.4	1.0
1986-90	103.7	1,265.2	585.3	18.1	12,547.4	2,829.5	71.2	601.9	228.4	424.0	1.3	653.1	1.1
1991	56.7	420.5	525.6	49.9	4,415.5	2,504.5	168.2	513.8	107.9	536.1	2.5	646.5	1.3
1992	35.5	340.8	145.9	0.0	3,322.5	552.7	0.0	402.1	104.6	320.9	0.0	425.5	1.1
1993	40.9	416.9	74.7	6.3	3,860.9	345.2	19.9	383.3	129.4	213.9	2.5	345.8	0.9
1994	25.2	326.2	0.0	0.0	3,442.5	0.0	0.0	216.8	189.2	0.5	0.0	189.8	0.9
1995	34.6	905.2	56.2	41.8	8,659.2	254.8	137.1	469.1	404.4	81.1	2.9	488.3	1.0
1996	30.4	571.6	36.0	0.0	6,038.5	215.8	0.0	312.6	175.6	59.2	0.0	234.8	0.8
1997	27.6	659.3	15.7	1.9	6,868.6	94.0	1.9	294.1	240.6	33.2	1.4	275.3	0.9
1998	22.0	372.7	8.0	0.0	3,472.5	43.0	0.0	197.4	128.3	23.1	0.0	151.4	0.8
1999	22.7	399.6	37.3	1.7	4,984.1	137.9	5.4	247.3	105.4	54.4	2.2	162.0	0.7
2000	28.3	634.5	39.7	0.0	6,802.8	212.4	0.0	341.9	219.9	101.8	0.0	321.7	0.9
2001	26.7	525.4	75.1	1.3	5,825.7	428.0	10.8	412.2	149.0	263.9	3.9	416.8	1.0
2002	31.3	811.6	19.2	0.0	9,630.8	111.7	0.0	412.9	287.3	111.4	0.0	398.8	1.0
2003	30.6	921.0	26.3	0.5	11,288.5	159.0	2.2	398.2	169.6	253.4	13.4	436.3	1.1
2004 ^{c/}	37.2	847.3	84.3	0.0	10,220.4	538.6	0.2	474.1	301.5	186.1	0.0	487.6	1.0

- a/ For Washington, commercial effort and landings include: (1) treaty Indian fisheries (ocean and Area 4B only from May 1-Sept. 30) beginning in 1972; (2) prior to 1978, catch off British Columbia landed in Washington; (3) catch off Alaska landed in Washington; and (4) catch off Oregon and California beginning in 1976. Treaty Indian effort is in deliveries. Beginning in 1989, recreational angler trips and catch include state-managed, late-season Area 4B fishery when open. See Table IV-15 for Area 4B data.
- b/ Recreational effort and catch includes Washington-based effort and catch from Oregon state waters (July 26-Aug. 1) and Strait of Juan de Fuca after WDFW and NMFS ocean closures in 1982.
- c/ Preliminary.
- d/ Oregon commercial troll landings include small numbers of salmon caught in Alaska (prior to 1990), Washington, and California. Oregon recreational effort data are total angler trips prior to 1979 and salmon trips beginning in 1979. Significantly reduced salmon per angler trip in 1994-1998 reflects regulations requiring nonretention of coho in the recreational fishery south of Cape Falcon.
- e/ California commercial effort and landings include salmon caught off Oregon and landed in California, which were minor and infrequent until 2004, when 200 days fished and 25,300 chinook were included.

TABLE I-5. Council area **commercial and recreational** ocean salmon fishing **effort and landings** by management area. (Page 1 of 1)

Year	COMMERCIAL TROLL				RECREATIONAL					
	Effort ^{a/} (thousands of boat days fished)	Catch (thousands of fish)			Effort (thousands of salmon angler trips)	Catch (thousands of fish)			Salmon Per Angler Trip	
	Chinook	Coho	Pink		Chinook	Coho	Pink	total		
----- U.S./CANADA BORDER TO CAPE FALCON -----										
Treaty Indian (U.S./Canada Border to Leadbetter Point): ^{b/}										
1997	0.371	13.969	15.660	1.710	-	-	-	-	-	
1998	0.176	14.387	7.927	0.000	-	-	-	-	-	
1999	0.383	27.412	33.447	1.563	-	-	-	-	-	
2000	0.232	7.625	22.174	0.000	-	-	-	-	-	
2001	0.625	28.100	57.520	2.614	-	-	-	-	-	
2002	0.349	39.115	17.493	0.000	-	-	-	-	-	
2003	0.330	34.674	10.912	0.243	-	-	-	-	-	
2004 ^{c/}	0.700	49.175	61.749	0.000	-	-	-	-	-	
Non-Indian:										
1997	0.552	6.447	0.000	0.005	31.377	4.144	31.075	1.410	36.629	1.167
1998	0.139	5.929	0.000	0.000	15.400	2.180	14.185	0.013	16.378	1.064
1999	0.757	17.628	3.815	0.053	58.189	10.820	47.663	2.194	60.677	1.043
2000	0.695	12.932	17.294	0.000	53.943	9.234	77.515	0.018	86.767	1.608
2001	1.015	26.514	17.479	0.044	149.643	25.592	207.251	3.921	236.764	1.582
2002	2.054	81.579	1.695	0.000	107.183	60.555	88.508	0.000	149.063	1.391
2003	2.212	69.775	15.668	0.258	144.093	36.536	168.846	13.400	218.782	1.518
2004 ^{c/}	1.815	40.386	22.135	0.024	130.696	26.620	135.110	0.032	161.762	1.238
----- CAPE FALCON TO HUMBURG MOUNTAIN -----										
1997	7.427	146.158	-	0.048	9.962	2.408	0.038	0.000	2.446	0.246
1998	6.963	123.468	-	0.001	9.743	2.019	0.093	0.000	2.112	0.217
1999	4.834	61.156	-	0.055	26.217	3.340	6.046	0.000	9.386	0.358
2000	6.935	130.192	-	0.003	48.113	12.878	19.401	0.000	32.279	0.671
2001	10.435	267.273	-	0.344	71.119	17.374	55.088	0.000	72.462	1.019
2002	10.843	284.589	-	0.000	75.868	34.792	22.026	0.000	56.818	0.749
2003	11.477	314.222	-	0.025	110.450	32.876	83.837	0.000	116.713	1.057
2004 ^{c/}	12.334	240.000	-	0.000	108.719	47.379	48.044	0.000	95.423	1.139
----- HUMBURG MOUNTAIN TO HORSE MOUNTAIN TO (KMZ) -----										
1997	0.477	5.026	-	0.000	35.535	14.070	0.328	0.000	14.398	0.405
1998	0.361	3.244	-	0.000	24.129	4.875	0.100	0.000	4.975	0.206
1999	0.473	4.219	-	0.000	33.612	9.638	0.177	0.000	9.815	0.292
2000	0.417	5.534	-	0.000	42.329	25.292	0.257	0.000	25.549	0.604
2001	0.786	9.122	-	0.000	50.794	20.032	0.255	0.000	20.287	0.399
2002	1.033	20.270	-	0.000	41.265	26.065	0.403	0.000	26.468	0.641
2003	0.659	9.116	-	0.000	30.524	14.200	0.188	0.000	14.388	0.471
2004 ^{c/}	1.043	39.943	-	0.000	43.843	29.615	1.835	0.000	31.450	0.717
----- HORSE MOUNTAIN TO U.S./MEXICO BORDER -----										
1997	18.770	485.992	-	0.000	215.418	219.985	0.285	0.000	220.270	1.023
1998	14.304	224.755	-	0.000	141.792	119.100	0.040	0.000	119.140	0.840
1999	16.262	288.062	-	0.000	129.228	81.654	0.477	0.000	82.131	0.636
2000	20.004	477.014	-	0.000	194.053	172.377	0.223	0.000	172.600	0.889
2001	13.526	187.563	-	0.007	140.442	85.959	1.143	0.000	87.102	0.620
2002	16.798	378.188	-	0.000	188.509	165.913	0.533	0.000	166.446	0.883
2003	15.813	487.850	-	0.000	118.850	85.922	0.476	0.000	86.398	0.727
2004 ^{c/}	21.082	469.329	-	0.000	190.149	197.444	0.864	0.000	198.308	1.043

a/ Treaty troll effort in number of landings.

b/ May through September.

c/ Preliminary.

TABLE I-6. **Coho and chinook harvest quotas** and guidelines (*) for 2004 compared with actual harvest by management area and fishery. (Page 1 of 1)

Fishery Governed by Quota	Chinook			Coho		
	Quota or Guideline ^{a/}	Catch	Catch/Quota	Quota	Catch	Catch/Quota
NORTH OF CAPE FALCON						
TREATY INDIAN COMMERCIAL TROLL						
U.S./Canada Border to Cape Falcon (May-June)	22,500	26,777	1.19	-	-	-
U.S./Canada Border to Cape Falcon (July-Sept.)	22,223 ^{b/}	22,398	1.01	-	-	-
U.S./Canada Border to Cape Alava (July-Sept.)	-	-	-	55,000 ^{c/}	61,579	1.12
Cape Alava to Cape Falcon (July-Sept.)	-	-	-	20,000	170	0.01
Subtotal Treaty Indian Commercial Troll	49,000	49,175	1.00	75,000 ^{c/}	61,749	0.82
NON-INDIAN COMMERCIAL TROLL						
U.S./Canada Border to Cape Falcon (May-June)	29,800*	26,699	0.90	-	-	-
U.S./Canada Border to Cape Falcon (July-Sept.)	22,801* ^{d/}	20,817	0.91	-	-	-
U.S./Canada Border to Queets River (July-Sept.)	-	-	-	8,000	5,798	0.72
U.S./Canada Border to Cape Falcon (July-Aug.)	-	-	-	4,174 ^{e/}	4,174	1.00
Queets River to Cape Falcon (Sept.) (Non-Selective)	-	-	-	10,000 ^{f/}	12,610	1.26
Subtotal Non-Indian Commercial Troll	49,500	47,516	0.96	22,174	22,582	1.02
RECREATIONAL (selective coho fisheries)						
U.S./Canada Border to Cape Alava (June-Sept.)	3,700*	5,515	1.49	30,750 ^{f/}	29,400	0.96
Cape Alava to Queets River (June-Sept.)	2,000*	1,830	0.92	5,300	3,163	0.60
Queets River to Leadbetter Pt. (June-Aug.)	25,800*	10,859	0.42	18,717 ^{g/}	18,717	1.00
Queets River to Leadbetter Pt. (Aug.-Sept.) (Non-Selective)	-	-	-	10,000 ^{g/}	10,282	1.03
Leadbetter Pt. to Cape Falcon (June-Sept.)	8,000*	8,411	1.05	101,250	73,548	0.73
Subtotal Recreational	39,500 ^{h/}	26,615	0.67	166,017	135,110	0.81
TOTAL NORTH OF CAPE FALCON	138,000	123,306	0.89	263,191	219,441	0.83
SOUTH OF CAPE FALCON						
COMMERCIAL TROLL (all except coho)						
Humbug Mt. to Oregon/California Border (June - Sept.)	9,700	7,412	0.76	-	-	-
Oregon/California Border to Humboldt S. Jetty (Sept.)	6,000	6,155	1.03	-	-	-
Subtotal Troll	15,700	13,567	0.86	-	-	-
RECREATIONAL						
Cape Falcon to Oregon/California Border	-	-	-	75,000	49,319	0.66
TOTAL SOUTH OF CAPE FALCON	15,700	13,567	0.86	75,000	49,319	0.66

a/ Guidelines for chinook fisheries are marked with an asterisk (*).

b/ 26,500 preseason quota minus 4,277 overage from the May-June fishery.

c/ The overall quota included a subarea management trigger of 55,000 coho for the Area 4/4B fisheries to ensure that the exploitation rate impact of the treaty Indian troll fishery on Interior Fraser coho not exceed the level anticipated preseason under the assumptions employed for impact assessment.

d/ 22,801 quota includes 14,700 preseason quota plus 5,000 traded from the north of Cape Falcon recreational fishery, plus 3,101 rollover from May-June fishery.

e/ 67,500 preseason quota minus 20,000 traded to the recreational fishery (12,900 to Westport and 7,100 to transfer 3,100 to the Neah Bay recreational fishery on an Interior Fraser coho impact neutral basis) in exchange for 5,000 chinook. Quota remaining on September 1 (47,500-4,200[catch to date]-8,000[reserved for Queets River to U.S./Canada border subarea quota]=35,300) was converted to a non-mark selective coho quota of 10,000.

f/ 21,050 preseason quota plus 6,600 transferred from the Westport recreational fishery and 3,100 from the north of Cape Falcon non-Indian commercial fishery.

g/ 74,900 preseason quota minus 40,000 to transfer 6,600 to the Neah Bay recreational fishery on an Interior Fraser coho impact neutral basis, plus 12,900 from the north of Cape Falcon non-Indian commercial fishery in exchange for 5,000 chinook. Quota remaining on August 29 (47,800 - 18,717 [catch to date] = 29,083) was converted to a non-mark selective coho quota of 10,000.

h/ 39,500 quota includes 44,500 preseason quota minus 5,000 traded to the north of Cape Falcon non-Indian commercial troll fishery.

REGULATORY OBJECTIVES BY MANAGEMENT AREA

The sections below provide a brief outline of the regulatory objectives that shaped the 2004 ocean salmon fisheries by management area and species. Further details of the conservation and allocation objectives by salmon stock and an assessment of performance are provided in Chapters II and III for chinook and coho, respectively.

Horse Mountain to U.S./Mexico Border

Chinook Fisheries

Chinook fisheries management in this area is guided by conservation objectives for Klamath River and Sacramento River fall chinook, Oregon Coastal Natural (OCN) coho, and by ESA consultation standards for California Coastal chinook, Sacramento River winter chinook, and Southern Oregon/Northern California Coastal (SONCC) coho. The Council structured chinook salmon fisheries south of Horse Mountain (near Shelter Cove, California) to meet the following objectives (in order of most to least constraining):

1. The Klamath River fall chinook conservation objective of a minimum adult natural spawner escapement rate of 33%, subject to a minimum escapement (spawner floor) of 35,000 adults in natural areas, along with the allocation objective of 50% of allowable adult harvest for federally-recognized tribal subsistence and commercial fisheries.
2. The Sacramento River winter chinook ESA consultation standard requirement that the duration and timing of the commercial and recreational fisheries south of Point Arena not change substantially relative to the 2000 and 2001 seasons.
3. The California Coastal chinook ESA consultation standard requirement for and age-4 ocean harvest rate on Klamath River fall chinook of no greater than a 16%.
4. The OCN coho maximum allowable exploitation rate (marine and freshwater combined) of 15% required by Amendment 13 of the Salmon Fishery Management Plan (FMP), and the exploitation rate matrix recommended by the OCN coho work group, which was adopted by the Council as expert biological advice.
5. The SONCC coho ESA consultation standard requirement of no greater than a 13% marine exploitation rate on Rogue/Klamath (RK) hatchery coho.
6. The Sacramento River fall chinook escapement goal of 122,000 to 180,000 hatchery and natural adults.

Objectives 1 and 2 listed above were the constraining factors for 2004 chinook fisheries management in this area. Under the adopted regulations, total harvest south of Horse Mountain was projected to be 417,300 chinook, the coastwide ocean harvest rate on age-four Klamath River fall chinook was projected to be 15% (for fisheries from September 1, 2003 through August 31, 2004), and 35,000 Klamath River fall chinook adults were projected to spawn in natural areas.

Coho Fisheries

Coho fisheries management in this area is guided by the ESA consultation standard for Central California Coast (CCC) coho, which prohibits retention of coho in this area. No projection of non-retention fishery impacts on CCC coho is available; projected non-retention exploitation rates on OCN and RK coho in this area were 2.2% and 3.7%, respectively. Retention of coho has been prohibited south of Horse Mountain since

1996. Coho are managed as a unit south of Cape Falcon, and details of the Council's management objectives shaping the 2004 fisheries are presented more fully in the Cape Falcon to Humbug Mountain section.

Humbug Mountain to Horse Mountain

The area between Humbug Mountain (near Port Orford, Oregon) and Horse Mountain (near Shelter Cove, California) is referred to as the Klamath Management Zone (KMZ). Fishery management in this area is guided by conservation and allocation objectives for Klamath River fall chinook, and by NMFS ESA consultation standards for California Coastal chinook, OCN coho, and SONCC coho.

Chinook Fisheries

The Council structured chinook salmon fisheries in the KMZ to meet the following objectives (in order of most to least constraining):

1. The Klamath River fall chinook conservation objective of a minimum adult natural spawner escapement rate of 33%, subject to a minimum escapement (spawner floor) of 35,000 adults in natural areas, along with the allocation objective of 50% of the allowable adult harvest for subsistence and commercial fisheries by federally-recognized tribes.
2. The California Coastal chinook ESA consultation standard requirement for and age-4 ocean harvest rate on Klamath River fall chinook of no greater than a 16%.
3. The OCN coho maximum allowable exploitation rate (marine and freshwater combined) of 15% required by Amendment 13 of the FMP, and the exploitation rate matrix recommended by the OCN coho work group, which was adopted by the Council as expert biological advice.
4. The SONCC coho ESA consultation standard requirement of no greater than a 13% marine exploitation rate on Rogue/Klamath (RK) hatchery coho.

Objective 1 listed above was the constraining factor on 2004 chinook fisheries management in the KMZ. Under the adopted regulations, total harvest in the KMZ was projected to be 461,000 chinook, the coastwide ocean harvest rate on age-four Klamath River fall chinook was projected to be 15% (for fisheries from September 1, 2003 through August 31, 2004), and 35,000 Klamath River fall chinook adults were projected to spawn in natural areas.

Coho Fisheries

Coho fisheries management in this area is guided by the NMFS ESA consultation standards for OCN, SONCC, and CCC coho, which prohibit retention of coho south of the Oregon/California border. No projection of non-retention fishery impacts on CCC coho was available; projected non-retention exploitation rates on OCN and RK coho in this area were 1.6% and 4.0%, respectively. Until 2004, retention of coho has been prohibited in this area since 1993. In 2004 the recreational coho selective fishery from Cape Falcon to Humbug Mountain was extended to the Oregon portion of the KMZ with an overall quota of 75,000 fish. Coho are managed as a unit south of Cape Falcon, and details of the Council's management objectives shaping the 2004 fisheries are presented more fully in the Cape Falcon to Humbug Mountain section.

Cape Falcon to Humbug Mountain

Chinook Fisheries

The Council structured chinook salmon fisheries between Cape Falcon (near Manzanita, Oregon) and Humbug Mountain (near Port Orford, Oregon) to meet the following objectives (in order of most to least constraining):

1. The Klamath River fall chinook conservation objective of a minimum adult natural spawner escapement rate of 33%, subject to a minimum escapement (spawner floor) of 35,000 adults in natural areas, along with the allocation objective of 50% of the allowable adult harvest for subsistence and commercial fisheries by federally-recognized tribes.
2. The OCN coho maximum allowable exploitation rate (marine and freshwater combined) of 15% required by Amendment 13 of the FMP, and the exploitation rate matrix recommended by the OCN coho work group, which was adopted by the Council as expert biological advice.
3. The California Coastal chinook ESA consultation standard requirement for and age-4 ocean harvest rate on Klamath River fall chinook of no greater than a 16%.
4. The Oregon coastal chinook index escapement goal of 150,000 to 200,000 adult chinook.

Objective 1 listed above was the constraining factor for chinook fisheries management in this area. Under the adopted regulations, the STT projected a total harvest of 356,100 chinook in this area, which would meet the Klamath River fall chinook minimum spawning escapement floor of 35,000 natural adults, provide sufficient escapement to meet the escapement goal for Oregon coastal chinook, and result in a coastwide ocean fishery exploitation rate of 15.0% on age four Klamath River fall chinook. Nonretention mortality on coho resulting from commercial chinook fisheries in this area was projected to be equivalent to exploitation rates of 1.2% for OCN coho and 0.1% for RK coho.

Coho Fisheries

The Council structured 2004 coho salmon fisheries between Cape Falcon and Oregon/California border to conform to the recommendations of the OCN Coho Work Group and the NMFS ESA consultation standard in NMFS's 1999 Biological Opinion for threatened SONC and OCN coho. The NMFS ESA consultation standard required (1) no more than a 15% combined coastwide marine and freshwater exploitation rate for OCN coho; and (2) no more than a 13% coastwide marine exploitation rate for RK hatchery coho. The OCN Coho Work Group reaffirmed the 15% combined marine and freshwater exploitation rate limit based on its review of Amendment 13. To meet the OCN Coho Work Group recommendations and the NMFS ESA consultation standard, the Council adopted seasons for which the STT projected:

1. A coastwide marine and freshwater exploitation rate for OCN coho of 14.7%.
2. A coastwide marine exploitation rate for RK coho of 8.6%.

The Council's marine exploitation rate for OCN coho assumed a 14% hook-and-release mortality rate in recreational fisheries and a 26% rate in commercial troll fisheries off Oregon and Washington.

Objective 1 listed above was the constraining factor for chinook fisheries management in this area. Under the adopted regulations, the STT projected harvest impacts and nonretention mortality resulting from

recreational fisheries in this area to be equivalent to exploitation rates of 0.3% for RK hatchery coho and 4.2% for OCN coho stocks.

U.S./Canada Border to Cape Falcon

Chinook Fisheries

Management objectives for chinook fisheries in this area are to comply with NMFS ESA consultation standards established for ESA-listed stocks, meet treaty Indian sharing obligations, and to the extent possible, provide for viable ocean and inriver fisheries while meeting natural stock escapement objectives and hatchery fall chinook brood stock needs. Lower Columbia River hatchery and Spring Creek Hatchery fall chinook have historically been the major contributors to ocean fishery catches in the Council area north of Cape Falcon. Management constraints for ESA-listed stocks, especially Snake River Fall chinook and Columbia Lower River natural tules, constrained ocean fisheries in this area.

The Council structured chinook salmon fisheries between Cape Falcon, Oregon and the U.S./Canada Border to meet the following objectives (in order of most to least constraining):

1. At least a 30% reduction in the total ocean age-3 and age-4 adult equivalent (AEQ) exploitation rate from the 1988-1993 average on threatened Snake River Fall chinook (NMFS ESA consideration standards).
2. A 49% total (ocean and inriver) exploitation rate on the naturally spawning tule portion of the threatened lower Columbia River chinook ESU (NMFS ESA consultation standard).
3. For select chinook stocks of concern to the Pacific Salmon Commission, keep the Individual Stock Based Management (ISBM) index at or below 60% of the 1979-1982 average.

The Council adopted harvest quotas of 44,500 chinook for commercial non-Indian troll, 49,000 chinook for treaty Indian troll, and 44,500 chinook for the recreational fishery. These were changed by inseason action to 49,500 chinook for the non-Indian commercial fishery and 39,500 chinook in the recreational fishery through a trade of 5,000 chinook to the commercial fishery for 20,000 coho to the recreational fishery.

Coho Fisheries

Fisheries between Cape Falcon, Oregon and the U.S./Canada Border are constrained by management objectives and treaty Indian obligations for individual stock management units, treaty Indian/non-Indian and ocean/inriver sharing agreements, stocks listed under the ESA, and requirements of the Pacific Salmon Treaty (PST). The Council structured coho salmon fisheries to meet the following objectives (in order of most to least constraining):

1. Provide access to harvestable coho stocks while constraining impacts on weak natural coho stocks, especially OCN, to acceptable levels. The OCN coho maximum allowable exploitation rate (marine and freshwater combined) is 15% under Amendment 13 of the Salmon FMP, as well as the exploitation rate matrix recommended by the OCN Coho Work Group, which was adopted by the Council as expert biological advice.
2. Constrain the total exploitation rate on Interior Fraser coho below 10% in accordance with the provisions of the southern coho management plan adopted by the PSC in February, 2002.
3. Meet inside/outside and treaty Indian/non-Indian allocation objectives.

4. Meet FMP objectives for allocation of impacts between commercial and recreational ocean fisheries, and among port areas for the recreational fishery.

The Council adopted a mark-selective recreational fishery quota of 202,500 coho, with the requirement that all retained coho must be marked with healed adipose fin clip (Table I-3). The Council adopted commercial harvest quotas of 67,500 marked coho for the non-Indian commercial troll mark-selective fishery (Table I-1) and 75,000 coho for the non-mark-selective treaty Indian troll fishery (Table I-2). To reduce impacts on Interior Fraser coho, the non-Indian commercial quota was structured with a subarea quota of 8,000 coho north of the Queets River, and the treaty Indian quota was structured with a management trigger of 55,000 in Areas 4/4B. Total allowable harvest set preseason for the non-Indian commercial and recreational fisheries for coho in 2004 was 270,000, compared to 300,000 in 2003. For the treaty Indian fishery the overall quota of 75,000 coho was down from 90,000 coho in 2003.

There were numerous inseason actions, including transfer of recreational coho quota from the Queets River to Leadbetter Point (Westport) subarea to the north of Cape Alava (Neah Bay) subarea; the Westport coho quota was reduced by 40,000 to increase the Neah Bay quota by 6,600 and maintain Interior Fraser coho impacts at preseason expectations. Inseason action was also taken to trade 20,000 marked coho from the non-Indian commercial quota to the recreational quota in exchange for 5,000 chinook in order to extend the commercial fishery into September. Of the 20,000 coho, 12,900 went to the Westport subarea quota, and the remaining 7,100 were used to increase the Neah Bay subarea quota by 3,100, again to maintain Interior Fraser coho impact levels. Further inseason action was taken to establish non-mark-selective coho fisheries for both the non-Indian commercial and recreational fisheries by converting remaining marked coho quotas to lower non-mark-selective coho quotas. The non-Indian commercial fishery was non-mark selective for coho in the area between the Queets River and Cape Falcon from September 1 to 5 with a 10,000 coho quota (Table I-1). The recreational fishery was non-mark selective for coho in the area between the Queets River and Leadbetter Point from August 29 to September 6 with a 10,000 coho quota (Table I-3).

SELECTIVE FISHERIES AND SALMON BYCATCH

Estimated incidental chinook and coho mortalities are reported in Table I-7. Unless otherwise noted, chinook mortality estimates from north of Cape Falcon and coho mortality estimates coastwide are based on preseason projections scaled by the ratio of observed to projected catch; chinook mortality estimates south of Cape Falcon are based on expansion of dockside sampling data. Under the Sustainable Fisheries Act, incidental mortality in commercial fisheries constitute bycatch mortality, but incidental mortality resulting from the non-retention recreational fisheries does not.

Selective Coho Fisheries

Recreational fisheries selective for marked coho were planned for the area between Cape Falcon and Oregon/California border, the four ocean subareas north of Cape Falcon, and the inside fisheries at Buoy 10 and the Strait of Juan de Fuca (Areas 5 and 6). Non-Indian commercial fisheries selective for marked coho were planned for the area between the U.S./Canada border and Cape Falcon. Preseason and inseason assessments of mark rates, catches, numbers of coho released, and incidental (bycatch) mortality are summarized in Table I-8. Fisheries were sampled by on-water observers and dockside interviews. The mark rate in all the ocean fisheries was lower than predicted.

Selective Chinook Fisheries

In 2004, recreational fisheries in the Strait of Juan de Fuca operated under mark-selective retention restrictions for chinook in Area 5 and a portion of Area 6 from July 1 through August 8. The coho mark-selective fishery occurred in both Areas 5 and 6 from July 1 through September 30. Catch and release

estimates, derived from creel census programs conducted in Area 5 from July 1 through September 30 and in Area 6 from July 1 through August 8, are as follows:

Areas 5 and 6 Preliminary Recreational Salmon Catch Estimate during the Chinook Selective Fishery July 1 - August 8, 2004.									
Fishery	Boats	Anglers	Catch			Total	Release		
			Chinook	Coho	Pink		Chinook	Coho	Pink
Area 5: 7/1-8/8	10,698	25,161	2,889	9,463	30	12,382	12,378	25,794	16
Area 6: 7/1-8/8	2,266	4,276	682	80	3	765	1,421	126	3
Total	12,965	29,437	3,571	9,543	33	13,147	13,799	25,920	19
Area 5 Preliminary Recreational Salmon Catch Estimate, 2004									
Area 5: 7/1-9/30	30,252	75,312	3,251	41,569	NA	NA	20,347	129,995	NA

TABLE I-7. Estimated **incidental mortality of chinook and coho** in 2004 ocean salmon fisheries. Observed incidental mortality was calculated by scaling preseason projections of incidental mortality by the ratio of observed to projected catch. (Page 1 of 1)

Area and Fishery	2004 Catch Projection	2004 Bycatch Mortality ^{a/} Projection	2004 Bycatch Projection ^{b/}	Observed in 2004	
				Catch	Bycatch Mortality
OCEAN FISHERIES:^{c/}					
CHINOOK (thousands of fish)					
NORTH OF CAPE FALCON					
Treaty Indian Commercial Troll	49.0	8.1	18.4	49.2	8.1
Non-Indian Commercial Troll	44.5	12.5	33.8	40.4	11.3
Recreational	44.5	8.9	34.0	26.6	5.3
CAPE FALCON TO HUMBUG MT.					
Commercial Troll	332.1	36.5	83.0	240.0	26.4
Recreational	24.0	2.2	6.5	47.4	4.3
HUMBUG MT. TO HORSE MT.					
Commercial Troll	16.9	1.5	3.1	39.9	6.0 ^{d/}
Recreational	29.2	3.2	11.1	29.6	4.1 ^{d/}
SOUTH OF HORSE MT.					
Commercial	317.3	28.6	58.9	469.3	70.4 ^{d/}
Recreational	100.0	11.0	32.5	197.4	27.6 ^{d/}
TOTAL OCEAN FISHERIES					
Commercial Troll	759.8	87.2	197.2	838.8	122.2
Recreational	197.7	25.3	84.1	301.0	41.3
INSIDE FISHERIES:					
Buoy 10	NA	NA	NA	16.2	NA
COHO (thousands of fish)					
NORTH OF CAPE FALCON					
Treaty Indian Commercial Troll	75.0	5.1	16.6	61.7	4.2
Non-Indian Commercial Troll	67.5	28.8	93.0	22.1	9.4
Recreational	202.5	43.0	307.3	135.1	28.7
SOUTH OF CAPE FALCON					
Commercial Troll	-	12.6	40.8	-	-
Recreational	75.0	24.7	176.2	50.7	16.7
TOTAL OCEAN FISHERIES					
Commercial Troll	142.5	46.5	150.4	83.9	13.6
Recreational	277.5	67.7	483.5	185.9	45.4
INSIDE FISHERIES:					
Area 4B	-	-	-	-	-
Buoy 10	15.0	3.3	23.9	15.3	3.4

a/ The bycatch mortality reported in this table consists of drop-off mortality (includes predation on hooked fish) plus hook-and-release mortality of chinook and coho salmon in Council-area fisheries. Drop-off mortality for both chinook and coho is assumed to be equal to 5% of total encounters. The hook-and-release mortality (HRM) rates used for both chinook and coho are:

Commercial: 26%.
 Recreational, north of Pt. Arena: 14%.
 Recreational, south of Pt. Arena: 23% (based on the expected proportion of fish that will be caught using mooching versus trolling gear; the HRMs for these gear types are 42.2% and 14%, respectively).

b/ Bycatch calculated as drop off mortality plus fish released.

c/ Includes Oregon territorial water, late season chinook fisheries.

d/ Based on observed sublegal encounter rates.

TABLE I-8. Summary of 2004 recreational and commercial fisheries selective for marked hatchery coho (preliminary data). (Page 1 of 1)

Area	Anticipated Mark Rate	Observed Mark Rate	Preseason Quota	Anticipated Nonretention Mortality ^{a/}	Landed Coho Catch			Unmarked Coho Released ^{b/}	Estimated Nonretention Mortality ^{a/}	Effort ^{c/}
					Total	Marked	Unmarked			
Recreational										
Ocean Fisheries										
Neah Bay	39%	36%	21,050	5,900	29,400	29,122	278	51,772	9,837	26,128
La Push	45%	28%	5,300	2,219	3,163	3,117	46	8,015	1,523	4,563
Westport	57%	46%	74,900	6,639	18,717	18,589	128	21,822	4,146	32,222
Columbia River	68%	58%	101,250	4,099	73,885	73,435	450	53,177	10,104	54,739
Total North of Cape Falcon	NA	NA	202,500	18,857	125,165	124,263	902	134,786	25,610	117,652
Cape Falcon to OR/CA Border	58%	48%	75,000	6,061	49,319	48,807	512	53,429	10,152	127,028
Ocean Fisheries Total	NA	NA	277,500	24,918	174,484	173,070	1,414	188,215	35,762	244,680
Inside Fisheries										
Strait of Juan de Fuca ^{c/}	40%	42%	35,431 ^{d/}	10,098	41,649	41,569	90	130,025	24,705	79,588
Buoy 10	58%	66%	15,000 ^{d/}	2,064	15,322	NA	NA	7,893	1,500	69,135
Inside Fisheries Total	NA	NA	50,431	12,162	56,971	41,569	90	137,918	26,205	148,723
Commercial										
Neah Bay	37%	29%	-	-	2,623	2,623	0	6,422	1,991	508
La Push	42%	29%	-	-	3,175	3,175	0	7,773	2,410	246
Westport	50%	46%	-	-	1,396	1,396	0	1,639	508	505
Columbia River	60%	31%	-	-	2,611	2,611	0	5,812	1,802	243
Commercial Total	NA	NA	67,500	28,800	9,805	9,805	0	21,646	6,711	1,502
Grand Total	NA	NA	395,431	65,880	241,260	224,444	1,504	347,779	68,678	NA

a/ Hook-and-release plus drop-off mortality of unmarked fish.

b/ Calculated from observed mark rates. Buoy 10 based on dockside sampling.

c/ Recreational effort measured in angler trips, commercial effort measured in days fished.

d/ Expected catch, not a quota.

PACIFIC SALMON COMMISSION

The Pacific Salmon Commission (PSC) was established to implement the 1985 Pacific Salmon Treaty (PST) between the United States and Canada. Because many of the stocks under the jurisdiction of the Council are significantly affected by management actions taken in Canadian and Alaskan waters, considerable interaction between the Council and the PSC can be expected at both the policy and technical levels. Actual catches for PSC fisheries of the most relevance to the Council are summarized in Tables I-9 and I-10. Note that these catch statistics do not correspond to provisions of the PST for compliance with aggregate abundance-based management (see below); nor do they reflect incidental mortality losses associated with the regulation of these fisheries, except as noted.

Chinook Fisheries

Northern British Columbia and Southeast Alaska (SEAK) fisheries affect far-north migrating chinook stocks from Washington, Oregon, and Idaho. These include Washington coastal stocks; Columbia and Snake River bright fall, spring, and summer stocks; and far-north migrating Oregon coastal chinook stocks.

The West Coast Vancouver Island (WCVI) troll and Georgia Strait troll and recreational fisheries affect far-north migrating stocks to a lesser degree, but have a major impact on more southerly distributed Columbia River tule and Puget Sound stocks.

In June 1999, the United States and Canada reached agreement on a framework for chinook fishing regimes for 1999 through 2008. Under this agreement, SEAK (all gear), northern British Columbia (troll and recreational), and WCVI (troll and outside recreational) fisheries shall be regulated under aggregate abundance-based management (AABM) regimes. These fishery regimes have catch ceilings that are derived from indices for total aggregate abundance of stocks contributing to specific components of the fisheries and target fishery harvest rates. For example, the allowable catch for WCVI troll and outside sport fisheries are determined by the abundance index estimated for the WCVI troll fishery. The allowable catch for the WCVI AABM fisheries was designed to reduce harvest rates for the combined troll and outside sport fisheries by approximately 35% from levels observed during 1985 through 1996. The United States and Canada are developing management regimes for AABM fisheries that are based on total mortality rather than landed catch.

For fisheries that are not driven by AABM regimes, including Council area fisheries, the 1999 agreement establishes conservation obligations to reduce harvest rates on depressed chinook stocks (those not meeting escapement goals) by 36.5% for Canadian fisheries and 40% for United States fisheries, relative to levels observed during 1979 through 1982. This individual stock based management (ISBM) obligation must be taken into account during Council and inside fisheries preseason management planning processes.

In 2004, AABM fisheries were conducted in accordance with the obligations set forth in the June 1999 PST agreement. SEAK fisheries were constrained by an all-gear catch ceiling of 383,536 "treaty" chinook in 2004. "Treaty" chinook are those fish that are counted against the AABM catch ceiling; they represent total catch minus terminal exclusions (fish taken in terminal net fisheries where escapement goals are achieved) and hatchery add-ons (fish attributed to production from Alaskan hatchery facilities in excess of levels observed prior to the 1985 PST). The 2004 total catch of chinook by SEAK fisheries was 506,207, while the catch of "treaty" chinook was 428,833.

TABLE I-9. **Chinook catch** by **Southeast Alaska** marine fisheries in thousands of fish. (Page 1 of 1)

Year	Total Catches			Treaty Chinook			Additional Catch	
	Troll	Net	Sport	Troll	Net	Sport	Terminal Exclusion ^{a/}	Hatchery Add-On ^{b/}
1985	215.8	33.9	24.9	211.9	33.3	23.0	0.0	6.2
1986	237.7	22.1	22.6	231.6	20.6	19.0	0.0	11.1
1987	242.6	15.5	24.3	231.1	14.0	20.3	0.0	17.1
1988	231.4	21.8	26.2	217.1	17.4	22.3	0.0	22.5
1989	235.7	24.2	31.1	224.2	18.5	26.8	0.0	21.5
1990	287.9	27.7	51.2	263.5	16.1	41.4	0.0	45.9
1991	264.1	34.9	60.5	231.8	21.0	45.1	0.0	61.5
1992	183.8	32.1	42.9	162.6	24.0	35.3	0.0	36.8
1993	226.9	28.0	49.2	212.4	16.2	42.7	0.0	32.9
1994	186.3	35.7	42.4	177.1	22.6	35.5	0.0	29.2
1995	138.1	48.0	49.7	115.1	26.4	35.5	0.0	58.8
1996	141.5	37.3	57.5	107.6	8.4	39.0	8.7	71.6
1997	246.4	25.1	71.5	221.9	11.4	53.3	9.8	46.5
1998	192.1	23.5	55.0	183.5	13.4	46.3	2.4	25.0
1999	146.2	32.7	72.1	132.7	12.9	53.2	4.5	47.7
2000	158.7	41.4	63.2	134.0	11.1	41.4	2.5	74.3
2001	153.3	40.2	72.3	128.7	13.5	44.7	1.5	77.3
2002	325.3	31.7	69.5	298.1	13.5	45.5	1.2	68.2
2003	330.7	39.4	69.4	307.4	23.5	49.2	2.1	57.2
2004 ^{c/}	354.7	64.0	87.5	322.0	40.4	66.4	5.4	72.0

a/ Catch in terminal net fisheries. These catches are not subject to PST limitations.

b/ Catch of increased production of Alaska hatchery fish. These catches are not subject to PST limitations.

c/ Preliminary.

TABLE I-10. Chinook and coho catches by Canadian marine fisheries in thousands of fish. (Page 1 of 1)

Year or Avg.	Northern B.C.		Central B.C.		North-Central B.C.	WCVI				Strait of Georgia		Strait of Georgia Sport		Juan de Fuca		
	Troll	Net	Troll	Net	Sport	NW Troll	SW Troll	Net	Outside Sport	Troll	Net ^{a/}	North	South	Troll	Net	Sport
	CHINOOK															
1986-1990	168.9	42.4	38.8	27.3	22.7	110.3	215.9	18.7	28.6	33.0	23.9	68.1	34.7	0.1	25.6	30.6
1991	194.0	56.6	27.9	18.9	32.5	74.8	128.1	61.3	42.5	32.2	19.7	75.3	21.2	0.0	11.8	19.0
1992	142.3	43.8	42.3	20.8	37.9	216.5	130.2	9.8	44.1	37.3	13.9	75.1	20.4	0.0	15.6	21.1
1993	161.8	45.0	24.8	11.2	38.2	167.8	106.9	29.4	63.1	33.4	22.9	79.0	25.9	0.0	2.8	14.0
1994	164.5	26.5	20.1	15.4	38.9	71.0	75.0	3.7	50.6	13.0	11.7	45.1	11.4	0.0	13.8	14.4
1995	56.4	28.2	4.7	9.1	30.0	28.8	52.2	0.5	28.2	0.0	1.7	38.0	9.7	0.0	1.5	14.4
1996	0.0	30.9	0.0	4.1	11.0	0.0	0.0	0.0	10.0	0.0	0.6	55.2	15.3	0.0	0.6	19.0
1997	82.1	18.9	10.5	1.8	47.0	25.9	26.6	0.2	11.0	2.3	0.9	35.3	7.5	0.0	0.4	17.2
1998	116.4	7.6	3.8	5.7	49.0	7.2	3.1	1.6	4.2	1.1	0.1	10.1	4.3	0.0	0.2	9.7
1999	56.5	12.7	2.1	4.3	36.4	21.3	34.7	1.0	31.1	0.1	5.0	26.4	12.1	0.0	0.2	14.8
2000	9.8	27.6	0.0	4.5	22.1	28.7	34.7	0.0	38.0	0.3	5.9	17.3	4.6	1.0	0.0	11.0
2001	13.1	23.1	0.0	4.4	30.4	23.9	53.6	0.0	40.2	0.0	4.5	21.5	9.6	0.0	0.1	23.5
2002	96.5	12.3	0.5	4.8	41.3	43.0	90.8	0.2	32.1	0.5	9.6	43.7	9.1	0.0	0.0	24.1
2003	137.4	15.1	0.7	2.7	54.3	58.0	93.8	19.3	24.0	0.4	0.0	14.0	6.4	0.0	0.3	27.6
2004 ^{b/}	157.3	16.3	0.4	5.3	74.0	85.4	88.7	32.4	42.5	0.5	0.2	10.2	3.8	0.0	0.2	38.1
COHO																
1986-1990	716.3	139.9	275.2	132.2	28.0	600.0	1,277.9	14.2	19.1	178.4	109.2	512.9	106.0	0.7	194.4	66.2
1991	982.3	196.2	105.7	47.6	43.1	664.6	1,225.3	5.2	49.8	11.6	77.5	35.0	11.5	0.0	180.4	110.6
1992	516.3	122.1	237.8	67.6	40.5	935.5	736.3	9.7	37.5	137.3	81.7	358.5	117.3	0.0	106.0	119.7
1993	337.2	134.5	72.6	37.8	31.2	422.0	531.8	3.5	13.7	276.0	65.6	552.1	177.7	0.0	6.2	108.9
1994	740.0	174.5	57.6	94.1	58.9	207.7	1,044.1	4.7	16.4	50.8	38.3	148.0	28.2	0.0	131.0	118.6
1995	295.4	111.1	18.7	28.1	37.3	276.9	1,068.5	1.4	41.2	0.0	17.9	11.2	3.5	0.0	36.7	71.5
1996	424.9	122.2	12.2	29.5	59.1	235.9	552.7	1.0	25.1	0.0	5.5	26.7	7.1	0.7	4.2	94.0
1997	158.6	28.6	8.2	12.0	37.1	0.0	0.0	0.0	29.1	0.0	5.9	2.6	2.8	0.0	0.4	99.5
1998	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.5	0.0	0.0	0.1
1999	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.1
2000	0.0	1.7	0.0	0.1	NA	0.0	0.0	0.0	1.3	0.0	0.0	1.1	3.0	0.0	0.0	0.6
2001	1.1	9.9	0.0	2.7	NA	0.0	0.0	0.0	6.1	0.0	0.0	9.3	1.7	0.0	0.0	0.2
2002	118.9	1.2	8.5	0.0	49.3	0.0	0.0	1.0	4.9	0.0	0.0	3.1	1.5	0.0	0.0	3.8
2003	195.0	6.9	18.9	3.5	NA	0.0	0.1	5.4	13.4	0.0	0.0	1.1	7.5	0.0	0.0	11.8
2004 ^{b/}	225.5	24.2	31.7	47.3	27.0	0.1	0.0	2.9	20.3	0.0	0.2	1.4	1.6	0.0	0.0	11.1

a/ Includes Johnstone strait nets, net fisheries in Strait of Georgia, and Fraser seine.

b/ Preliminary

The allowable 2004 catch for the North Coast British Columbia AABM fisheries (northern British Columbia troll plus Queen Charlotte Islands sport) was 243,640 chinook. The actual catch was estimated at 231,319 (157,319 troll plus 74,000 sport).

Canada's principal management objective for the 2004 WCVI chinook troll fishery was to address concerns for Strait of Georgia chinook, interior British Columbia coho (Upper Fraser and Thompson), and WCVI chinook stocks (maximum exploitation rate of 15%). Limitations on incidental coho mortalities and concerns for WCVI chinook constrained the timing and location of the chinook fishery; no chinook troll fisheries were conducted from June through mid-September. The accounting period for the 2004 WCVI fishery was October 1, 2003 through September 30, 2004. There were twelve troll openings in the 2004 fishery, all operating under a 55 cm minimum size limit (fork length), with a total troll harvest of 168,837 chinook (Table I-11).

The majority of the catch (94,695) occurred from mid-April through mid-May. The WCVI outside sport fishery (the area where non-local stocks predominate) operated under a 45 cm minimum size limit, and harvested 42,496 chinook, approximately 77% above the level observed in 2003 (24,000). First Nation's catch was estimated at 5,000 chinook. The 2004 WCVI AABM catch of 216,333 chinook was above the allowable catch ceiling of 168,837 established under the 1999 PST agreement.

Canadian ISBM commercial fisheries harvested a total of 55,532 chinook in 2004. ISBM sport fisheries harvested 11,072 chinook (north coastal B.C. -outside AABM 18,000; WCVI "inside" 58,178; Juan de Fuca Strait 38,109; Strait of Georgia North 10,193; Strait of Georgia South 3,755; Johnstone Strait 12,837; Fraser River 10,609).

No direct management measures for chinook salmon within the Council management area are specified under the 1999 PST agreement, except for the ISBM commitment. The Council's ocean fisheries and inside fisheries conducted by the state and tribal managers were designed to minimize impacts on spawning escapements of depressed stocks. Information necessary to evaluate the impacts of Council area fisheries is not yet available.

TABLE I-11. Summary of 2004 West Coast Vancouver Island salmon fisheries. (Page 1 of 1)

Areas Open	Majority of Catch	Fishing Period	Chinook Catch
123-127	123, 126	Oct. 1-3, 2003	17,905
23-27, 123-127	23, 123	Nov. 1-2, 2003	2,955
23-27, 123-127	23, 123	Dec. 1-21, 2003	825
23-27, 123-127	23, 123	Jan. 4 - Feb. 2, 2004	1,561
23-27, 123-127	23, 123	Feb. 3-29, 2004	2,837
23-27, 123-127	123, 126	Mar. 1-10, 2004	2,337
23-27, 123-127	124, 126, 127	Mar. 16-21, 2004	5,706
23-27, 123-127	124, 126, 127	Apr. 1-9, 2004	7,972
23-27, 123-127	124, 126, 127	Apr. 15-27, 2004	43,209
23-27, 123-127	124, 126, 127	May 1-3, 2004	32,197
23-27, 123-127	124, 126, 127	May 15-16, 2004	19,289
26, 124-127	26, 126	Sept. 17-2-, 2004	32,044
Total			168,837

Coho Fisheries

On February 14, 2002, the PSC adopted a management plan for coho salmon originating in Washington and southern British Columbia river systems. The plan is directed at the conservation of key management units, four from southern British Columbia (Interior Fraser, Lower Fraser, Strait of Georgia Mainland, Strait of Georgia Vancouver Island) and nine from Washington (Skagit, Stillaguamish, Snohomish, Hood Canal, Strait of Juan de Fuca, Quillayute, Hoh, Queets, and Grays Harbor). Under the plan, the United States and Canada

are required to constrain total fishery exploitation rates to levels associated with the categorical status (low, moderate, and abundant) and target exploitation rates of the key management units as determined by domestic managers. Ceilings on exploitation rates by intercepting fisheries are established through formulas specified in the plan. The plan has been transmitted to the governments of the United States and Canada with the expectation it will be conveyed to domestic managers for implementation. In 2003, the "low" status of Interior Fraser coho was the most constraining for Council fisheries.

In 2004, Canada's coho management objective was to constrain the exploitation rate by its fisheries on Thompson coho (a component of the Interior Fraser management unit) to a ceiling of 3%. Unmarked coho were released in all Southern B.C. commercial and sport fisheries where Thompson coho were known to be prevalent. Release mortality rates for legal size coho by gear type were: Seine 25%; Northern Gillnet 70%; Southern Gillnet 60%; Troll 26%; and Sport 10% (Canadian Stock Assessment Secretariat, Research Document 99/128). Only terminal areas along WCVI and a small portion of upper Johnstone Strait and the Queen Charlotte Islands were permitted to retain coho with intact adipose fins. Selective fishing techniques, such as barbless hooks for trollers, seine bunt restrictions, and mandatory use of revival tanks, were required. In areas where coho abundance was anticipated to be high, test fishing was conducted prior to openings. A total of 3,162 coho were retained by commercial fisheries in 2004 (138 troll; 3,024 net). Coho kept and released by marine commercial fisheries in Southern British Columbia are summarized in Table I-12.

For recreational fisheries, mark-selective coho retention was permitted in mixed stock areas, and barbless hooks were required. Mark-selective fisheries were implemented in most of Southern British Columbia (Johnstone Strait, Strait of Georgia, Juan de Fuca Strait, and West Coast Vancouver Island). The estimated total retained catch of coho in Southern British Columbia marine recreational fisheries in 2004 is 59,300. Coho kept and released by marine recreational fisheries in Southern British Columbia are summarized in Table I-13.

First Nations fisheries in Southern British Columbia were estimated to have harvested 6,491 coho (nearly all in the Strait of Georgia).

TABLE I-12. Summary of coho catch in British Columbia commercial fisheries. (Page 1 of 1)

Gear/Area	Coho Kept	Coho Released
Area G Troll (WCVI and Areas 111+11)	131	17,917
Area H Troll (Georgia and Johnstone Straits)	7	1,508
Area B Sein (Southern B.C.)	8	6,218
Area D Gillnet (WCVI, Georgia and Johnstone Straits)	3,016	4,945
Area E Gillnet (Juan de Fuca and Fraser Net)	0	2,373

TABLE I-13. Summary of coho catch in British Columbia recreational fisheries. (Page 1 of 1)

Area	Effort	Legal Sized				Sublegal Released	
		Hatchery (Marked)		Unmarked		Marked	Unmarked
		Kept	Released	Kept	Released		
Georgia Strait	69,615	2,988	1,125	90	12,750	700	1,822
Juan De Fuca	57,842	9,553	633	1,500	18,683	687	6,672
Johnstone Strait	16,367	933	239	3,976	13,651	0	1,930
WCVI	82,689	23,022	1,408	17,207	47,059	193	2,370

CHAPTER II

CHINOOK SALMON MANAGEMENT

CENTRAL VALLEY CHINOOK STOCKS

Central Valley chinook stocks include fall, late-fall, winter, and spring stocks of the Sacramento and San Joaquin rivers and their tributaries. Two of these stocks are currently listed under the ESA: (1) Sacramento River winter chinook, listed as endangered in January 1994; and (2) Central Valley spring chinook, listed as threatened in September 1999.

Management Objectives

The following conservation objectives guided Council management of Central Valley chinook salmon stocks in the 2004 fisheries: (1) for fall chinook in the Sacramento River system, an escapement goal of 122,000 to 180,000 hatchery and natural adults; and (2) for Sacramento River winter and Central Valley spring chinook, the ESA consultation standard requirement that the duration and timing of the commercial and recreational fisheries south of Point Arena not change substantially relative to the 2000 and 2001 seasons.

Regulations to Achieve Objectives

Harvest impacts on Central Valley chinook are a primary management concern in fisheries south of Point Arena, California. For 2004, no specific restrictions were required for ocean salmon fisheries to meet the conservation objective for Sacramento River fall chinook. Under the 2004 regulations, the projected escapement to the Sacramento River was 457,500 fall chinook adults, exceeding the upper end of the conservation objective range.

To meet the Sacramento River winter and Central Valley spring chinook ESA consultation standard, the commercial fishery season south of Point Arena was constrained by time and area, similar to the 2000 and 2001 seasons. Recreational fishery restrictions included delaying the opening of the season between Point Arena and Pigeon Point until April 17, and between Pigeon Point and the U.S./Mexico border until April 3; a 24-inch minimum size limit south of Point Arena through April 30, and 20 inches thereafter; and a requirement that anglers use circle hooks if fishing by means other than trolling between Horse Mountain and Point Conception. Circle hooks have a lower non-retention mortality rate than do "J" hooks when used in mooching.

Inside Harvest

Although no catch estimate was made for the 2004 season, recreational harvest regulations continued to allow extensive harvest of fall chinook. A comprehensive angler survey of the Sacramento River system, conducted from 1990 through 1994, showed that recreational catch averaged 25% of the river run. An additional survey conducted from 1998 through 2000 showed similar results. Since 1990, regulations have closed the mainstem Sacramento River to retention of salmon from January 15 to July 15, a period when winter chinook adults are thought to be most abundant. In 2004, the retention closure was extended backward to January 1 in response to recovery of winter chinook CWT's in the sport fishery. In response to the low escapements of recent years, the San Joaquin River and its tributaries (Stanislaus, Toulumne, and Merced) have been closed to recreational salmon fishing.

Escapement and Management Performance

Sacramento River Fall Chinook

In 2004, a total of 283,100 natural and hatchery fall chinook adults were estimated to have returned to the Sacramento River basin for spawning. This value is approximately 62% of the preseason expectation of 457,500, but, with an in-river harvest rate of 25%, still exceeds the Council's conservation escapement objective of 122,000 to 180,000 adults. Fall chinook returns to Sacramento River hatcheries totaled 80,100 adults. Available data indicate hatchery-produced fish constitute a majority of the Sacramento River naturally spawning fall chinook population. Table II-1 and Figure II-1 display historical natural and hatchery fall spawner escapements. For a more detailed breakdown of the historical escapements, see Appendix B, Tables B-1 and B-2.

Sacramento River Winter and Spring Chinook

Historical spawner escapements for Sacramento River winter and spring chinook salmon are presented in Appendix B, Table B-3.

Spawner escapement of endangered winter chinook salmon in 2004 was estimated at 7,192 adults (expanded counts from Red Bluff Diversion Dam). It should be noted that a time series of spawner escapement estimates based on carcass surveys also exists for the run from 1996 to the present. Expansion of the carcass survey data have yielded, in most cases, higher estimates of spawning escapement than have expansions of dam counts. While the carcass survey estimates have the potential to reduce the large uncertainty associated with the dam expansion estimates, a review of the most appropriate methodology for estimating the spawning escapement from the carcass survey data has not been completed. Ocean fishery impacts on the returning cohort of winter chinook spawners in 2004 were incurred primarily during the 2003 season and in the early 2004 recreational season south of Point Arena, California.

Returns of spring chinook to the Sacramento River totaled approximately 17,400 fish (jacks and adults), of which approximately 13,200 fish returned to the upper river (above the mouth of the Feather River).

San Joaquin River Fall Chinook

Spawning areas San Joaquin River are used primarily by fall chinook. The estimated San Joaquin River fall chinook spawning escapement in 2004 totaled 11,277 jacks and adults in natural areas and 11,400 jacks and adults to hatcheries (Appendix B, Tables B-1 and B-2 provide historical spawner escapements). Salmon production in the San Joaquin River is determined largely by spring outflows three years earlier. Since 1986, spawner returns to the San Joaquin River have constituted less than 10% of the total Central Valley escapement for fall run chinook.

TABLE II-1. **Sacramento River natural and hatchery adult fall Chinook** escapements in thousands of fish. (Page 1 of 1)

Year	Upper River ^{a/}			Lower River			Total		Grand Total
	Hatchery	Natural ^{b/}	Subtotal	Hatchery	Natural ^{b/}	Subtotal	Hatchery	Natural ^{b/}	
1970	3.0	61.2	64.2	10.3	82.7	93.0	13.3	143.9	157.2
1971	1.7	67.6	69.3	11.0	74.6	85.6	12.7	142.1	154.9
1972	1.3	36.5	37.7	6.8	47.6	54.4	8.0	84.1	92.2
1973	1.7	48.9	50.6	18.0	151.4	169.4	19.7	200.4	220.1
1974	2.0	66.3	68.3	11.8	121.9	133.7	13.8	188.2	202.0
1975	3.3	73.0	76.3	10.8	68.6	79.3	14.1	141.6	155.6
1976	3.0	80.3	83.3	8.6	76.0	84.6	11.6	156.2	167.9
1977	6.1	61.0	67.0	14.9	82.1	97.0	21.0	143.0	164.0
1978	2.7	67.0	69.7	9.9	47.3	57.2	12.7	114.3	126.9
1979	6.4	81.3	87.7	9.4	72.3	81.7	15.8	153.6	169.4
1980	10.3	45.5	55.8	14.6	71.6	86.3	24.9	117.1	142.0
1981	5.9	51.8	57.7	25.0	92.1	117.2	30.9	144.0	174.9
1982	17.1	39.7	56.8	14.5	92.6	107.1	31.7	132.3	164.0
1983	6.1	42.0	48.1	12.5	48.8	61.3	18.6	90.8	109.4
1984	19.6	51.8	71.4	19.1	67.7 ^{c/}	86.9	38.7	119.5	158.2
1985	15.9	103.7	119.6	13.4	105.8	119.1	29.3	209.5	238.7
1986	11.3	113.9	125.2	10.6	102.4	113.0	21.8	216.3	238.2
1987	10.0	76.9	86.8	9.9	97.9	107.8	19.8	174.8	194.6
1988	12.6	128.7	141.3	14.2	69.2	83.4	26.8	198.0	224.7
1989	10.2	67.3	77.5	14.7	59.4	74.1	24.9	126.7	151.6
1990	13.5	50.2	63.7	8.3	33.0	41.3	21.7	83.2	104.9
1991	10.0	35.3	45.3	16.0	56.1	72.1	26.0	91.4	117.4
1992	6.3	31.7	38.0	15.4	27.7	43.2	21.7	59.5	81.1
1993	7.1	55.1	62.2	17.6	55.4	73.0	24.6	110.6	135.2
1994	11.6	66.4	78.0	19.0	66.6	85.7	30.6	133.0	163.6
1995	24.8	112.2	137.0	16.7	141.3	158.0	41.5	253.5	295.0
1996	18.8	131.3 ^{d/}	150.1	13.7	135.8	149.5	32.5	267.1	299.6
1997	44.6	167.4	211.9	18.7	112.2	130.9	63.3	279.6	342.9
1998	42.4	60.7	103.1	27.5	107.4	134.9	69.9	168.1	238.1
1999	23.2	256.6 ^{d/}	279.8	19.0	97.1	116.1	42.2	353.7	395.9
2000	20.8	152.9	173.7	26.8	214.2	241.0	47.6	367.1	414.7
2001	23.7	130.4	154.1	33.5	357.3	390.8	57.2	487.7	544.9
2002	61.9	481.9 ^{e/}	543.9	23.7	207.9	231.6	85.7	689.8	775.5
2003	82.7	164.8	247.5	25.5	248.2	273.7	108.2	413.0	521.2
2004 ^{f/}	51.6	70.6	122.1	28.5	132.5	161.0	80.1	203.1	283.1

a/ Above the Feather River; 1971-1980 estimates include Tehama-Colusa Spawning Channel.

b/ Fish spawning in natural areas are the result of hatchery and natural production; estimates generally based on carcass surveys.

c/ Does not include estimated Bear River escapement, approximately 300 adult fish.

d/ Includes Butte Creek, for which a fall spawner survey was conducted in 1996 and 1998.

e/ Estimation methodology was changed due to an extremely high Battle Creek escapement in 2002.

f/ Preliminary.

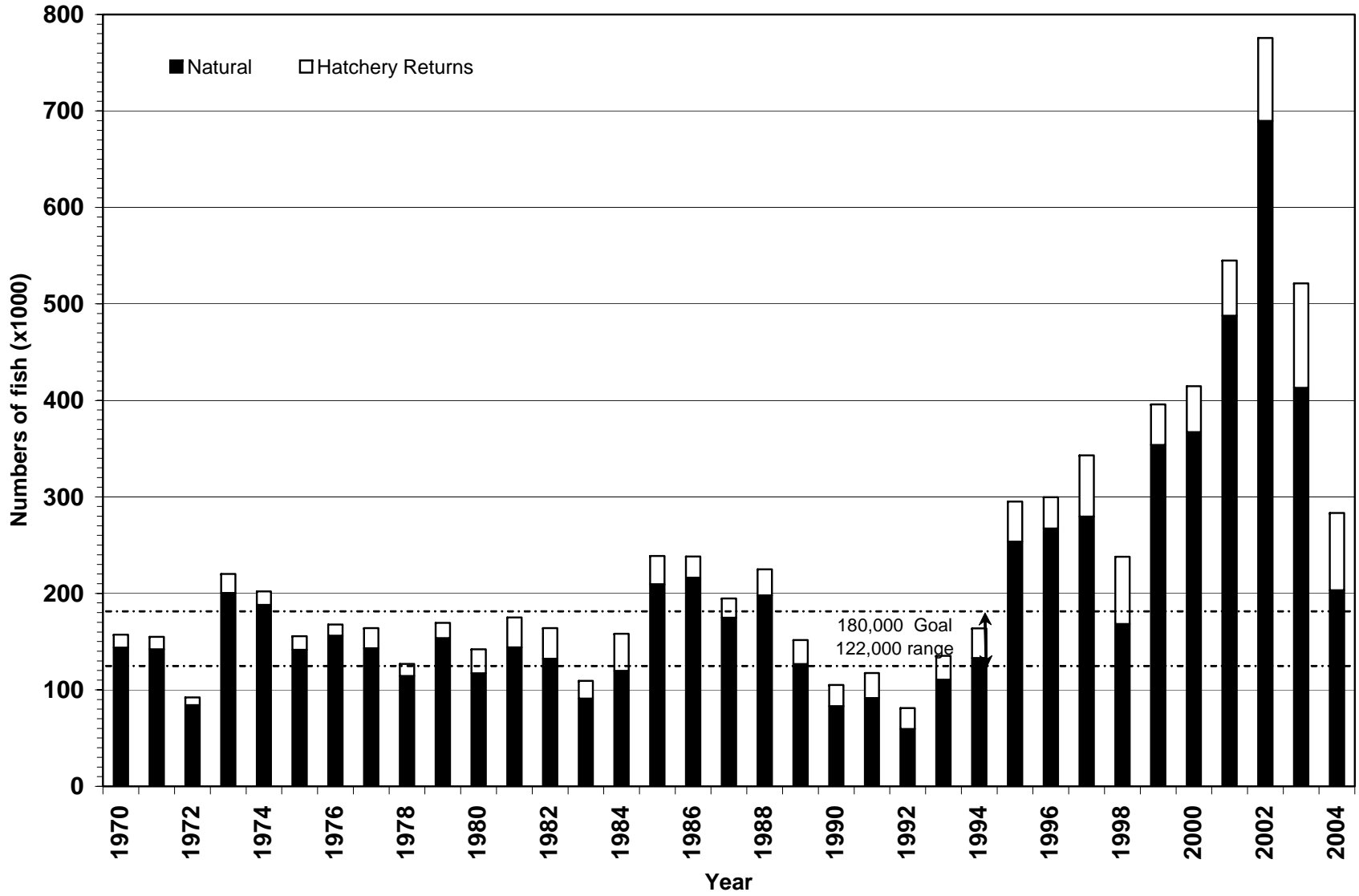


Figure II-1. Sacramento River adult fall chinook spawning escapements, 1970-2004.

NORTHERN CALIFORNIA COAST CHINOOK STOCKS

Northern California stocks include fall and spring stocks north of the entrance to San Francisco Bay. Primary river systems in this area are (from north to south) the Smith, Klamath, Mad, Eel, and Mattole rivers. In September 1999, the coastal chinook stocks south of the Klamath River were listed as threatened under the ESA.

Management Objectives

The Klamath River fall chinook conservation objective and the NMFS ESA consultation standard for California Coastal chinook provided primary guidance for Council management of northern California chinook salmon stocks in the 2004 fisheries. Klamath River fall chinook are managed in accordance with a harvest rate plan (Amendment 9) calling for a minimum adult natural spawner escapement rate of 33%, with a minimum spawner escapement of 35,000 adults in natural areas. The available harvest is to be shared equally between non-tribal and tribal fisheries (tribes with federally recognized fishing rights), and an equitable sharing arrangement is to be negotiated among the non-tribal fisheries. Klamath River fall chinook also provide the basis for the NMFS ESA consultation standard for California coastal chinook, which limits the ocean harvest rate on age-4 Klamath fall chinook to no more than 16%.

Regulations to Achieve Objectives

Harvest impacts on northern California coastal chinook are a primary management concern for commercial ocean fisheries from Pigeon Point, California to Florence, Oregon, and for recreational fisheries in the KMZ. To meet the NMFS ESA consultation standard on California Coastal chinook and achieve the management objectives for Klamath River fall chinook, the adopted regulations were designed to result in: (1) a maximum ocean fishery exploitation rate on age-4 Klamath River fall chinook of 16.0% (for fisheries from September 1, 2003, through August 31, 2004); (2) a Klamath River run target of 96,800 fall chinook adults resulting in a spawner escapement of 35,000 fish in natural areas, taking into account a projected inriver harvest impact of 35,800 adults and returns to basin hatcheries; (3) 50% (31,100) of the allowable adult harvest for tribal subsistence and commercial fisheries; (4) 15% (4,700) of the non-tribal harvest to the Klamath River recreational fishery; and (5) 14.1% (3,700) of the ocean harvest to the KMZ recreational fishery. These harvest allocations were expected to result in a 51%/49% California/Oregon sharing of Klamath River fall chinook ocean troll harvest.

A low abundance projection of age-3 Klamath River fall chinook reduced commercial fishing opportunities in the Fort Bragg area (Horse Mt. To Pt. Arena) from 88 days in 2003 to 51 days in 2004.

Inside Harvest

River harvest estimates for streams outside the Klamath River Basin are not available. The Yurok and Hoopa tribes shared a federally reserved right of 50% (31,100) of the available harvest surplus of adult Klamath fall chinook. The State of California managed the river recreational fishery under a 4,700 adult fall chinook quota. Adult fall chinook landings totaled 25,600 fish (82% of the quota) in the tribal fishery and 4,00 fish (85% of the quota) in the recreational fishery (Table II-2).

TABLE II-2. **Klamath River adult inriver fall Chinook** run size, spawning escapement, recreational catch, Indian gillnet harvest, and non-landed fishing mortalities in numbers of fish and percent of the total inriver run size. (Page 1 of 1)

Year	Spawning Escapement		Inriver Recreational Catch		Indian Net Catch		Non-landed Fishing Mortality		Inriver Run Size
	Numbers	Percent	Numbers	Percent	Numbers	Percent	Numbers	Percent	Numbers
1978	71,500	77	1,700	2	18,200	20	1,600	2	92,900
1979	34,300	67	2,100	4	13,700	27	1,200	2	51,300
1980	28,000	61	4,500	10	12,000	26	1,100	2	45,600
1981	38,300	48	6,000	7	33,000	41	3,000	4	80,300
1982	42,400	64	8,300	12	14,500	22	1,400	2	66,600
1983	44,600	78	4,200	7	7,900	14	800	1	57,500
1984	23,600	50	3,300	7	18,700	40	1,700	4	47,300
1985	48,200	75	3,600	6	11,600	18	1,100	2	64,400
1986	146,300	75	21,000	11	25,100	13	2,600	1	195,000
1987	130,800	63	20,200	10	53,100	25	5,000	2	209,100
1988	112,800	59	22,200	12	51,700	27	4,900	3	191,600
1989	65,900	53	8,800	7	45,600	37	4,100	3	124,300
1990	23,600	66	3,600	10	7,900	22	800	2	35,900
1991	18,100	55	3,400	10	10,200	31	1,000	3	32,700
1992	19,400	73	1,000	4	5,800	22	500	2	26,700
1993	43,500	76	3,200	6	9,600	17	900	2	57,200
1994	47,100	76	1,800	3	11,700	19	1,100	2	61,700
1995	190,700	89	6,100	3	15,600	7	1,400	1	213,800
1996	101,400	58	12,800	7	56,500	32	5,200	3	175,800
1997	64,800	77	5,700	7	12,100	14	1,200	1	83,700
1998	71,700	79	7,700	8	10,200	11	1,000	1	90,600
1999	32,800	64	2,300	5	14,700	29	1,300	3	51,000
2000	180,300	83	5,700	3	29,400	13	2,700	1	218,100
2001	132,900	71	12,100	6	38,600	21	3,700	2	187,400
2002	92,800	58	10,500	7	24,600	15	2,400	1	160,800 ^{a/}
2003	149,400	78	9,700	5	30,000	16	2,800	1	191,900
2004 ^{b/}	47,200	60	4,000	5	25,600	32	2,300	3	79,100

a/ Inriver run size includes a USFWS estimate of 30,550 fish (19% of the run) that died prior to spawning in September 2002.

b/ Preliminary.

Escapement and Management Performance

Threatened California North Coast Chinook

Historical indices of spawner abundance, or actual spawning escapement estimates, for chinook salmon in California coastal streams outside of the Klamath River Basin are limited to cursory, nonsystematic surveys of one tributary of the Mad River and two tributaries of the Eel River (Appendix B, Table B-7).

The 2004 preliminary postseason estimate of the Klamath River fall chinook age-4 ocean harvest rate is 52.4%, which exceeds the preseason forecast of 15.0% , and the 16% NMFS ESA consultation standard for California Coastal chinook.

Klamath River Fall Chinook

The 2004 postseason river run size estimate (preliminary) for Klamath River fall chinook salmon is 79,000 adults compared to the preseason predicted ocean escapement (river run size) of 96,800 adults. The escapement to natural spawning areas of 24,300 adults, which is less than the preseason prediction of 35,000 adults. The estimated number of hatchery returns is 23,000 adults. Table II-2, Figure II-2, and Appendix B Table B-4 present historical harvest and escapement data for Klamath River fall chinook.

Spawning escapement to the upper Klamath River tributaries (Salmon, Scott, and Shasta Rivers), where spawning is only minimally affected by hatchery strays, totaled 1,800 adults, a value less than the 2003 escapement of 19,400 adults. The Shasta River has historically been the most important chinook salmon spawning stream in the upper Klamath River, supporting a spawning escapement of 30,700 adults as recently as 1964, and 63,700 in 1935 (Appendix B, Table B-6). The escapement in 2004 was 833 adults.

Allocation

The coded-wire tag (CWT) data necessary to evaluate whether the Council's harvest allocations were met are not available at this time.

OREGON COAST CHINOOK STOCKS

Oregon coast chinook stocks include all fall and spring stocks from Oregon streams south of the Columbia River. These stocks are categorized into two major subgroups based on ocean migration patterns. Although their ocean harvest distributions overlap somewhat, they have been labeled as either north or south/local migrating. North migrating chinook stocks include stocks north of and including the Elk River, with the exception of Umpqua River spring chinook. South/local migrating chinook stocks include Rogue River spring and fall chinook, Umpqua River spring chinook, and fall chinook from smaller rivers south of the Elk River.

Based on CWT analysis, the populations from ten major north Oregon coast (NOC) river systems from the Nehalem through the Siuslaw rivers are harvested primarily in PSC ocean fisheries off British Columbia and SEAK, and to a much lesser degree, in Council area fisheries off Washington and Oregon, and terminal area fisheries. Analysis of CWTs indicates the population from five major mid-Oregon coast (MOC) systems from the Coos through the Elk Rivers are harvested primarily in ocean fisheries off British Columbia, Washington, and Oregon, with minor catches in California fisheries. South/local stocks are important contributors to ocean fisheries off Oregon and northern California. Another central Oregon stock, Umpqua River spring chinook, contributes primarily to ocean fisheries off Oregon and California, and to a lesser degree, off Washington, British Columbia, and southeastern Alaska.

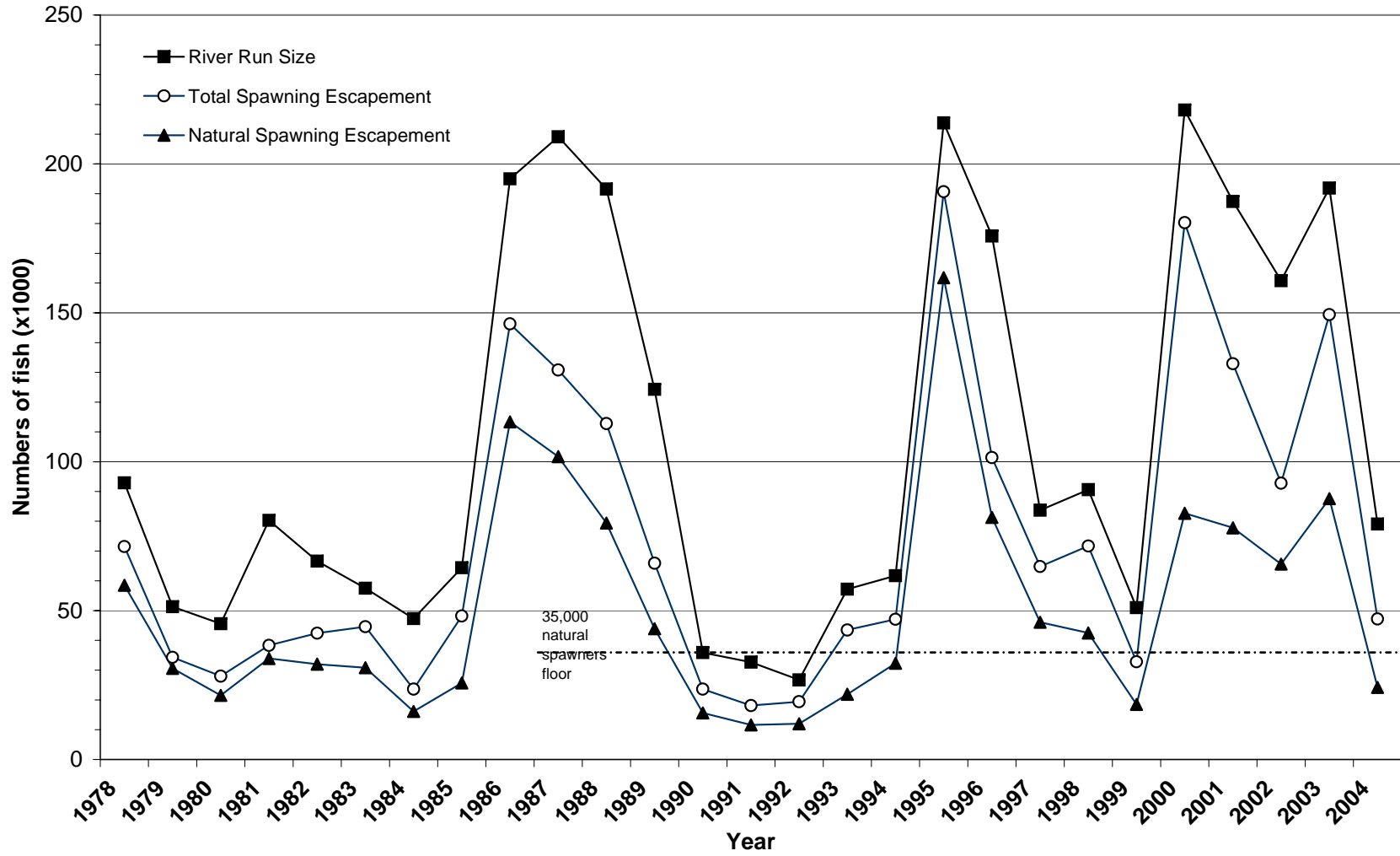


Figure II-2. Klamath River adult fall chinook salmon river return and spawning escapements, 1978-2004.

Management Objectives

The conservation objective for Oregon coast salmon is an aggregate of 150,000 to 200,000 natural adult spawners as indicated by peak spawner counts of 60 to 90 fish per mile in standard index surveys. Preseason abundance estimates are not developed for this stock, and it has not been of critical management concern. Constraints for OCN coho, California coastal chinook, and Klamath River fall chinook management objectives generally result in reduced ocean fishery impacts on Oregon south/local migrating chinook stocks. Humbug Mountain to Cape Falcon chinook fisheries have a minor impact on most of the stocks originating from the north Oregon coast, which have a northerly marine distribution pattern.

Regulations to Achieve Objectives

The areas of primary management concern for ocean fisheries impacting Oregon coast chinook vary between the north and south/local migrating stocks, although there is some overlap. There are no preseason abundance estimates were not available for Oregon coast chinook, however, based on postseason abundance indicators, Council-area fisheries impacts on this stock have not significantly affected objective achievement in recent years. Under the 2004 regulations, the STT expected the aggregate conservation objective for this stock to be met with the restraints required for north California coast chinook and OCN coho.

Inside Harvest

Inside recreational harvest of fall and spring chinook occurs in most Oregon coastal estuaries and rivers. Complete estimates of the 2004 recreational chinook harvest are not available at this time. Historical estimates of the recreational harvest of fall and spring chinook, derived from Oregon Department of Fish and Wildlife (ODFW) salmon and steelhead angler catch record cards are reported in Table II-3.

Escapement and Management Performance

Actual escapement is not estimated for this stock aggregate. Achievement of an aggregate 150,000 to 200,000 naturally spawning adults is assessed through indices (e.g., stream surveys, dam counts, etc.). The escapement goal is equivalent to peak spawner index counts of 60 to 90 adults per mile in nine index streams and includes both spring and fall chinook. Peak spawner index counts are based on traditional non-random surveys. ODFW is developing alternate methodologies for establishing escapement goals for several fall chinook PSC indicator stocks. Escapement goals and assessment for these stocks will likely change upon completion of this process.

North Migrating Chinook

An index of adult spawners (peak count per index mile) in nine standard streams is used to measure natural spawner escapement trends for north migrating fall chinook. Data have been collected since about 1950 for most systems. Overall peak chinook adult index spawner counts in 2004 are preliminarily estimated at 209 adults per mile, exceeding the goal range of 60 to 90 adults per mile (Table II-4, Figure II-3).

South/Local Migrating Chinook

Standard fall chinook spawning index escapement data for the smaller southern Oregon coastal rivers (south of the Elk River) are available for the Winchuck, Chetco, and Pistol Rivers (Appendix B, Table B-8). Rogue River carcass counts are used as a trend indicator of escapement for naturally produced fall chinook (Table II-4). In addition, two trend indicators of escapement for naturally produced spring chinook are utilized, (1) Rogue River counts at Gold Ray Dam, and (2) Umpqua River counts at Winchester Dam (Table II-4).

Escapement based on these indicators has been stable or increasing since the early 1990s. (Figures II-3 and II-4).

The aggregate Oregon coast goal of 150,000 to 200,000 naturally spawning chinook adults was probably exceeded in 2004.

Coastal Hatchery Chinook

Preliminary estimates of total fall and spring chinook returns to Oregon coastal hatcheries in 2004 are 2,600 and 19,700 adults, respectively (Table II-3). Hatchery egg-take goals are expected to be met at all stations.

TABLE II-3. Oregon coastal spring and fall chinook hatchery return and harvest in estuary and freshwater fisheries. (Page 1 of 1)

Year	Return to Facilities			Estuary and Freshwater Harvest ^{b/}	
	Public Hatchery ^{a/}		Private	Spring	Fall
	Spring	Fall	All		
THOUSANDS OF CHINOOK					
1976	2.9	0.5	-	13.5	24.3
1977	2.4	4.2	-	13.8	35.6
1978	4.4	1.6	-	13.1	43.4
1979	7.0	2.0	0.4	16.4	31.2
1980	7.9	1.8	3.4	11.9	22.7
1981	2.5	1.8	5.1	11.2	30.0
1982	4.1	2.3	12.1	11.6	25.1
1983	3.9	4.0	6.1	4.9	21.5
1984	5.6	3.3	6.3	4.1	29.0
1985	8.7	3.5	34.6	9.0	29.5
1986	30.6	5.8	70.8	17.3	36.5
1987	22.8	7.1	38.7	20.2	54.8
1988	22.0	6.4	25.0	28.9	61.4
1989	32.7	4.3	14.7	23.7	53.9
1990	6.3	3.4	7.8	15.5	39.9
1991	5.4	3.1	4.1	11.1	47.7
1992	2.7	4.4	-	8.0	44.7
1993	10.6	2.8	-	16.4	54.7
1994	4.8	3.0	-	9.2	46.7
1995	55.0	3.3	-	31.1	62.0
1996	26.7	3.6	-	25.6	66.0
1997	29.1	2.0	-	14.7	43.1
1998	11.0	2.6	-	8.2	37.3
1999	18.1	3.3	-	8.2	35.2
2000	24.5	3.1	-	10.4	39.6
2001	26.8	5.7	-	16.1	62.0
2002	24.7	2.9	-	30.8	76.1
2003	17.2	3.9	-	NA	NA
2004 ^{c/}	19.7	2.6	-	NA	NA

a/ Adults only.

b/ Freshwater harvests are derived from ODFW salmon/steelhead angler catch record card information and represent fish larger than 24 inches (i.e., adults). Includes both hatchery and natural fish.

c/ Preliminary.

TABLE II-4. **Spawner indices** for naturally produced **Oregon coastal fall chinook** and south migrating/localized spring chinook.^{d/}
(Page 1 of 1)

Year	Fall Chinook Spawner Indices		South/local Migrating Spring Chinook Spawner Indices	
	North Migrating Peak Count Adults Per Mile	Rogue River	Rogue River Gold Ray	
		(South/local migrating) Adult Carcass Counts (thousands)	Dam Counts (thousands)	Umpqua River Winchester Dam Counts (thousands)
1976	49	-	20.4	5.5
1977	71	1.1	14.9	6.8
1978	73	9.2	40.2	5.4
1979	81	8.0	29.3	5.5
1980	89	2.2	24.2	5.7
1981	82	4.4	12.8	4.6
1982	90	2.8	23.2	6.5
1983	42	1.6	9.8	3.0
1984	98	2.0	8.4	4.5
1985	132	5.5	27.8	7.5
1986	109	16.9	40.4	8.3
1987	121	29.1	37.4	8.3
1988	214	20.7	38.8	7.8
1989	137	7.4	7.9	7.6
1990	121	1.9	18.0	5.5
1991	150	2.8	9.3	2.4
1992	138	2.3	2.2	2.5
1993	63	5.4	12.6	3.8
1994	125	7.4	3.6	2.8
1995	101	4.0	20.7	6.2
1996	147	1.7	10.3	4.3
1997	105	1.6	9.6	3.3
1998	98	2.6	3.7	4.0
1999	124	2.5	6.0	2.8
2000	85	3.4	3.4	3.4
2001	203	6.4	3.0	6.1
2002	268	12.1	6.9	6.8
2003	297	16.5	18.9	7.9
2004 ^{e/}	209	5.3 ^{f/}	13.3	5.4

d/ North migrating peak counts are taken on nine miles of standard index surveys over nine river systems (see Appendix B, Table B-11 for individual system counts). Complete carcass counts are listed in Appendix B, Table B-10. Complete counts for Gold Ray and Winchester dams are listed in Appendix B, Table B-9.

e/ Preliminary.

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

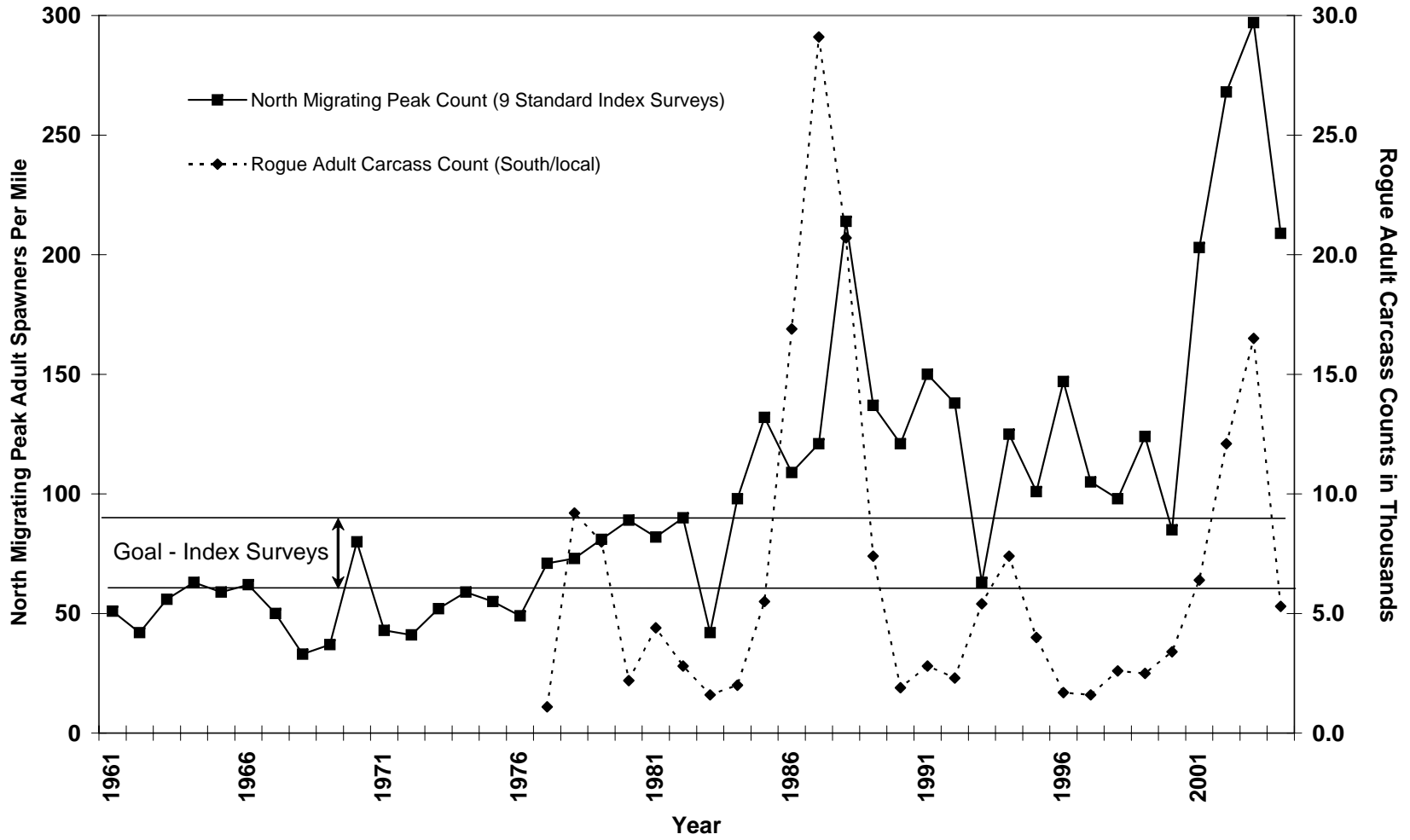


Figure II-3. Spawner indices for naturally produced Oregon coastal fall chinook.

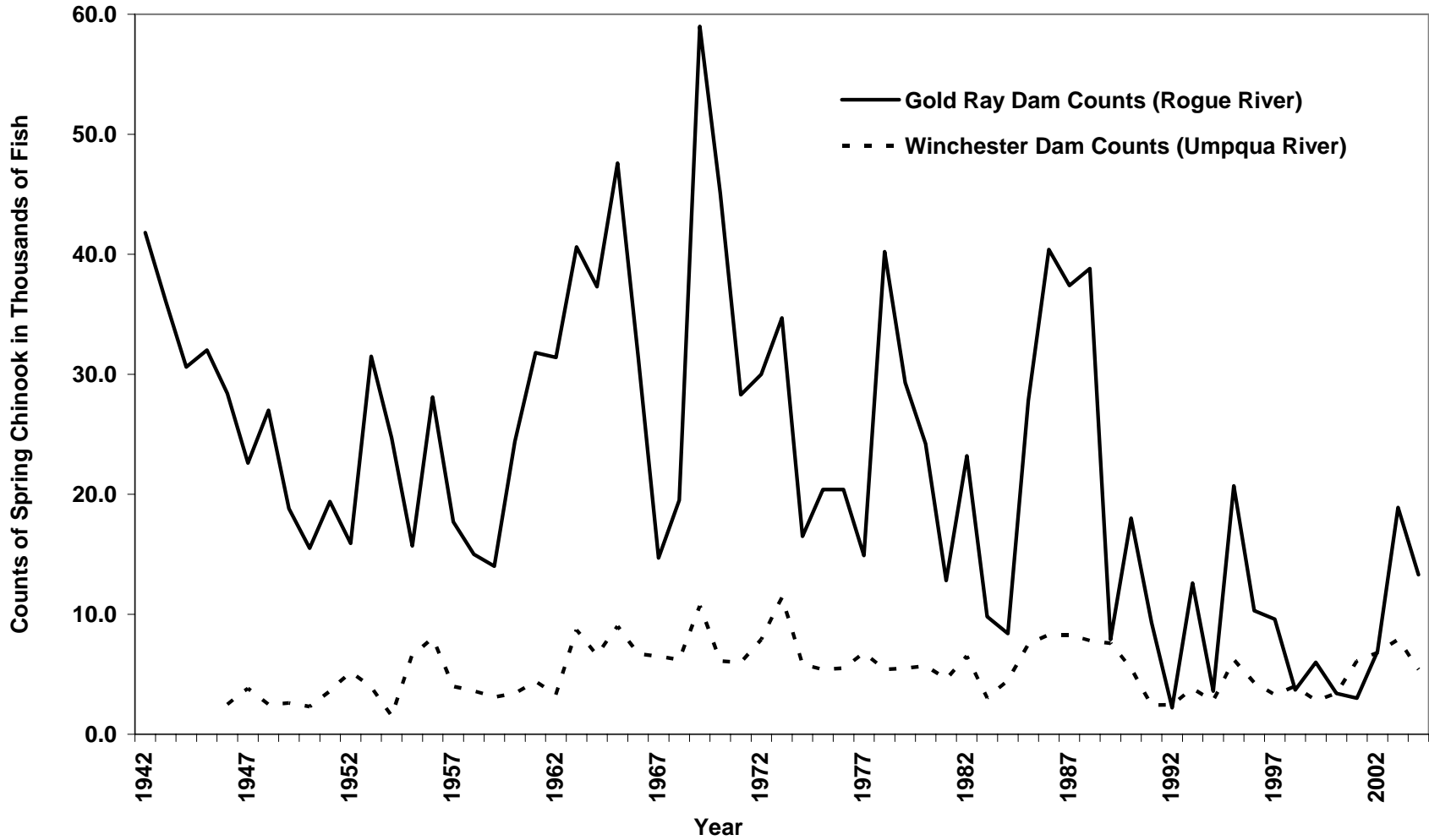


Figure II-4. Escapement indices for naturally produced Oregon coastal south/local migrating spring chinook, 1942-2004.

COLUMBIA RIVER BASIN CHINOOK STOCKS

Columbia River Basin chinook salmon stocks include fall, summer, and spring stocks. NMFS has listed five chinook ESUs within the Columbia Basin under the ESA, (1) Snake River fall listed as threatened April 1992; (2) Snake River spring/summer listed as threatened April 1992; (3) upper Columbia River spring listed as endangered March 1999; (4) lower Columbia River listed as threatened March 1999; and (5) upper Willamette River spring listed as threatened March 1999.

The assessment below covers five major stock groups of Columbia River Basin fall chinook: lower river hatchery tule stock (LRH) and lower river wild bright stock (LRW), both of which are part of the ESA-listed lower Columbia River chinook ESU; Spring Creek Hatchery tule stock (SCH); upriver bright stock (URB), which includes the ESA-listed Snake River fall chinook ESU; and mid-Columbia bright hatchery stock (MCB). Management details for Columbia River spring and summer chinook stocks are not discussed, since Council-managed ocean salmon fisheries have very limited impacts on these stocks (less than a 2% exploitation rate in base-period fisheries). Appendix B, Tables B-12 through B-19 contain historical harvest and escapement data for fall, summer, and spring stocks. Appendix B, Table B-20 summarizes catch information for all three races of chinook in the Columbia Basin. Additional information on these stocks can be found in *Status Report - Columbia River Fish Runs and Fisheries* published annually by the joint staffs of ODFW and the Washington Department of Fish and Wildlife (WDFW).

Management Objectives

Council-area fisheries north of Cape Falcon in 2004 were managed to access near record returns of URB and SCH stocks while meeting the NMFS ESA consultation standards for the ESA-listed lower Columbia River chinook ESU and Snake River fall chinook ESU. The standard for the ESA-listed lower Columbia River chinook ESU was a total (ocean plus inriver) AEQ exploitation rate on ESA-listed natural tules of no more than 49%. For preseason modeling, the estimated total exploitation rate on Coweeman natural tules was used as a surrogate for the rate on all naturally spawning tules. The standard for the Snake River fall chinook ESU is no less than a 30% reduction in the Snake River Fall Index (SRFI) from the 1988 through 1993 base period exploitation rate for all ocean fisheries combined.

Inside Harvest

In recent years, fall chinook in Columbia River fisheries have been managed under the guidance of annual management agreements among the *U.S.* versus *Oregon* parties. The Columbia River Fishery Management Plan expired on December 31, 1998. In 2004, the fall fisheries were managed for a 30% reduction in the inriver harvest rate of Snake River wild fall chinook relative to the 1988 through 1993 base period, as represented by a 31.29% harvest rate of the aggregate URB return. Fisheries were also constrained to keep the total estimated AEQ exploitation rate on naturally spawning Coweeman River tules at or below 49%.

Harvestable surplus was projected for all major fall stocks in 2004, however, the postseason fall chinook run reconstruction was not completed in time for this report. The preliminary catch estimate for the non-Indian commercial fishery was 45,900 chinook, which included 12,500 chinook in Select Area (terminal) fisheries. The preliminary catch estimate for the treaty Indian fishery was 123,600 chinook. The preliminary catch estimate for the recreational fisheries included 16,100 fall chinook in the Buoy 10 fishery, 18,000 in the mainstem fishery below Bonneville Dam, and 7,200 in the Hanford Reach fishery above McNary dam (Appendix B, Table B-20).

Escapement and Management Performance

All Columbia River fall chinook were projected to meet their FMP objectives (Table II-5). Appendix B, Tables B-12 through B-20 contain more detailed historical escapement data for most Columbia River fall, summer, and spring stocks.

The postseason fall chinook run reconstruction was not completed in time for this report. Preliminary estimates based on inseason run updates are 101,000 LRH; 24,200 LRW; 180,000 SCH; 367,700 URB; and 100,000 MCB. The total ocean escapement of the five stocks was 775,200 fish, which was the second largest escapement since 1942. Figure II-5 shows the river mouth return of these stock groups from 1976-2004.

Columbia River mainstem fisheries for fall chinook in 2004 were managed for at least a 30% harvest rate reduction from the 1988 to 1993 average harvest rate on URB fall chinook to protect ESA-threatened Snake River wild fall chinook. This goal was achieved, with a preliminary URB harvest rate estimate of 21.77%, or a 49% reduction from the 1988 through 1993 base-period average URB harvest rate (44.7%).

No specific escapement goal has been established for the ESA-threatened Snake River wild fall chinook stock. Because nearly all spawning of this stock occurs upstream from Lower Granite Dam, establishing a spawning escapement goal at Lower Granite Dam would be appropriate. In the *Proposed Recovery Plan for Snake River Salmon*, NMFS has proposed a delisting goal for Snake River fall chinook that provides for an eight-year (approximately two generation) geometric mean of at least 2,500 natural spawners in the mainstem Snake River annually; the eight-year mean through 2003 is 1,271. The total adult fall chinook count at Lower Granite Dam in 2004 was 14,960 compared to 11,101 fish in 2003, with a significant portion being returns from recent supplementation programs. An estimate of wild Snake River fall chinook escapement in 2004 was not ready in time for this report. Historical estimates of the number of adult wild Snake River fall chinook counted at Lower Granite Dam are provided in Appendix B, Table B-18.

WASHINGTON COASTAL CHINOOK STOCKS

Washington coastal chinook stocks include all fall, summer, and spring stocks from coastal streams north of the Columbia River through the western Strait of Juan de Fuca (west of the Elwha River). This complex consists of several natural stocks, generally of small to medium-sized populations, and some hatchery production (primarily Willapa Bay and Quinault River). Coastal stocks are not impacted significantly by Council fisheries.

Management Objectives

Spawning escapement goals for natural stocks managed within this complex, established in U.S. District Court by WDFW and the treaty Indian tribes, are recognized in the Council's FMP conservation objectives. Objectives for Grays Harbor and the North Coast river systems have been established pursuant to the U.S. District Court order in *Hoh versus Baldrige*. However, annual natural spawning escapement targets may vary from the FMP conservation objectives if agreed to by WDFW and the treaty Indian tribes under the provisions of *Hoh versus Baldrige* and subsequent U.S. District Court orders. After agreement is reached on the annual targets, ocean fishery escapement objectives are established for each river, or region of origin, which include provisions for treaty Indian allocation and inside non-Indian fishery needs.

TABLE II-5. Performance of chinook salmon stocks in relation to 2004 conservation objectives (preliminary data). (Page 1 of 2)

System and Stock	2004 FMP Conservation Objective	Achievement
Sacramento River Chinook		
Fall	122,000-180,000 natural and hatchery adults.	283,146 adult fall chinook, 157% of the upper end of the escapement goal range.
Winter (Endangered)	Duration and timing of commercial and recreational fisheries south of Point Arena not to change substantially relative to 2000 and 2001.	Objective met, included delaying opening of recreational fishery between Point Arena and Pigeon Point until April 17, and between Pigeon Point and the U.S./Mexico border until April 3.
Spring (Threatened)	Same objective as for winter chinook.	Objective met-see winter chinook achievement.
California North Coast Chinook		
Klamath River Fall	Inriver run size target of 96,800 adults to provide an expected escapement of 35,000 natural adult spawners.	Run size 80,000 adults, 83% of target; 25,200 natural area spawners, 72% of target.
California Coastal (Threatened)	No greater than 16% ocean harvest rate on age-4 Klamath River fall chinook.	52.4% ocean harvest rate on age-4 Klamath River fall chinook; objective not met.
Oregon Coast Chinook		
North and South/Local Migrating Stocks	150,000-200,000 natural adult spawners (equivalent to peak spawner index counts of 60-90 adults per mile).	209 natural adult spawners per mile, more than twice the upper and of the aggregate stock index range.
Columbia River Basin Fall Chinook		
LRW (Component of threatened lower Columbia River chinook ESU)	MSY objective of 5,700 natural North Lewis River adult spawners (jeopardy standard not defined).	Preliminary escapement estimates meet the escapement objective.
Lower Columbia natural tules (Component of threatened lower Columbia River chinook ESU)	Total (ocean plus inriver) AEQ exploitation rate on ESA-listed Coweeman River natural tules of no more than 49%	Preseason projection of less than 49%. No postseason estimate can be made at this time.
LRH	14,100 adult hatchery spawners.	29,600 adult hatchery spawners, 210% of goal.
SCH	7,000 adult hatchery spawners.	69,700 adult hatchery spawners, 996% of target.
MCB	No FMP objective; CRFMP target of 7,750 hatchery adults.	5,700 adult hatchery spawners, 74% of CRFMP target.
URB	43,500 natural and hatchery adults above McNary Dam, plus meet treaty Indian obligations. <u>U.S. v. Oregon</u> parties agreed to a target of 45,000 adults between 1991 and 1993, and 46,000 after 1993.	168,900 natural and hatchery adults over McNary Dam, 388% of MSY target in FMP.
Snake River Fall Chinook (Threatened; component of URB)	SRFI #0.70 for all ocean fisheries combined (i.e., no less than a 30% reduction from the 1988-1993 base period exploitation rate).	Preseason SRFI projection of less than 0.70. No postseason estimate can be made at this time.
Washington Coastal Chinook		
Fall	Natural spawner escapement objectives as provided in state-tribal agreements; meet hatchery egg-take goals and meet treaty Indian obligations.	Based on preliminary estimates, escapement objectives were met for Quinault hatchery, Queets, Hoh, Quillayute, Willapa Bay, and Grays Harbor natural stocks; and not met for Willapa Bay hatchery stock.
Spring/Summer	Natural spawner escapement objectives as provided in state-tribal agreements; meet hatchery egg-take goals and meet treaty Indian obligations.	Based on preliminary estimates, escapement objectives met for Hoh spring/summer natural, and Grays Harbor spring natural: not met for Queets spring/summer natural, and Quillayute spring/summer natural.

TABLE II-5. Performance of chinook salmon stocks in relation to 2004 conservation objectives (preliminary data). (Page 2 of 2)

System and Stock	2004 FMP Conservation Objective		Achievement	
Puget Sound Chinook				
(Threatened)	Minor part of Washington ocean harvest; Council ocean management not directed at these stocks. Adult equivalent exploitation rate standard developed for some stocks:		Postseason estimates not available. Preseason predictions of adult equivalent exploitation rates and spawner objectives were:	
	Exploitation Rate	Spawner Escapement	Exploitation Rate	Spawner Escapement
○ Nooksack spring	○ 7% So U.S.	-	6%	570
○ Skagit summer/fall	○ 50% Total	-	38%	19,929
○ Skagit spring	○ 38% Total	-	33%	1,183
○ Stillaguamish summer/fall	○ 24% Total	-	23%	1,891
○ Snohomish summer/fall	○ 18% Total	-	29%	9,341
○ Lake Wash. summer/fall	○ 31% Total	-	43%	414
○ White River spring	○ 20% Total	5,500	19%	1,705
○ Green River summer/fall	○ N/A	-	62%	5,898
○ Puyallup summer/fall	○ 50% Total	1,100	50%	2,149
○ Nisqually summer/fall	○ N/A	1,200	-	2,079
○ Skokomish summer/fall	○ N/A	-	-	1,262
○ Mid-Hood Canal fall	○ 13% So U.S.	-	12%	298
○ Dungeness spring	○ 5% So US	-	5%	461

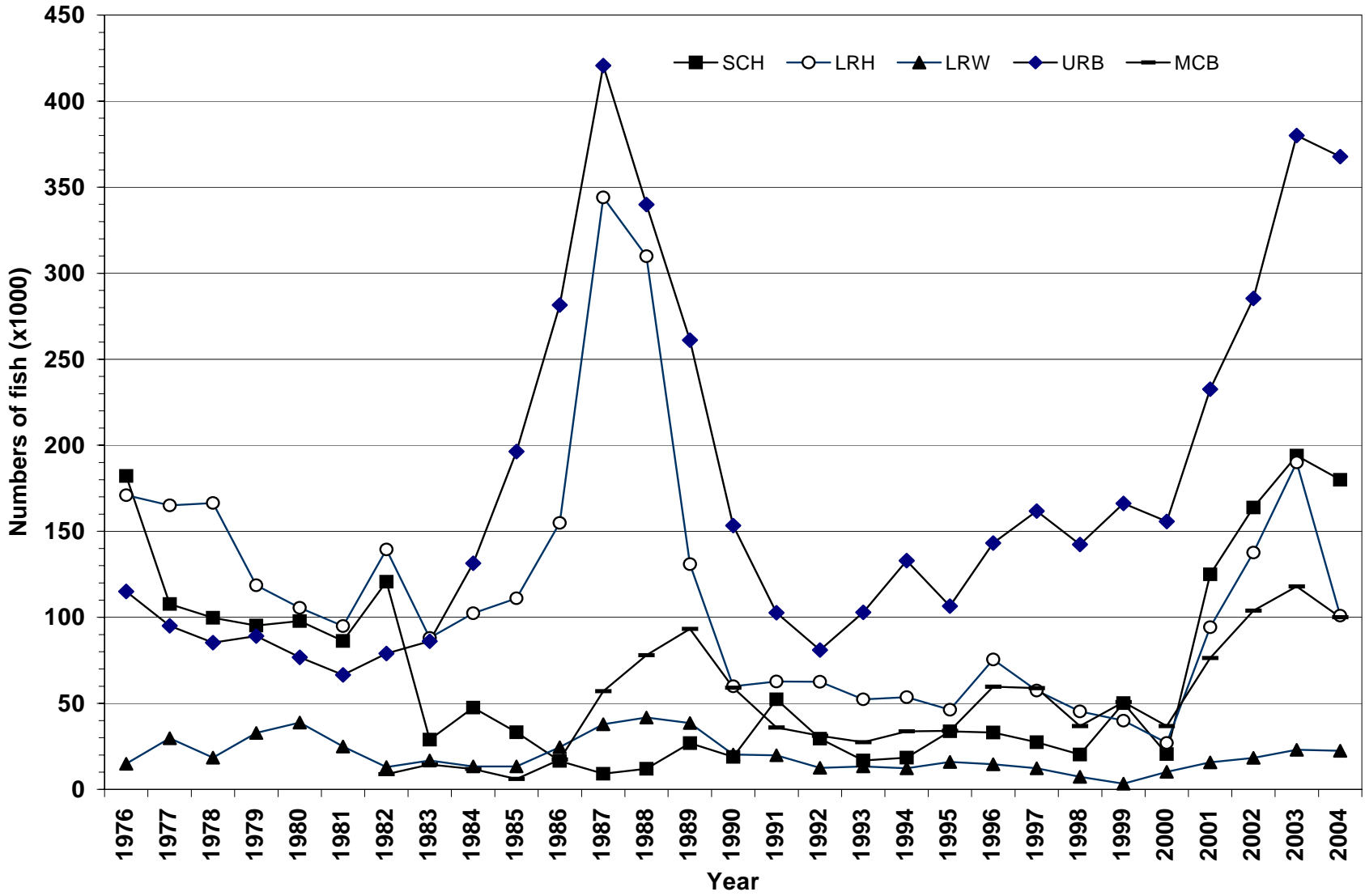


Figure II-5. Columbia River mouth adult returns of the five major fall chinook stock groups, 1976-2004.

Regulations to Achieve Objectives

Stocks in this complex tend to range farther north than most Columbia River stocks and, while present in fisheries from Cape Falcon to southeast Alaska, tend to have limited impacts in Council-area ocean fisheries. Preseason abundance estimates are generally not available for Council management, and these stocks qualify as exceptions to the Council's over fishing criteria due to generally low fishery impacts.

Willapa Bay Chinook

Inside Harvest

Run size, harvest, and escapement data for Willapa Bay fall chinook are presented in Appendix B, Table B-23.

No chinook directed non-Indian gillnet fishery was conducted during July and the first half of August 2004. This fishery is commonly referred to as the "summer dip-in" fishery; it occurs with such irregularity because historically, it was dependent on Columbia River tule abundance. This fishery was generally assumed to harvest Columbia river tule stocks in a mix similar to adjacent ocean area catches; however, in light of recent catch composition information (>70% local Willapa Bay and Grays Harbor origin stock) this assumption is questionable.

The 2004 preseason forecast of chinook returning to Willapa Bay was 18,831 fish. Concerned by the low forecast abundance of local Willapa chinook, the one-day update fishery that typically occurs in late August was eliminated in order to maximize harvest of hatchery coho. Chinook harvest in non-targeted gillnet fisheries during 2004 totaled 4,345 fish based on Quick Reporting data. Recreational fisheries in the marine waters of Willapa Bay were open July 27, 2004 through January 31, 2005. Recreational salmon fisheries in tributaries to Willapa Bay varied in duration but were generally open August 1, 2004 through January 31, 2005. Two adult chinook were allowed to be harvested daily and single-point, barbless hooks were required in all areas. Recreational harvest estimates are not yet available for 2004.

Escapement and Management Performance

During 2004, chinook returning to hatcheries in the Willapa Bay watershed totaled 7,550 fish. Based on current hatchery production, this return was sufficient to achieve the goal of 9,800 total chinook escapement to Willapa Bay hatchery facilities.

The escapement goal for naturally spawning chinook in Willapa Bay is 4,350 adults. An estimate of the 2004 natural spawning escapement is not yet available, but the 2003 escapement was 9,699 chinook.

Grays Harbor Chinook

Inside Harvest

Run size, harvest, and escapement data for Grays Harbor chinook are presented in Appendix B, Table B-25.

Net fisheries were conducted by the Quinault Indian Nation and the Chehalis Tribe targeting spring chinook. The Quinault Indian Nation harvested 54 spring chinook in 2004. No catch estimate is available for the Chehalis Tribe. A recreational season was conducted on the Chehalis River, but catch estimates are not yet available.

No summer non-Indian gillnet fishery directed at non-local chinook stocks occurred in 2004. Retention of fall chinook was not allowed during the coho-directed non-Indian gillnet fishery in 2004; a small number of chinook (105) were harvested during the non-Indian chum-directed fishery. In the non-Indian recreational fishery, retention of one adult chinook was allowed in Marine Area 2-2 (September 16 through November 30), the lower Chehalis River downstream of the bridge crossing at the town of Porter (October 1 through November 30), and in the Humptulips River downstream of the Highway 101 bridge crossing (October 16 through November 30). Recreational fisheries were closed to chinook retention beginning December 1, 2004. Recreational harvest estimates are not yet available. The Quinault Indian Nation gillnet fishery harvested a total of 3,498 fall chinook.

Escapement and Management Performance

Chehalis River spring chinook are of natural origin and managed for an escapement goal of 1,400 adults. The 2004 terminal run forecast for spring chinook was 2,156 adult fish; an escapement estimate for 2004 is not currently available, but the escapement in 2003 was 1,913 chinook.

Grays Harbor fall chinook are managed for a natural spawning escapement goal of 14,600 adults. The 2004 Grays Harbor fall chinook forecast was 18,367 wild and 1,999 hatchery adults; an escapement estimate for 2004 is not currently available, but the 2003 escapement was 19,432 chinook. There is no management goal for Grays Harbor fall chinook hatchery production.

Quinault River Chinook

Inside Harvest

Historical terminal gillnet harvest data for Quinault River chinook stocks are presented in Appendix B, Table B-27.

A run of natural spawning spring/summer chinook enters the river from April through July. The spring/summer chinook run is typically small and any harvest is taken incidentally during fisheries directed at sockeye and steelhead. A total of 142 spring/summer chinook were harvested in 2004.

The 2004 harvest of Quinault River fall chinook was mostly hatchery origin fish taken in September and October. The treaty Indian net catch totaled 10,661 fall chinook.

Escapement and Management Performance

Quinault fall chinook are managed for hatchery production. The 2004 fall chinook spawning escapement estimate is not yet available. Hatchery egg-take goals for fall chinook were obtained at the tribal facilities. In addition, fall chinook eggs to supplement hatchery rack returns at the U.S. Fish and Wildlife Service (USFWS) Quinault National Fish Hatchery were also taken at the tribal facility.

Queets River Chinook

Inside Harvest

Historical terminal run size, catch, and escapement data for Queets River spring/summer and fall chinook are presented in Appendix B-29 and B-30, respectively.

The treaty Indian gillnet harvest of spring/summer chinook was limited to incidental catch in two ceremonial and subsistence fisheries. The first was a fishery targeted on dip-in Quinault River sockeye, and the other

was a one-day fishery targeted on summer steelhead. Incidental harvest was nine chinook during the sockeye fishery and six chinook during the one-day steelhead fishery. The non-treaty inriver recreational fishery was closed.

Fall chinook were harvested during a fishery managed to target hatchery and wild coho during September and early October, and hatchery and wild chinook during late October and early November. The fishery started September 5 and followed a schedule set in a preseason management agreement between the Quinault Indian Nation and WDFW. The treaty Indian gillnet fishery harvested 1,248 fall chinook, including 20 fish taken for ceremonial and subsistence use. Recreational fisheries operated with standard bag limits and schedules in the Queets, Clearwater, and Salmon Rivers. The 2004 catch estimate of 201 for the inriver recreational fishery is preliminary.

Escapement and Management Performance

The preliminary 2004 spawning escapement estimate for Queets River spring/summer chinook is 604 adults, approximately 14% below the floor escapement goal of 700, but a substantial improvement over the 2003 escapement of 189 fish.

The preliminary spawning escapement estimate for Queets River natural fall chinook is 3,523 adults, well above the minimum goal of 2,500 adult spawners established for this stock. The preliminary hatchery escapement estimate is 2,076, all of which spawn naturally, but are not included in the naturally produced spawner escapement estimate of 3,523.

Hoh River Chinook

Inside Harvest

Historical terminal run size, catch, and escapement data for Hoh River spring/summer and fall chinook are presented in Appendix B, Tables B-32 and B-33, respectively.

The spring/summer chinook preseason abundance forecast was for a wild run size of 1,450. The Hoh Tribe and Washington Department of Fish and Wildlife (WDFW) agreed upon terminal fisheries expected to harvest 31% of the terminal wild run size as well as dip-in hatchery chinook from the Quillayute River system. The escapement was expected to be approximately 1,001 wild chinook. The tribal fishery operated at one day per week from week 19 (week of May 3) to week 35 (week of August 23). The fishery took 421 chinook, including an estimated 6 taken during separately scheduled ceremonial fishing. Results of mark sampling indicated that 65 of these were of Quillayute and Queets hatchery origin. Scale samples remain to be analyzed. The recreational fishery, targeting 15.5% of the run, was open May 16 through August 31, Wednesdays through Sundays, one adult per day from the mouth to Willoughby Creek. A catch estimate is not yet available for the recreational fishery.

Hoh River fisheries on fall chinook were based on an expectation of a terminal run size of 4,240, allowing for a harvest rate of 40%. The spawning escapement was expected to be 2,544. The tribal fishery targeted 25% of the terminal run. In order to develop an alternative mesh size limit model for future applications, 2004 regulations required 6" maximum stretch mesh from weeks 43 to 46, the same as the 2003 season regulations. The tribal gillnet fishery was scheduled for two days per week from weeks 36 (week of August 30) through 48 (week of November 22), except for three days per week during weeks 42 and 44. The tribal fishery caught approximately 845 chinook (785 estimated to be wild). The non-Indian recreational fishery extended from September 1 through November 30, with the area below Willoughby Creek open and a daily-bag-limit of six salmon, two of which could be adults. The portion of the river between Willoughby Creek and Morgan's Crossing opened October 16 to reduce impacts on spawning spring/summer chinook in

that reach. The river above Morgan's Crossing did not open for recreational salmon fishing. A catch estimate is not yet available for the recreational fishery.

Escapement and Management Performance

The spring/summer chinook run returned in numbers that appeared to be significantly greater than the preseason forecast. The preliminary spawning estimate for Hoh spring/summer chinook, based on the expected harvest rate, is 1,829 adults, well above the 900 fish escapement floor for this stock.

Based on the tribal gillnet catch and expected harvest rate, the fall chinook terminal run size appears to be below the level anticipated preseason. The preliminary spawning escapement estimate for Hoh fall chinook is 1,845, above the 1,200 fish escapement floor established for this stock.

Quillayute River Chinook

Inside Harvest

Historical terminal run size, catch, and escapement data for Quillayute River spring, summer, and fall chinook are presented in Appendix B, Tables B-35 and B-36 respectively. Spring and summer chinook are currently managed separately, but data for both are combined in Table B-35. All hatchery origin fish are considered to be spring chinook, and all natural spawners and tribal broodstock collections are considered to be summer chinook.

The recreational and tribal fisheries for spring and summer chinook were established by preseason agreement between WDFW and the Quileute Tribe. The total tribal catch for 2004 was 227 spring and 43 summer chinook, including an estimated 50 chinook for ceremonial and subsistence. Estimates of recreational spring and summer chinook harvest are not yet available.

The total 2004 Quileute Tribal harvest of fall chinook was 1,633, including 100 taken for ceremonial and subsistence use. An estimate of the recreational catch is not yet available.

WDFW required release of unmarked chinook during July and August to reduce impacts of the recreational fishery on the natural summer chinook stock. The fall recreational fishery from September through November proceeded with normal bag limits and schedule. The Quileute Tribe did not have a closure in their fishery this year, but as in past years, reduced their fishery to 29 hours per week during July and August to reduce impacts to summer chinook.

Escapement and Management Performance

The management agreement called for an escapement goal of 200 hatchery spring chinook. The actual rack return was 763, which exceeded hatchery requirements.

The summer chinook run is managed to achieve an escapement of 1,200 (adults, jacks, and broodstock collection combined). The preliminary estimated natural spawning summer chinook escapement of 745 is under the escapement goal.

Terminal area fisheries on fall chinook are managed for a target 40% harvest rate, with a minimum escapement level of 3,000 adults. The preliminary escapement estimate of 3,583 fall chinook exceeds the minimum escapement goal.

PUGET SOUND CHINOOK STOCKS

Puget Sound chinook stocks include all fall, summer, and spring stocks originating from U.S. tributaries in Puget Sound and the eastern Strait of Juan de Fuca (east of Salt Creek). This stock complex consists of numerous natural chinook stocks of small to medium sized populations and significant hatchery production. The Puget Sound ESU was listed as threatened in March 1999.

Management Objectives

The stocks within this complex and their respective FMP conservation objectives were established in U.S. District Court by WDFW and the treaty Indian tribes. The conservation objectives for stocks managed primarily for natural production were developed by a State/Tribal Management Plan Development Team following the Boldt Decision, and were based on "the adult spawning population that will, on the average, maximize biomass of juvenile outmigrants subsequent to incubation and freshwater rearing under average environmental conditions." The objectives were estimated for the average spawning escapement during periods thought to represent spawner abundances that provided maximum production. The objectives for stocks managed for artificial production are based on hatchery escapement needs. Annual management targets (expected hatchery returns plus natural escapement) for specific rivers or regions of origin may vary from the FMP conservation objectives by following fixed procedures established in U.S. District Court as outlined in "Memorandum Adopting Salmon Management Plan" (*U.S. versus Washington*, 626 F. Supp. 1405 [1985]).

NMFS has developed rebuilding exploitation rate (RER) standards for some ESA-listed Puget Sound stocks (Table II-5). Predicted total exploitation rates were compared to these standards and used by NMFS in setting ESA consultation standards for the combined Council/Puget Sound salmon fisheries. Puget Sound stocks are managed pursuant to the provisions of a WDFW/Tribal management plan approved under a 4(d) rule promulgated by NMFS.

Regulations to Achieve Objectives

Puget Sound stocks contribute to fisheries off British Columbia, are present to a lesser degree off southeast Alaska, and are impacted to a minor degree by Council-area ocean fisheries. Base period Council-area ocean fishery AEQ exploitation rates of 2% or less are below a management threshold which allows effective Council management of these stocks, and they qualify as exceptions to the Council's overfishing criteria.

Inside Harvest

Commercial inside fishery harvest of Puget Sound chinook is managed on the basis of six regional stock management units or, in some cases, component stocks within management units: Strait of Juan de Fuca, Nooksack-Samish, Skagit, Stillaguamish-Snohomish, South Puget Sound, and Hood Canal. Harvest is regulated according to the natural spawning escapement goal or hatchery program escapement goal for that unit. Commercial net and troll harvest (treaty Indian and non-Indian) is presented in Appendix B, Table B-38. These catches include some fish of non-Puget Sound origin. The total commercial harvest in Puget Sound in 2004 was 103,250 chinook, compared to 93,250 chinook caught in 2003. The non-Indian net catch was 5,000 chinook, compared to 8,600 chinook caught in 2003. The treaty Indian net and troll harvest was 98,2400 chinook, compared to 84,700 chinook caught in 2003.

Recreational chinook catches in the Puget Sound recreational fishery for years from 1971 through 2003 are presented in Appendix B, Table B-39. Catch estimates for the 2004 Puget Sound recreational fishery are not yet available.

Escapement and Management Performance

Puget Sound chinook management goals for fishery planning processes in 2004 were expressed in terms of constraints on total fishery exploitation rates. Information to evaluate performance against these constraints is not yet available.

Historical hatchery and natural run component escapements and net catches for summer/fall chinook for each Puget Sound region of origin are presented in Appendix B, Table B-40. Historical spring chinook escapement data are presented in Appendix B, Table B-43.

Puget Sound spring chinook hatchery escapement goals were met. Preliminary data suggest most Puget Sound hatcheries met their summer/fall chinook goals.

Naturally spawning Puget Sound spring and summer/fall chinook remained depressed in 2004. Preliminary data suggest the Puget Sound spring chinook natural stocks did not meet their escapement goals. Preliminary information on 2004 natural spawning escapements for summer/fall chinook stocks indicate escapement goals were met in some areas, but not in Stillaguamish and Dungeness rivers. In many natural spawning areas, hatchery chinook comprise a large component of the natural spawning population.

COASTWIDE GOAL ASSESSMENT SUMMARY

Information to assess conservation objectives was unavailable for Columbia River natural (Coweeman) tule, Snake River wild fall chinook, Willapa Bay natural fall chinook, Grays Harbor natural spring and fall chinook, and all Puget Sound natural chinook stocks. Conservation objectives for all other Council managed chinook stocks were met except natural spawning escapement for Klamath River fall, Queets spring/summer, and Quillayute spring summer chinook, and hatchery escapement for Columbia River MCB and Willapa Bay fall chinook.

A summary of 2004 performance for chinook salmon stocks in relation to Council conservation objectives is presented in Table II-5.

CHAPTER III

COHO SALMON MANAGEMENT

OREGON PRODUCTION INDEX AREA COHO STOCKS

Oregon production index (OPI) area coho stocks include all Washington, Oregon, and California natural and hatchery stocks from streams south of Leadbetter Point, Washington, although stocks produced north of Leadbetter Point are also intercepted in the OPI area. The largest naturally produced coho stock is OCN coho. OCN coho are managed as a stock aggregate with four identified components including coho produced from Oregon river and lake systems south of the Columbia River. NMFS has listed three ESUs as threatened: CCC coho listed October 1996, SONCC coho listed May 1997, and OCN coho listed August 1998. Columbia River natural coho are a candidate species under the federal ESA, and are listed as endangered under the Oregon State ESA. The primary hatchery stocks include a south migrating Columbia River (early) stock, a north migrating Columbia River (late) stock, public hatchery coho from the Oregon and northern California Coast, and a small cooperative program along the southern Oregon Coast known as the Salmon Trout Enhancement Program (STEP).

Management Objectives

In establishing ocean salmon fisheries that impact OPI area coho stocks, the Council was guided by the reasonable and prudent alternatives of NMFS 1999 Supplemental Biological Opinion and Incidental Take Statement for CCC, SONCC, and OCN coho, which required:

1. No directed coho fisheries or retention of coho in all commercial and recreational fisheries off California to protect threatened CCC coho.
2. Marine fishery impacts on threatened CCC and SONCC coho must be no more than 13% as indicated by projected impacts on RK hatchery coho.
3. Marine and freshwater fishery impacts on OCN coho should not exceed levels permitted in the FMP (15% in 2004).

Based on review of FMP Amendment 13, the OCN Work Group also recommended a maximum exploitation rate on OCN coho of 15%. This recommendation was accepted by the Council as expert biological advice in November 2000.

The Council was also guided by treaty Indian/non-Indian sharing agreement for Columbia upriver coho stocks, which required passage of 50% of the run destined for areas above Bonneville Dam.

Regulations to Achieve Objectives

Historically, OPI area coho stocks contributed primarily to ocean fisheries off Oregon and northern California and, to a lesser degree, Washington and British Columbia. The Council prohibited retention of coho in all fisheries south of the Oregon/California border, and adopted seasons that the STT projected would result in exploitation rates of 8.6% for RK coho in marine fisheries and of 14.7% for OCN coho in marine and freshwater fisheries combined.

Commercial Troll

Commercial troll fisheries have been closed to coho retention south of Cape Falcon since 1993. Chinook fishery closures and gear restrictions (four-spread requirement) were also used to reduce OCN impacts.

Non-Indian commercial troll fisheries from Cape Falcon to the U.S./Canada border occurred in 2004 with an overall quota of 47,500 coho (67,500 preseason quota minus 20,000 traded to the recreational fishery in exchange for 5,000 chinook). The fisheries were restricted to mark-selective coho retention except for a five-day period beginning September 1, which was restricted to the subarea between Queets River and Cape Falcon with a 10,000 non-mark selective coho quota. This was the first non-selective coho fishery for the non-Indian commercial sector since 1999.

All species treaty Indian fisheries north of Cape Falcon were not restricted to mark-selective retention of coho, and operated on an overall quota of 75,000 coho.

Recreational

Retention of coho has been limited in the recreational fisheries south of Cape Falcon since 1993. All coho directed recreational fisheries in the OPI area have been mark-selective since 1998. Retention of coho has been prohibited off California since 1996 to protect ESA listed CCC coho. Increased abundance of marked coho in the OPI area has resulted in larger allowable harvests of marked coho in Oregon and Washington within constraints for ESA listed OCN coho.

Inside Harvest

Coho retention in all California fisheries is prohibited.

The 2004 inside recreational harvest of coho in Oregon coastal streams, as in recent years, was very restricted and generally limited to areas where surplus hatchery coho returns were expected. Mark-selective coho fisheries occurred in nine freshwater areas. Estimates of the 2004 inriver recreational coho harvest are not available at this time. Historical estimates of the recreational harvest of adult coho in Oregon coastal estuaries and rivers, derived from ODFW salmon and steelhead angler catch record cards, are reported in Table III-1.

For the second time since OCN coho were listed under the ESA, a limited fishery for naturally-produced coho was approved in Siltcoos and Tahkenitch Lakes. The recreational fishery opened October 1, with a harvest quota of 600 adult coho for Siltcoos Lake and 400 adult coho for Tahkenitch Lake. The Siltcoos Lake fishery closed November 20 with a final catch estimate of 538 fish. The Tahkenitch Lake fishery total catch estimate was 137 fish.

The 2004 Columbia River non-Indian commercial gillnet fishery harvested 109,800 adult coho, compared to 257,300 coho in 2003. Select Area fisheries in both Oregon and Washington accounted for 47,500 of the total 2004 Columbia River commercial coho catch. The treaty Indian mainstem commercial gillnet coho catch was 6,400 fish, compared to the 2003 catch of 2,600 coho. All Columbia River coho commercial fisheries are non-mark-selective. Coho harvest statistics for Columbia River commercial and recreational fisheries are presented in Appendix B, Table B-21.

TABLE III-1. Estimated returns to Oregon coastal streams and lakes in thousands of adult coho (SRS spawner accounting).
(Page 1 of 1)

Year	Returns to Hatchery Facilities			Count at North Fork Umpqua Winchester Dam	Number of OCN Spawners ^{a/}			Inside Harvest Impacts ^{b/}	Ocean Escapement to Oregon Coast ^{a/}
	Private	Public	STEP ^{c/}		Lakes	Rivers	Total		
1970	-	36.2	-	0.2	20.5	51.2	71.7	39.8	147.9
1971	-	29.1	-	0.6	29.2	65.6	94.8	24.1	148.6
1972	-	12.9	-	0.3	10.0	24.1	34.1	16.6	63.9
1973	-	18.4	-	0.4	17.6	37.8	55.4	15.4	89.6
1974	-	35.1	-	0.4	6.4	28.1	34.5	13.5	83.5
1975	-	4.9	-	0.5	5.6	34.8	40.4	13.5	59.3
1976	-	38.7	-	0.3	1.5	39.2	40.7	19.6	99.3
1977	4.2	6.5	-	0.4	5.8	13.7	19.5	13.5	44.1
1978	12.3	5.6	-	0.5	1.6	18.2	19.8	4.5	42.7
1979	49.2	22.2	-	0.4	6.6	38.4	45.0	1.5	118.3
1980	38.7	21.9	-	0.2	4.7	25.6	30.3	6.3	97.4
1981	117.8	21.2	-	0.1	2.5	30.1	32.6	9.9	181.6
1982	184.7	14.8	-	2.7	7.9	68.3	76.2	14.7	293.1
1983	133.9	9.5	-	1.2	3.3	19.4	22.7	6.8	174.1
1984	115.4	28.6	-	3.2	14.7	59.7	74.4	17.4	239.0
1985	332.0	15.8	-	4.0	7.6	66.3	73.9	15.7	441.4
1986	453.7	35.8	2.5	9.6	11.8	58.2	70.0	30.3	601.9
1987	119.3	12.3	0.2	2.2	4.2	25.9	30.1	7.7	171.8
1988	116.1	33.7	1.2	1.2	5.8	51.0	56.8	13.3	222.3
1989	46.9	37.3	1.2	3.0	4.8	41.6	46.4	15.1	149.9
1990	35.6	15.4	1.6	2.3	4.4	16.5	20.9	9.5	85.3
1991	35.1	39.6	4.9	5.2	7.3	29.1	36.4	75.4	196.6
1992	-	23.3	0.6	6.0	2.0	38.6	40.6	19.3	89.8
1993	-	20.2	2.0	3.3	10.1	44.3	54.4	13.3	93.2
1994	-	23.4	1.8	2.8	5.8	37.5	43.3	2.4	73.7
1995	-	25.2	0.4	4.2	11.2	41.3	52.5	3.6	85.9
1996	-	23.8	1.0	6.2	13.5	59.5	73.0	4.0	108.0
1997	-	17.6	0.2	3.6	8.6	14.1	22.7	4.3	48.4
1998	-	15.2	0.2	5.3	11.1	19.8	30.9	5.2	56.8
1999	-	13.3	0.4	2.5	12.7	34.6	47.3	2.8	66.3
2000	-	15.0	0.5	11.1	12.7	54.1	66.8	4.5	97.9
2001	-	38.1	1.2	24.9	19.7	148.0	167.7	10.0	241.9
2002	-	30.9	2.6	11.2	22.1	231.4	253.5	8.1	306.3
2003	-	15.9	3.6	13.7	16.1	206.3	222.4	6.7	262.3
2004 ^{d/}	-	12.8	0.8	10.9	18.5	149.2	167.7	6.3	198.5

a/ Does not include estimates for the southern OCN component (Rogue River). Spawner escapements to rivers prior to 1990 were estimated by a nonrandom standard index of streams north of the Rogue River. A total coastwide spawner escapement methodology based on SRS was initiated in 1990 and implemented concurrently with the standard index methodology. The SRS methodology indicated that actual escapements were less than estimated by the standard rivers index. The spawner index data for years prior to 1990 have been recalibrated in this table to be comparable with the SRS estimates.

b/ Freshwater sport catch from ODFW salmon/steelhead angler tag information and represents only those fish greater than 24 inches. Includes estimated mortality from hook-and-release.

c/ Oregon coastal Salmon Trout Enhancement Program (STEP) production from hatchery smolt rearing sites only.

d/ Preliminary.

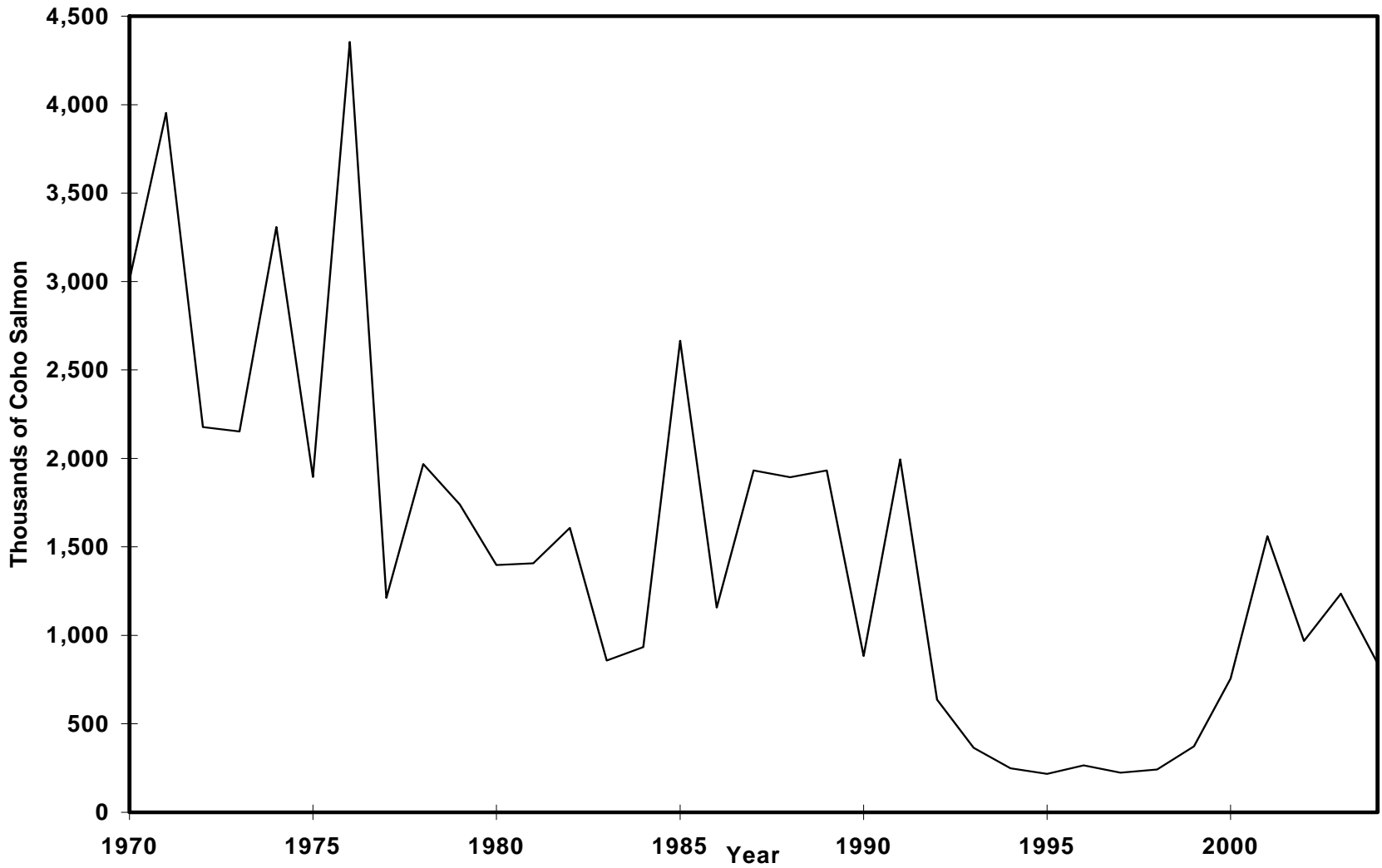


Figure III-1. Oregon production area (OPI) salmon abundance estimates by stratified random survey (SRS) accounting methods, 1970-2004.

TABLE III-2. Estimated weekly **effort** (in angler trips) and **catches** of chinook and coho in the 2004 **Buoy 10 recreational** fisheries (all data are preliminary).^{a/} (Page 1 of 1)

Week Number	Ending Date of Period	Angler Trips	Catch		Catch Per Trip
			Chinook	Coho	
31	Aug.-1	684	27	24	0.07
32	Aug.-8	2,509	101	69	0.07
33	Aug.-15	7,153	1,629	547	0.30
34	Aug.-22	16,136	5,675	3,408	0.56
35	Aug.-29	22,501	3,919	5,906	0.44
36	Sept.-5	13,857	4,000	3,946	0.57
37	Sept.-12	5,487	807	1,335	0.39
38	Sept.-19	655	-	80	0.12
39	Sept.-26	98	-	5	0.05
40-44	Oct.-31	55	-	2	0.04
Total		69,135	16,158	15,322	0.46

a/ Includes boat-based and shore-based fisheries from the new upstream boundary at the Tongue Point/Rocky Point line downstream to the Buoy 10 line including Clatsop Spit, the South Jetty of the Columbia River, and the North Jetty of the Columbia River after the ocean closed. Fishery was open August 1- December 31 for all species, except beginning September 7, chinook retention prohibited; all retained coho and steelhead must have healed adipose fin clips.

The Buoy 10 and mainstem recreational fisheries below Bonneville Dam harvested 16,600 adult coho compared to 84,200 adult coho in 2003. In 2004, Columbia River managers opened the Buoy 10 fishery August 1 for both chinook and adipose fin-clipped coho. The fishery ran through December 31, although the fishery was closed to the retention of chinook effective September 7. The upriver boundary at the Tongue Point, Oregon to Rocky Point, Washington line has been in effect since 2000. The 2004 Buoy 10 harvest and effort totaled 15,300 coho and 69,100 angler trips (Table III-2). All Columbia River recreational fisheries were mark-selective for coho. Historical Buoy 10 catch and effort data are provided in Appendix B, Table B-22.

Escapement and Management Performance

The overall abundance estimate for OPI areas stocks in 2004 was 841,500, down from 1,235,000 in 2003 and greater than the ten-year average of 668,000 (Figure III-1).

Central California Coast and Northern California Coho

Spawner estimates are not available for CCC coho. Estimates are available for escapement to Klamath River Basin hatcheries, but not for coho spawning in natural areas. In 2004, a total of 9,774 coho returned to Trinity River Hatchery and 1,495 coho returned to Iron Gate Hatchery. These values compare to a combined goal of 2,000 adults.

Oregon Coast Natural Coho

Preliminary estimates of natural spawner escapement in 2004 to Oregon coastal river and lake systems (Oregon coast ESU) from the Coquille River north is 167,677 adult coho by SRS accounting. This compares to 222,377 adults in 2003. Historical spawner escapement estimates of naturally produced coho are reported in Table III-1 and have been adjusted to reflect SRS accounting.

Preliminary information based on SRS surveys indicate the third largest total natural spawning population on the Oregon coast on record, in part, due to very low levels of ocean exploitation. The estimate of the natural spawning population in 2004 was 192,000, including estimates from the Rogue River, which is part of the SONCC ESU (Table III-3, Figure III-2). Natural spawning populations were third highest on record for all basins except the southern basin which was above historical levels.

Preliminary estimates of total coho returns to Oregon coastal public hatcheries and STEP smolt production facilities were 12,800 and 800 adults, respectively (Table III-1). Hatchery egg-take goals are expected to be met at all public hatchery stations.

Columbia River Coho

The 2004 ocean escapement of adult early and late Columbia River coho stocks was 446,000 fish, compared to 683,700 adults in 2003 (Appendix B, Table B-21). The 2004 Columbia River coho abundance was sufficient to meet all hatchery brood stock escapement needs.

TABLE III-3. OCN adult coho salmon conservation objective, fishery impacts, and spawner escapement, based on stratified random survey (SRS) methodology. (Page 1 of 1)

Year	Fishery Impact (Total Marine and Freshwater Exploitation Rate)			Adjusted SRS Adult Coho Spawner Population Estimates in Thousands of Spawners by Stock Component ^{a/}					Adult Coho Spawners Per Spawner Habitat Mile				
	Conservation Objective ^{b/}	Preseason Projection	Postseason Estimate ^{c/}	Northern ^{d/}	North Central ^{e/}	South Central ^{f/}	Southern ^{g/}	Coastwide	Northern ^{d/}	North Central ^{e/}	South Central ^{f/}	Southern ^{g/}	Coastwide Average
1990	-	-	-	2.2	5.6	13.1	3.1	24.0	2	5	8	8	6
1991	-	0.460	0.454	9.3	6.7	20.3	1.0	37.3	10	6	13	2	9
1992	-	0.420	0.511	2.4	15.4	22.8	2.2	42.8	3	13	14	5	10
1993	-	0.260	0.423	4.5	7.8	42.1	0.4 ^{h/}	54.8	5	7	26	1 ^{h/}	13
1994	#0.20	0.111	0.068	3.4	9.8	30.0	5.4	48.6	4	8	18	13	12
1995	#0.20	0.118	0.124	3.8	13.6	35.0	3.8	56.2	4	12	22	9	14
1996	#0.20	0.125	0.083	3.3	18.1	51.5	4.6	77.5	4	16	32	11	19
1997	#0.20	0.110	0.124	2.1	2.8	17.7	8.3	30.9	2	2	11	20	8
1998	#0.13	0.119	0.078	2.6	3.3	25.2	2.3	33.4	3	3	16	6	8
1999	#0.15	0.087	0.087	8.8	11.4	27.1	1.4	48.7	10	10	17	3	12
2000	#0.15	0.082	0.073	17.9	14.3	34.7	11.0	77.9	20	12	21	27	19
2001	#0.08	0.074	NA	33.4	25.2	109.0	12.2	179.8	37	22	67	30	44
2002	#0.15	0.123	NA	49.7	102.7	101.1	7.8	261.3	55	88	62	19	64
2003	#0.15	0.144	NA	59.7	66.6	96.2	6.8	229.3	66	57	59	16	56
2004 ^{i/}	#0.15	0.147	NA	37.5	36.9	93.2	24.5	192.1	42	32	57	60	47

a/ A spawner escapement methodology study based on SRS has been in effect since 1990 in which coho salmon population estimates have been made for Oregon coastal river systems from the Coquille River and north. Spawner population estimates include an adjustment for observation error.

b/ Prior to 1994, the conservation objective was expressed in terms of the total escapement of OCN spawners in index numbers rather than as an exploitation rate. The index escapement objectives from 1981 through 1993 are provided in Table III-2 of the *Review of 1998 Ocean Salmon Fisheries* and Table 1 of Amendment 11. From 1994 through 1997, Amendment 11 specified that at low stock sizes, only incidental harvest of OCN coho could occur and that impacts could not exceed 20%. Beginning in 1998, the OCN conservation objective has been as specified in Amendment 13 which is also the basis for the NMFS jeopardy standards under the Endangered Species Act listing.

c/ From the coho FRAM, except the estimates prior to 1994 represent the OPI composite exploitation rate for hatchery and natural stocks.

d/ Estimate based on 899 miles of spawner habitat within Nehalem, Tillamook, and Nestucca Rivers and other direct ocean tributaries from Necanicum River through Neskowin Creek.

e/ Estimate based on 1,163 miles of spawner habitat within Siletz, Yaquina, Alsea, and Siuslaw Rivers and other direct ocean tributaries from the Salmon through Siuslaw Rivers.

f/ Estimate based on 1,622 miles of spawner habitat within Umpqua, Coos, and Coquille Rivers. Also includes spawners using tributaries to Siltcoos, Tahkenitch, and Tenmile Lakes.

g/ Estimate based on a mark-recapture methodology and 410 miles of spawner habitat within the Rogue River.

h/ Unreliable estimate.

i/ Preliminary.

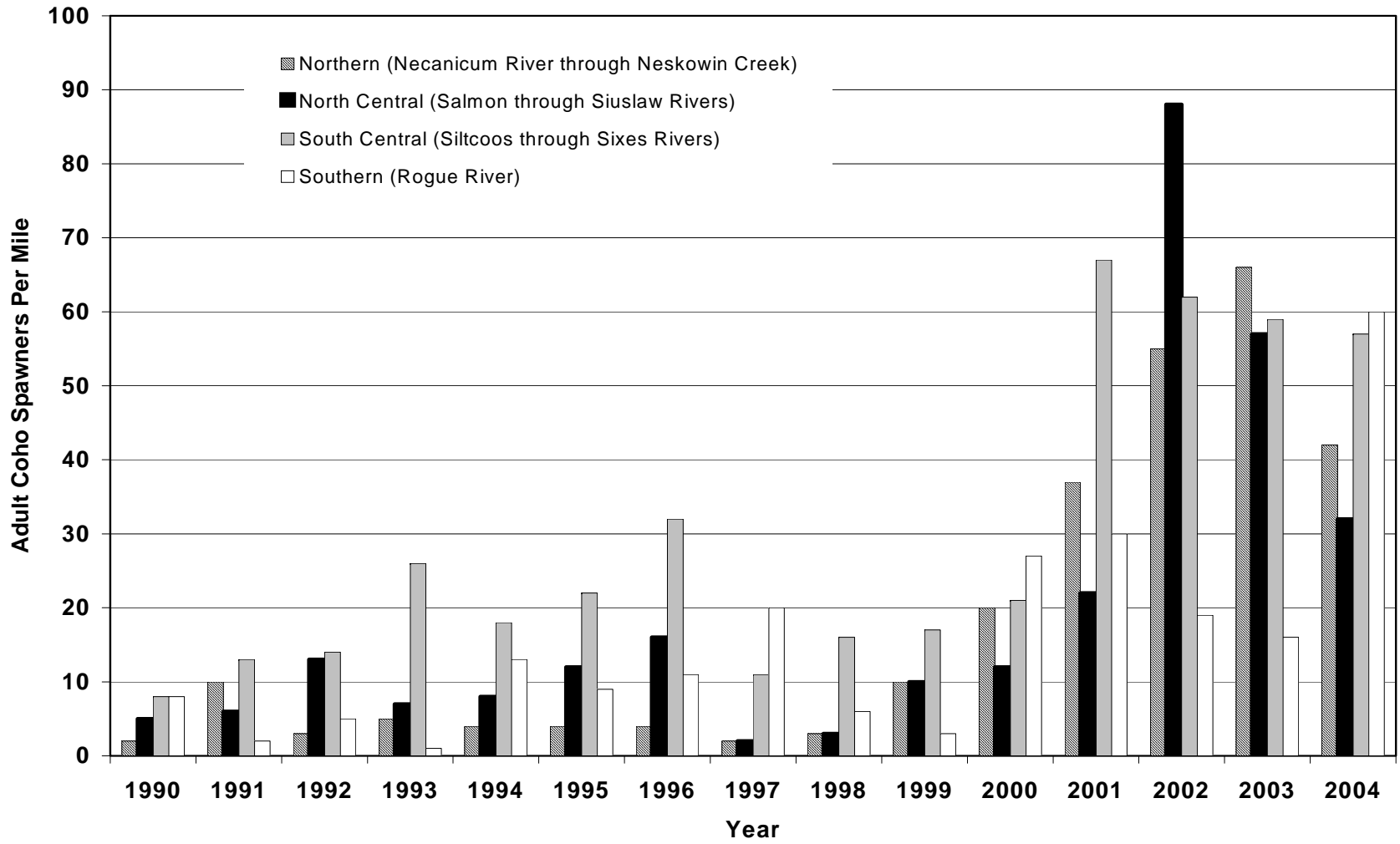


Figure III-2. Oregon coastal natural (OCN) adult coho salmon spawners per spawner habitat mile by coastal region based on SRS accounting methods, 1990-2004.

WASHINGTON COASTAL COHO STOCKS

Washington coastal coho stocks include all natural and hatchery stocks originating in Washington coastal streams north of the Columbia River through the western strait of Juan de Fuca (west of the Elwha River). The primary stocks in this group, which are most pertinent to ocean salmon fishery management, are Willapa Bay (hatchery), Grays Harbor, Quinault (hatchery), Queets, Hoh, and Quillayute coho.

Management Objectives

Management goals for Grays Harbor and Olympic Peninsula coho stocks include achieving natural spawning escapement objectives and treaty Indian allocation requirements. The Council's conservation objectives for stocks managed for natural production are based on maximum sustainable yield (MSY) spawner escapements established pursuant to the U.S. District Court order in *Hoh versus Baldrige*. Annual targets for natural spawning escapement and total escapement are established by WDFW and treaty Indian tribes under the provisions of *U.S. versus Washington* and subsequent U.S. District Court orders. After the annual agreement is reached, ocean fishery escapement objectives are established for each river, or region of origin. The agreement includes provisions for treaty Indian allocation requirements and inside non-Indian fishery needs. The conservation objectives for the Queets, Hoh, and Quillayute rivers were developed as ranges intended to bracket estimates of MSY escapement. The range reflects the degree of uncertainty inherent by using the high estimate of recruits-per-spawner, and the low estimate of carrying capacity for the lower bound, and the low estimate of recruits-per-spawner with the high estimate of smolt carrying capacity for the upper end of the range.

Regulations to Achieve Objectives

Washington coastal coho stocks contribute primarily to ocean fisheries off Washington and British Columbia. These stocks did not play a primary role in 2004 Council area ocean fishery management because of impact constraints on Interior Fraser (Thompson River, B.C.) and OCN stocks, and treaty Indian/non-Indian inriver sharing of Columbia upriver coho. Overall harvest quotas were limited to levels well below those of the late 1980s and early 1990s. All non-Indian coho ocean fisheries north of Cape Falcon were mark-selective with the exception of a September 1 through 5 troll fishery from Queets River to Cape Falcon and a recreational fishery from August 29 to September 6 in the area from Queets River to Leadbetter Point. Treaty Indian fisheries did not have mark-selective coho restrictions.

Willapa Bay Coho

Inside Harvest

Historical terminal run size, harvest and escapement data for Willapa Bay coho are presented in Appendix B, Table B-24. The gillnet catch of coho in Willapa Bay in 2004 totaled 16,521 fish (wild 8,147 and hatchery 8,374). Based on the preseason forecast for a terminal run of 71,771 fish, the scheduled commercial fisheries were expected to harvest approximately 31,983 total coho.

Marine and freshwater recreational harvest estimates are not yet available for 2004. Expected harvest in recreational fisheries based on preseason forecast abundance was 3,229. From June 27, 2004 through August 15, 2004, Willapa Bay (Marine Area 2-1) was open for recreational fishing, concurrent with the Ocean Marine Area 2 (ocean rules applied). August 16, 2004 through January 31, 2005, Willapa Bay was open to recreational fishing with a daily-bag-limit of six salmon, no more than two adults, and single-point, barbless hooks were required when fishing for salmon. Freshwater recreational fisheries in the Willapa Bay watershed were open for salmon fishing from August 1, 2004 through January 31, 2005 with a daily-bag-limit

of six salmon, composed of up to three adult coho, including no more than one of natural origin identified by having an intact adipose fin.

Escapement and Management Performance

Willapa Bay coho are managed primarily for natural production. Estimates of natural spawning escapement for 2004 are not yet available. The most recent escapement estimate available was 37,618 in 2002. Escapement to Willapa Bay hatcheries in 2004 was estimated at 13,155 coho, which met the escapement objective of 6,100 spawners.

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Grays Harbor Coho

Inside Harvest

Historical terminal run size, harvest and escapement data for Grays Harbor coho are presented in Appendix B, Table B-26. The terminal run size forecast for Grays Harbor coho was 175,664 fish (117,932 wild and 57,732 hatchery). Nearly 22,900 coho (wild, hatchery, and net-pen origin) were harvested in treaty Indian and non-Indian gillnet fisheries. This included 17,668 coho in the Quinault Indian Nation fisheries, 5,231 in the non-Indian gillnet fishery, and small numbers in the Chehalis tribal fishery.

Recreational harvest estimates for 2004 are not yet available. The eastern portion of Grays Harbor was open for recreational salmon fishing September 16 through November 30 with a daily-bag-limit of six salmon, including no more than two adult coho. The Chehalis River and its tributaries downstream of the bridge crossing at the town of Porter were open for retention of up to two adult coho (regardless of mark status) from April 16 through July 31 and October 1 through November 30. The Chehalis River and its tributaries upstream of the bridge crossing at the town of Porter were open to retention of up to two adult coho (regardless of mark status) April 16 through July 31 and October 16 through November 30. In December, January, and February, openings varied by system, but coho harvest was limited to one unmarked coho in a two-adult coho bag limit. The Humptulips recreational fishery required release of all coho without a healed adipose fin clip throughout the season (October 16 through November 30).

Escapement and Management Performance

Grays Harbor coho are managed for natural production with a spawning escapement goal of 35,400. Natural spawning escapement estimates for 2004 are not yet available. The most recent escapement estimate available was 110,654 in 2002.

The preliminary estimate of the total return to Grays Harbor hatcheries is 45,168 (35,152 Humptulips and 10,016 Chehalis) coho, which met egg take needs. Net-pen reared coho also returned to Grays Harbor in 2004 and contributed to the coho harvest, but no estimate of escapement is available.

Quinault River Coho

Inside Harvest

Historical terminal run size, harvest, and escapement for Quinault River coho are presented in Appendix B, Table B-28.

The treaty Indian gillnet fishery targets hatchery chinook and coho from early September through mid-November. A total of 17,071 coho were harvested by the gillnet fishery in 2004.

Escapement and Management Performance

Quinault River coho are managed for hatchery production. Escapement estimates for Quinault River coho in 2004 are not yet available. Due to disease in the Quinault National Fish Hatchery, egg-take objectives for 2004 were not achieved.

Queets River Coho

Inside Harvest

Historical terminal run size, harvest, and escapement for Queets River coho are presented in Appendix B, Table B-31.

Queets River fisheries were managed under preseason agreement, based on preseason abundance estimates and planned Council ocean fisheries. The treaty Indian gillnet fishery was structured to target returning hatchery and wild coho during September and early October. The total harvest of fall coho in the gillnet fishery was 8,219, including 30 fish taken for ceremonial and subsistence use. The gillnet harvest was comprised primarily of hatchery fish. Recreational fisheries operated with standard bag limits (no restriction on coho based on mark status) and schedules in the Queets, Clearwater, and Salmon Rivers. The 2004 catch estimate for the in-river recreational fishery of 550 is preliminary.

Escapement and Management Performance

The preliminary spawning escapement estimate for Queets wild (including supplemental) coho is 10,760 adults, approximately mid-range for the escapement objective of 5,800 to 14,500 established for this stock.

Hoh River Coho

Inside Harvest

Historical terminal run size, catch, and escapement data for Hoh River coho are presented in Appendix B, Table B-34.

The terminal run size of Hoh River wild coho was projected to be 6,592, based on both moderate freshwater and saltwater survival expectations. The fall fishing schedule was set to constrain chinook harvest. The tribal fishery took approximately 1,248 coho, with approximately 1,159 estimated to be wild coho, including dip-in wild fish. This was far below the preseason expected catch of approximately 2,423 wild Hoh and dip-in coho. The non-Indian recreational fishery operated as anticipated preseason, without a mark-selective coho restriction.

Escapement and Management Performance

Though the overall preliminary run size estimate may be less than expected preseason, escapement appears to be stronger (based on preliminary review of spawner surveys) than indicated by comparing the actual tribal harvest rate to that anticipated pre-season. Escapement surveys are still incomplete, but the preliminary spawning escapement estimate for Hoh coho of 2,069 exceeds the lower end of the escapement goal range (2,000-5,000).

Quillayute River Coho

Inside Harvest

Historical terminal run size, catch, and escapement data for Quillayute River summer and fall coho are presented in Appendix B, Table B-37.

The recreational and tribal fisheries for coho were established by preseason agreement between Washington Department of Fish and Wildlife (WDFW) and the Quileute Tribe. A total of 1,387 (549 wild) summer coho were harvested in the Quileute Tribes commercial and ceremonial and subsistence fisheries. An estimate of the 2004 recreational catch is not yet available.

The Quileute Tribal harvest of fall coho for 2004 was 19,364 (19,314 commercial, 50 ceremonial and subsistence). Tribal net fisheries harvested approximately 10,279 wild coho. An estimate of the 2004 recreational catch is not yet available.

WDFW reduced the impacts of the recreational fishery on naturally produced summer coho by requiring mark-selective fisheries for coho during July and August. The non-mark-selective recreational fishery for fall coho proceeded with normal bag limits and schedule. The Quileute Tribe did not have a closure in their fishery this year, but as in past years, reduced their fishery to 29 hours per week during July and August.

Escapement and Goal Assessment

The summer coho run in the Quillayute is managed primarily for its hatchery component, which returns in August and September. The summer coho rack return was 9,738. This is well above the goal of 300. The preliminary estimate for natural summer coho escapement is 1,100.

The preliminary 2004 escapement estimate for natural fall coho is 10,610, near the middle range of the escapement goal of 6,300 to 15,800 established for this stock. The hatchery rack return of 27,102 exceeded the goal of 600 adults.

PUGET SOUND COHO STOCKS

Puget Sound coho salmon stocks include natural and hatchery stocks originating from U.S. tributaries in Puget Sound and the eastern Strait of Juan de Fuca (east of Salt Creek). The primary stocks in this group that are most pertinent to ocean salmon fishery management are eastern Strait of Juan de Fuca, Hood Canal, Skagit, Stillaguamish, Snohomish, and South Puget Sound (hatchery) coho.

Management Objectives

The Council's conservation objectives are based on the Puget Sound Salmon Management Plan, which defines management objectives and long-term goals for these stocks as developed by representatives from federal, state, and tribal agencies. Conservation objectives for specific stocks currently are based on either maximum sustainable production for stocks managed primarily for natural production or on hatchery escapement needs for stocks managed for artificial production. A transition to exploitation rate management is currently under consideration by the involved managers. Annual escapement targets for these coho stocks are developed through procedures established in U.S. District Court. Puget Sound management procedures are outlined in a "Memorandum Adopting Salmon Management Plan" (*U.S. versus Washington*, 626 F. Supp. 1405 [1985]). The original conservation objectives were developed by a State/Tribal Management Plan Development Team following the Boldt Decision with the goal for natural spawning stocks defined as "the adult spawning population that will, on the average, maximize biomass of juvenile outmigrants subsequent to incubation and freshwater rearing under average environmental conditions." The methodology used to develop the objectives was based on assessment of the quantity and quality of rearing habitat and the number of adult spawners required to fully seed the habitat. Some objectives have subsequently been modified by the U.S. District Court Fisheries Advisory Board and later determinations of the WDFW/Tribal Technical Committee.

Regulations to Achieve Objectives

Puget Sound coho stocks contribute primarily to ocean fisheries off Washington and British Columbia. These stocks did not play a primary role in 2004 ocean fishery management considerations, since the needs of Interior Fraser (Thompson River, B.C.) and OCN stocks, and treaty Indian/non-Indian inriver sharing of Columbia River stocks, were more critical. The mark-selective regulations in ocean and Puget Sound recreational fisheries served to increase harvest of marked hatchery fish while protecting wild Puget Sound coho, OCN coho and Thompson River, B.C. coho.

Inside Harvest

Commercial inside fishery harvest of Puget Sound coho is managed on the basis of six regional management units: Strait of Juan de Fuca, Nooksack-Samish, Skagit, Stillaguamish-Snohomish, South Puget Sound, and Hood Canal. Harvest of coho for each management unit is regulated according to the natural spawning escapement or hatchery program escapement goal for that unit. Commercial net and troll harvest (treaty Indian and non-Indian) for all coho stocks combined is presented in Appendix B, Table B-38. The 2004 total Puget Sound commercial catch of coho was 562,200 fish, compared to a catch of 244,300 coho in 2003. Non-Indian harvest was 39,500 coho, compared to a catch of 17,700 coho in 2003. Treaty Indian net and troll fisheries harvested 522,700 coho, compared to a catch of 226,600 coho in 2003.

Historic coho recreational catches in the Puget Sound recreational fishery for the years from 1971 through 2003 are listed in Appendix B, Table B-39.

Escapement and Management Performance

Estimates of 2004 natural spawning escapements are unavailable at this time. Historical hatchery and natural run component escapements and net catches for each Puget Sound region of origin are presented in Appendix B, Table B-41.

In general, Puget Sound hatchery coho escapement and egg-take goals were likely met in all regions in 2004 except for South Puget Sound.

COASTWIDE GOAL ASSESSMENT SUMMARY

Conservation objective achievement assessments are not yet available for most coho stocks; however, those that are available have all met their objectives.

A summary of 2004 performance for coho salmon by stock in relation to the Council's conservation objectives is presented in Table III-4.

TABLE III-4. Performance of **coho** salmon stocks in relation to 2004 conservation objectives (preliminary data). (Page 1 of 1)

System and Stock	2004 FMP Conservation Objective	Achievement
OPI Area Coho		
(Columbia River and coastal stocks south of Leadbetter Point)	Natural spawner escapement objectives as provided below; meet hatchery egg-take goals; meet treaty Indian obligations.	Hatchery egg-take goals achieved. No information available on catch allocation.
Northern California (Threatened) and CCC (Threatened)	No directed coho fisheries or retention of coho south of Humbug Mt. Marine exploitation rate #13% as indicated by R/K hatchery stocks. Council adopted a projected exploitation rate on R/K hatchery coho of 7.7%.	No directed coho fisheries or retention of coho south of Humbug Mt. Postseason exploitation estimate not available.
OCN (Threatened)	Combined marine and freshwater exploitation rate #15.0% for the four stock components. Council adopted a projected exploitation rate of 14.7%, with an expected escapement of 63,300 adult spawners (SRS of rivers and lakes from the Coquille River north).	Postseason exploitation rate estimate not available. Preliminary OCN escapement of 167,700 adult spawners (SRS of rivers and lakes from the Coquille River north).
Washington Coast Coho		
	Natural spawner escapement objectives as provided below and in state/tribal agreements; meet hatchery egg-take goals; meet treaty Indian obligations.	Hatchery egg-take goals achieved. No information available on catch allocation.
Grays Harbor	35,400 natural adult spawners.	Postseason estimate not available, but the objective is expected to be met. Preseason expectation for an ocean escapement of 101,100 adult fish.
Queets	5,800 to 14,500 natural adult spawners.	Preliminary estimate of 9,785 meets the escapement floor.
Hoh	2,000 to 5,000 natural adult spawners.	Preliminary estimate of 2,069 meets the escapement floor.
Quillayute Fall	6,300 to 15,800 natural adult spawners.	Preliminary estimate of 10,601 meets the escapement floor.
Puget Sound Coho		
	Natural spawner escapement objectives as provided below and in state/tribal agreements; meet hatchery egg-take goals; meet treaty Indian allocation requirements and inside non-Indian fishery needs for six management units.	Data not available for 2004 natural spawner escapements, but all are expected to be meet escapement goals. Hatchery egg-take goals met, except for South Puget Sound. No information available on catch allocation.
Strait of Juan de Fuca	#60% total exploitation rate. 12,800 natural adult spawners.	Preseason expected ocean escapement of 31,800 adult fish for eastern and western Strait of Juan de Fuca combined and a 13.0% total exploitation rate.
Hood Canal	#65% total exploitation rate. 21,500 natural adult spawners.	Preseason expected ocean escapement of 79,700 adult fish and a 35.0% total exploitation rate.
Skagit	#60% total exploitation rate. 30,000 natural adult spawners.	Preseason expected ocean escapement of 130,900 adult fish and a 35.0% total exploitation rate.
Stillaguamish	#50% total exploitation rate. 17,000 natural adult spawners.	Preseason expected ocean escapement of 26,600 adult fish. 39.0% total exploitation rate.
Snohomish	#60% total exploitation rate. 70,000 natural adult spawners.	Preseason expected ocean escapement of 134,000 adult fish and a 35.0% total exploitation rate.

CHAPTER IV

SOCIOECONOMIC ASSESSMENT OF THE 2004 OCEAN SALMON FISHERIES

SUMMARY: Total 2004 exvessel value for the Council-managed non-Indian commercial salmon fishery was \$29.0 million. In inflation-adjusted dollars, exvessel value was 39% above its 2003 level, but was 7% below the 1979 through 2002 average. West Coast ocean harvest chinook prices averaged \$3.00 per pound in 2004, an increase of 57% from the 2003 price, and nearly double the 2002 inflation-adjusted price. The 2004 average chinook price was the highest recorded in more than 25 years, and the highest in inflation-adjusted terms since 1992. At \$1.19 per pound, average West Coast coho prices were 48% higher in inflation-adjusted terms than in 2003, and higher in inflation-adjusted and nominal terms than has been observed since the early 1990s. The number of vessel-based ocean salmon recreational angler trips taken on the West Coast in 2004 (470,900 angler trips) increased 18% from 2003, and was 20% below the 1979 through 1991 average. The total state-level income impact associated with recreational and commercial ocean salmon fisheries for all three states combined was \$90.4 million in 2004. This was 9% above the inflation-adjusted 2003 level. These numbers are also considerably above the 1996-2000 three-state inflation-adjusted average, and over two and a half times the 1998 historic low.

ALLOCATION OF THE SALMON RESOURCE

Salmon management by the Council involves numerous allocation issues including:

- C Determination of the amount of salmon available for ocean harvest after consideration of expected abundances, harvests by inside fisheries, and spawning escapement goals.
- C Allocation of harvest among broad management areas and among port areas within the management areas.
- C Allocation of harvest between Indian and non-Indian harvesters.
- C Allocation of the non-Indian harvest between commercial and recreational harvesters.

The amount of fish available for harvest in Council management areas depends, in part, on harvest in Canada and Alaska. Allocation of harvest between the West Coast, Canada, and Alaska is determined within the constraints of the PST.

In general, the recreational fishery has tended to have a more stable harvest than the commercial fishery (in both absolute and relative terms) (Figures IV-1 and IV-2). The majority of the annual variation in available ocean harvest is usually taken up in the commercial fishery. However, both fisheries have suffered substantial declines relative to harvest levels of the 1980s, the effects of which are amplified when specific geographic areas are considered.

Decisions on allowable harvests for a particular stock often have implicit allocation effects on the geographic distribution of salmon harvest. Seasons may be more restrictive along a particular area of the coast to protect a depressed stock encountered in that area at a high rate. The geographic distribution of harvest opportunity along the coast involves balancing the often conflicting objectives of maximizing ocean harvest and fairly distributing the responsibility for resource conservation. A brief outline of the regulatory objectives which shaped the 2004 season is provided in Chapter I; an assessment of success in meeting the objectives is provided in Chapters II and III.

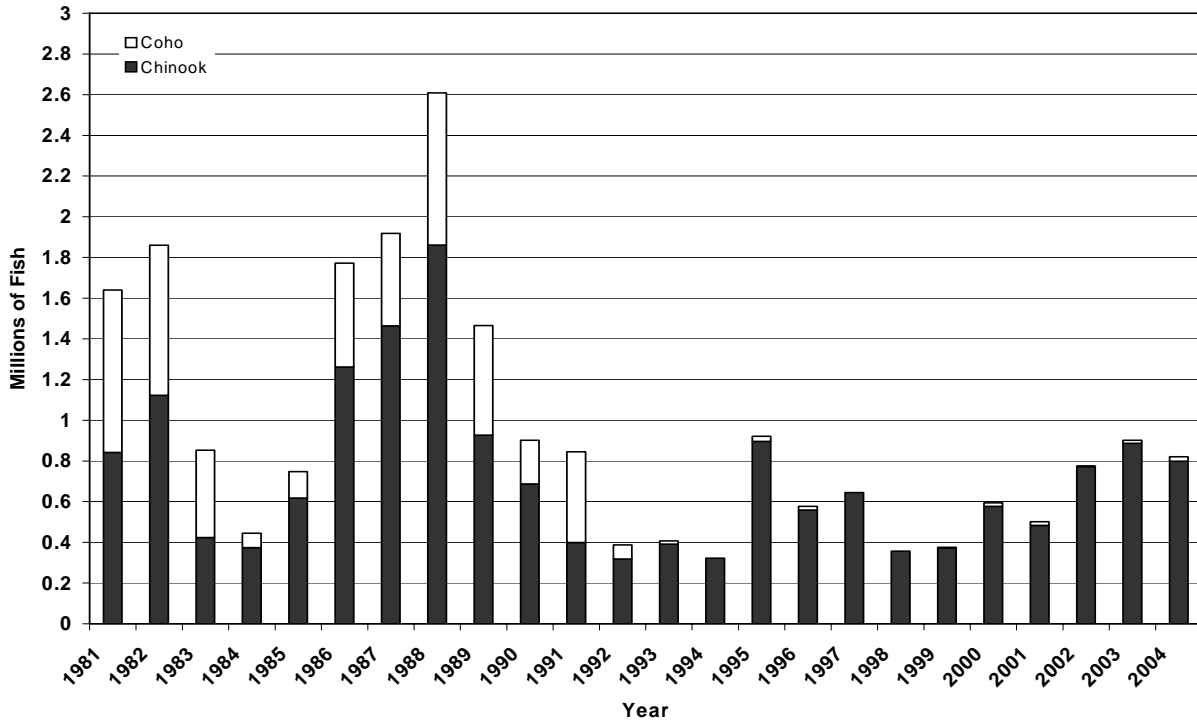


Figure IV-1. West Coast ocean non-Indian commercial chinook and coho harvest.

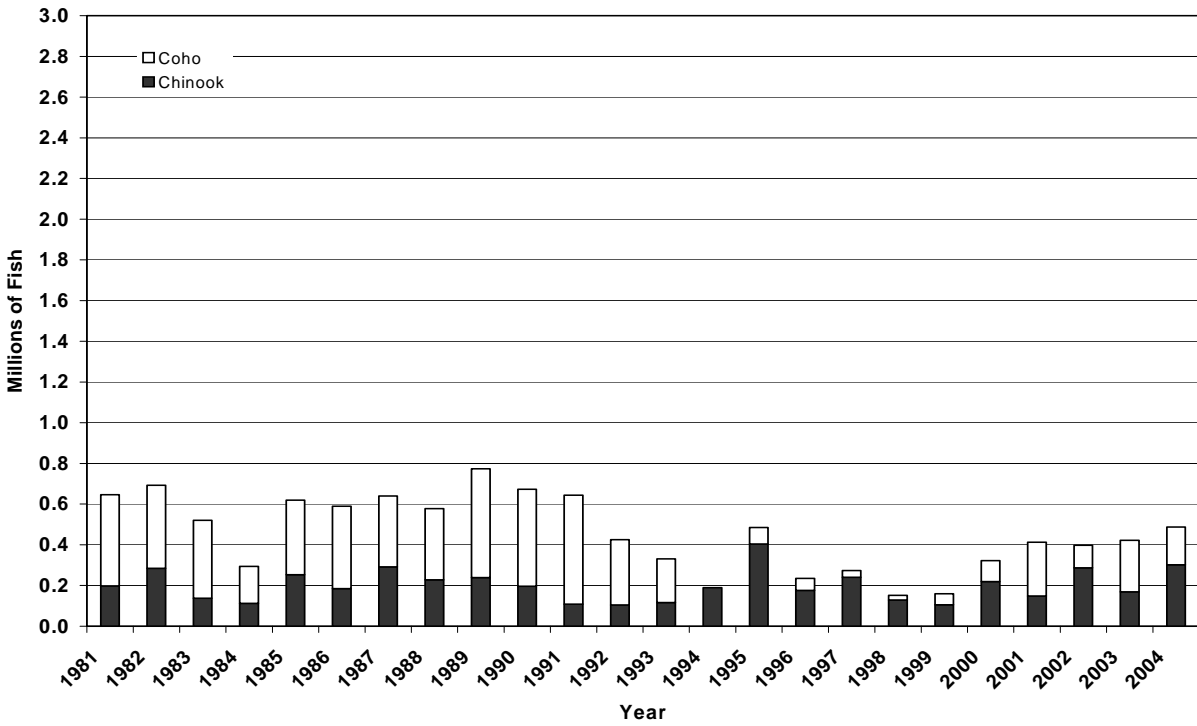


Figure IV-2. West Coast ocean recreational chinook and coho harvest.

COMMERCIAL SALMON FISHERIES

West Coast Non-Indian Commercial Ocean Fishery

Inseason Price Trends

Monthly exvessel price data provides information on seasonal price trends (Table IV-1). The absence of a price breakdown by size category for California salmon landings makes it difficult to tell whether observed price changes are a function of seasonal changes in market conditions or a shift in the size category of fish landed. In general, as in 2003, 2004 prices were lower mid-season than at the start or end of the season.

Annual Trends (Seasons, Value, Prices, and Pounds)

Available information on chinook and coho exvessel price and value by species, compiled from state fish receiving tickets and expressed both in nominal terms and inflation-adjusted 2004 dollars, is presented in Tables IV-2, IV-3, and IV-4. Data on pink salmon are provided in Table IV-5. The gross domestic product implicit price deflator, developed by the Bureau of Economic Analysis, is used to adjust nominal values for inflation (Appendix D, Table D-22). Weight of landings by species and port for chinook and coho is presented in Tables IV-6, IV-7, and IV-8. These tables and the following discussion refer to the non-Indian commercial fishery in Council management areas and associated state territorial ocean area waters.

Total 2004 exvessel value of the Council-managed non-Indian commercial salmon fishery was \$29.0 million. In real (inflation-adjusted) dollars, exvessel value was 39% above its 2003 level (\$20.9 million), and nearly double the 2002 value (\$14.5 million), but was 7% below the 1979 through 2002 inflation-adjusted average of \$31.3 million (including pinks).

The 2004 exvessel value of the California commercial ocean salmon catch (\$17.9 million) was 43% above the 2003 value, and 2% above the 1979 through 2002 average, in inflation-adjusted dollars. In recent years, a portion of the California harvest is believed to be subject to postseason settlements. Under a postseason settlement, fishers may be paid an additional amount for their fish after the season ends. Value accruing to the fishery from postseason settlements is not reflected on the fish receiving tickets from which estimates of exvessel value are derived. The 2004 exvessel value for the Oregon commercial catch (\$9.9 million) was up 34% from 2003, and 2% above the 1979 through 2002 average, in inflation-adjusted terms. The 2004 exvessel value for the Washington non-Indian ocean commercial catch (\$1.2 million) was 17% above the 2003 value (\$1.0 million). While recent exvessel value of Washington landings was highest since the 1992 inflation-adjusted value of \$1.6 million, it was still 71% below the 1979 through 2002 inflation-adjusted average of \$4.1 million.

The 2004 average West Coast ocean harvest chinook price was \$3.00 per pound. This was an increase of 57% from the 2003 inflation adjusted price, and nearly double the 2002 inflation-adjusted price (Figure IV-3). The 2004 average chinook price was the highest recorded in more than 25 years, and the highest in inflation-adjusted terms since 1992. At \$1.19 per pound, average West Coast coho prices were 48% higher in inflation-adjusted terms than in 2003, and higher in both inflation-adjusted and nominal terms than seen since the early 1990s.

In terms of number of fish, coastwide, non-Indian commercial chinook harvest (796,200 fish) declined by 10% compared to 2003, but up 3% compared to 2002 (Figure IV-1). Since 1989, the only years with a greater chinook harvest than 2004 were 1995 (895,900 fish) and 2003 (886,401 fish). Average weight per chinook decreased slightly compared to 2003 (Appendix D, Tables D-1, D-2, and D-3). Coho catch increased in 2004 to 22,600 fish, up from 15,700 fish recorded in 2003, and 1,700 in 2002. Coho average weight per fish increased 17% for Oregon landings and 13% for Washington landings. The 2004 coastwide inflation-

adjusted exvessel value of the Council-managed salmon harvest increased 39% over 2003 and was the highest since 1989 (Figure IV-4). In 2004, about 50% of the coastwide chinook harvest (by weight) was taken in California from the San Francisco area south, compared to 32% in 2003, 46% in 2002 and 72% in 2000 (Table IV-6, IV-7, and IV-8). Compared with 2003, chinook harvest (by weight) in 2004 was down 3% in California, 22% in Oregon and 39% in Washington.

Ocean Commercial Salmon Harvesters

Based on Pacific Coast Fisheries Information Network (PacFIN) data 1,295 vessels participated in the West Coast commercial salmon fishery in 2004, up 16% from the 2003 total of 1,113, and up 10% from a total of 1,177 vessels in 2002. The coastwide vessel counts from PacFIN are lower than the totals derived from Appendix D state-level tables because vessels may be counted in more than one state and because of differences in the degree of data completeness at the time the data are summarized. Summing the number of vessels shown landing salmon in the individual states (Tables D-4 through D-6) gives a count of 1,419 vessels in 2004, 1,160 in 2003, and 1,257 in 2002.

The active fleet in California increased by 154 vessels to 738 in 2004. This follows a reduction of 124 vessels to 584 in 2003, from a total of 708 vessels that landed salmon in California in 2002. The 584 vessels reported landing salmon in 2003 was the lowest participation since before 1960 (Table D-4). The active fleet in Oregon increased by 101 to 595 vessels landing salmon in 2004. This is the largest number of reported vessels in Oregon since 1993 (Table D-5). In Oregon, new salmon limited entry permits were issued in a lottery, as the number of permitted vessels had fallen below 1,200, the legislatively mandated minimum number of permits. The active fleet in Washington increased by four vessels to 86 vessels landing salmon in 2004 (Table D-6). Coastwide, the number of limited entry salmon permits issued in 2004 decreased by 10 to 2,849 after falling by 62 the previous year. Landings were made on 50% of all permits in 2004, an increase from the 40-43% observed in the previous three years. From 1982 to 1991, during which time there was a moratorium on the issuance of salmon permits in all three West Coast states, an average of 5,765 of 8,419 total permits (68%) were used on an annual basis.

Coastwide in 2004, average inflation-adjusted exvessel value of salmon landings increased 13% compared to 2003, to \$20,409 per vessel. This was the highest average per vessel revenue observed, in both nominal and inflation-adjusted terms, since the time series began in 1978. Compared to 2003, average per vessel exvessel value increased in all three states. California was up 13%, and both Oregon and Washington were up 11%. Some caution needs to be exercised in interpreting the per vessel average. For example, the averages may be influenced as much by the entry or exit of a disproportionate number of small or large harvesters from one year to the next as by a change in the average revenues of those vessels remaining in the fishery.

Additional historical information on landings by vessel size, percentages of the fleet responsible for the majority of harvest, and harvest by residence of those participating in the fishery off each state is provided in Appendix D.

TABLE IV-1. Average monthly **exvessel** troll salmon **price** in dollars per dressed pound for **California, Oregon, and Washington** in 2004. (Page 1 of 1)

Species/Grade	March	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
CALIFORNIA											
Chinook ^{a/}	-	4.90	3.69	2.62	2.27	3.30	3.56	4.28	-	-	2.87
Coho	-	-	-	-	-	-	-	-	-	-	-
OREGON											
Chinook											
Large (>11 Pounds)	4.88	4.84	3.64	3.32	2.57	2.90	3.32	4.34	4.63	4.97	3.49
Medium (7-11 Pounds)	4.69	4.69	3.39	3.10	2.35	2.74	3.30	4.04	4.37	4.83	3.41
Small (<7 Pounds)	4.65	4.52	3.07	2.82	2.28	2.66	3.56	4.11	4.29	-	3.81
Ungraded Chinook	4.80	4.99	3.55	3.27	2.59	2.87	3.05	3.51	4.80	4.77	3.39
Weighted Average	4.78	4.78	3.53	3.25	2.52	2.85	3.23	4.02	4.65	4.81	3.45
Mixed Coho	-	-	-	-	1.08	1.29	1.24	-	-	-	1.24
WASHINGTON^{b/}											
Chinook											
Large (>11 Pounds)	-	-	3.22	1.79	1.59	2.06	2.67	-	-	-	1.96
Medium (8-11 Pounds)	-	-	3.15	1.67	1.54	2.09	2.88	-	-	-	2.68
Small (<8 Pounds)	-	-	2.21	1.62	1.19	1.41	3.70	-	-	-	2.50
Ungraded Chinook	-	-	-	-	-	-	-	-	-	-	0.42
Weighted Average	-	-	3.19	1.77	1.57	2.05	2.63	-	-	-	2.14
Mixed Coho	-	-	-	-	0.78	0.96	1.29	-	-	-	1.16

a/ Chinook salmon typically sold in two size categories. Prices paid in these categories are not extracted from dealer ticket information.

b/ Non-Indian data only.

TABLE IV-2. **Troll** chinook and coho landed in **California**, estimates of **exvessel value, and average price** (dollars per dressed pound) in nominal and real (2004) dollars.^{a/} (Page 1 of 1)

Year or Ave.	Chinook				Coho				Total ^{b/}	
	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)
1979	17,356	37,932	2.53	5.53	2,303	5,033	2.19	4.79	19,659	42,965
1980	12,741	25,530	2.27	4.55	408	818	1.36	2.73	13,149	26,347
1981-1985	13,417	18,555	2.25	4.05	905	950	1.94	2.72	14,322	19,504
1986-1990	18,754	30,396	2.55	3.65	735	693	1.36	2.57	19,489	31,089
1991	8,351	10,709	2.58	3.31	696	893	1.52	1.95	9,047	11,602
1992	4,487	5,625	2.74	3.43	18	23	1.63	2.04	4,505	5,647
1993	5,707	6,992	2.25	2.76	-	-	-	-	5,707	6,992
1994	6,437	7,723	2.07	2.48	-	-	-	-	6,437	7,723
1995	11,693	13,747	1.76	2.07	-	-	-	-	11,693	13,747
1996	5,984	6,904	1.44	1.66	-	-	-	-	5,984	6,904
1997	7,288	8,271	1.38	1.57	-	-	-	-	7,288	8,271
1998	3,060	3,435	1.66	1.86	-	-	-	-	3,060	3,435
1999	7,429	7,774	1.93	2.14	-	-	-	-	7,429	8,220
2000	10,303	11,157	2.01	2.18	-	-	-	-	10,303	11,157
2001	4,773	5,049	1.98	2.09	-	-	-	-	4,773	5,049
2002	7,776	8,100	1.55	1.62	-	-	-	-	7,776	8,100
2003	12,181	12,486	1.91	1.96	-	-	-	-	12,181	12,486
2004 ^{c/}	17,883	17,883	2.87	2.87	-	-	-	-	17,883	17,883

a/ These exvessel values do not include the postseason settlement payments some fishers may have received from buyers and therefore may underestimate the true payments received by fishers for their landings. Beginning circa 1999, these postseason settlements are believed to have grown for the California fishery. For 2002, the exvessel value reported here is believed to be under reported by roughly 5% to 10%.

b/ Does not include pink salmon landings.

c/ Preliminary.

TABLE IV-3. Troll chinook and coho landed in Oregon, estimates of exvessel value, and average price (dollars per dressed pound) in nominal and real (2004) dollars. (Page 1 of 1)

Year or Average	Chinook				Coho				Total ^{a/}	
	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)
1971-1975	2,036	6,570	0.89	2.92	3,658	12,092	0.64	2.08	5,694	18,662
1976-1980	5,366	12,370	2.16	5.05	6,407	15,395	1.51	5.65	11,773	27,765
1981-1988	4,039	6,041	2.57	4.12	5,534	3,955	1.66	2.44	9,573	9,996
1986-1990	6,094	13,460	2.59	3.52	3,801	2,529	1.40	2.14	9,895	8,906
1991	1,721	2,207	2.47	3.17	1,399	1,794	0.99	1.27	3,120	4,001
1992	2,490	3,121	2.46	3.08	222	278	1.08	1.35	2,712	3,400
1993	1,661	2,035	2.18	2.67	10	12	1.13	1.38	1,671	2,047
1994	690	828	2.40	2.88	-	-	-	-	690	828
1995	3,294	3,873	1.70	2.00	-	-	-	-	3,294	3,873
1996	3,007	3,470	1.56	1.80	-	-	-	-	3,007	3,470
1997	2,469	2,802	1.60	1.82	-	-	-	-	2,469	2,802
1998	2,297	2,579	1.64	1.84	-	-	-	-	2,297	2,579
1999	1,400	1,549	1.94	2.15	1	1	1.03	1.14	1,401	1,550
2000	2,988	3,236	2.02	2.19	75	81	1.06	1.15	3,064	3,318
2001	4,680	4,950	1.61	1.70	41	44	0.79	0.84	4,721	4,994
2002 ^{b/}	5,383	5,608	1.54	1.60	8	8	0.75	0.78	5,391	5,616
2003 ^{b/}	7,186	7,366	1.97	2.02	36	37	0.85	0.87	7,222	7,403
2004 ^{b/}	9,806	9,806	3.45	3.45	86	86	1.24	1.24	9,893	9,893

a/ Does not include pink salmon landings.

b/ Preliminary.

TABLE IV-4. **Non-Indian troll** chinook and coho landed in **Washington**, estimates of **exvessel value, and average price** (dollars per dressed pound) in nominal and real (2004) dollars.^{a/} (Page 1 of 1)

Year or Average	Chinook				Coho				Total ^{b/}	
	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)
1971-1975	2,714	8,871	0.89	2.93	3,060	10,026	0.66	2.17	5,775	18,898
1976-1980	5,313	12,686	2.39	5.53	6,086	14,497	1.67	3.88	11,399	27,183
1981-1985	3,279	3,392	2.66	4.12	2,642	2,216	1.52	2.21	5,921	5,608
1986-1990	4,246	1,875	2.57	3.73	2,484 ^{c/}	1,360	1.34	2.01	6,730	3,796
1991	783	1,004	2.54	3.26	343	440	1.13	1.44	1,126	1,444
1992	1,200	1,504	2.41	3.02	99	124	1.33	1.67	1,299	1,628
1993	728	892	2.21	2.70	67	82	1.01	1.24	795	974
1994	d/	d/	d/	d/	-	-	-	-	d/	d/
1995	d/	d/	d/	d/	91	107	0.83	0.98	91	107
1996	d/	d/	d/	d/	59	68	0.86	0.99	d/	d/
1997	125	142	1.55	1.76	-	-	-	0.00	125	142
1998	123	138	1.51	1.69	-	-	-	0.00	123	138
1999	377	417	1.90	2.10	19	21	0.88	0.97	396	438
2000	224	243	1.71	1.85	34	37	1.09	1.18	258	280
2001	349	369	1.44	1.52	34	36	0.69	0.73	383	405
2002	756	788	1.11	1.16	2	2	1.58	1.65	758	789
2003	951	975	1.15	1.18	40	41	0.74	0.76	991	1,016
2004 ^{e/}	1,079	1,079	2.14	2.14	106	106	1.16	1.16	1,185	1,185

a/ All values in this table are based on preliminary information available at the start of each year's salmon review.

b/ Does not include pink salmon landings.

c/ There was no legal coho fishery in 1988. The value used in this average for 1988 is for landings of fish caught south of Cape Falcon and seizures of illegal fish.

d/ Chinook were caught off Oregon and landed in Washington. Value information is not provided to preserve confidentiality.

e/ Preliminary.

TABLE IV-5. **Non-Indian troll** caught **pink** salmon landed in **Oregon and Washington**, estimates of exvessel value, and average price (dollars per dressed pound) in nominal and real (2004) dollars. (Page 1 of 1)

Year or Average ^{a/}	Oregon				Washington				Total	
	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)
1976-1980	167	398	0.75	1.70	1,200	2,700	0.54	1.24	1,367	3,098
1981-1985	129	215	0.74	1.21	287	485	0.41	0.68	416	700
1986-1990	41	59	0.77	1.07	57	77	0.66	0.92	98	136
1991	4	5	0.53	0.67	79	98	0.47	0.59	83	103
1993	b/	b/	0.62	0.74	5	6	0.54	0.64	5	6
1995	b/	b/	0.60	0.69	30	34	0.26	0.30	30	34
1997	b/	b/	0.56	0.62	b/	b/	0.20	0.22	b/	b/
1999	b/	b/	0.67	0.72	b/	b/	0.38	0.41	b/	b/
2001	1	1	0.58	0.60	b/	b/	0.22	0.23	1	1
2003	b/	b/	0.85	0.85	b/	b/	0.30	0.30	b/	b/

a/ Odd-year averages.

b/ Less than \$500.

TABLE IV-6. **Pounds of salmon landed** by the commercial **troll** ocean fishery for major **California** port areas.^{a/} (Page 1 of 1)

Year or Average	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	State Total
CHINOOK (thousands of dressed pounds)						
1976-1980	393	1,403	1,449	1,733	889	5,867
1981-1985	350	428	1,128	1,806	742	4,454
1986-1990	155	405	2,299	3,648	1,592	8,097
1991	4	79	467	1,685	1,004	3,238
1992	b/	1	21	996	613	1,632
1993	3	11	220	1,316	987	2,537
1994	b/	6	77	2,189	831	3,103
1995	5	26	130	3,277	3,197	6,633
1996	3	92	278	1,695	2,046	4,113
1997	b/	14	35	2,711	2,488	5,248
1998	1	22	35	1,081	709	1,847
1999	3	27	30	2,681	1,105	3,846
2000	3	20	354	2,607	2,148	5,131
2001	3	61	192	1,735	418	2,409
2002	54	108	872	3,060	912	5,008
2003	37	7	3,096	2,753	498	6,392
2004 ^{c/}	304	64	1,295	3,706	857	6,226
COHO (thousands of dressed pounds)						
1976-1980	360	391	277	109	48	1,184
1981-1985	89	104	89	54	9	345
1986-1990	22	43	136	53	9	262
1991	1	19	55	270	115	459
1992	-	b/	b/	10	1	11
1993	-	-	-	-	-	-
1994	-	-	-	-	-	-
1995	-	-	-	-	-	-
1996	-	-	-	-	-	-
1997	-	-	-	-	-	-
1998	-	-	-	-	-	-
1999	-	-	-	-	-	-
2000	-	-	-	-	-	-
2001	-	-	-	-	-	-
2002	-	-	-	-	-	-
2003	-	-	-	-	-	-
2004 ^{c/}	-	-	-	-	-	-

a/ The major port areas listed include the following ports: Crescent City includes minor catches made off Oregon and landed in Crescent City; Eureka includes Trinidad and Humboldt Bay; Fort Bragg includes Shelter Cove, Noyo Harbor, Mendocino, and Pt. Arena; San Francisco includes Bodega Bay, Sausalito, Berkeley, and Half Moon Bay; Monterey includes Santa Cruz, Moss Landing, Morro Bay, Avila, and all ports south of Pt. Conception.

b/ Fewer than 500 pounds.

c/ Preliminary.

TABLE IV-7. **Pounds of salmon landed** by the commercial troll ocean salmon fishery for major **Oregon** port areas.^{a/} (Page 1 of 1)

Year or Average	Astoria	Tillamook	Newport	Coos Bay	Brookings	State Total
CHINOOK (thousands of dressed pounds)						
1976-1980	171	118	530	908	700	2,427
1981-1985	92	45	271	638	386	1,432
1986-1990	52	264	829	2,118	468	3,731
1991	9	110	267	292	18	695
1992	17	108	676	206	7	1,013
1993	5 ^{b/}	86	460	182	28	761
1994		29	165	45	47	287
1995	6	96	1,330	453	55	1,941
1996	21	125	1,219	417	142	1,926
1997	3	32	1,053	381	73	1,542
1998	b/	66	953	326	52	1,398
1999	13	32	194	403	80	721
2000	89	97	532	648	114	1,481
2001	73	223	1,673	776	152	2,897
2002	330	275	1,442	1,223	218	3,488
2003	265	245	1,634	1,353	142	3,639
2004 ^{c/}	134	113	1,112	1,213	267	2,839
COHO (thousands of dressed pounds)						
1976-1980	385	660	1,190	1,661	357	4,252
1981-1985	133	293	451	550	111	1,537
1986-1990	73	473	693	648	69	1,957
1991	69	431	440	464	7	1,411
1992	6	33	112	55	b/	206
1993	8	1	-	-	-	9
1994	-	-	-	-	-	-
1995	-	-	-	-	-	-
1996	-	-	-	-	-	-
1997	-	-	-	-	-	-
1998	-	-	-	-	-	-
1999	1	-	-	-	-	1
2000	71	-	-	-	-	71
2001	50	b/	2	-	-	52
2002	6	5	-	-	-	11
2003	32	11	-	-	-	43
2004 ^{c/}	47	22	-	-	-	70

a/ The port areas listed include landings in the following ports: Astoria also includes Gearhart/Seaside and Cannon Beach; Tillamook also includes Garibaldi, Netarts, Pacific City, and Nehalem Bay; Newport also includes Depoe Bay, Siletz Bay, Salmon River, and Waldport; Coos Bay also includes Florence, Winchester Bay, Charleston, and Bandon; Brookings also includes Port Orford and Gold Beach.

b/ Fewer than 500 pounds.

c/ Preliminary.

TABLE IV-8. **Pounds** of salmon landed by the **non-Indian commercial troll** ocean salmon fishery for major **Washington** port areas.^{a/b/} (Page 1 of 1)

Year	Neah Bay	La Push	Westport	Ilwaco	Coastal Community Total	Puget Sound	State Total ^{c/}
CHINOOK (thousands of dressed pounds)							
1976-1980	288	421	919	261	1,889	426	1,543
1981-1985	88	32	370	74	564	124	689
1986-1990	71	17	234	48	371	122	493
1991	128	7	127	14	276	32	308
1992	160	46	232	10	447	58	507
1993	122	35	132	2	291	41	332
1994 ^{d/}	-	-	-	-	-	7	7
1995 ^{d/}	-	-	3	-	3	12	15
1996 ^{d/}	-	-	4	1	5	13	19
1997	20	e/	45	0	66	15	80
1998	30	0	34	0	64	18	82
1999	62	2	66	3	134	65	199
2000	85	1	38	8	131	e/	131
2001	97	0	138	6	241	0	241
2002	262	53	322	61	678	0	678
2003	470	67	243	29	810	12	821
2004	250	74	158	15	497	7	504
COHO (thousands of dressed pounds)							
1976-1980	600	786	1,066	678	3,130	496	3,626
1981-1985	133	63	277	142	616	128	744
1986-1990	70	19	97	53	239	19	259
1991	87	16	126	45	274	31	304
1992	25	13	21	4	63	12	75
1993	11	7	43	2	63	3	66
1994	-	-	-	-	-	-	-
1995	84	18	7	-	109	2	111
1996	45	1	23	0	68	e/	68
1997	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-
1999	7	1	4	1	12	9	21
2000	0	0	15	16	31	e/	31
2001	2	0	39	9	49	0	49
2002	-	-	e/	1	1	0	1
2003	11	12	21	8	52	2	54
2004	12	20	53	4	89	1	91

a/ All values in this table are based on preliminary information available at the start of each year's review.

b/ The major port areas listed may include smaller ports as follows: Neah Bay includes only Neah Bay; La Push also includes Kalaloch; Westport also includes Aberdeen, Bay City, Copalis Beach, Hoquiam, Moclips, Taholah, Bay Center, Grayland Beach, Raymond, South Bend, and Tokeland; Ilwaco also includes Long Beach, Nahcotta, Naselle, and all Columbia River Ports; Puget Sound includes all Puget Sound ports east of Neah Bay.

c/ State total includes landings where port of landing is not specified.

d/ There was no ocean commercial fishery for chinook north of Cape Falcon; however, chinook were caught off Oregon and landed in Washington.

e/ Fewer than 500.

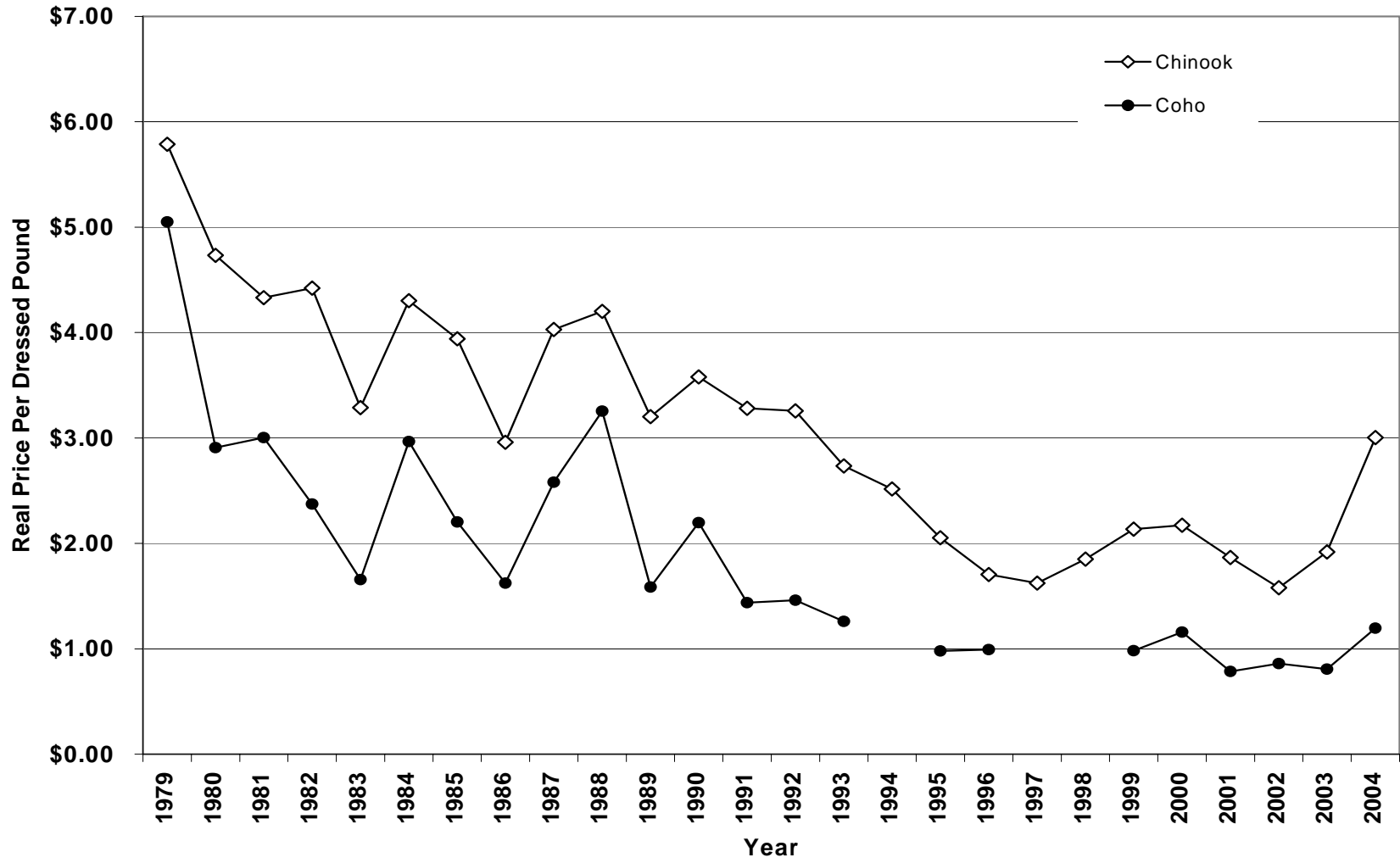


Figure IV-3. West Coast non-Indian ocean commercial salmon annual exvessel price trends (2004 dollars).

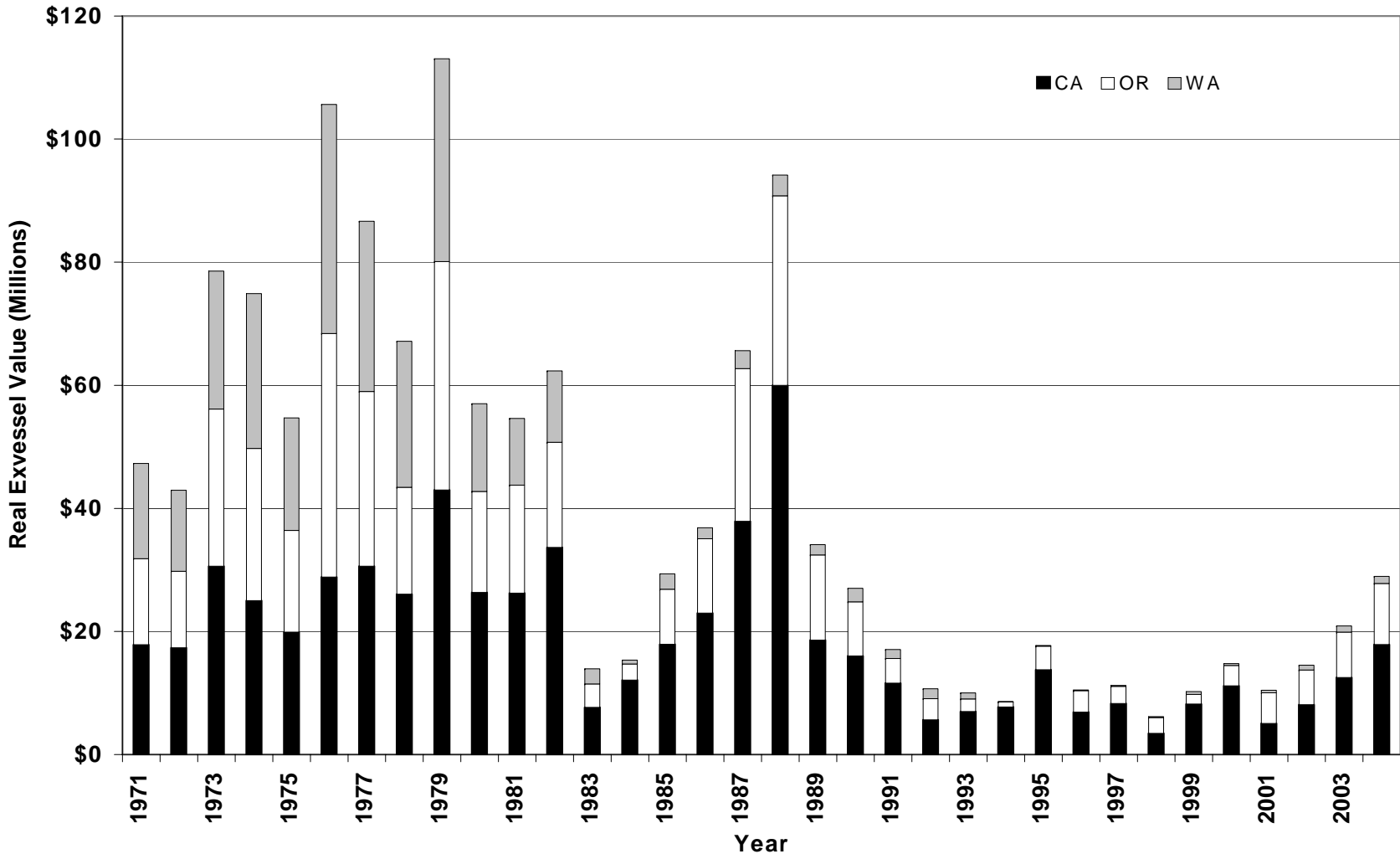


Figure IV-4. Exvessel value of West Coast non-Indian ocean commercial chinook and coho landings by state of landing (2004 dollars).

West Coast Treaty Indian Commercial Ocean Fishery

Treaty Indian commercial ocean fisheries off Washington are allocated a share of the total ocean salmon harvest. While some of the treaty Indian harvest is for ceremonial and subsistence purposes, the majority of the catch is commercial harvest. Commercial treaty Indian fisheries provide food to consumers and generate income in local and state economies through expenditures on harvesting, processing, and marketing of the catch. The treaty Indian commercial ocean fishery harvested 65,300 chinook (771,100 pounds) and 62,000 coho (384,100 pounds) in 2004, compared with 34,900 chinook (436,400 pounds) and 10,900 coho (62,200 pounds) in 2003 (Tables A-15 and D-3). The preliminary exvessel value of chinook and coho landed in 2004 is \$1,782,000 compared with an inflation-adjusted exvessel value of \$521,000 in 2003 (2004 values are projected based on PacFIN data).

Columbia River Commercial Fishery

Harvest in the ocean salmon fisheries affect inriver fisheries by affecting the number of fish available for inside treaty Indian and non-Indian harvest. Table IV-9 shows the exvessel value of Columbia River commercial harvest of chinook, coho and chum salmon. All prices and values in the table and the following discussion are reported in inflation-adjusted dollars. Exvessel prices for inriver gillnet catches of chinook vary considerably with race (spring versus fall chinook) and stock (tules versus brights). Spring chinook generally bring the highest prices and tule fall chinook and chum the lowest.

TABLE IV-9. **Exvessel values** (expressed in 2004 dollars) of inriver **commercial** harvest of **Columbia River** salmon.^{f/} (Page 1 of 1)

Fishery	Species	Average Price Per Landed Pound ^{g/} (dollars)						Exvessel Value (thousands of dollars)						Pounds (thousands)					
		1990-1999	2000	2001	2002	2003 ^{c/}	2004 ^{h/}	1990-1999	2000	2001	2002	2003 ^{c/}	2004 ^{c/}	1990-1999	2000	2001	2002	2003 ^{c/}	2004 ^{c/}
OREGON																			
Non-Indian ^{i/}	Chinook																		
Gillnet	Spring	3.88	2.92	2.79	3.07	2.62	3.72	396	248	621	971	387	1,027	92	85	222	316	147	276
	Fall Brights	1.38	1.18	0.73	0.57	0.72	1.37	1,896	117	123	198	412	560	887	100	169	349	574	409
	Tules	0.41	0.21	0.14	0.11	0.10	0.22	110	3	14	28	18	50	162	16	104	255	174	224
	Coho	1.29	0.57	0.30	0.34	0.52	0.90	1,091	548	392	389	796	679	646	949	1,323	1,148	1,522	755
	Chum	0.41	0.32	0.31	0.36	0.00	0.25	0	1	e/	e/	0	e/	2	4	e/	e/	0	e/
	TOTAL							3,494	917	1,151	1,586	1,612	2,316	1,789	1,154	1,819	2,069	2,417	1,664
Treaty ^{j/}	Chinook																		
All Gears	Spring	2.88	3.05	1.45	1.26	4.10	1.85	2	2	36	18	5	148	f/	1	25	14	1	80
	Fall Brights	1.27	0.89	1.06	0.86	0.70	1.13	796	105	7	4	13	538	430	117	7	5	19	476
	Tules	0.31	0.12	0.42	0.22	0.00	0.10	20	6	e/	e/	0	30	78	49	1	1	0	299
	Coho	0.88	0.67	0.42	0.00	0.00	0.59	6	5	e/	0	0	17	5	8	1	0	0	29
	TOTAL							824	118	43	22	19	733	513	175	32	20	20	884
WASHINGTON^{k/}																			
Non-Indian	Chinook																		
Gillnet	Spring	4.11	5.25	4.02	4.41	4.19	3.94	216	17	142	307	82	272	47	3	35	70	20	69
	Fall ^{l/}	1.31	1.02	0.57	0.48	0.59	1.29	714	142	70	103	264	431	365	138	122	215	448	334
	Coho	1.30	0.54	0.28	0.34	0.58	0.93	432	277	257	183	460	314	270	504	934	538	799	334
	Chum	0.39	0.12	0.19	0.19	0.15	0.25	1	e/	e/	e/	e/	e/	1	3	1	e/	e/	e/
	TOTAL							1,363	435	468	594	806	1,018	683	648	1,093	823	1,267	737
Treaty	Chinook																		
All Gears ^{f/m/}	Spring	4.39	2.07	1.34	1.23	1.09	1.57	6	55	296	227	145	165	1	27	221	185	133	105
	Fall ^{h/}	0.98	0.63	0.25	0.18	0.19	0.55	1,139	322	332	293	300	443	810	509	1,306	1,587	1,607	806
	Coho	0.95	0.45	0.11	0.13	0.11	0.14	16	14	7	3	3	5	12	30	68	22	23	35
	TOTAL							1,160	391	635	523	448	613	823	566	1,594	1,794	1,762	945
Columbia River Total								6,841	1,861	2,297	2,725	2,885	4,680	3,808	2,543	4,538	4,706	5,466	4,230

f/ Excluding pink and sockeye salmon, and steelhead.

g/ Gillnet exvessel salmon prices are recorded in round weight and therefore are not strictly comparable to exvessel troll prices.

h/ Preliminary. (All Washington values in this table are based on preliminary information available when each year's Salmon Review is drafted.)

i/ Mainstem below Bonneville and Select Areas (Youngs Bay, Tongue Point, Blind Slough, and Deep River).

j/ Treaty Indian landings and values do not include direct sales to consumers.

k/ Includes fall brights, tules, and jacks. Price changes may reflect a change in the mix of brights, tules, and jacks rather than annual price changes.

l/ Washington prices for years prior to 2000 are based on a combination of Washington and Oregon value information.

m/ Includes Klickitat dipnet, Drano Lake (Little White Salmon River mouth), and Priest Rapids Pool fisheries.

Total 2004 exvessel value of commercial salmon harvested in the Columbia River was \$4.68 million. This was 62% above the inflation adjusted 2003 level. Total 2004 exvessel value for non-Indian commercial salmon harvested in the Columbia River was \$3.3 million. This value is 38% above the 2003 level, but still 31% below the average value of the 1987 through 1999 harvest. It is instructive to note that the 62% increase in inflation-adjusted revenues was achieved in spite of a 23% reduction in 2004 landings compared with the previous year. The increase in revenue is due to relatively higher average exvessel prices received for Columbia River salmon in 2004 (Table IV-9).

The total 2004 exvessel value of treaty Indian salmon harvested in the Columbia River and sold on fish tickets was \$1.3 million. This is nearly triple the 2003 value, but still 32% below the average value of the 1987 through 1999 harvest. Note that these values include only those sales made to licensed fish buyers. Treaty Indian fisher sales to the public are accounted for in harvest monitoring (Table B-20), but estimates of the pounds and value of such sales are not included in Table IV-9. Anecdotal evidence indicates the volume of direct sales to the public has increased substantially in recent years.

Other Inside Commercial Fisheries

Puget Sound and Washington Coastal Inside Fisheries

Information on 2004 Puget Sound and Washington coastal inside fisheries is currently incomplete. Based on PacFIN data, the 1981 through 2003 inflation adjusted average exvessel value reported for all salmon species taken in the commercial non-Indian fisheries in Puget Sound and Washington coastal inside fisheries (excluding the Columbia River) was \$17.6 million. Of this, an average of \$4.5 million was for chinook and coho. In 2003, the total inflation adjusted exvessel values for the commercial non-Indian salmon fisheries in these areas were \$2.9 million for all salmon species, and \$0.6 million for chinook and coho. The preliminary values for 2004 are \$4.4 million for all salmon species and \$0.7 million for chinook and coho.

The 1981 through 2003 inflation-adjusted average exvessel value reported for all salmon species taken in the commercial treaty Indian fisheries in these areas was \$21.3 million. Of this, an average of \$7.5 million was for chinook and coho. In 2003, the total inflation adjusted exvessel value for the commercial non-Indian fisheries in these areas was \$6.7 million for all salmon species and \$2.1 million for chinook and coho. The preliminary values for 2004 are \$7 million for all salmon species and \$4.7 million for chinook and coho.

Klamath River Fisheries

From 1987 through 1989, catch in the Yurok and Hoopa Valley Reservation commercial Indian gillnet fisheries in the Klamath River estuary averaged about 27,500 chinook a year (some spring chinook were included in the 1989 commercial harvest). From 1989 through 1998 there was no commercial harvest in the estuary, except in 1996. There has been commercial harvest in the estuary in every year since 1999. The 1989 harvest of 27,700 chinook was sold for \$852,000 (unadjusted for inflation, \$1.2 million adjusted to 2004 dollars) and had an average per fish weight of 15.4 pounds. For the 1996 harvest of 3,129 spring chinook and 40,147 fall chinook, the value at first sale was estimated at \$525,000 (unadjusted for inflation, \$606,00 adjusted to 2004 dollars). The average weight of fish landed in 1996 was 13.5 pounds. Records are not available for the weight and value of harvests after 1996 as each Indian fisher now markets their fish independently. The commercial chinook harvest was 2,100 fish in 1999, 4,100 in 2000, and more than 10,000 chinook each year since 2000 (Appendix B, Table B-5).

CEREMONIAL AND SUBSISTENCE SALMON FISHERIES

In addition to the commercial Indian fisheries discussed above, fish are taken in Indian fisheries each year for ceremonial and subsistence purposes. Estimates of the amount of salmon used for ceremonial and subsistence purposes are documented in Appendix B. Discussion of the importance of ceremonial and subsistence fish to Indian communities is presented in Appendix B to Amendment 14 of the salmon FMP.

RECREATIONAL SALMON FISHERIES

Ocean

The preliminary number of vessel-based ocean salmon recreational angler trips taken on the West Coast in 2004 was 470,900, an increase of 19% from 2003, and 20% less than the 1979 through 1991 average. Compared with 2003, preliminary estimates of the number of trips taken in 2004 increased by 60% in California, increased by 1% in Oregon, and decreased by 9% in Washington. Note that Washington and total effort estimates in Tables IV-10 and IV-13 differ from those in Tables I-4 and Appendix A Table A-17 because the former exclude bank effort from the Columbia River north jetty.

Recreational salmon fishing takes place primarily in two modes, (1) anglers fishing from privately owned pleasure crafts, and (2) anglers employing the services of the charter boat fleet. In general, success rates on charter vessels tend to be higher than success rates on private vessels. There are small amounts of shore-based effort directed toward ocean area salmon, primarily fishing occurring off jetties and piers. The proportion of angler trips taken on charter vessels in Washington, Oregon and California in 2004 was generally comparable to observations from recent years. Figure IV-5 and Tables IV-10, IV-11, IV-12, and IV-13 display details of effort and catch by port area and mode for each state.

California

The preliminary estimate of total 2004 ocean salmon angler effort in California (215,700 angler trips) increased 60% compared to 2003, (Table IV-11) and was 15% above the 1979 through 1991 average. Effort increased fairly dramatically in all areas. In 2004, the proportion of California trips occurring on charter vessels was 45%. This is at the high end of the range (41% to 45%) observed since 1997 (Figure IV-5).

Angler success rates in California, measured in retained salmon per angler trip, increased to 1.03 salmon per day in 2004, compared with 0.71 and 0.87 salmon per day in 2003 and 2002, respectively. In 2004 anglers on charter vessels landed about 0.46 more salmon per day than anglers fishing from private vessels, compared with a differential of about 0.19 fish per day in 2002 and 2003. Since 1976, the differential between charter and private boat angler success rates has ranged from a low of 0.2 in 1991 up to 0.64 salmon per day in 1994.

Oregon

Ocean recreational salmon trips in 2004 in Oregon were up slightly to 145,700 trips from an estimated 144,500 angler trips in 2003. Totals for both years were more than one third above 2002 levels. Increases were noted in Tillamook and Brookings, but decreases occurred in Astoria and Newport. The charter industry share of Oregon recreational salmon trips in 2004 was about 14%, a slight reduction from recent years (Figure IV-5 and Table IV-12).

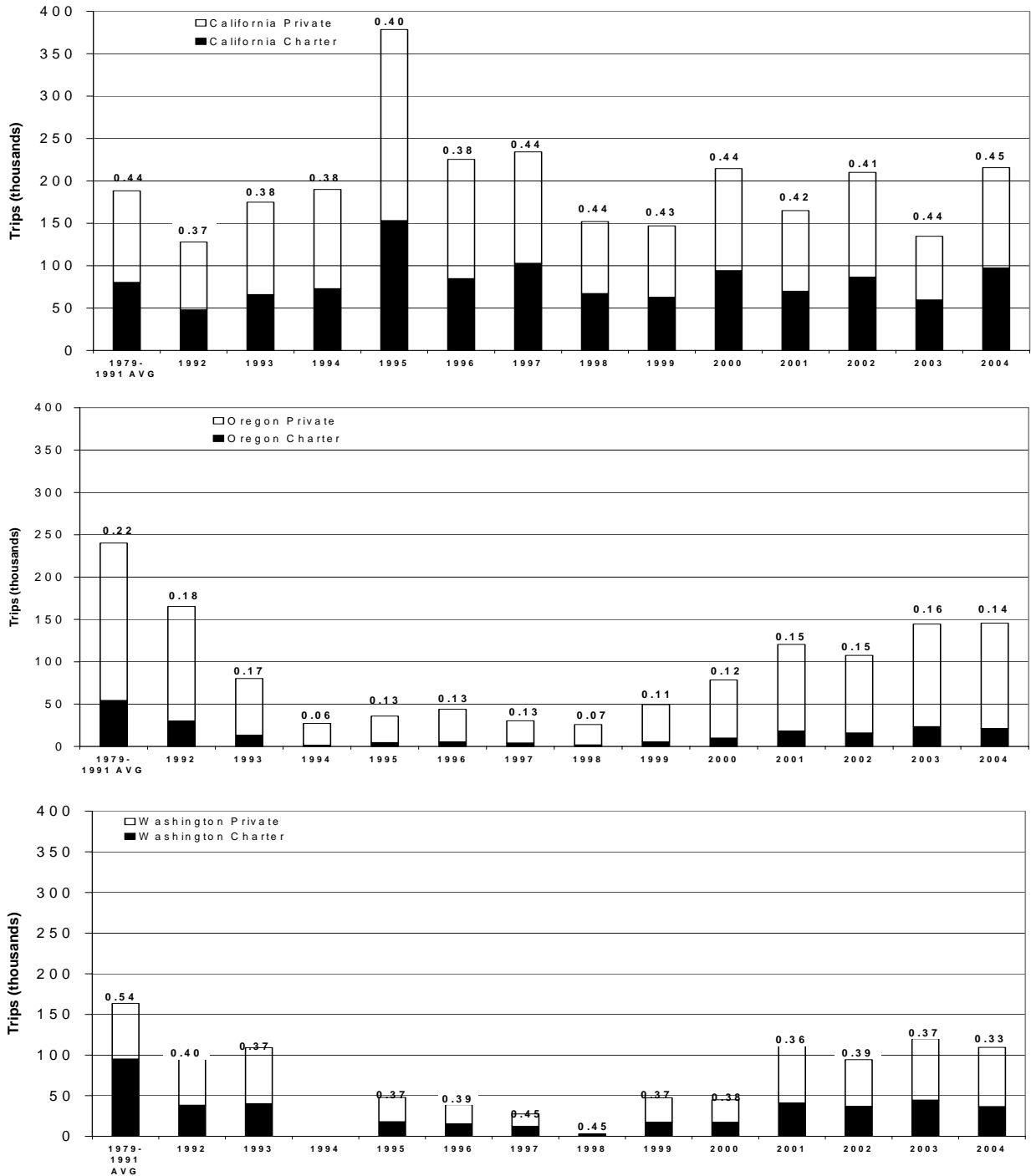


Figure IV-5. Total recreational ocean salmon trips for California, Oregon, and Washington, with proportion of charter trips shown above each bar.

TABLE IV-10. **California, Oregon, and Washington** ocean **recreational** salmon **effort** in thousands of angler trips and **catch** in thousands of fish by boat type. (Page 1 of 2)

Year or Average	Angler Trips		Chinook Catch ^{iv}		Coho Catch ^{av}	
	Charter	Private	Charter	Private	Charter	Private
CALIFORNIA						
1981-1985	68.9	78.1	74.6	34.4	1.5	18.3
1986-1990	95.9	144.8	100.1	66.3	5.3	35.1
1991	69.2	127.4	39.9	40.6	13.5	55.8
1992	47.7	80.2	42.4	31.1	1.0	10.5
1993	66.0	108.9	66.0	44.0	4.2 ^o	25.6
1994	72.8	117.1	99.1	84.1		0.5
1995	152.9	225.6	182.0	215.2	b/	0.9
1996	84.6	140.9	72.9	91.2	b/	0.6
1997	102.6	131.7	122.4	106.6	b/	0.5
1998	67.0	85.0	59.7	62.3	b/	0.1
1999	62.6	84.4	40.5	47.4	b/	0.6
2000	94.0	120.4	91.9	94.0	b/	0.4
2001	69.9	95.2	43.2	55.6	0.1	1.2
2002	86.6	123.4	85.1	96.9	b/	0.8
2003	59.4	75.3	48.3	46.4	0.1	0.6
2004 ^{pv}	97.2	118.5	124.3	96.0	b/	1.4
OREGON^{q/}						
1979	73.7	187.7	5.4	13.3	59.8	101.8
1980	79.1	218.9	5.1	11.9	98.3	207.5
1981-1985	45.7	187.9	6.2	26.9	48.0	117.6
1986-1990	56.5	184.6	7.0	28.8	71.6	148.4
1991	40.3	149.7	1.9	12.5	68.9	190.2
1992	30.0	135.4	2.7	9.9	46.2	139.6
1993	13.4	66.9	0.9	5.6	16.2	43.1
1994	1.4	25.5	0.5	5.5	-	b/
1995	4.6	31.2	0.3	6.4	4.0	7.9
1996	5.6	38.3	1.2	10.1	3.0	4.2
1997	3.9	26.4	1.5	6.2	2.4	3.6
1998	1.8	24.2	0.5	3.6	0.5	1.8
1999	5.5	43.9	0.9	6.9	3.4	10.3
2000	9.8	68.7	3.6	21.8	7.5	25.7
2001	18.2	102.3	6.4	20.8	19.3	75.0
2002	15.7	91.9	7.9	39.5	9.0	27.5
2003	23.4	121.1	8.8	31.8	23.7	90.0
2004 ^{cv}	21.1	124.6	14.6	41.8	13.1	58.8

TABLE IV-10. **California, Oregon, and Washington** ocean **recreational** salmon **effort** in thousands of angler trips and **catch** in thousands of fish by boat type. (Page 2 of 2)

Year or Average	Angler Trips		Chinook Catch ^{t/}		Coho Catch ^{a/}	
	Charter	Private	Charter	Private	Charter	Private
WASHINGTON^{s/t/}						
1979	220.8	89.8	61.1	15.7	227.9	62.4
1980	193.9	86.2	41.1	12.5	288.4	73.1
1981-1985	102.0	69.7	42.6	13.8	113.3	69.2
1986-1990	53.5	59.4	16.0	10.0	78.0	77.6
1991	43.7	69.6	5.0	7.3	80.2	111.6
1992	38.2	56.8	11.8	6.6	48.5	62.6
1993	40.2	68.9	5.8	6.9	52.8	62.3
1994	-	-	-	-	-	-
1995	17.9	30.0	b/	0.4	26.1	37.4
1996	15.3	23.5	b/	0.2	24.5	24.4
1997	12.5	15.1	1.7	2.3	12.5	12.8
1998	5.5	6.8	1.1	0.9	5.6	7.1
1999	17.5	29.9	5.7	4.1	16.3	23.7
2000	17.1	27.9	5.1	3.4	27.9	35.8
2001	41.2	72.4	11.9	10.8	66.2	98.2
2002	37.0	57.4	30.9	27.0	30.4	43.7
2003	44.5	75.5	16.0	18.1	53.4	84.9
2004 ^{c/}	36.4	73.1	10.3	14.6	37.6	75.1

n/ Catch numbers may include some illegal harvest.

o/ Fewer than 50 fish.

p/ Preliminary.

q/ Salmon data from surveyed ports only. These generally include Astoria, Garibaldi, Depoe Bay, Newport, Winchester Bay, Coos Bay, and Brookings. Since 1981, Pacific City and Florence have also been included. Gold Beach data are included from 1981-1987. Astoria was not included in 1994.

r/ Numbers do not include angling from the Columbia River jetty.

s/ Numbers do not include angling from the Columbia River jetty or from the late-season state waters Area 4B fishery.

t/ Values for 1982-1985 include some inriver Columbia River fishing after closure of the ocean fishery.

TABLE IV-11. Estimates of **California recreational** ocean salmon angler **trips** by port area and boat type. (Page 1 of 1)

Year or Average	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	State Total
CHARTER TRIPS (thousands)						
1976-1980	1.5	1.2	2.4	63.5	4.0	72.7
1981-1985	0.7	1.3	1.8	62.1	3.0	68.9
1986-1990	1.0	3.5	4.0	74.3	13.1	95.9
1991	1.0	2.1	5.4	43.7	17.0	69.2
1992	0.1	0.2	1.5	38.6	7.3	47.7
1993	0.4	1.0	2.0	53.2	9.4	66.0
1994	0.2	0.2	1.3	63.9	7.2	72.8
1995	0.1	0.7	3.8	79.2	68.9	152.9
1996	a/	0.6	5.0	57.6	21.4	84.6
1997	-	0.8	2.2	69.1	30.6	102.6
1998	-	0.3	2.7	44.2	19.7	67.0
1999	-	0.4	2.3	51.0	8.9	62.6
2000	0.1	1.6	8.6	53.9	29.9	94.0
2001	a/	1.4	9.7	43.4	15.4	69.9
2002	-	1.6	10.7	54.9	19.4	86.6
2003	-	1.1	8.2	38.7	11.4	59.4
2004 ^{b/}	a/	1.9	10.7	63.1	21.5	97.2
PRIVATE TRIPS (thousands)						
1976-1980	18.4	22.7	9.3	34.4	6.0	90.8
1981-1985	22.4	21.8	7.8	16.8	9.3	78.1
1986-1990	38.6	34.4	11.4	24.3	36.1	144.8
1991	24.5	25.3	17.2	26.5	33.8	127.4
1992	9.0	8.9	9.7	23.4	29.1	80.2
1993	15.0	17.3	17.4	29.6	29.7	108.9
1994	9.4	6.3	18.1	43.7	39.6	117.1
1995	11.8	12.0	25.4	62.2	114.2	225.6
1996	11.3	13.6	26.2	46.6	43.2	140.9
1997	6.6	11.6	18.0	42.1	53.5	131.7
1998	3.3	6.4	5.7	36.9	32.7	85.0
1999	5.8	11.6	7.9	38.8	20.3	84.4
2000	7.2	11.5	17.0	29.8	54.9	120.4
2001	8.6	14.7	21.1	28.1	22.7	95.2
2002	3.9	16.1	21.1	33.9	48.5	123.4
2003	2.2	12.5	15.5	27.9	17.1	75.3
2004 ^{b/}	3.1	20.5	19.8	42.7	32.3	118.5
TOTAL TRIPS (thousands)						
1976-1980	20.0	23.9	11.7	97.9	10.0	163.5
1981-1985	23.1	23.1	9.6	78.9	12.2	147.0
1986-1990	39.6	37.9	15.4	98.6	49.2	240.7
1991	25.6	27.4	22.6	70.2	50.8	196.6
1992	9.1	9.1	11.2	62.0	36.4	127.9
1993	15.4	18.3	19.3	82.8	39.1	174.9
1994	9.7	6.4	19.4	107.6	46.8	189.9
1995	11.9	12.8	29.3	141.5	183.1	378.5
1996	11.3	14.2	31.3	104.2	64.5	225.4
1997	6.6	12.4	20.2	111.2	84.0	234.4
1998	3.3	6.7	8.3	81.0	52.4	151.8
1999	5.8	12.0	10.2	89.8	29.2	147.1
2000	7.2	13.1	25.6	83.7	84.8	214.4
2001	8.6	16.0	30.8	71.5	38.2	165.1
2002	3.9	17.7	31.8	88.8	67.9	210.1
2003	2.2	13.6	23.7	66.6	28.5	134.6
2004 ^{b/}	3.1	22.4	30.5	105.8	53.8	215.7

a/ Fewer than 50 trips.

b/ Preliminary.

TABLE IV-12. Estimates of Oregon recreational ocean salmon angler trips by port area and boat type. (Page 1 of 1)

Year or Average	Astoria	Tillamook	Newport	Coos Bay	Brookings	State Total
CHARTER TRIPS (thousands)						
1979	18.5	2.8	26.7	22.7	3.0	73.7
1980	26.3	3.7	26.7	19.6	2.8	79.1
1981-1985	10.3	3.0	17.2	11.9	3.3	45.7
1986-1990	7.1	5.3	27.5	12.9	3.6	56.5
1991	8.1	2.5	19.2	8.4	2.1	40.3
1992	4.6	2.7	14.8	7.4	0.5	30.0
1993	5.8	0.5	4.7	1.8	0.6	13.4
1994	0.0 ^{a/}	1.2	b/	b/	0.2	1.4
1995	2.5	1.2	0.6	b/	0.3	4.6
1996	1.9	0.8	2.1	0.1	0.6	5.6
1997	1.3	0.3	1.8	0.0	0.5	3.9
1998	0.4	0.1	0.8	0.2	0.3	1.8
1999	1.7	0.3	2.3	0.5	0.7	5.5
2000	1.2	0.6	4.8	2.3	0.8	9.8
2001	4.3	1.4	8.8	3.0	0.7	18.2
2002	3.1	1.6	7.1	3.5	0.3	15.7
2003	3.9	2.0	13.0	4.0	0.5	23.4
2004 ^{c/}	3.0	2.5	11.1	3.8	0.6	21.1
PRIVATE TRIPS (thousands)						
1979	24.3	16.3	45.4	52.9	48.8	187.7
1980	20.1	29.3	56.6	65.2	47.7	218.9
1981-1985	15.6	27.0	40.3	51.8	52.9	187.8
1986-1990	10.5	23.7	47.1	48.3	54.8	184.5
1991	13.6	18.5	34.0	49.3	34.4	149.7
1992	8.3	23.4	38.3	48.2	17.2	135.4
1993	12.7	5.1	12.4	13.6	23.2	66.9
1994	0.0 ^{a/}	9.1	0.1	0.4	16.0	25.5
1995	7.2	3.9	0.4	0.7	19.1	31.2
1996	3.7	7.5	0.6	3.8	22.7	38.3
1997	2.3	3.4	0.6	3.9	16.1	26.4
1998	1.7	5.9	0.5	2.2	13.8	24.2
1999	5.7	10.9	5.0	7.1	15.1	43.8
2000	7.2	10.9	8.2	21.2	21.2	68.7
2001	19.0	15.1	14.8	28.1	25.4	102.3
2002	9.0	22.8	10.9	29.9	19.4	91.9
2003	15.4	26.0	26.5	38.9	14.3	121.1
2004 ^{c/}	15.7	26.7	27.9	36.7	17.7	124.6
TOTAL TRIPS (thousands)						
1979	43.3	31.0	72.4	94.7	60.0	301.3
1980	46.3	47.8	83.9	97.4	56.0	331.4
1981-1985	26.0	30.0	57.5	63.7	56.3	233.6
1986-1990	17.7	29.0	74.6	61.4	58.4	241.1
1991	21.7	21.0	53.3	57.7	36.4	190.1
1992	12.9	26.1	53.1	55.6	17.7	165.3
1993	17.8	5.6	17.1	15.3	23.8	79.6
1994	0.0 ^{a/}	10.3	0.1	0.4	16.2	26.9
1995	9.6	5.1	0.9	0.7	19.4	35.8
1996	5.6	8.3	2.8	3.9	23.3	44.0
1997	3.6	3.7	2.4	3.9	16.6	30.2
1998	2.1	6.0	1.3	2.4	14.1	26.0
1999	7.4	11.2	7.4	7.6	15.8	49.4
2000	8.4	11.5	13.0	23.6	22.0	78.6
2001	23.2	16.5	23.6	31.1	26.1	120.5
2002	12.1	24.4	18.1	33.4	19.7	107.6
2003	19.2	28.0	39.6	42.9	14.8	144.4
2004 ^{c/}	18.7	29.2	39.0	40.5	18.3	145.7

a/ The fishery north of Cape Falcon was closed, and it is assumed that no trips were taken out of Astoria into the south of Cape Falcon area. No samplers were stationed in Astoria.

b/ Fewer than 50 trips.

c/ Preliminary.

TABLE IV-13. Estimates of **Washington recreational** ocean salmon angler **trips** by port area. (Page 1 of 1)

Year or Average	Neah Bay ^{a/}	La Push	Westport	Columbia River ^{b/}	Coastal Area Total
CHARTER TRIPS (thousands)					
1984 ^{c/}	0.3	0.0	11.6	18.0	29.9
1985 ^{c/}	2.0	0.0	42.2	20.7	64.9
1986-1990	2.0	0.0	35.7	15.9	53.5
1991	1.4	0.2	28.6	13.5	43.7
1992	0.7	0.2	28.1	9.2	38.2
1993	1.0	0.1	27.4	11.7	40.2
1994	-	-	-	-	-
1995	0.2	0.1	12.7	5.0	17.9
1996	0.2	d/	10.3	4.8	15.3
1997	0.1	0.1	10.0	2.4	12.5
1998	0.0	0.0	4.5	1.1	5.5
1999	0.5	0.1	11.5	5.5	17.5
2000	0.7	0.1	12.2	4.1	17.1
2001	1.4	0.3	25.6	13.9	41.2
2002	1.5	0.4	24.5	10.6	37.0
2003	2.0	0.9	27.3	14.3	44.5
2004 ^{e/}	1.9	0.6	22.5	11.4	36.5
PRIVATE TRIPS (thousands)					
1984 ^{c/}	8.3	0.2	2.3	36.0	46.8
1985 ^{c/}	15.2	1.5	13.7	19.4	49.8
1986-1990	16.9	2.5	16.6	23.4	59.4
1991	14.8	3.3	24.2	27.3	69.6
1992	11.0	2.3	25.6	17.9	56.8
1993	18.4	2.8	23.5	24.2	68.9
1994	-	-	-	-	-
1995	5.3	1.4	9.0	14.2	30.0
1996	9.1	1.3	5.2	7.9	23.5
1997	2.8	0.9	7.3	4.1	15.1
1998	0.0	0.6	3.5	2.6	6.8
1999	7.6	2.9	7.6	11.8	29.9
2000	7.2	1.8	7.7	11.1	27.9
2001	16.6	3.1	24.1	28.7	72.4
2002	12.2	3.0	16.9	25.3	57.4
2003	18.4	3.5	20.7	32.9	75.5
2004 ^{e/}	24.2	3.9	15.7	29.2	73.1
TOTAL TRIPS (thousands)					
1984 ^{c/}	8.6	0.2	13.9	54.0	76.7
1985 ^{c/}	17.2	1.5	55.9	40.1	114.7
1986-1990	18.9	2.5	52.3	39.3	113.0
1991	16.2	3.5	52.8	40.8	113.3
1992	11.7	2.5	53.7	27.1	95.0
1993	19.4	2.9	50.9	35.9	109.1
1994	-	-	-	-	-
1995	5.5	1.5	21.7	19.2	47.9
1996	9.3	1.3	15.5	12.7	38.8
1997	2.9	0.9	17.3	6.5	27.6
1998	0.0	0.6	8.0	3.7	12.3
1999	8.1	2.9	19.1	17.3	47.4
2000	7.9	2.0	19.8	15.2	45.0
2001	17.9	3.4	49.7	42.5	113.6
2002	13.7	3.4	41.4	35.9	94.4
2003	20.4	4.4	48.0	47.1	120.0
2004 ^{e/}	40.6	38.2	4.6	26.1	109.5

a/ Does not include effort from the late-season state water Area 4B fishery.

b/ Does not include effort from the Columbia River Jetty.

c/ Values for 1984 and 1985 include some Columbia River fishing after closure of the ocean fishery.

d/ Fewer than 50 trips.

e/ Preliminary.

From 1984 to 1993, coho comprised 87% of the recreational fishery catch. From 1994 through 1998 the lack of opportunity to retain coho south of Cape Falcon generally resulted in much lower angler success rates. With the opportunity to retain coho in mark-selective fisheries south of Cape Falcon beginning in 1999, salmon retention rates nearly doubled in 1999 to 0.43, from 0.25 in 1998. Between 2000 through 2003, retention rates ranged between 0.75 and 1.1 salmon per angler day. The retention rate for 2004 was near the middle of this range at 0.88.

Washington

In 2004, 109,500 ocean angler trips were taken on vessels on the Washington coast, a decrease of 9% from 120,000 trips taken in 2003, but still well above effort levels observed between 1994 and 2000. The relatively high level of activity observed in recent years is primarily due to management under mark-selective fishery regulations for coho. The proportion of Washington angler trips taken on charter vessels fell to 33% in 2004 from 37% in 2003 and 39% in 2002 (Figure IV-5 and Table IV-13). This is the lowest charter share for Washington shown in Figure IV-5.

Angler success rates (in terms of retained fish per angler trip) declined to 1.26 in 2004 from 1.44 in 2003 and 1.40 in 2002. The average retention rate between 1979 and 2000 was 1.41 salmon per trip. Note that these figures do not include angler effort that occurs from the ocean side of the Columbia River jetty, or angler effort in the state managed Area 4B add-on fishery (which has not opened since 2000).

In an effort to increase angler participation in non-salmon recreational fishing and to extend the length of the salmon season, partial-week closures were used in the recreational fishery north of Cape Falcon beginning in 1985. Sunday through Thursday openings were used beginning in 1996 in the Westport and Columbia River port areas, but the Neah Bay and La Push areas were generally open seven days a week. In 2004, Westport and Columbia River areas switched from partial-week openings to seven-day-a-week openings beginning on July 23rd. Compared with 2003, bottomfish trips in 2004 decreased on the Washington coast (Table IV-14). This shift may be partially due to increased restrictions on recreational bottom fishing. (Note that bottomfish trips are reported for Washington only).

Buoy 10 and Area 4B Add-On Fisheries

Angler retention rates in the Buoy 10 fishery fell from 0.80 salmon per day in 2003 to 0.46 salmon per day in 2004. However this is still higher than the 2002 average catch rate of 0.31 salmon per day. Effort in 2004 was down 22%, compared with 2003, to about 69,000 trips (Table IV-15).

In 2000, about 3,400 trips were made in the late-season Area 4B add-on fishery. Since that time there have been no late season fisheries because adequate opportunity was provided in the ocean fishery (Table IV-15).

There are numerous other inside recreational salmon fishing opportunities in Puget Sound and coastal streams and estuaries that are not discussed in this chapter of the review. See Appendix B for estimates of harvest in some of these other fisheries.

TABLE IV-14. Oregon and Washington recreational salmon, bottomfish, and sturgeon angler trips by ocean port area and boat type for the area north of Cape Falcon. (Page 1 of 3)

Year	Columbia River and Buoy 10					Westport			La Push			Neah Bay and Area 4B Add On		
	Charter	Private	Subtotal	Jetty	Total	Charter	Private	Total	Charter	Private	Total	Charter	Private	Total
SALMON EFFORT (thousands)														
1984	NA	NA	-	NA	54.0	11.6	2.3	13.9	0.0	0.2	0.2	0.3	8.3	8.6
1985	NA	NA	-	NA	90.3	42.2	13.7	55.9	0.0	1.5	1.5	2.0	15.2	17.2
1986	NA	NA	-	NA	144.3	36.6	14.8	51.4	0.0	1.7	1.7	2.4	17.4	19.8
1987	39.5	130.0	169.5	12.4	181.9	34.1	9.8	43.9	0.0	2.0	2.0	1.9	17.8	19.7
1988	34.5	154.4	188.9	16.9	205.8	23.5	13.9	37.4	0.0	2.8	2.8	2.0	14.8	16.8
1989	40.4	169.2	209.6	22.9	232.5	40.8	18.7	59.5	0.0	1.6	1.6	2.8	25.5	28.3
1990	32.8	128.7	161.5	5.7	167.2	43.4	25.9	69.3	0.0	4.2	4.2	3.0	30.8	33.8
1991	37.9	172.7	210.6	35.5	246.1	28.6	24.2	52.8	0.2	3.3	3.5	1.9	23.5	25.4
1992	22.3	116.6	138.9	28.4	167.3	28.1	25.6	53.7	0.2	2.3	2.5	1.1	18.6	19.7
1993	20.2	103.3	123.5	24.6	148.1	27.4	23.5	50.9	0.1	2.8	2.9	1.6	25.7	27.3
1994	0.5	6.3	6.8	3.6	10.4	-	-	-	-	-	-	-	-	-
1995	9.0	43.4	52.4	8.5	60.9	12.7	9.0	21.7	0.1	1.4	1.5	0.3	9.2	9.5
1996	7.3	26.8	34.1	7.5	41.6	10.3	5.2	15.5	//	1.3	1.3	0.3	10.6	10.9
1997	8.4	53.0	61.3	7.4	68.7	10.0	7.3	17.3	0.1	0.9	0.9	0.2	4.6	4.8
1998	3.2	30.7	33.9	3.6	37.5	4.5	3.5	8.0	0.0	0.6	0.6	0.1	6.3	6.4
1999	8.7	63.9	72.6	6.2	78.8	11.5	7.6	19.1	0.1	2.9	2.9	0.5	7.6	8.1
2000	9.8	82.2	92.0	7.0	99.0	12.2	7.7	19.8	0.1	1.8	2.0	1.1	10.3	11.4
2001	22.5	165.0	187.5	17.0	204.5	25.6	24.1	49.7	0.3	3.1	3.4	1.4	16.8	18.1
2002	15.2	115.1	130.3	2.8	133.1	44.5	16.9	41.4	0.4	3.0	3.4	1.5	12.2	13.7
2003	19.3	133.3	152.7	7.2	159.8	27.3	20.7	48.0	0.9	3.5	4.4	2.0	18.4	20.4
2004 ^{9/}	15.8	113.3	129.2	3.2	132.3	22.5	15.7	38.2	0.6	3.9	4.6	1.9	24.2	26.1

TABLE IV-14. Oregon and Washington recreational salmon, bottomfish, and sturgeon angler trips by ocean port area and boat type for the area north of Cape Falcon. (Page 2 of 3)

Year	Columbia River and Buoy 10					Westport			La Push			Neah Bay and Area 4B Add On		
	Charter	Private	Subtotal	Jetty	Total	Charter	Private	Total	Charter	Private	Total	Charter	Private	Total
BOTTOMFISH EFFORT (thousands)^{iv}														
1984	2.1	0.1	2.2	-	-	12.4	0.5	12.9	0.0	0.0	0.0	1.8	12.3	14.1
1985	1.9	0.2	2.1	-	-	15.3	1.0	16.3	0.0	0.1	0.1	3.0	10.6	13.6
1986	1.7	0.2	1.9	-	-	19.6	0.8	20.4	0.0	0.2	0.2	3.5	11.4	14.9
1987	1.7	0.3	2.0	0.5	2.5	21.1	1.2	22.3	0.0	0.5	0.5	5.6	16.0	21.6
1988	2.1	0.2	2.3	0.8	3.1	24.4	1.1	25.5	0.0	0.7	0.7	5.7	14.8	20.5
1989	1.2	0.6	1.8	1.5	3.3	19.3	1.0	20.3	0.0	0.6	0.6	6.8	16.3	23.1
1990	1.4	0.3	1.7	2.4	4.1	21.8	0.8	22.6	0.0	0.8	0.8	6.4	18.1	24.5
1991	1.3	0.4	1.7	1.8	3.5	23.5	1.1	24.6	0.0	0.9	0.9	5.9	18.2	24.1
1992	1.4	0.5	1.9	2.3	4.1	20.5	2.2	22.7	0.0	1.5	1.5	4.8	19.1	23.9
1993	2.2	0.6	2.8	2.6	5.4	21.5	1.8	23.0	0.1	1.1	1.2	5.1	19.2	24.3
1994	2.7	0.7	3.3	2.7	6.0	26.0	1.7	27.7	0.2	1.9	2.1	4.1	15.0	19.1
1995	1.3	0.9	2.3	2.2	4.4	21.1	1.6	22.7	<i>a/</i>	1.6	1.6	4.1	19.2	23.3
1996 ^{ivj/}	1.2	0.5	1.7	1.7	3.4	21.4	1.2	22.6	0.0	1.6	1.6	4.8	21.0	25.8
1997	1.2	0.7	2.0	2.5	4.4	19.2	1.4	20.6	0.0	2.2	2.2	4.9	22.7	27.7
1998	1.8	0.5	2.3	0.9	3.2	21.5	1.3	22.8	0.0	1.2	1.2	5.1	23.9	29.0
1999	1.0	0.5	1.5	0.5	2.0	17.1	1.2	18.3	0.1	1.0	1.1	4.5	20.3	24.9
2000	1.2	0.6	1.8	0.5	2.3	16.7	0.9	17.6	0.2	1.3	1.5	4.5	20.1	24.6
2001	2.8	0.4	3.2	0.9	4.1	13.9	1.2	15.1	0.3	0.9	1.2	4.7	16.5	21.2
2002	14.3	0.5	1.9	0.8	2.8	14.9	1.2	16.1	0.3	1.2	1.6	4.0	15.7	19.7
2003	2.4	0.5	2.9	0.9	3.8	16.3	1.8	18.2	1.0	2.5	3.6	5.2	21.4	26.6
2004 ^{b/}	2.4	0.8	3.2	0.3	3.5	14.8	1.7	16.5	0.4	1.7	2.1	3.5	15.2	18.7

TABLE IV-14. Oregon and Washington recreational salmon, bottomfish, and sturgeon angler trips by ocean port area and boat type for the area north of Cape Falcon. (Page 3 of 3)

Year	Columbia River and Buoy 10					Westport			La Push			Neah Bay and Area 4B Add On			
	Charter	Private	Subtotal	Jetty	Total	Charter	Private	Total	Charter	Private	Total	Charter	Private	Total	
STURGEON EFFORT (thousands of trips)^{k/}															
1984	1.7	28.4	30.1	-	30.1	-	-	-	-	-	-	-	-	-	-
1985	5.0	32.9	37.9	-	37.9	-	-	-	-	-	-	-	-	-	-
1986	5.7	37.7	43.4	-	43.4	-	-	-	-	-	-	-	-	-	-
1987	6.0	45.9	51.9	-	51.9	-	-	-	-	-	-	-	-	-	-
1988	6.2	34.4	40.6	-	40.6	-	-	-	-	-	-	-	-	-	-
1989	4.3	24.3	28.6	-	28.6	-	-	-	-	-	-	-	-	-	-
1990	3.9	30.9	34.8	-	34.8	-	-	-	-	-	-	-	-	-	-
1991	3.7	28.7	32.4	-	32.4	-	-	-	-	-	-	-	-	-	-
1992	5.0	42.3	47.3	-	47.3	-	-	-	-	-	-	-	-	-	-
1993	6.1	53.2	59.3	-	59.3	-	-	-	-	-	-	-	-	-	-
1994	7.5	43.9	51.4	-	51.4	-	-	-	-	-	-	-	-	-	-
1995	7.7	59.5	67.2	-	67.2	-	-	-	-	-	-	-	-	-	-
1996	11.1	52.8	63.9	-	63.9	-	-	-	-	-	-	-	-	-	-
1997	12.2	48.4	60.7	-	60.7	-	-	-	-	-	-	-	-	-	-
1998	14.2	64.3	78.5	-	78.5	-	-	-	-	-	-	-	-	-	-
1999	13.2	57.1	70.3	-	70.3	-	-	-	-	-	-	-	-	-	-
2000	11.6	57.6	69.2	-	69.2	-	-	-	-	-	-	-	-	-	-
2001	10.8	45.1	55.9	-	55.9	-	-	-	-	-	-	-	-	-	-
2002	9.9	49.3	59.3	-	59.3	-	-	-	-	-	-	-	-	-	-
2003	6.6	38.1	44.7	-	44.7	-	-	-	-	-	-	-	-	-	-
2004 ^{b/}	7.4	32.2	39.6	-	39.6	-	-	-	-	-	-	-	-	-	-

f/ Fewer than 50 angler trips.

g/ Preliminary.

h/ Oregon data is a minimum estimate, as the jetty is not sampled, and bottomfish sampling of vessels only occurs when the ocean is open for salmon.

i/ No Oregon bottomfish trips are included.

j/ Includes tuna trips: Ilwaco - 9 charter, 14 private; Westport - 784 charter, 0 private.

k/ Annual sturgeon angler trips for the lower Columbia River from the western tip of Puget Island to mouth.

TABLE IV-15. Buoy 10 and Area 4B add-on recreational salmon angler trips and catch by boat type.^{a/} (Page 1 of 2)

Year or Average	Angler Trips			Chinook Catch			Coho Catch			Pink Catch	
	Charter	Private	Jetty	Charter	Private	Jetty	Charter	Private	Jetty	Charter	Private
OREGON BUOY 10											
1987-1990	4,002	38,619	4,029	793	6,415	29	3,292	18,348	690	0	0
1991	4,077	46,468	6,884	321	2,692	26	6,543	54,720	3,003	0	0
1992	2,496	29,610	6,055	246	2,530	33	1,219	10,716	1,842	0	0
1993	684	20,244	6,052	36	1,225	89	264	5,316	1,328	0	0
1994	210	2,732	1,244	-	-	-	34	481	211	0	0
1995	174	8,680	2,538	7	145	0	64	1,366	560	0	0
1996	179	6,122	2,285	59	419	0	66	1,361	532	0	0
1997	1,071	16,207	2,744	273	4,032	0	592	5,411	761	0	0
1998	588	9,949	631	145	2,191	0	59	1,169	31	0	0
1999	454	19,030	1,370	125	3,834	9	18	3,357	146	0	0
2000 ^{b/}	836	27,492	2,129	26	3,083	4	297	7,523	295	0	0
2001 ^{b/}	1,616	54,444	4,115	47	5,578	10	1,481	56,403	523	0	0
2002 ^{b/}	512	39,943	1,589	31	10,759	0	2	3,060	52	0	0
2003 ^{b/}	991	45,461	2,315	47	7,903	0	624	28,518	526	0	0
2004 ^{b/c/}	66	33,092	1,170	19	9,191	0	17	7,585	47	0	0
WASHINGTON BUOY 10											
1987-1990	10,678	71,927	6,567	1,907	14,398	68	8,353	40,415	1,627	1	11
1991	11,795	85,392	17,064	1,098	7,443	67	20,217	118,284	5,506	0	63
1992	6,147	60,827	10,346	907	6,796	143	4,415	23,489	1,401	0	0
1993	2,035	46,151	608	290	3,648	0	912	13,090	22	0	16
1994	316	3,561	1,126	-	-	-	101	826	96	0	0
1995	516	12,921	396	37	664	0	246	2,716	103	0	0
1996	352	9,096	0	37	894	0	123	2,455	0	0	0
1997	3,614	30,334	1,755	1,125	7,701	22	2,143	11,290	160	0	0
1998	1,080	16,388	1,362	333	3,075	40	188	1,584	44	0	0
1999	1,055	27,672	0	185	5,697	0	175	5,165	0	0	0
2000 ^{b/}	3,685	36,268	2,108	286	2,626	60	2,123	11,033	207	0	0
2001 ^{b/}	2,765	62,944	0	283	6,791	0	3,282	70,349	0	0	0
2002 ^{b/}	1,001	40,927	485	232	8,424	26	98	3,023	0	0	0
2003 ^{b/}	216	39,844	0	22	8,344	0	139	24,633	0	0	0
2004 ^{b/c/}	678	34,129	0	47	6,901	0	141	7,532	0	0	0

TABLE IV-15. Buoy 10 and Area 4B add-on recreational salmon angler trips and catch by boat type.^{a/} (Page 2 of 2)

Year or Average	Angler Trips			Chinook Catch			Coho Catch			Pink Catch	
	Charter	Private	Jetty	Charter	Private	Jetty	Charter	Private	Jetty	Charter	Private
TOTAL BUOY 10											
1987-1990	14,680	110,547	10,596	2,700	20,812	98	11,645	58,763	2,317	1	11
1991	15,872	131,860	23,948	1,419	10,135	93	26,760	173,004	8,509	0	63
1992	8,643	90,437	16,401	1,153	9,326	176	5,634	34,205	3,243	0	0
1993	2,719	66,395	6,660	326	4,873	89	1,176	18,406	1,350	0	16
1994	526	6,293	2,370	-	-	-	135	1,307	307	0	0
1995	690	21,601	2,934	42	809	0	310	4,082	663	0	0
1996	531	15,218	2,285	96	1,313	0	189	3,816	532	0	0
1997	4,685	46,541	4,499	1,398	11,733	22	2,735	16,701	921	0	0
1998	1,668	26,337	1,993	478	5,266	40	247	2,753	75	0	0
1999	1,509	46,702	1,370	310	9,531	9	193	8,522	146	0	0
2000 ^{b/}	4,521	63,760	4,237	312	5,709	64	2,420	18,556	502	0	0
2001 ^{b/}	4,381	117,388	4,115	330	12,369	10	4,763	126,752	523	0	0
2002 ^{b/}	1,513	80,870	2,074	263	19,152	26	100	6,081	52	0	0
2003 ^{b/}	1,207	85,305	2,315	69	16,247	0	763	53,151	526	0	0
2004 ^{b/c/}	744	67,221	1,170	66	16,092	0	158	15,117	47	0	0
TOTAL AREA 4B ADD-ON^{d/}											
1989	1,238	10,572	-	67	385	-	2,278	17,603	-	71	423
1990	962	11,283	-	57	359	-	1,974	18,312	-	0	0
1991	553	8,684	-	31	349	-	1,064	14,068	-	86	1,457
1992	406	7,589	-	0	33	-	757	10,954	-	0	0
1993	623	7,257	-	16	202	-	908	7,260	-	143	884
1994	-	-	-	-	-	-	-	-	-	0	0
1995	134	3,877	-	0	26	-	169	4,471	-	61	1,539
1996	36	1,511	-	0	5	-	61	2,266	-	0	0
1997	136	1,788	-	0	4	-	65	1,429	-	139	412
1998	71	6,296	-	5	98	-	125	7,937	-	0	3
1999 ^{e/}	-	-	-	-	-	-	-	-	-	-	-
2000 ^{c/}	373	3,046	-	0	8	-	614	3,796	-	0	0
2001 ^{f/}	-	-	-	-	-	-	-	-	-	-	-
2002 ^{f/}	-	-	-	-	-	-	-	-	-	-	-
2003 ^{f/}	-	-	-	-	-	-	-	-	-	-	-
2004 ^{f/}	-	-	-	-	-	-	-	-	-	-	-

a/ Prior to 1987, data on charter and private anglers were combined. Total Buoy 10 catch and effort data prior to 1987 are provided in Table B-21.

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

c/ Preliminary.

d/ There was no Area 4B add-on fishery prior to 1989.

e/ There was no Area 4B add-on fishery opening in 1999 because the Area 4 ocean quota was not attained.

f/ There was no Area 4B add-on fishery planned.

SALMON FISHERY INCOME IMPACTS AND COMMUNITY DEPENDENCE

Coastal community income impacts are presented to provide information on the effects of fluctuations in salmon harvest on local economies and small businesses. Income impacts are estimated per commercial pound and per recreational day, and were generated using the Fishery Economic Assessment Model (FEAM). Information on FEAM is available from the Council on request.

Estimated state and local community income impacts of commercial and recreational ocean salmon fisheries and selected state-managed fisheries are shown in Tables IV-16 through IV-20. These impacts represent estimates of total personal income associated with harvesting, processing and distribution activities in the commercial and recreational salmon fisheries at the local community (county) and state levels. Income impacts are estimated based on several components: reported landings by area, an inventory of area fleet and processors, estimates of fleet and processor expenditures, surveys of the expenditure patterns of recreational fishers, and local and state level total income coefficients generated by IMPLAN[®] models constructed for each area. Commercial ocean harvest not landed in the coastal areas (e.g., landed in Puget Sound ports) is not included in the estimates of coastal community impacts, but is included in the overall estimate of state impacts.

The impacts presented here are estimates of annual trends and are intended to indicate the possible redirection of activity between nonfishing-dependent and fishing-dependent sectors. As such they are likely upper bounds on the local community and state income impacts that were generated by West Coast salmon fisheries. All income impact estimates in this review are reported in inflation-adjusted 2004 dollars.

West Coast Ocean Fishery Income Impacts

The total West Coast income impact associated with recreational and commercial ocean salmon fisheries for all three states combined was \$90.4 million in 2004. In inflation-adjusted dollars this was 9% above the estimated 2003 level (\$82.9 million), 25% above the 2002 level, and well over two and a half times the inflation adjusted historic low of \$33.4 million in 1998. These numbers are also considerably above the 1996-2000 three-state inflation-adjusted average of \$51.9 million (Tables IV-16 through IV-18). West Coast income impacts associated with the 2004 non-Indian commercial ocean fishery were \$48.9 million, about the same as in 2003 (\$49.0 million), and substantially higher than in 2002 (\$35.7 mil) and the 1996-2000 average (\$26 million) in inflation-adjusted terms.^{1/} Income impacts related to the 2004 ocean recreational fishery were estimated to be 41.5 million, up 23% compared to 2003 (\$33.8 million), 13% compared with 2002 (\$36.8 million), and 60% above the 1996-2000 average in inflation-adjusted terms. These coastwide values do not reveal the reductions that have occurred in particular communities compared with averages during the 1980s. Tables IV-16 through IV-18 provide greater detail on the impacts in individual states and port areas along the West Coast.

Selected Inside Fisheries

Columbia River Commercial Fisheries

In the past, the non-Indian and treaty Indian Columbia River commercial fisheries generated a substantial amount of income for the Oregon and Washington communities on the Columbia River. For 2004, income impacts associated with the Columbia River commercial catch are estimated to be \$10.9 million, compared

1/ Income impact estimates for the commercial fishery do not include postseason settlement payments fishers may have received from buyers. These postseason settlements may be particularly significant for the California fishery.

with \$9.4 million in 2003, \$8.8 million in 2002, and a 1987 through 1999 average of \$13 million (all values in inflation adjusted 2004 dollars, Table IV-19). Most of the increase in income impacts is due to relatively high exvessel prices received for Columbia River salmon in 2004 (Table IV-9). In FEAM, most of the benefit of higher than average salmon prices is assumed to go to the harvesters.

Buoy 10 and Area 4B Add-On

Estimated local community income impact associated with the 2004 Buoy 10 recreational fishery was \$3.1 million, 22% below the inflation adjusted 2003 level of \$4.0 million, and 55% below the 1987-1990 inflation adjusted average of \$6.9 million (Table IV-20). There has not been a late season Area 4B add-on fishery since 2000. This is because there has been sufficient fishing opportunity in the ocean areas each year since that time. Between 1996 and 2000, the average annual inflation adjusted total state-level income impact associated with the Area 4B add-on fishery was \$149,000 (Table IV-20).

TABLE IV-16. Estimates of **California coastal community and state personal income** impacts in real (2004) dollars of the troll and recreational ocean salmon fishery for major port areas.^{a/} (Page 1 of 1)

Year or Average	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	Coastal Community Total ^{b/}	State Total
OCEAN TROLL (thousands of dollars)^{c/}							
1976-1980	5,731	14,556	14,273	18,724	8,036	61,321	78,835
1981-1985	2,903	3,503	8,198	15,474	5,273	35,350	44,012
1986-1990	1,093	2,707	14,399	27,960	10,455	56,614	69,480
1991-1995	9	129	905	10,529	5,999	17,570	21,173
1996-2000	10	149	639	11,035	6,690	18,522	19,602
2001	13	260	859	9,031	1,911	12,074	12,532
2002	227	436	3,103	12,907	3,476	20,149	21,404
2003	184	32	12,656	13,187	2,080	28,140	31,297
2004 ^{d/}	1,605	345	6,233	19,514	4,417	32,115	32,802
RECREATIONAL (thousands of dollars)							
1976-1980	1,114	1,292	752	11,305	757	15,221	17,073
1981-1985	1,220	1,258	603	10,012	799	13,892	15,637
1986-1990	2,068	2,155	1,051	12,236	3,288	20,797	24,237
1991-1995	750	807	1,219	10,350	4,957	18,083	21,233
1996-2000	349	639	1,246	10,377	4,558	17,169	19,969
2001	438	908	2,202	7,996	2,891	14,435	16,973
2002	196	1,001	2,319	10,034	4,627	18,177	21,389
2003	111	755	1,693	7,167	2,065	11,792	13,673
2004 ^{d/}	157	1,261	2,255	11,764	4,066	19,503	22,635

a/ Per pound and per day estimates of income impacts provided from output of the Fishery Economic Assessment Model (FEAM). These are the income impacts associated with expenditures in the troll or recreational sectors. There is no differentiation between money new to the area and money which would otherwise have been expended in other sectors. It is assumed that all fish landed at a port is processed in the port area. Values through 1995 are based on a 1992 run of the FEAM using 1989 U.S. Forest Service IMPLAN data. Beginning in 1996 values are based on a 1998 run of the FEAM using 1996 U.S. Forest Service IMPLAN data.

b/ Income impacts on the coastal economy. Totals do not include impacts of one coastal community on another.

c/ Excluding pink salmon.

d/ Preliminary.

TABLE IV-17. Estimates of **Oregon coastal community and state personal income** impacts in real (2004) dollars of the troll and recreational ocean salmon fishery for major port areas.^{a/} (Page 1 of 1)

Year or Average	Astoria	Tillamook	Newport	Coos Bay	Brookings ^{b/}	Coastal Community Total ^{c/}	State Total
OCEAN TROLL (thousands of dollars)^{d/}							
1976-1980	3,679	4,735	11,110	17,092	7,109	43,725	59,290
1981-1985	1,191	1,535	3,597	6,338	2,753	15,414	20,948
1986-1990	551	3,215	7,155	13,838	2,613	27,373	36,893
1991-1995	77	600	2,458	1,193	122	4,450	6,001
1996-2000	125	251	2,602	1,490	356	4,824	5,905
2001	320	654	4,897	2,573	528	8,972	10,920
2002	917	768	4,193	3,706	670	10,255	12,430
2003	901	817	5,448	4,953	584	12,702	15,369
2004 ^{e/}	713	568	4,961	5,431	1,192	12,866	13,868
RECREATIONAL (thousands of dollars)							
1976-1980	3,134	2,389	4,432	5,876	3,870	19,701	25,503
1981-1985	1,822	1,469	3,508	3,578	2,490	12,867	16,706
1986-1990	1,247	1,560	4,855	3,536	2,592	13,790	17,955
1991-1995	847	682	1,544	1,378	973	5,424	7,034
1996-2000	328	376	370	409	785	2,268	2,990
2001	1,330	794	1,542	1,578	1,110	6,354	8,214
2002	740	1,149	1,203	1,714	828	5,634	7,296
2003	1,119	1,322	2,484	2,169	635	7,729	9,966
2004 ^{e/}	1,040	1,406	2,348	2,049	784	7,627	9,877

a/ Per pound and per day estimates of income impacts provided by the Fishery Economic Assessment Model (FEAM). These are the income impacts associated with expenditures in the troll or recreational sectors. There is no differentiation between money new to the area and money which would otherwise have been expended in other sectors. It is assumed that all fish landed at a port is processed in the port area. Values through 1995 are based on a 1992 run of the FEAM using 1989 U.S. Forest Service IMPLAN data. Beginning in 1996, values are based on a 1998 run of the FEAM using 1996 U.S. Forest Service IMPLAN data.

b/ On average, between 1976-1991 over 50% of the troll fishery community income impacts for the Brookings port area originated from landings in Brookings and Gold Beach. For 1986-1990 an average of about 40% of the impacts for the Brookings port area originated in landings made through Brookings and Gold Beach. In 1992 and 1993, impacts originating through these two ports averaged less than 18% and 11%, respectively, of the total for the Brookings port area.

c/ Income impacts on the coastal economy. Totals do not include impacts of one coastal community on another.

d/ Excludes pink salmon.

e/ Preliminary.

TABLE IV-18. Estimates of **Washington coastal community and state personal income** impacts of the non-Indian troll and recreational ocean salmon fishery for major port areas.^{a/} (Page 1 of 1)

Year or Average	Neah Bay	La Push	Westport	Columbia River ^{b/}	Coastal Community Total ^{c/d/}	Puget Sound	State Total
OCEAN TROLL (thousands of dollars)^{e/f/}							
1976-1980	5,312	7,253	16,007	5,150	33,722	7,149	51,203
1981-1985	1,044	423	4,398	943	6,808	1,526	9,984
1986-1990	579	152	2,025	394	3,150	885	4,815
1991-1995 ^{g/}	426	94	677	43	1,241	171	1,725
1996-2000	144	3	144	17	307	88	465
2001	250	0	453	37	739	0	914
2002	542	71	789	158	1,560	0	1,898
2003	989	167	677	120	1,952	38	2,424
2004 ^{h/}	730	231	808	84	1,852	23	2,261
RECREATIONAL (thousands of dollars)							
1976-1980	2,065	1,097	11,834	4,631	19,628	-	26,660
1981-1985	1,912	224	8,335	3,910	14,381	-	19,573
1986-1990	910	104	4,356	2,348	7,719	-	10,455
1991-1995 ^{g/}	483	95	2,689	1,364	4,630	-	6,260
1996-2000	256	69	1,259	616	2,200	-	2,967
2001	835	162	3,657	2,369	7,023	-	9,553
2002	662	167	3,233	1,942	6,004	-	8,153
2003	980	233	3,685	2,569	7,467	-	10,171
2004 ^{h/}	1,213	228	2,975	2,169	6,585	-	8,970

a/ Expressed in 2004 dollars. Per pound and per recreational day estimates of income impacts provided by the Fishery Economic Assessment Model (FEAM). These are the income impacts associated with expenditures in the troll or recreational sectors. There is no differentiation between money new to the area and money which would otherwise have been expended in other sectors. It is assumed that all fish landed at a port is processed in the port area. Values through 1995 are based on a 1992 run of the FEAM using 1989 U.S. Forest Service IMPLAN data. Beginning in 1996 values are based on a 1998 run of the FEAM using 1996 U.S. Forest Service IMPLAN data.

b/ Recreational values exclude recreational shorebased effort from the Columbia River north jetty.

c/ Income impacts on the coastal economy. Totals do not include impacts of one coastal community on another.

d/ Commercial values include a very small amount of fish landed in other coastal Washington areas.

e/ Excludes pink salmon.

f/ All commercial values in this table are based on preliminary information available at the start of each year's salmon review.

g/ The non-Indian commercial and recreational fisheries were closed north of Cape Falcon in 1994. Some commercial catch taken south of Cape Falcon was landed in the Puget Sound area.

h/ Preliminary.

TABLE IV-19. Local **personal income impacts** in real (2004) dollars of the **commercial** salmon gillnet fishery on **Oregon and Washington Columbia River** communities.^{a/} (Page 1 of 1)

Species ^{b/}		1990-1999	2000	2001	2002	2003	2004 ^{c/}
OREGON (Thousands of Dollars)							
Non-Indian	Chinook						
Gillnet	Spring	714	468	1,211	1,853	759	1,882
	Fall Brights	3,488	283	364	661	1,205	1,248
	Tules	207	20	118	275	184	267
	Coho	2,002	1,624	1,809	1,608	2,429	1,514
	Chum	1	6	d/	d/	0	1
	TOTAL	6,413	2,401	3,501	4,397	4,577	4,911
Treaty Indian	Chinook						
All Gears	Spring	2	6	83	43	9	314
	Fall Brights	1,465	282	16	11	40	1,282
	Tules	81	55	1	1	0	308
	Coho	13	15	1	0	0	48
	TOTAL	1,561	358	101	55	49	1,952
WASHINGTON (Thousands of Dollars)							
Non-Indian	Chinook						
Gillnet	Spring	387	30	253	553	148	495
	Fall	1,410	369	234	379	855	980
	Coho	791	844	1,254	754	1,324	694
	Chum	2	3	1	d/	d/	d/
	TOTAL	2,591	1,245	1,742	1,686	2,327	2,169
Treaty Indian	Chinook						
All Gears	Spring	10	116	706	556	362	367
	Fall	2,368	1,030	1,878	2,092	2,096	1,469
	Coho	31	47	78	26	25	39
	TOTAL	2,409	1,193	2,662	2,674	2,484	1,875
GRAND TOTAL							
Non-Indian		9,003	3,646	5,243	6,083	6,904	7,080
Treaty Indian		3,970	1,551	2,763	2,729	2,533	3,827
Columbia River		12,973	5,197	8,006	8,812	9,437	10,907

a/ Values through 1995 are based on a 1992 run of the FEAM using 1989 U.S. Forest Service IMPLAN data. Beginning in 1996 values are based on a 1998 run of the FEAM using 1996 U.S. Forest Service IMPLAN data.

b/ See Table IV-9 footnotes for explanation of species categories.

c/ Preliminary.

d/ Less than \$500.

APPENDIX A HISTORICAL RECORD OF OCEAN SALMON FISHERY EFFORT AND LANDINGS

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TABLE A-1. Summary of **California commercial troll** salmon fishing **effort** in days fished and **landings** in numbers of fish by port area. (Page 1 of 1)

Year or Avg.	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	Oregon	Season
DAYS FISHED (thousands)							
1978-1980 ^{a/}	17.0	18.4	21.9	21.1	16.5	-	95.0
1981-1985	5.9	6.4	13.8	22.1	11.5	b/	59.8
1986-1990	0.6	1.6	16.4	25.6	14.4	-	58.5
1991	-	0.6	3.8	18.5	12.3	-	35.3
1992	-	-	-	7.6	12.7	-	20.3
1993	-	-	1.6	12.6	11.7	-	25.9
1994	-	-	0.8	12.4	7.9	-	21.2
1995	-	-	0.9	12.9	12.0	-	25.8
1996	b/	0.4	2.1	8.0	10.6	-	21.1
1997	b/	0.1	0.3	9.5	8.9	-	18.9
1998	b/	0.2	0.3	8.2	5.7	-	14.5
1999	b/	0.2	0.2	10.8	5.3	-	16.5
2000	b/	0.1	1.1	10.9	8.0	-	20.1
2001	b/	0.3	0.8	9.0	3.8	-	13.9
2002	0.2	0.4	2.1	9.1	5.5	b/	17.4
2003	0.1	0.1	6.3	6.8	2.7	b/	15.9
2004 ^{c/}	b/	0.3	5.6	10.7	4.8	0.2	21.6
CHINOOK (thousands)							
1976-1980	44.3	166.3	143.9	174.7	89.5	-	618.6
1981-1985	38.8	48.9	110.8	180.0	84.1	-	462.7
1986-1990	12.9	32.3	252.4	351.1	144.9	1.1	794.7
1991	-	4.7	35.5	174.8	79.8	-	294.9
1992	-	-	-	66.5	97.0	-	163.4
1993	-	-	19.9	155.0	104.7	-	279.6
1994	-	-	5.2	219.9	70.5	-	295.6
1995	-	-	8.7	357.5	313.1	-	679.3
1996	0.3	8.5	22.9	167.4	181.5	-	380.6
1997	b/	1.4	3.8	253.5	229.0	-	487.7
1998	0.1	2.4	2.9	126.5	95.3	-	227.3
1999	0.3	2.6	2.4	204.6	81.0	-	290.9
2000	0.3	1.8	30.7	249.9	196.4	-	479.1
2001	0.2	5.3	15.0	136.6	35.9	-	193.1
2002	3.7	9.0	65.3	242.9	70.0	0.8	391.7
2003	1.4	0.7	248.9	202.9	36.1	2.0	491.9
2004 ^{c/}	0.6	5.6	106.9	297.7	64.7	25.3	500.8
COHO (thousands)							
1976-1980	72.1	90.0	51.0	20.8	9.4	-	243.4
1981-1985	16.1	18.9	14.6	7.7	1.4	-	58.7
1986-1990	4.8	6.0	26.0	9.4	1.6	b/	46.8
1991	-	3.0	4.5	53.3	21.4	-	82.3
1992	-	-	-	0.4	2.1	-	2.5
1993	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-
2004 ^{c/}	-	-	-	-	-	-	-

a/ Data not available prior to 1978.

b/ Fewer than 50 days fished.

c/ Preliminary.

TABLE A-2. **California commercial troll salmon fishing effort** in number of days fished by port area and month. (Page 1 of 2)

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
DAYS FISHED (thousands)								
<u>Crescent City^{ai}</u>								
1978-1980	b/	2.0	2.8	6.3	5.0	0.8	-	17.0
1981-1985	-	1.1	0.8	1.6	2.0	0.5	-	5.9
1986-1990	-	b/	0.3	0.1	0.2	b/	-	0.5
1991	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-
1996	-	-	-	-	b/	b/	-	b/
1997	-	-	-	-	-	b/	-	b/
1998	-	-	-	-	-	b/	-	b/
1999	-	-	-	-	-	b/	-	b/
2000	-	-	-	-	-	b/	-	b/
2001	-	-	-	-	-	b/	-	b/
2002	-	-	-	-	b/	0.1	c/	0.2
2003	c/	c/	c/	-	-	0.1	c/	0.1
2004 ^{di}	c/	-	c/	c/	0.2	c/	-	0.3
<u>Eureka</u>								
1978-1980	0.2	5.7	4.8	4.1	2.3	1.4	-	18.4
1981-1985	-	1.6	0.9	2.1	1.5	0.3	-	6.4
1986-1990	-	-	0.7	0.1	0.3	0.5	b/	1.6
1991	-	-	-	-	-	0.5	0.1	0.6
1992	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-
1996	-	-	-	-	0.1	0.3	-	0.4
1997	-	-	-	-	-	0.1	-	0.1
1998	-	-	-	-	-	0.2	-	0.2
1999	-	-	-	-	-	0.2	-	0.2
2000	-	-	-	-	-	0.1	-	0.1
2001	-	-	-	-	-	0.3	-	0.3
2002	-	-	-	-	0.1	0.3	-	0.4
2003	-	-	-	-	-	0.1	-	0.1
2004 ^{di}	-	-	-	-	-	0.3	-	0.3
<u>Fort Bragg</u>								
1978-1980	b/	2.3	3.1	10.0	4.3	2.2	-	21.9
1981-1985	0.1	2.1	2.2	5.5	2.4	1.5	-	13.8
1986-1990	-	2.8	3.9	5.2	3.8	0.8	-	16.4
1991	-	-	-	-	3.5	0.3	-	3.8
1992	-	-	-	-	-	-	-	-
1993	-	0.1	-	-	-	1.5	-	1.6
1994	-	-	-	-	-	0.8	-	0.8
1995	-	-	-	-	-	0.9	-	0.9
1996	-	-	-	-	1.3	0.8	-	2.1
1997	-	-	-	-	-	0.3	-	0.3
1998	-	-	-	-	-	0.3	-	0.3
1999	-	-	-	-	-	0.2	-	0.2
2000	-	-	-	-	-	1.1	-	1.1
2001	-	0.2	-	-	-	0.6	-	0.8
2002	-	-	-	0.2	1.3	0.6	-	2.1
2003	-	1.0	-	1.5	2.4	1.4	-	6.3
2004 ^{di}	-	-	-	2.4	2.1	1.1	-	5.6

TABLE A-2. **California commercial troll salmon fishing effort** in number of days fished by port area and month. (Page 2 of 2)

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
DAYS FISHED (thousands)								
<u>San Francisco</u>								
1978-1980	0.2	5.8	3.5	7.1	2.4	2.0	-	21.1
1981-1985	0.2	3.9	3.0	6.8	5.2	3.0	-	22.1
1986-1990	-	6.5	7.1	5.9	4.1	1.9	-	25.6
1991	-	5.2	5.4	3.3	3.2	1.4	-	18.5
1992	-	0.2	-	-	3.9	3.5	-	7.6
1993	-	4.0	1.1	3.1	3.5	0.9	-	12.6
1994	-	3.1	3.2	2.8	2.0	1.4	-	12.4
1995	-	3.4	2.4	3.1	1.8	2.2	-	12.9
1996	-	1.0	2.5	2.2	1.3	1.1	-	8.0
1997	-	2.7	0.3	2.8	2.3	1.4	-	9.5
1998	-	0.9	0.8	3.0	1.7	1.9	-	8.2
1999	0.1	1.2	2.5	3.6	2.1	1.2	-	10.8
2000	-	1.8	2.6	1.8	2.2	2.5	-	10.9
2001	-	2.0	0.8	2.7	1.4	1.6	0.5	9.0
2002	-	2.3	1.6	2.9	1.2	1.1	0.1	9.1
2003	-	1.0	2.2	1.4	1.2	0.7	0.1	6.8
2004 ^{d/}	-	3.1	2.9	2.7	1.0	0.7	0.2	10.7
<u>Monterey</u>								
1978-1980	0.7	5.3	2.9	4.6	2.2	0.9	-	16.5
1981-1985	0.5	4.2	2.8	2.7	1.0	0.2	-	11.5
1986-1990	-	5.2	4.3	3.4	1.3	0.2	-	14.4
1991	-	3.2	5.5	3.1	0.4	0.2	-	12.3
1992	-	5.7	3.3	2.8	0.7	0.1	-	12.7
1993	-	5.2	2.9	2.6	0.9	0.1	-	11.7
1994	-	3.4	1.4	2.6	0.4	0.1	-	7.9
1995	-	5.1	2.8	2.5	1.4	0.2	-	12.0
1996	-	3.7	3.4	3.1	0.3	b/	-	10.6
1997	0.6	3.8	1.7	2.9	b/	b/	-	8.9
1998	-	3.4	1.3	0.9	0.1	0.1	-	5.7
1999	b/	1.3	2.5	1.1	0.1	0.2	-	5.3
2000	-	3.4	3.3	1.2	0.2	-	-	8.0
2001	-	2.7	0.7	0.3	b/	b/	-	3.8
2002	-	2.0	1.6	1.6	0.3	b/	-	5.5
2003	-	1.0	0.5	0.8	0.2	0.3	-	2.7
2004 ^{d/}	-	2.0	1.1	1.1	0.3	0.2	-	4.8
<u>Total Statewide</u>								
1978-1980	1.1	21.1	17.1	32.1	16.3	7.3	-	95.0
1981-1985	0.8	12.9	9.5	18.7	12.2	5.6	-	59.8
1986-1990	-	14.5	16.2	14.7	9.7	3.3	b/	58.5
1991	-	8.4	10.9	6.3	7.2	2.4	0.1	35.3
1992	-	5.9	3.3	2.8	4.6	3.6	-	20.3
1993	-	9.3	3.9	5.7	4.4	2.6	-	25.9
1994	-	6.5	4.6	5.4	2.4	2.3	-	21.2
1995	-	8.5	5.2	5.6	3.3	3.3	-	25.8
1996	-	4.8	5.9	5.3	3.0	2.2	-	21.1
1997	0.6	6.5	2.0	5.6	2.3	1.8	-	18.9
1998	-	4.3	2.1	3.9	1.8	2.4	-	14.5
1999	0.1	2.6	5.0	4.8	2.2	1.8	-	16.5
2000	-	5.2	5.8	3.0	2.4	3.7	-	20.1
2001	-	4.9	1.4	3.0	1.4	2.5	0.5	13.8
2002	-	4.2	3.2	4.7	2.9	2.2	0.1	17.4
2003	c/	3.1	2.7	3.7	3.7	2.5	0.1	15.9
2004 ^{d/}	c/	5.2	4.0	6.3	3.6	2.2	0.2	21.6

a/ Includes minor effort off Oregon for fish landed in California.

b/ Fewer than 50 days fished.

c/ Commercial fishery closed; minor effort (<50 days fished) and catch reportedly occurred off Oregon.

d/ Preliminary.

TABLE A-3. California commercial troll chinook and coho salmon landings in numbers of fish by port area and month. (Page 3 of 3)

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)									COHO (thousands)							
Monterey																
1976-1980	9.9	29.5	19.1	18.1	9.4	3.5	-	89.5	b/	3.5	4.0	1.8	0.1	b/	-	9.4
1981-1985	6.1	35.0	16.9	19.4	5.6	1.1	-	84.1	b/	0.1	0.9	0.3	0.1	b/	-	1.4
1986-1990	-	61.5	42.1	30.0	9.0	2.2	-	144.8	-	-	1.0	0.5	0.1	b/	-	1.6
1991	-	21.8	34.9	19.1	3.0	1.0	-	79.8	-	-	17.1	4.3	0.1	-	-	21.4
1992	-	49.7	19.0	21.1	4.5	2.6	-	97.0	-	-	1.5	0.5	b/	-	-	2.1
1993	-	49.9	25.5	20.3	8.1	0.9	-	104.7	-	-	-	-	-	-	-	-
1994	-	24.3	11.6	32.2	1.1	1.2	-	70.5	-	-	-	-	-	-	-	-
1995	-	128.4	64.2	105.4	13.9	1.3	-	313.1	-	-	-	-	-	-	-	-
1996	-	75.1	52.3	51.9	2.2	b/	-	181.5	-	-	-	-	-	-	-	-
1997	11.9	86.7	60.4	69.7	-	0.1	-	228.7	-	-	-	-	-	-	-	-
1998	-	61.0	20.6	12.6	0.6	0.5	-	95.3	-	-	-	-	-	-	-	-
1999	b/	13.8	55.5	10.2	0.5	1.0	-	81.0	-	-	-	-	-	-	-	-
2000	-	121.8	62.2	11.2	1.3	-	-	196.4	-	-	-	-	-	-	-	-
2001	-	30.0	3.4	2.4	0.1	b/	-	35.9	-	-	-	-	-	-	-	-
2002	-	21.6	24.4	21.3	2.5	0.1	-	70.0	-	-	-	-	-	-	-	-
2003	-	11.0	9.5	13.7	0.8	1.1	-	36.1	-	-	-	-	-	-	-	-
2004 ^{d/}	-	22.5	26.7	14.1	1.2	0.3	-	64.7	-	-	-	-	-	-	-	-
Total Statewide																
1976-1980	34.2	200.0	109.4	173.4	67.9	33.8	-	618.6	b/	54.9	119.5	54.0	12.9	2.0	-	243.4
1981-1985	12.4	124.6	74.7	145.1	82.1	23.7	-	462.7	b/	4.0	13.0	28.2	12.5	1.1	-	58.7
1986-1990	-	240.1	257.8	195.1	77.3	24.1	0.2	794.7	-	-	23.8	18.3	3.6	1.1	0.1	46.8
1991	-	80.1	87.1	49.7	65.6	12.1	0.4	294.9	-	-	50.1	24.0	5.1	3.0	0.1	82.3
1992	-	51.6	19.0	21.1	42.7	29.0	-	163.4	-	-	1.5	0.5	0.5	-	-	2.5
1993	-	111.1	40.4	55.8	48.4	24.0	-	279.6	-	-	-	-	-	-	-	-
1994	-	78.8	81.1	89.2	27.4	19.1	-	295.6	-	-	-	-	-	-	-	-
1995	-	285.5	142.2	189.6	30.9	31.1	-	679.3	-	-	-	-	-	-	-	-
1996	-	97.1	130.3	95.4	31.2	26.6	-	380.6	-	-	-	-	-	-	-	-
1997	11.9	199.1	74.6	153.9	24.7	23.2	-	487.4	-	-	-	-	-	-	-	-
1998	-	76.3	39.4	75.5	15.8	20.3	-	227.3	-	-	-	-	-	-	-	-
1999	3.3	30.8	128.2	78.0	32.3	18.5	-	290.9	-	-	-	-	-	-	-	-
2000	-	204.8	138.2	47.3	27.0	61.8	-	479.1	-	-	-	-	-	-	-	-
2001	-	73.0	11.5	63.1	14.2	27.6	3.7	193.1	-	-	-	-	-	-	-	-
2002	-	86.1	93.2	128.0	59.0	24.4	0.9	391.7	-	-	-	-	-	-	-	-
2003	1.7 ^{c/}	73.3	104.3	123.7	111.1	75.8	2.0	491.9	-	-	-	-	-	-	-	-
2004 ^{d/}	0.7 ^{c/}	97.6	154.2	161.7	63.9	21.7	1.0	500.8	-	-	-	-	-	-	-	-

a/ Includes minor catches made off Oregon and landed in California.

b/ Fewer than 50 fish.

c/ Commercial fishery closed; catch and effort reportedly occurred off Oregon.

d/ Preliminary.

TABLE A-4. California ocean recreational salmon fishing effort in angler trips by port area and month. (Page 1 of 2)

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)											
<u>Crescent City</u>											
1976-1980	-	-	a/	a/	3.7	9.7	5.4	1.2	-	-	20.0
1981-1985	-	-	-	0.6	3.9	11.5	6.6	0.5	-	-	23.1
1986-1990	-	-	-	1.4	11.1	19.3	6.7	1.0	-	-	39.6
1991	-	-	-	0.6	8.5	14.0	0.7	1.7	-	-	25.6
1992	-	-	-	-	-	7.2	-	1.8	-	-	9.1
1993	-	-	-	1.0	1.0	6.5	5.8	1.1	-	-	15.4
1994	-	-	-	5.1	2.2	-	1.6	0.9	-	-	9.7
1995	-	-	-	2.8	5.7	-	1.1	2.4	-	-	11.9
1996	-	-	-	1.0	5.1	2.4	2.1	0.8	-	-	11.3
1997	-	-	-	0.9	1.7	1.5	2.2	0.2	-	-	6.6
1998	-	-	-	0.7	1.5	0.5	0.6	0.1	-	-	3.3
1999	-	-	-	a/	1.5	0.8	3.1	0.4	-	-	5.8
2000	-	-	-	0.1	1.8	2.1	3.0	0.2	-	-	7.2
2001	-	-	-	0.9	2.1	3.0	2.3	0.3	-	-	8.6
2002	-	-	-	1.0	1.1	0.1	1.3	0.2	-	-	3.9
2003	-	-	-	0.3	0.5	0.5	0.5	0.3	-	-	2.2
2004 ^{b/}	-	-	-	0.6	0.6	0.7	0.8	0.4	-	-	3.1
<u>Eureka</u>											
1976-1980	-	-	a/	0.3	5.3	12.6	5.3	0.4	a/	-	23.9
1981-1985	-	-	a/	1.2	4.7	11.7	4.9	0.5	a/	-	23.1
1986-1990	-	-	-	1.7	9.5	18.7	7.1	1.0	-	-	37.9
1991	-	-	-	0.3	13.2	13.0	0.3	0.6	a/	-	27.4
1992	-	-	-	-	-	5.8	-	3.3	-	-	9.1
1993	-	-	-	1.6	2.2	6.1	6.0	2.3	-	-	18.3
1994	-	-	-	2.6	1.8	-	1.2	0.8	-	-	6.4
1995	-	-	-	1.4	6.2	-	1.5	3.7	-	-	12.8
1996	-	-	-	2.4	6.5	1.0	2.7	1.6	-	-	14.2
1997	-	-	-	2.5	3.4	2.1	4.0	0.4	-	-	12.4
1998	-	-	-	1.9	1.8	0.6	2.0	0.4	-	-	6.7
1999	-	-	-	0.1	4.1	2.1	5.2	0.4	-	-	12.0
2000	-	-	-	0.8	3.2	3.0	5.2	0.9	-	-	13.1
2001	-	-	-	2.0	5.3	3.9	3.9	1.0	-	-	16.0
2002	-	-	-	2.2	5.4	0.6	7.4	2.1	-	-	17.7
2003	-	-	-	2.2	3.1	2.9	4.2	1.2	-	-	13.6
2004 ^{b/}	-	-	-	4.0	3.4	4.7	8.2	2.1	-	-	22.4
<u>Fort Bragg</u>											
1976-1980	-	-	a/	0.1	1.7	5.6	3.7	0.6	a/	-	11.7
1981-1985	-	-	a/	0.1	2.2	5.0	2.1	0.1	a/	-	9.6
1986-1990	0.0	a/	0.1	0.7	4.5	7.1	2.5	0.8	a/	-	15.5
1991	-	-	a/	0.9	7.0	11.6	3.0	0.1	-	-	22.6
1992	-	a/	0.3	2.2	0.3	6.3	-	1.7	0.4	a/	11.2
1993	a/	0.2	0.4	1.3	2.0	9.4	4.6	1.2	0.1	-	19.3
1994	0.1	0.5	1.2	4.0	8.1	-	4.6	0.9	a/	-	19.4
1995	0.4	0.5	1.6	1.5	13.0	-	9.0	2.6	0.6	-	29.3
1996	a/	0.9	1.9	2.9	12.0	3.0	7.0	2.8	0.7	a/	31.3
1997	-	0.4	1.1	4.0	6.8	3.5	4.1	0.3	-	-	20.2
1998	-	0.1	-	1.0	2.3	0.5	3.3	1.1	a/	-	8.3
1999	a/	0.1	0.2	0.4	1.7	3.0	4.3	0.5	-	-	10.2
2000	-	-	1.3	3.1	7.2	5.6	6.6	1.7	a/	-	25.6
2001	-	0.7	1.3	3.4	7.2	9.5	6.9	1.8	0.1	a/	30.8
2002	0.2	0.9	2.4	4.9	7.0	8.5	7.5	0.4	a/	-	31.8
2003	0.6	1.3	0.9	2.7	5.7	8.3	3.5	0.8	a/	0	23.7
2004 ^{b/}	0.2	1.0	1.1	2.4	8.7	11.6	4.3	1.1	0.2	a/	30.5

TABLE A-4. California ocean recreational salmon fishing effort in angler trips by port area and month. (Page 2 of 2)

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)											
<u>San Francisco</u>											
1976-1980	8.1	10.3	7.2	8.6	10.4	15.3	15.2	12.5	7.9	2.4	97.9
1981-1985	4.1	5.8	6.0	6.9	10.8	15.0	14.1	9.3	5.6	1.3	78.9
1986-1990	4.8	9.8	12.3	8.9	12.6	18.6	16.2	9.4	4.8	1.4	98.9
1991	-	4.1	7.1	6.3	12.0	18.6	13.9	5.2	2.9	0.1	70.2
1992	0.8	2.4	2.5	5.9	8.6	16.1	11.8	9.4	4.3	0.2	62.0
1993	0.5	6.6	6.1	7.7	7.4	27.8	17.6	5.5	3.6	-	82.8
1994	1.2	5.7	7.2	7.0	17.8	33.5	18.9	9.7	6.5	-	107.6
1995	-	9.6	10.5	12.3	17.3	51.0	23.7	12.8	4.3	-	141.5
1996	-	19.0	13.2	9.6	12.7	28.5	13.6	5.3	2.4	-	104.2
1997	-	4.7	10.9	16.8	14.0	34.5	21.2	5.5	3.2	0.4	111.2
1998	-	0.2	7.0	5.8	13.6	23.1	20.8	6.9	3.5	-	81.0
1999	-	1.4	8.0	3.7	13.0	32.0	17.4	8.8	5.4	-	89.8
2000	-	-	6.6	9.7	16.7	19.1	13.3	11.4	5.4	1.5	83.7
2001	-	-	5.7	8.6	5.0	17.4	15.5	10.7	6.0	2.6	71.5
2002	-	-	5.3	10.8	14.0	28.4	21.0	7.1	1.8	0.4	88.8
2003	-	-	4.0	8.6	11.9	22.2	11.1	5.9	2.7	0.3	66.6
2004 ^{b/}	-	-	7.3	15.1	15.9	32.7	21.2	8.2	3.9	1.4	105.8
<u>Monterey</u>											
1976-1980	1.8	2.2	2.0	1.2	0.9	1.1	0.5	0.2	0.1	a/	10.0
1981-1985	1.0	2.1	2.7	2.0	1.3	2.0	0.8	0.2	0.1	0.1	12.2
1986-1990	3.6	7.2	11.7	4.1	6.7	10.7	4.2	0.6	0.3	a/	49.4
1991	-	8.2	11.1	3.9	8.9	14.0	2.7	0.5	1.6	-	50.8
1992	1.2	7.3	7.1	3.5	4.7	6.6	3.2	1.2	1.1	0.6	36.4
1993	0.3	8.3	11.1	6.2	2.9	5.0	2.9	1.4	1.0	-	39.1
1994	1.1	8.0	10.4	5.6	6.7	9.0	2.0	1.7	2.3	-	46.8
1995	-	12.8	38.0	41.6	31.9	46.5	11.7	0.5	-	-	183.1
1996	-	15.2	15.3	9.4	7.0	11.9	5.8	-	-	-	64.5
1997	-	16.4	17.7	9.1	18.3	18.6	3.7	0.2	-	-	84.0
1998	-	5.9	10.7	11.2	12.2	10.1	1.9	0.3	-	-	52.4
1999	-	7.2	3.6	2.4	7.4	6.3	2.1	0.3	-	-	29.2
2000	-	-	28.8	19.9	14.4	14.6	4.9	2.2	-	-	84.8
2001	-	0.9	19.4	11.0	2.1	3.9	0.6	0.3	-	-	38.2
2002	-	2.9	32.7	11.9	9.0	9.0	2.3	0.1	-	-	67.9
2003	-	5.1	10.1	5.8	3.2	4.1	0.2	-	-	-	28.5
2004 ^{b/}	-	-	22.2	11.1	4.4	13.3	2.3	0.5	-	-	53.8
<u>Total Statewide</u>											
1976-1980	9.9	12.5	9.2	10.3	22.0	44.3	30.1	14.8	8.0	2.4	163.5
1981-1985	5.1	7.9	8.8	10.7	23.0	45.3	28.5	10.6	5.7	1.4	147.0
1986-1990	8.4	17.0	24.1	16.7	44.4	74.4	36.8	12.6	5.1	1.7	241.3
1991	-	12.3	18.2	12.0	49.6	71.2	20.7	8.1	4.5	0.1	196.6
1992	2.0	9.7	9.9	11.5	13.6	41.9	15.1	17.5	5.8	0.8	127.9
1993	0.9	15.0	17.6	17.9	15.5	54.9	36.9	11.4	4.7	-	174.9
1994	2.5	14.2	18.7	24.3	36.6	42.5	28.3	13.9	8.8	-	189.9
1995	0.4	22.9	50.2	59.5	74.0	97.5	47.0	22.0	4.9	-	378.5
1996	a/	35.2	30.3	25.2	43.2	46.8	31.1	10.4	3.1	a/	225.4
1997	-	21.5	29.7	33.3	44.2	60.2	35.3	6.5	3.2	0.4	234.3
1998	-	6.2	17.7	20.6	31.5	34.8	28.6	8.9	3.5	-	151.8
1999	a/	8.7	11.8	6.6	27.8	44.2	32.1	10.4	5.4	-	147.1
2000	-	-	36.7	33.7	43.2	44.5	33.0	16.3	5.5	1.5	214.4
2001	-	1.6	26.4	25.9	21.7	37.6	29.2	14.1	6.1	2.6	165.1
2002	0.2	3.8	40.5	30.8	36.5	46.6	39.6	10.0	1.8	0.4	210.1
2003	0.6	6.4	15.1	19.6	24.4	38.0	19.5	8.2	2.7	0.3	134.6
2004 ^{b/}	0.2	1.0	30.6	33.2	33.0	63.0	36.8	12.3	4.1	1.5	215.7

a/ Fewer than 50 angler trips.

b/ Preliminary.

TABLE A-5. California ocean recreational salmon landings in numbers of fish by port area and month. (Page 1 of 3)

Year or	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
CHINOOK (thousands)												COHO (thousands)										
<u>Crescent City</u>																						
1976-1980	-	-	-	a/	0.5	1.8	1.3	0.1	-	-	3.6	-	-	a/	a/	3.1	6.6	2.0	0.2	-	-	11.9
1981-1985	-	-	-	0.5	1.4	3.1	1.9	0.1	-	-	7.0	-	-	-	a/	1.2	4.4	1.7	0.1	-	-	7.4
1986-1990	-	-	-	0.4	4.6	7.7	1.6	0.3	-	-	14.6	-	-	-	0.1	3.6	8.4	1.6	0.1	-	-	13.8
1991	-	-	-	a/	1.3	1.9	a/	0.1	-	-	3.4	-	-	-	-	8.8	9.2	0.1	0.2	-	-	18.3
1992	-	-	-	-	-	0.8	-	a/	-	-	0.9	-	-	-	-	-	2.6	-	0.2	-	-	2.8
1993	-	-	-	0.1	a/	0.5	0.4	0.2	-	-	1.3	-	-	-	a/	0.1	3.6	2.7	0.3	-	-	6.7
1994	-	-	-	4.5	1.3	-	0.4	0.1	-	-	6.3	-	-	-	a/	-	-	0.1	a/	-	-	0.1
1995	-	-	-	0.7	3.0	-	0.3	1.6	-	-	5.6	-	-	-	a/	a/	-	a/	a/	-	-	0.1
1996	-	-	-	0.3	2.3	0.8	0.3	0.2	-	-	3.8	-	-	-	-	0.1	-	a/	a/	-	-	0.1
1997	-	-	-	0.3	0.5	0.8	0.8	a/	-	-	2.5	-	-	-	a/	-	0.1	a/	-	-	-	0.1
1998	-	-	-	0.2	0.7	0.1	0.1	a/	-	-	1.1	-	-	-	-	a/	a/	a/	-	-	-	a/
1999	-	-	-	-	0.1	0.2	0.6	0.1	-	-	1.0	-	-	-	-	a/	a/	a/	-	-	-	a/
2000	-	-	-	a/	0.5	1.4	1.5	0.1	-	-	3.6	-	-	-	-	-	a/	0.1	-	-	-	0.1
2001	-	-	-	0.5	0.6	0.5	0.5	0.1	-	-	2.2	-	-	-	a/	0.1	a/	a/	-	-	-	0.1
2002	-	-	-	0.3	0.2	a/	0.4	0.2	-	-	1.1	-	-	-	-	a/	a/	a/	-	-	-	a/
2003	-	-	-	0.1	0.1	0.1	0.1	0.1	-	-	0.4	-	-	-	-	a/	-	a/	-	-	-	a/
2004 ^{b/}	-	-	-	0.4	0.2	0.2	0.3	0.1	-	-	1.2	-	-	-	a/	a/	a/	a/	-	-	-	0.1
<u>Eureka</u>																						
1976-1980	-	-	a/	0.2	1.2	3.7	1.0	0.1	a/	-	6.1	-	-	a/	0.1	4.1	7.1	1.7	0.1	a/	-	13.1
1981-1985	-	-	a/	1.3	2.2	4.9	1.1	0.1	a/	-	9.6	-	-	-	0.2	2.6	5.8	1.7	0.2	-	-	10.4
1986-1990	-	-	-	1.0	4.8	6.7	3.0	0.2	-	-	15.7	-	-	-	0.7	5.5	12.4	2.7	0.3	-	-	21.5
1991	-	-	-	0.1	6.4	2.8	a/	0.3	a/	-	9.5	-	-	-	0.1	12.6	8.7	0.2	0.3	a/	-	21.8
1992	-	-	-	-	-	1.4	-	0.3	-	-	1.7	-	-	-	-	-	2.7	-	0.9	-	-	3.6
1993	-	-	-	0.3	0.2	1.5	1.2	0.4	-	-	3.6	-	-	-	0.6	0.8	3.8	1.8	0.7	-	-	7.6
1994	-	-	-	1.5	1.8	-	0.4	0.1	-	-	3.7	-	-	-	-	a/	-	a/	a/	-	-	a/
1995	-	-	-	0.7	4.0	-	1.3	2.0	-	-	8.1	-	-	-	a/	0.1	-	a/	0.1	-	-	0.2
1996	-	-	-	1.7	3.6	0.2	1.1	0.5	-	-	7.0	-	-	-	-	0.1	a/	a/	a/	-	-	0.2
1997	-	-	-	1.5	1.7	1.2	2.0	0.1	-	-	6.5	-	-	-	a/	a/	a/	0.1	a/	-	-	0.1
1998	-	-	-	0.5	0.5	0.2	0.5	0.1	-	-	1.8	-	-	-	-	a/	a/	a/	-	-	-	a/
1999	-	-	-	a/	2.2	1.0	1.9	0.1	-	-	5.2	-	-	-	-	a/	a/	a/	-	-	-	0.1
2000	-	-	-	0.3	1.8	2.4	5.0	0.5	-	-	9.9	-	-	-	-	a/	a/	0.1	a/	-	-	0.1
2001	-	-	-	1.4	3.6	2.1	2.0	1.4	-	-	10.6	-	-	-	a/	0.1	a/	a/	-	-	-	0.1
2002	-	-	-	2.3	5.0	0.6	5.5	1.7	-	-	15.0	-	-	-	a/	0.2	a/	a/	a/	-	-	0.3
2003	-	-	-	2.9	1.8	1.4	1.7	0.7	-	-	8.4	-	-	-	a/	0.1	a/	a/	-	-	-	0.1
2004 ^{b/}	-	-	-	5.5	1.9	4.4	7.2	2.6	-	-	21.6	-	-	-	0.2	0.1	0.1	0.1	a/	-	-	0.5

TABLE A-5. California ocean recreational salmon landings in numbers of fish by port area and month. (Page 2 of 3)

Year or	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
CHINOOK (thousands)												COHO (thousands)										
Fort Bragg																						
1976-1980	-	-	a/	a/	0.4	1.7	1.2	0.1	a/	-	3.4	-	-	-	0.1	0.6	1.2	0.4	0.1	a/	-	2.4
1981-1985	-	-	a/	a/	0.6	1.6	0.3	a/	a/	-	2.5	-	-	-	-	0.2	0.6	0.1	a/	-	-	0.9
1986-1990	-	a/	0.1	0.4	2.6	3.9	0.7	0.1	a/	-	7.7	-	-	-	a/	0.9	1.9	0.3	0.1	-	-	3.1
1991	-	-	a/	0.2	1.6	3.6	0.5	a/	-	-	5.9	-	-	-	0.5	7.9	9.6	0.6	a/	-	-	18.6
1992	-	a/	0.1	1.0	0.1	2.4	-	0.7	a/	a/	4.3	-	-	-	0.3	0.2	2.5	-	0.4	a/	-	3.3
1993	a/	a/	0.2	0.3	0.5	2.6	1.9	0.2	a/	-	5.8	-	a/	a/	0.1	0.7	9.4	1.9	0.1	a/	-	12.3
1994	a/	0.2	0.7	3.2	6.9	-	1.9	0.3	a/	-	13.2	-	-	a/	-	0.2	-	a/	-	a/	-	0.2
1995	0.2	0.3	1.0	1.1	20.5	-	4.8	1.0	0.1	-	29.0	-	-	a/	a/	0.3	-	0.1	a/	a/	-	0.5
1996	a/	0.3	1.4	1.9	13.7	1.9	3.2	1.5	0.1	-	24.0	-	-	a/	-	0.2	a/	0.1	a/	-	-	0.3
1997	-	0.1	0.5	1.9	4.2	3.6	1.3	0.1	-	-	11.6	-	-	-	a/	a/	a/	a/	-	-	-	0.1
1998	-	a/	-	0.6	0.5	0.7	2.2	0.6	-	-	4.7	-	-	-	-	-	-	a/	-	-	-	a/
1999	-	a/	a/	a/	0.5	2.0	2.6	0.2	-	-	5.3	-	-	-	-	a/	a/	0.1	-	-	-	0.2
2000	-	-	0.7	2.7	5.7	8.1	7.3	1.3	-	-	25.9	-	-	-	-	a/	a/	a/	a/	-	-	0.1
2001	-	0.5	0.5	2.7	6.3	10.4	5.3	0.4	a/	a/	26.1	-	-	-	0.1	0.2	0.1	a/	-	-	-	0.4
2002	a/	0.2	2.5	4.0	8.6	11.6	4.2	0.2	-	-	31.2	-	-	-	a/	a/	0.1	a/	-	-	-	0.2
2003	0.4	0.8	0.4	1.2	5.1	6.4	1.4	0.4	a/	-	16.2	-	-	-	a/	a/	a/	a/	a/	-	-	0.1
2004 ^{b/}	a/	0.5	0.1	1.6	8.5	10.2	1.3	0.7	0.1	0.0	23.2	-	-	-	-	0.1	0.2	0.1	a/	-	-	0.4
San Francisco																						
1976-1980	5.3	7.8	7.4	5.8	10.9	14.4	8.4	7.3	6.6	1.3	75.2	a/	a/	0.2	1.3	0.9	0.9	0.2	0.1	a/	a/	3.6
1981-1985	5.3	5.8	5.5	7.2	12.3	16.9	16.0	8.5	5.5	1.4	84.5	-	a/	a/	0.1	0.4	0.3	0.1	a/	a/	-	1.1
1986-1990	4.5	11.0	16.9	8.3	12.2	17.2	15.6	7.8	3.9	1.0	98.4	-	a/	a/	0.2	0.3	0.4	0.5	0.1	a/	-	1.5
1991	-	3.2	6.1	3.7	6.8	10.0	4.9	1.5	1.0	a/	37.3	-	a/	a/	0.1	4.2	2.8	0.5	0.1	a/	-	7.7
1992	0.1	0.8	0.8	3.9	6.6	13.8	8.9	9.0	3.1	0.1	47.2	a/	a/	a/	0.1	0.1	1.1	0.1	0.1	a/	-	1.6
1993	0.2	4.7	5.3	6.2	6.3	33.1	14.9	4.5	3.5	-	78.7	-	a/	0.1	0.2	0.7	1.8	0.1	a/	a/	-	3.0
1994	0.9	4.1	8.6	7.3	24.7	49.5	20.6	12.7	7.2	-	135.7	-	-	a/	a/	0.1	0.1	a/	a/	a/	-	0.2
1995	-	12.7	14.0	13.6	25.9	59.6	15.7	12.2	2.0	-	155.7	-	-	a/	a/	a/	0.1	a/	a/	-	-	0.2
1996	-	21.4	14.2	6.1	11.2	22.6	4.8	2.9	1.2	-	84.5	-	-	-	a/	a/	a/	a/	-	-	-	0.1
1997	-	3.0	11.0	19.7	15.1	49.0	20.8	2.8	2.4	0.1	124.0	-	-	-	a/	-	0.2	a/	a/-	-	-	0.2
1998	-	0.1	3.7	4.4	12.3	27.4	17.6	3.7	1.8	-	71.0	-	-	-	-	a/	a/	a/	-	-	-	a/
1999	-	0.7	6.3	1.3	10.7	29.9	11.6	6.2	2.6	-	69.3	-	-	-	a/	0.2	0.1	a/	a/	a/	-	0.3
2000	-	-	5.7	10.2	16.3	8.5	7.2	8.1	6.8	1.9	64.7	-	-	-	-	0.1	a/	a/	-	-	-	0.1
2001	-	-	3.3	6.2	1.6	11.2	6.7	6.6	3.1	1.2	39.9	-	-	-	0.2	a/	0.3	a/	-	-	-	0.5
2002	-	-	5.0	13.2	18.0	34.3	13.1	3.1	0.3	0.1	87.0	-	-	a/	a/	0.1	0.2	a/	-	-	-	0.3
2003	-	-	4.7	9.4	13.2	20.0	5.1	3.3	1.0	0.0	56.6	-	-	-	a/	0.1	0.1	-	a/	-	-	0.2
2004 ^{b/}	-	-	6.9	18.7	23.8	47.5	22.6	7.7	2.6	0.3	130.1	-	-	-	a/	a/	0.2	0.1	a/	-	-	0.5

TABLE A-5. California ocean recreational salmon landings in numbers of fish by port area and month. (Page 3 of 3)

Year or	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	
CHINOOK (thousands)												COHO (thousands)											
<u>Monterey</u>																							
1976-1980	0.5	0.7	1.3	0.5	0.5	0.4	0.1	a/	a/	a/	4.1	a/	a/	a/	a/	a/	a/	-	-	-	-	0.1	
1981-1985	0.6	1.4	1.7	0.4	0.3	0.6	0.2	a/	a/	a/	5.5	-	-	a/	a/	a/	a/	-	-	-	-	0.1	
1986-1990	1.1	4.3	9.4	1.3	4.1	7.5	1.7	0.2	0.1	0.2	30.1	-	-	a/	a/	0.1	0.1	a/	a/	-	-	0.3	
1991	-	4.8	6.9	0.9	3.7	6.9	0.4	0.1	1.2	-	24.8	-	-	-	a/	1.0	1.7	0.2	-	a/	-	-	2.9
1992	0.4	2.6	4.5	1.4	2.8	5.9	1.2	0.2	0.2	0.4	19.5	-	-	-	-	0.2	a/	-	-	-	-	-	0.2
1993	0.3	5.1	9.5	2.0	0.5	2.7	0.4	a/	0.1	-	20.6	-	-	-	a/	a/	0.1	a/	-	-	-	-	0.2
1994	0.3	3.0	6.3	1.9	4.1	3.8	1.4	0.8	2.5	-	24.2	-	-	-	-	a/	a/	-	-	-	-	-	a/
1995	-	14.3	42.9	31.1	27.0	74.1	9.3	0.1	-	-	198.9	-	-	a/	-	a/	a/	a/	-	-	-	-	a/
1996	-	10.3	16.1	5.2	2.3	7.8	3.2	-	-	-	44.8	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	16.9	15.4	4.2	26.4	20.0	1.5	0.1	-	-	84.4	-	-	-	-	a/	a/	-	-	-	-	-	a/
1998	-	2.9	9.4	10.3	11.0	9.0	0.9	0.1	-	-	43.5	-	-	-	-	a/	a/	-	-	-	-	-	a/
1999	-	0.9	0.3	0.3	2.3	2.1	1.1	0.1	-	-	7.1	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	33.9	19.2	13.3	10.8	3.0	1.7	-	-	81.8	-	-	-	-	a/	a/	a/	-	-	-	-	0.1
2001	-	0.8	14.2	3.0	0.2	1.6	0.1	0.1	-	-	20.0	-	-	a/	0.2	a/	a/	-	-	-	-	-	0.2
2002	-	2.8	30.3	4.8	3.8	5.4	0.6	a/	-	-	47.7	-	-	-	-	a/	a/	-	-	-	-	-	a/
2003	-	3.1	4.4	1.6	0.8	3.1	a/	-	-	-	13.1	-	-	-	a/	0.1	0.1	-	-	-	-	-	0.2
2004 ^{b/}	-	-	24.0	4.4	1.7	12.9	1.1	0.1	0.0	-	44.2	-	-	-	-	a/	a/	-	-	-	-	-	a/
<u>Total Statewide</u>																							
1976-1980	5.8	8.5	8.7	6.4	13.5	22.0	11.9	7.6	6.7	1.3	92.4	a/	a/	0.2	1.5	8.8	15.8	4.4	0.4	a/	a/	-	31.2
1981-1985	5.9	7.3	7.2	9.4	17.0	27.0	19.6	8.7	5.6	1.4	109.1	-	a/	a/	0.3	4.5	11.1	3.7	0.3	a/	-	-	19.9
1986-1990	5.6	15.3	26.4	11.3	28.3	42.9	22.6	8.6	4.1	1.3	166.5	-	a/	0.1	0.9	10.4	23.2	5.1	0.6	a/	-	-	40.3
1991	-	8.0	13.0	4.8	19.9	25.1	5.7	2.0	2.2	a/	80.8	-	a/	a/	0.7	34.5	31.9	1.6	0.5	a/	-	-	69.3
1992	0.5	3.4	5.4	6.3	9.5	24.3	10.1	10.3	3.3	0.5	73.6	a/	a/	a/	0.4	0.4	9.0	0.1	1.5	a/	-	-	11.5
1993	0.4	9.9	15.0	8.9	7.6	40.4	18.8	5.4	3.6	-	110.0	-	a/	0.1	0.9	2.4	18.8	6.6	1.1	a/	-	-	29.8
1994	1.3	7.3	15.7	18.3	38.8	53.3	24.7	14.1	9.7	-	183.2	-	-	a/	a/	0.2	0.1	0.1	a/	a/	-	-	0.5
1995	0.2	27.3	57.9	47.2	80.3	133.7	31.4	17.0	2.1	-	397.2	-	-	a/	a/	0.5	0.1	0.1	0.1	a/	-	-	0.9
1996	a/	32.0	31.7	15.2	33.0	33.3	12.6	5.0	1.3	-	164.2	-	-	a/	a/	0.3	0.1	0.2	0.1	-	-	-	0.6
1997	-	20.1	26.9	27.5	47.9	74.5	26.4	3.1	2.4	0.1	229.0	-	-	-	a/	0.1	0.3	0.1	a/	-	-	-	0.5
1998	a/	3.0	13.1	16.0	24.9	37.5	21.2	4.5	1.8	a/	122.0	-	-	-	-	a/	a/	a/	-	-	-	-	0.1
1999	-	1.7	6.6	1.6	15.7	35.2	17.7	6.7	2.6	-	87.8	-	-	-	a/	0.2	0.2	0.2	a/	a/	-	-	0.6
2000	-	-	40.3	32.4	37.6	31.2	24.0	11.7	6.8	1.9	185.9	-	-	-	-	0.2	0.1	0.2	a/	-	-	-	0.4
2001	-	1.3	18.1	13.8	12.4	25.8	14.7	8.6	3.1	1.2	98.8	-	-	a/	0.4	0.3	0.5	0.1	-	-	-	-	1.3
2002	a/	3.0	37.8	24.5	35.6	51.9	23.7	5.2	0.3	0.1	182.0	-	-	a/	a/	0.4	0.4	0.1	a/	-	-	-	0.8
2003	0.4	4.0	9.6	15.1	20.9	30.9	8.3	4.4	1.0	0.0	94.7	-	-	-	0.1	0.3	0.2	0.1	a/	-	-	-	0.6
2004 ^{b/}	a/	0.5	31.0	30.7	36.2	75.1	32.5	11.2	2.7	0.3	220.2	-	-	-	0.2	0.2	0.6	0.3	0.1	-	-	-	1.4

a/ Fewer than 50 fish.

b/ Preliminary.

TABLE A-6. Summary of **Oregon commercial troll** salmon fishing **effort** in days fished and **landings** in numbers of fish by port area.^{a/} (Page 1 of 2)

Year or Average	Astoria ^{b/}	Tillamook	Newport	Coos Bay	Brookings	Oregon Subtotal	Alaska	Washington ^{c/}	California	Total
DAYS FISHED (thousands)										
1976-1980	2.9	7.3	16.0	21.5	10.3	58.0	0.1	0.7	0.1	58.7
1981-1985	1.1	3.4	6.0	10.0	5.0	25.5	d/	0.3	0.2	26.0
1986-1990	0.7	6.9	8.7	20.3	1.6	38.2	d/	0.1	d/	38.3
1991	0.7	3.5	5.1	5.6	d/	14.9	0.0	d/	d/	14.9
1992	0.3	2.6	5.8	0.4	-	9.2	0.0	0.1	-	9.2
1993	0.2	1.8	5.9	1.6	-	9.5	0.0	d/	d/	9.5
1994	-	0.5	2.1	0.8	0.3	3.8	0.0	-	d/	3.8
1995	-	1.3	4.7	1.6	0.3	7.9	0.0	0.0	d/	7.9
1996	-	1.4	4.8	1.8	0.5	8.4	0.0	0.0	0.1	8.5
1997	d/	0.7	5.2	1.6	0.4	7.8	0.0	0.0	d/	7.8
1998	0.0	1.0	4.5	1.4	0.2	7.2	0.0	0.0	0.0	7.2
1999	d/	0.7	1.5	2.6	0.2	5.1	0.0	d/	d/	5.1
2000	0.3	0.9	2.7	3.3	0.3	7.5	0.0	d/	d/	7.5
2001	0.2	1.4	5.2	3.8	0.5	11.1	0.0	d/	d/	11.2
2002	0.4	1.6	4.4	4.8	0.4	11.7	0.0	0.3	d/	12.0
2003	0.4	1.9	4.6	5.0	0.5	12.4	0.0	0.1	d/	12.5
2004 ^{e/}	0.3	1.3	4.8	6.1	0.5	13.2	0.0	0.2	0.0	13.4
CHINOOK LANDINGS (thousands)										
1976-1980	15.3	11.2	46.6	85.6	73.9	232.6	0.3	2.8	0.9	236.6
1981-1985	5.6	5.9	27.9	63.5	42.6	145.5	0.4	3.0	2.2	151.1
1986-1990	3.5	26.2	82.9	253.4	28.8	394.9	0.1	1.2	1.4	397.6
1991	0.9	9.5	33.5	30.5	0.2	74.6	0.0	d/	0.1	74.8
1992	1.5	7.3	94.7	6.2	-	109.7	0.0	0.8	-	110.5
1993	0.4	6.3	64.2	10.5	-	81.5	0.0	0.0	d/	81.5
1994	-	1.7	18.1	4.0	1.5	25.2	0.0	-	0.1	25.3
1995	-	9.7	174.4	26.6	3.3	214.0	0.0	0.0	0.8	214.8
1996	-	13.1	127.8	25.6	8.6	175.2	0.0	0.0	2.0	177.1
1997	d/	2.4	118.7	24.8	3.6	149.6	0.0	0.0	0.1	149.7
1998	0.0	6.6	94.8	22.1	0.7	125.0	0.0	0.0	0.0	124.2
1999	d/	2.8	15.8	42.4	1.4	62.4	0.0	1.1	0.1	63.5
2000	2.2	16.0	49.0	65.1	3.5	135.9	0.0	0.4	0.1	136.4
2001	4.1	26.4	168.6	72.3	3.6	275.0	0.0	1.2	0.5	276.7
2002	12.8	30.3	132.1	122.2	6.8	304.2	0.0	15.0	0.2	319.3
2003	10.4	33.5	148.6	132.2	5.1	329.7	0.0	3.2	0.8	333.7
2004 ^{e/}	3.1	9.7	90.4	140.0	8.5	251.6	0.0	8.5	0.0	260.1

TABLE A-6. Summary of **Oregon commercial troll** salmon fishing **effort** in days fished and **landings** in numbers of fish by port area.^{a/} (Page 2 of 2)

Year or Average	Astoria ^{b/}	Tillamook	Newport	Coos Bay	Brookings	Oregon Subtotal	Alaska	Washington ^{c/}	California	Total
COHO LANDINGS (thousands)										
1976-1980	75.7	131.6	216.8	301.4	66.9	792.3	1.8	9.3	0.3	803.7
1981-1985	21.3	67.5	87.8	114.3	19.8	310.6	0.0	9.6	0.8	321.0
1986-1990	17.1	106.7	135.9	132.5	5.1	397.2	d/	1.7	0.2	399.1
1991	26.7	90.2	88.7	101.0	-	306.6	0.0	0.3	0.1	306.9
1992	1.4	7.9	35.0	5.3	-	49.6	0.0	0.1	-	49.8
1993	1.6	-	d/	d/	-	1.7	0.0	d/	-	1.7
1994	-	-	-	-	-	-	0.0	-	-	-
1995	-	-	-	-	-	-	0.0	0.0	-	-
1996	-	-	-	d/	-	-	0.0	0.0	-	-
1997	-	-	-	-	-	-	0.0	-	-	-
1998	-	-	-	-	-	-	0.0	-	-	-
1999	-	-	-	-	-	-	0.0	0.2	-	0.2
2000	12.0	-	-	-	-	12.0	0.0	0.0	-	12.0
2001	9.3	-	-	-	-	9.3	0.0	d/	-	9.4
2002	1.5	-	-	-	-	1.5	0.0	0.0	-	1.5
2003	6.4	-	-	-	-	6.4	0.0	0.3	-	6.7
2004 ^{e/}	8.8	-	-	-	-	8.8	0.0	0.4	-	9.3

a/ Landings are reported by port of landing through 1978 and by area of catch from 1979.

b/ Oregon ports only.

c/ North of Leadbetter Point.

d/ Fewer than 50 fish or days fished.

e/ Preliminary.

TABLE A-7. **Oregon commercial troll salmon effort** in days fished by port area and month (beginning in 1979, monthly totals are the sum of statistical weeks with closest fit to the calendar month).^{a/} (Page 1 of 3)

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
DAYS FISHED (thousands)										
<u>Astoria Area^{b/}</u>										
1976-1980	-	-	0.2	0.3	1.3	0.8	0.2	0.1	c/	2.9
1981-1985	-	-	0.4	-	0.3	0.3	c/	c/	-	1.1
1986-1990	-	-	0.1	c/	c/	0.3	0.1	c/	-	0.7
1991	-	-	0.1	c/	-	0.4	0.2	-	-	0.7
1992	-	-	0.1	0.1	c/	c/	-	-	-	0.3
1993	-	-	c/	c/	0.1	0.1	0.1	-	-	0.2
1994	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	c/	c/	-	-	-	-	-	c/
1998	-	-	0.0	0.0	-	-	-	-	-	0.0
1999	-	-	0.0	c/	-	-	-	-	-	-
2000	-	-	c/	c/	-	0.2	c/	-	-	0.3
2001	-	-	c/	c/	0.1	0.1	c/	-	-	0.2
2002	-	-	c/	0.1	0.2	0.2	-	-	-	0.4
2003	-	-	0.1	c/	0.1	0.1	c/	-	-	0.4
2004 ^{d/}	-	-	c/	c/	0.1	0.1	1.4	-	-	0.3
<u>Tillamook Area</u>										
1976-1980	-	-	c/	1.0	3.6	2.4	0.2	0.1	-	7.3
1981-1985	-	-	0.1	c/	2.0	1.0	0.1	0.1	c/	3.4
1986-1990	-	-	0.2	0.3	3.0	1.7	1.0	0.7	c/	6.9
1991	-	-	0.1	0.1	1.7	0.4	0.5	0.7	-	3.5
1992	-	-	0.1	-	0.2	0.8	0.7	0.7	-	2.6
1993	-	-	0.1	0.1	0.2	0.2	0.8	0.5	-	1.8
1994	-	-	c/	0.1	-	-	-	0.4	c/	0.5
1995	-	-	0.1	0.1	-	0.5	0.3	0.2	-	1.3
1996	-	-	0.1	0.3	-	0.2	0.5	0.3	-	1.4
1997	-	c/	0.1	0.1	-	0.1	0.2	0.2	c/	0.7
1998	-	c/	0.1	0.1	-	0.2	0.3	0.3	c/	1.0
1999	-	c/	0.1	c/	0.2	0.1	0.2	0.1	0.0	0.7
2000	-	c/	0.1	0.3	0.1	0.2	0.2	0.1	c/	0.9
2001	-	c/	0.1	0.2	0.3	0.3	0.2	0.1	c/	1.4
2002	c/	c/	0.1	0.2	0.1	0.3	0.4	0.4	c/	1.6
2003	c/	c/	0.5	0.5	0.2	0.1	0.3	0.3	c/	1.9
2004 ^{d/}	c/	0.2	0.2	0.1	0.1	0.1	0.3	0.2	c/	1.3
<u>Newport Area</u>										
1976-1980	-	-	0.4	1.8	6.9	5.4	1.1	0.4	-	16.0
1981-1985	-	-	0.6	0.3	3.0	1.7	0.2	0.2	c/	6.0
1986-1990	-	-	0.8	1.2	3.8	1.6	0.6	0.6	c/	8.7
1991	-	-	0.6	2.0	0.9	0.6	0.5	0.4	-	5.1
1992	-	-	1.4	-	1.1	1.7	0.7	0.9	-	5.8
1993	-	-	1.4	1.1	1.5	0.8	0.7	0.5	-	5.9
1994	-	-	0.8	0.8	-	-	0.2	0.3	-	2.1
1995	-	-	0.6	1.0	-	1.6	0.8	0.7	-	4.7
1996	-	-	1.0	1.1	-	1.3	0.8	0.5	-	4.8
1997	-	0.2	1.4	1.3	-	1.3	0.7	0.2	-	5.2
1998	-	0.7	1.3	1.2	-	1.0	0.2	0.1	-	4.5
1999	-	0.1	0.4	0.5	0.3	0.1	c/	0.1	-	1.5
2000	-	0.1	0.5	0.5	0.4	0.6	0.6	0.2	-	2.7
2001	-	0.4	1.3	1.0	0.5	1.1	0.6	0.3	-	5.2
2002	0.2	0.3	0.8	0.5	0.3	0.4	0.7	1.2	-	4.4
2003	c/	0.3	0.9	0.5	0.5	0.6	0.9	0.8	-	4.5
2004 ^{d/}	0.5	1.1	1.3	0.6	0.4	0.4	0.5	0.1	-	4.8

TABLE A-7. **Oregon commercial troll salmon effort** in days fished by port area and month (beginning in 1979, monthly totals are the sum of statistical weeks with closest fit to the calendar month).^{a/} (Page 2 of 3)

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
DAYS FISHED (thousands)										
<u>Coos Bay Area</u>										
1976-1980	-	-	0.6	2.7	10.3	6.0	1.6	0.4	c/	21.5
1981-1985	-	-	0.7	0.7	5.2	2.6	0.6	0.2	c/	10.0
1986-1990	-	-	2.7	3.0	7.3	4.7	1.5	1.0	0.1	20.3
1991	-	-	c/	1.8	1.5	1.0	0.8	0.5	-	5.6
1992	-	-	0.1	-	0.1	0.2	c/	0.1	-	0.4
1993	-	-	0.6	0.2	c/	c/	0.4	0.3	0.1	1.6
1994	-	-	0.1	0.3	-	-	0.1	0.3	0.1	0.8
1995	-	-	0.2	0.5	-	0.5	0.2	0.2	0.1	1.6
1996	-	-	0.3	0.5	-	0.3	0.4	0.3	0.1	1.8
1997	-	0.1	0.5	0.4	-	0.2	0.1	0.2	0.1	1.6
1998	-	0.2	0.4	0.4	-	0.2	0.1	0.2	0.1	1.4
1999	-	c/	0.2	0.8	0.4	0.7	0.2	0.2	0.1 ^{e/}	2.6
2000	-	0.1	0.2	0.2	0.7	1.1	0.5	0.3	0.3 ^{e/}	3.3
2001	-	0.4	0.6	0.7	0.6	0.7	0.4	0.3	0.1 ^{e/}	3.8
2002	0.2	0.5	0.8	1.3	0.3	0.6	0.5	0.6	0.2 ^{e/}	4.8
2003	0.1	1.1	1.4	0.6	0.3	0.6	0.5	0.4	0.1 ^{e/}	5.0
2004 ^{d/}	0.4	1.2	0.6	1.1	0.3	1.3	0.6	0.4	0.2 ^{e/}	6.1
<u>Brookings Area</u>										
1976-1980	-	-	0.2	0.7	3.5	2.6	1.5	1.1	0.7	10.3
1981-1985	-	-	0.3	0.2	1.4	1.7	0.4	0.7	0.3	5.0
1986-1990	-	-	0.3	0.5	0.1	0.4	0.1	0.1	0.1	1.7
1991	-	-	-	-	-	-	c/	-	-	c/
1992	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-
1994	-	-	c/	-	-	0.1	-	0.2	-	0.3
1995	-	-	c/	-	c/	-	-	0.2	-	0.3
1996	-	-	0.1	c/	-	0.2	-	0.2	-	0.5
1997	-	c/	0.1	-	-	c/	-	0.2	-	0.4
1998	-	0.0	c/	-	-	c/	-	0.2	-	0.2
1999	-	-	c/	-	-	0.1	c/	0.1	-	0.2
2000	-	-	c/	-	-	0.1	0.1	0.1	-	0.3
2001	-	-	c/	c/	-	0.2	0.1	0.2	-	0.5
2002	c/	c/	c/	0.1	0.1	0.1	0.1	0.1	-	0.4
2003	-	c/	c/	0.1	0.1	0.1	0.1	0.1	c/	0.5
2004 ^{d/}	c/	c/	0.1	0.1	0.1	0.1	0.1	0.1	c/	0.5
<u>South of Cape Falcon</u>										
1976-1980	-	-	1.2	6.2	24.3	16.3	4.4	2.0	0.7	55.1
1981-1985	-	-	1.7	1.2	11.6	7.1	1.4	1.2	0.3	24.4
1986-1990	-	-	4.1	5.1	14.3	8.3	3.2	2.4	0.3	37.5
1991	-	-	0.7	3.9	4.1	2.0	1.9	1.6	-	14.2
1992	-	-	1.6	-	1.5	2.7	1.5	1.7	-	8.9
1993	-	-	2.1	1.3	1.7	1.0	1.9	1.2	0.1	9.3
1994	-	-	1.0	1.2	-	0.1	0.3	1.2	0.1	3.8
1995	-	-	1.0	1.6	c/	2.6	1.3	1.3	0.1	7.9
1996	-	-	1.5	2.0	-	2.0	1.6	1.2	0.1	8.4
1997	-	0.4	2.1	1.9	-	1.7	1.0	0.7	0.1	7.8
1998	-	0.9	1.8	1.7	-	1.4	0.6	0.8	0.1	7.2
1999	-	0.2	0.6	1.4	0.8	1.1	0.5	0.5	0.1 ^{e/}	5.1
2000	-	0.3	0.7	1.0	1.2	1.9	1.3	0.8	0.3 ^{e/}	7.2
2001	-	0.9	2.0	2.0	1.4	2.2	1.3	0.9	0.1 ^{e/}	10.9
2002	0.4	0.9	1.7	2.0	0.8	1.4	1.7	2.3	0.2 ^{e/}	11.3
2003	0.2	1.4	2.9	1.6	1.0	1.5	1.7	1.6	0.2 ^{e/}	12.0
2004 ^{d/}	0.9	2.5	2.2	2.0	0.9	1.9	1.4	0.8	0.3 ^{e/}	12.9

TABLE A-7. **Oregon commercial troll salmon effort** in days fished by port area and month (beginning in 1979, monthly totals are the sum of statistical weeks with closest fit to the calendar month).^{a/} (Page 3 of 3)

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
DAYS FISHED (thousands)										
<u>Total All Areas</u>										
1976-1980	-	-	1.4	6.5	25.6	17.2	4.6	2.1	0.7	58.0
1981-1985	-	-	2.1	1.2	11.9	7.4	1.4	1.2	0.3	25.5
1986-1990	-	-	4.2	5.1	14.3	8.6	3.3	2.4	0.3	38.2
1991	-	-	0.8	4.0	4.1	2.4	2.0	1.6	-	14.9
1992	-	-	1.6	0.1	1.5	2.7	1.5	1.7	-	9.2
1993	-	-	2.1	1.3	1.8	1.0	2.0	1.2	0.1	9.5
1994	-	-	1.0	1.2	-	0.1	0.3	1.2	0.1	3.8
1995	-	-	1.0	1.6	c/	2.6	1.3	1.3	0.1	7.9
1996	-	-	1.5	2.0	-	2.0	1.6	1.2	0.1	8.4
1997	-	0.4	2.1	1.9	-	1.7	1.0	0.7	0.1	7.8
1998	-	0.9	1.8	1.7	-	1.4	0.6	0.8	0.1	7.2
1999	-	0.2	0.6	1.4	0.8	1.1	0.5	0.5	0.1 ^{e/}	5.1
2000	-	0.2	0.7	1.0	1.2	2.1	1.3	0.8	0.3 ^{e/}	7.5
2001	-	0.9	2.0	2.0	1.4	2.3	1.3	0.9	0.1 ^{e/}	11.1
2002	0.4	0.9	1.8	2.1	0.9	1.6	1.7	2.3	0.2 ^{e/}	11.7
2003	0.2	1.4	3.0	1.6	1.1	1.6	1.8	1.6	0.2 ^{e/}	12.4
2004 ^{d/}	0.9	2.5	2.3	2.0	1.0	2.0	1.6	0.8	0.3 ^{e/}	13.2

a/ Summary of ODFW fish receiving ticket information. Excludes effort occurring off Alaska, Washington, and California. Days fished data are reported by port of landing prior to 1979 and by area of catch after 1978. Catch and landing areas include the following port areas: Columbia River area includes Oregon ports from Astoria through Cannon Beach; Tillamook area includes Nehalem through Pacific City; Newport area includes Depoe Bay through Waldport; Coos Bay area prior to 1986 includes Florence through Bandon and after 1987 includes Florence through Port Orford; Brookings area prior to 1986 includes Port Orford through Brookings and after 1987 includes Gold Beach through Brookings.

b/ Oregon ports only.

c/ Fewer than 50 days fished.

d/ Preliminary.

e/ Includes data through December.

TABLE A-8. **Oregon commercial troll chinook and coho salmon landings** in numbers of fish by port area and month (beginning in 1979, monthly totals are the sum of statistical weeks with closest fit to the calendar month).^{a/} (Page 1 of 4)

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	June	July	Aug.	Sept.	Oct.	Season
	CHINOOK (thousands)										COHO (thousands)					
<u>Astoria Area</u>																
1976-1980	-	-	5.0	4.6	3.1	1.5	0.5	0.6	-	15.3	22.9	34.5	12.9	4.7	0.6	75.7
1981-1985	-	-	4.7	-	0.5	0.3	b/	b/	-	5.6	-	11.3	9.5	0.5	-	21.3
1986-1990	-	-	1.8	0.2	0.4	0.5	0.5	b/	-	3.5	-	1.5	11.3	4.3	0.1	17.1
1991	-	-	0.3	b/	-	0.5	0.1	-	-	0.9	-	-	21.6	5.2	-	26.7
1992	-	-	0.4	0.9	0.1	0.1	-	-	-	1.5	-	0.7	0.8	-	-	1.4
1993	-	-	0.3	b/	b/	b/	0.1	-	-	0.4	-	0.2	1.2	0.2	-	1.6
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	b/	b/	-	-	-	-	-	b/	-	-	-	-	-	-
1998	-	-	0.0	0.0	-	-	-	-	-	0.0	-	-	-	-	-	-
1999	-	-	0.0	b/	-	-	-	-	-	b/	-	-	-	-	-	-
2000	-	-	b/	0.2	-	2.0	b/	-	-	2.2	-	-	11.4	0.6	-	12.0
2001	-	-	0.4	1.7	0.9	0.8	0.3	-	-	4.1	-	3.7	3.4	2.3	-	9.3
2002	-	-	0.9	3.2	4.2	4.5	-	-	-	12.8	-	-	1.5	-	-	1.5
2003	-	-	4.9	1.2	1.3	2.4	0.6	-	-	10.4	-	1.5	3.7	1.3	-	6.4
2004 ^{d/}	-	-	1.9	b/	0.4	0.3	0.5	-	-	3.1	-	0.7	1.4	6.7	-	8.8
<u>Tillamook Area</u>																
1976-1980	-	-	0.5	3.3	4.1	2.7	0.5	0.2	-	11.2	30.0	67.5	31.7	2.3	0.1	131.6
1981-1985	-	-	1.5	0.3	2.4	1.2	0.3	0.2	-	5.9	-	55.1	12.1	0.3	-	67.5
1986-1990	-	-	1.7	3.1	8.3	5.9	4.7	2.5	b/	26.2	-	83.4	22.1	1.1	-	106.6
1991	-	-	0.2	0.2	3.1	1.9	2.1	2.0	-	9.5	-	90.2	-	-	-	90.2
1992	-	-	0.4	-	0.4	2.2	1.9	2.4	-	7.3	-	0.8	7.1	-	b/	7.9
1993	-	-	0.5	0.2	0.8	0.6	2.6	1.6	-	6.3	-	-	-	-	-	-
1994	-	-	0.1	0.3	-	-	-	1.3	b/	1.7	-	-	-	-	-	-
1995	-	-	0.4	0.8	-	6.6	1.1	0.7	-	9.7	-	-	-	-	-	-
1996	-	-	0.7	8.6	-	1.1	2.1	0.7	-	13.1	-	-	-	-	-	-
1997	-	b/	0.2	0.6	-	0.3	0.7	0.4	b/	2.4	-	-	-	-	-	-
1998	-	0.2	0.4	0.8	-	2.2	2.2	0.8	b/	6.6	-	-	-	-	-	-
1999	-	b/	0.3	0.6	0.2	1.0	0.6	0.2	b/	2.8	-	-	-	-	-	-
2000	-	b/	0.2	3.8	0.6	5.8	1.5	4.2	b/	16.0	-	-	-	-	-	-
2001	-	0.8	0.9	4.8	7.6	6.8	4.0	1.4	b/	26.4	-	-	-	-	-	-
2002	0.1	0.1	1.3	4.7	1.7	5.4	7.0	10.1	b/	30.3	-	-	-	-	-	-
2003	0.3	0.1	14.0	11.7	1.2	1.5	2.6	2.1	b/	33.5	-	-	-	-	-	-
2004 ^{d/}	b/	3.0	3.4	0.6	0.3	0.5	1.0	0.9	0.1	9.7	-	-	-	-	-	-

TABLE A-8. Oregon commercial troll chinook and coho salmon landings in numbers of fish by port area and month (beginning in 1979, monthly totals are the sum of statistical weeks with closest fit to the calendar month).^{ai} (Page 2 of 4)

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	June	July	Aug.	Sept.	Oct.	Season
	CHINOOK (thousands)										COHO (thousands)					
Newport Area																
1976-1980	-	-	3.6	6.5	12.5	16.4	4.8	2.8	b/	46.6	36.4	110.3	63.5	5.8	0.8	216.8
1981-1985	-	-	6.3	2.3	11.7	5.1	1.0	1.5	-	27.9	-	60.3	26.7	0.8	-	87.8
1986-1990	-	-	8.8	14.1	27.8	14.4	6.9	10.9	-	82.9	b/	108.3	26.5	1.0	-	135.9
1991	-	-	2.9	7.4	3.4	5.8	7.0	7.0	-	33.5	58.3	30.4	-	-	-	88.7
1992	-	-	19.6	-	28.5	21.9	8.5	16.2	-	94.7	-	19.0	15.9	-	-	35.0
1993	-	-	17.1	13.7	11.9	9.4	8.6	3.5	-	64.2	-	-	b/	-	-	b/
1994	-	-	7.2	7.0	-	-	1.0	2.8	-	18.1	-	-	-	-	-	-
1995	-	-	8.6	28.0	-	79.4	33.3	25.1	-	174.4	-	-	-	-	-	-
1996	-	-	22.7	20.6	-	53.6	19.4	11.5	-	127.8	-	-	-	-	-	-
1997	-	2.4	24.0	26.9	-	38.7	24.0	2.8	-	118.7	-	-	-	-	-	-
1998	-	16.5	34.1	25.0	-	16.0	2.3	0.9	-	94.8	-	-	-	-	-	-
1999	-	0.6	4.5	5.7	3.2	1.0	0.1	0.7	-	15.8	-	-	-	-	-	-
2000	-	0.6	4.4	5.8	4.4	14.2	14.9	4.7	-	49.0	-	-	-	-	-	-
2001	-	8.5	45.4	28.0	15.7	40.7	20.4	10.0	-	168.6	-	-	-	-	-	-
2002	3.9	4.3	12.2	7.4	5.1	7.6	34.9	56.5	-	132.1	-	-	-	-	-	-
2003	0.7	8.9	24.8	12.2	12.8	22.8	36.2	30.3	-	148.6	-	-	-	-	-	-
2004 ^{ci}	13.0	12.3	26.4	7.4	8.1	11.0	11.5	0.7	-	90.4	-	-	-	-	-	-
Coos Bay Area																
1976-1980	-	-	3.1	11.9	30.2	28.9	7.5	3.9	b/	85.6	69.9	176.0	52.1	3.2	0.2	301.4
1981-1985	-	-	5.5	4.3	29.9	17.2	5.4	1.1	b/	63.5	-	101.9	12.4	b/	-	114.3
1986-1990	-	-	30.5	28.2	103.6	64.0	17.4	9.2	0.7	253.4	b/	103.6	26.8	2.0	-	132.5
1991	-	-	0.1	5.1	9.0	3.9	8.9	3.5	-	30.5	32.8	68.2	c/	-	-	101.0
1992	-	-	0.6	-	2.6	2.0	0.3	0.6	-	6.2	-	3.2	2.1	-	-	5.3
1993	-	-	2.7	0.9	0.2	0.4	4.4	1.3	0.7	10.5	-	-	-	-	b/	b/
1994	-	-	0.4	1.6	-	-	0.2	1.5	0.4	4.0	-	-	-	-	-	-
1995	-	-	1.6	7.0	-	11.9	4.1	1.6	0.3	26.6	-	-	-	-	-	-
1996	-	-	2.2	10.1	-	6.1	4.5	1.9	0.8	25.6	b/	-	-	-	-	b/
1997	-	2.0	6.7	7.9	-	5.5	1.1	1.2	0.5	24.8	-	-	-	-	-	-
1998	-	3.3	5.2	7.9	-	2.7	0.5	1.7	0.9	22.1	-	-	-	-	-	-
1999	-	0.2	1.3	17.2	4.7	15.2	1.1	1.5	1.2 ^{di}	42.4	-	-	-	-	-	-
2000	-	0.6	1.5	1.9	14.8	27.2	13.9	3.4	1.9 ^{di}	65.1	-	-	-	-	-	-
2001	-	9.2	14.3	10.1	14.2	13.2	6.2	3.7	1.3 ^{di}	72.3	-	-	-	-	-	-
2002	2.6	6.2	9.9	47.8	5.5	15.3	16.9	16.6	1.3 ^{di}	122.2	-	-	-	-	-	-
2003	2.2	49.9	34.8	7.9	5.6	13.1	10.8	6.8	1.1 ^{di}	132.2	-	-	-	-	-	-
2004 ^{ci}	8.0	18.7	7.4	15.0	5.7	65.2	11.2	6.6	2.3	140.0	-	-	-	-	-	-

TABLE A-8. **Oregon commercial troll chinook and coho salmon landings** in numbers of fish by port area and month (beginning in 1979, monthly totals are the sum of statistical weeks with closest fit to the calendar month).^{ai} (Page 3 of 4)

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	June	July	Aug.	Sept.	Oct.	Season
	CHINOOK (thousands)										COHO (thousands)					
<u>Brookings Area</u>																
1976-1980	-	-	1.8	4.2	21.3	27.1	10.5	6.6	2.4	73.9	10.6	43.1	11.7	1.6	0.1	66.9
1981-1985	-	-	1.7	1.9	10.4	20.1	3.9	3.5	1.1	42.6	-	12.7	7.1	-	-	19.8
1986-1990	-	-	5.1	13.4	1.9	5.2	1.7	0.6	0.9	28.8	3.7	1.4	-	-	-	5.1
1991	-	-	-	-	-	-	0.2	-	-	0.2	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	-	-	0.2	-	-	0.2	-	1.0	-	1.5	-	-	-	-	-	-
1995	-	-	0.3	-	1.7	-	-	1.3	-	3.3	-	-	-	-	-	-
1996	-	-	2.9	2.2	-	2.7	-	0.8	-	8.6	-	-	-	-	-	-
1997	-	0.1	2.3	-	-	0.3	-	0.9	-	3.6	-	-	-	-	-	-
1998	-	0.0	0.1	-	-	0.1	-	0.6	-	0.7	-	-	-	-	-	-
1999	-	-	b/	-	-	0.8	0.2	0.4	-	1.4	-	-	-	-	-	-
2000	-	-	b/	-	-	1.4	1.2	0.9	-	3.5	-	-	-	-	-	-
2001	-	-	0.2	0.4	-	1.3	1.0	0.7	-	3.6	-	-	-	-	-	-
2002	b/	0.1	0.1	1.0	1.5	1.3	2.3	0.5	-	6.8	-	-	-	-	-	-
2003	-	0.1	0.6	0.5	1.1	1.1	1.1	0.6	b/	5.1	-	-	-	-	-	-
2004 ^{ci}	b/	b/	0.8	2.8	2.3	2.0	0.3	0.2	b/	8.5	-	-	-	-	-	-
<u>South of Cape Falcon</u>																
1976-1980	-	-	9.1	25.9	68.1	75.0	23.3	13.5	2.5	217.3	146.8	396.9	159.0	12.9	1.1	716.7
1981-1985	-	-	15.1	8.7	54.3	43.6	10.7	6.4	1.1	139.9	-	229.9	58.3	1.2	-	289.3
1986-1990	-	-	46.1	58.8	141.5	89.6	30.7	23.1	1.6	391.4	3.7	296.8	75.5	4.2	-	380.1
1991	-	-	3.3	12.6	15.5	11.6	18.2	12.4	-	73.7	91.2	188.7	b/	-	-	279.9
1992	-	-	20.6	-	31.5	26.1	10.7	19.3	-	108.2	-	23.1	25.1	-	b/	48.2
1993	-	-	20.3	14.7	12.9	10.4	15.6	6.4	0.7	81.1	-	-	b/	-	b/	b/
1994	-	-	7.9	8.9	-	0.2	1.2	6.6	0.4	25.2	-	-	-	-	-	-
1995	-	-	10.9	35.8	1.7	97.9	38.5	28.8	0.3	214.0	-	-	-	-	-	-
1996	-	-	28.5	41.5	-	63.5	26.0	14.9	0.8	175.2	b/	-	-	-	-	b/
1997	-	4.5	33.3	35.4	-	44.7	25.8	5.4	0.5	149.5	-	-	-	-	-	-
1998	-	20.0	39.7	33.7	-	21.0	5.0	4.0	0.9	124.2	-	-	-	-	-	-
1999	-	0.8	6.1	23.5	8.1	17.9	1.9	2.8	1.3 ^{di}	62.4	-	-	-	-	-	-
2000	-	1.2	6.0	11.4	19.8	48.7	31.6	13.1	2.0 ^{di}	133.6	-	-	-	-	-	-
2001	-	18.5	60.8	43.3	37.5	62.0	31.5	15.8	1.4 ^{di}	270.9	-	-	-	-	-	-
2002	6.7	10.7	23.6	60.8	13.8	29.6	61.2	83.7	1.3 ^{di}	291.4	-	-	-	-	-	-
2003	3.2	59.0	74.1	32.3	20.7	38.4	50.8	39.7	1.1 ^{di}	319.3	-	-	-	-	-	-
2004 ^{ci}	21.0	34.0	37.9	25.7	16.4	78.7	23.9	8.5	2.4 ^{di}	248.5	-	-	-	-	-	-

TABLE A-8. **Oregon commercial troll chinook and coho salmon landings** in numbers of fish by port area and month (beginning in 1979, monthly totals are the sum of statistical weeks with closest fit to the calendar month).^{a/} (Page 4 of 4)

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)											COHO (thousands)					
Total All Areas																
1976-1980	-	-	14.1	30.5	71.2	76.5	23.8	14.0	2.5	232.6	169.7	431.4	171.9	17.6	1.8	792.3
1981-1985	-	-	19.8	8.7	54.8	43.9	10.7	6.4	1.1	145.5	-	241.2	67.8	1.7	-	310.6
1986-1990	-	-	47.9	59.0	142.0	90.1	31.2	23.1	1.6	394.9	3.7	298.2	86.8	8.4	0.1	397.2
1991	-	-	3.6	12.6	15.5	12.1	18.3	12.4	-	74.6	91.2	188.7	21.6	5.2	-	306.6
1992	-	-	21.0	0.9	31.6	26.2	10.7	19.3	-	109.7	-	23.7	25.9	-	b/	49.6
1993	-	-	20.6	14.7	13.0	10.5	15.6	6.4	0.7	81.5	-	0.2	1.2	0.2	b/	1.7
1994	-	-	7.9	8.9	-	0.2	1.2	6.6	0.4	25.2	-	-	-	-	-	-
1995	-	-	10.9	35.8	1.7	97.9	38.5	28.8	0.3	214.0	-	-	-	-	-	-
1996	-	-	28.5	41.5	-	63.5	26.0	14.9	0.8	175.2	b/	-	-	-	-	b/
1997	-	4.5	33.4	35.4	-	44.7	25.8	5.4	0.5	149.6	-	-	-	-	-	-
1998	-	20.0	39.7	33.7	-	21.0	5.0	4.0	0.9	124.2	-	-	-	-	-	-
1999	-	0.8	6.1	23.5	8.1	17.9	1.9	2.8	1.3 ^{d/}	62.4	-	-	-	-	-	-
2000	-	1.2	6.1	11.7	19.8	50.6	31.6	13.1	2.0 ^{d/}	135.9	-	-	11.6	0.7	-	12.3
2001	-	18.5	61.2	45.0	38.5	62.8	31.8	15.8	1.4 ^{d/}	275.0	-	3.7	3.4	2.3	-	9.3
2002	6.7	10.7	24.4	64.0	18.0	34.1	61.2	83.7	1.3 ^{d/}	304.2	-	-	1.5	-	-	1.5
2003	3.2	59.0	79.0	33.5	22.0	40.8	51.4	39.7	1.1 ^{d/}	329.7	-	1.5	3.7	1.3	-	6.4
2004 ^{c/}	21.0	34.0	39.8	25.7	16.8	79.0	24.4	8.5	2.4 ^{d/}	251.6	-	0.7	1.4	6.7	-	8.8

a/ Excludes harvests off Alaska, Washington (north of Leadbetter Point), and California that were landed in Oregon. Landings are reported by port of landing through 1978 and by area of catch beginning in 1979. Catch and landing areas include the following port areas: Columbia River area includes Oregon ports from Astoria through Cannon Beach; Tillamook area includes Nehalem through Pacific City; Newport area includes Depoe Bay through Waldport; Coos Bay area prior to 1988 includes Florence through Bandon and after 1987 includes Florence through Port Orford; Brookings area prior to 1988 includes Port Orford through Brookings and after 1987 includes Gold Beach through Brookings.

b/ Fewer than 50 fish.

c/ Preliminary.

d/ Includes catch through December.

TABLE A-9. Oregon ocean recreational effort in salmon angler trips by port area and month.^{a/} (Page 1 of 3)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)										
<u>Astoria Area</u>										
1976-1980	-	-	0.9	8.6	17.4	25.3	8.3	0.2	b/	60.7
1981-1985	-	-	0.2	2.6	11.8	9.9	1.7	-	-	26.2
1986-1990	-	-	b/	0.9	8.9	7.6	0.3	-	-	17.7
1991	-	-	-	1.5	9.0	9.4	1.8	-	-	21.7
1992	-	-	-	-	9.8	1.8	1.3	-	-	12.9
1993	-	-	-	-	5.7	7.9	4.3	-	-	17.8
1994	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	2.3	7.7	1.0	-	-	10.9
1996	-	-	-	-	1.0	3.8	0.9	-	-	5.6
1997	-	-	-	-	2.8	0.8	-	-	-	3.6
1998	-	-	-	-	-	1.8	0.3	-	-	2.1
1999	-	-	-	-	2.1	3.7	1.7	-	-	7.4
2000	-	-	-	-	4.0	4.4	-	-	-	8.4
2001	-	-	-	-	8.0	13.0	2.3	-	-	23.2
2002	-	-	0.2	0.4	4.0	6.4	1.2	b/	-	12.1
2003	-	-	-	0.2	5.3	12.6	1.3	b/	-	19.2
2004 ^{c/}	-	-	b/	0.3	4.5	11.3	2.6	b/	-	18.7
<u>Tillamook Area</u>										
1976-1980	-	-	1.0	5.5	14.8	18.5	3.8	0.2	b/	43.8
1981-1985	-	-	0.3	1.2	14.2	11.6	2.7	0.3	-	30.3
1986-1990	-	-	0.1	2.0	12.1	10.7	4.1	d/	-	29.0
1991	-	-	0.4	4.0	16.6	-	-	d/	-	21.0
1992	-	-	1.2	3.4	11.7	7.1	2.8	d/	-	26.1
1993	-	-	0.8	0.2	3.1	1.5	-	d/	-	5.6
1994	-	-	0.6	0.9	-	-	-	8.7	b/	10.3
1995	-	-	0.6	0.1	-	-	1.3	1.0	0.8	3.8
1996	-	-	0.7	0.1	b/	0.5	3.7	3.3	-	8.3
1997	-	0.0	b/	0.1	0.1	0.3	1.4	1.8	d/	3.6
1998	-	0.0	0.6	0.1	b/	0.3	2.3	2.9	d/	6.0
1999	-	b/	0.6	0.1	3.4	0.3	3.1	3.5	0.1	11.2
2000	-	b/	0.4	0.1	3.8	0.4	3.4	3.2	0.2	11.5
2001	-	b/	0.5	2.8	7.3	0.9	2.7	2.1	0.2	16.5
2002	-	b/	0.4	0.4	7.0	4.8	5.0	6.8	0.1	24.4
2003	b/	b/	0.4	1.9	12.0	5.5	4.8	3.0	0.4	28.0
2004 ^{c/}	b/	0.1	0.4	2.8	11.8	6.7	4.4	2.6	0.3	29.2
<u>Newport Area</u>										
1976-1980	-	-	2.7	14.8	37.8	34.8	6.8	0.7	b/	97.7
1981-1985	-	-	0.5	3.8	29.0	20.8	3.0	-	-	57.1
1986-1990	-	-	0.8	3.8	29.0	20.8	3.0	-	-	74.6
1991	-	-	0.8	11.8	40.6	-	-	-	-	53.3
1992	-	-	1.1	7.1	27.9	14.6	2.4	-	-	53.0
1993	-	-	0.2	0.2	11.6	5.1	-	-	-	17.1
1994	-	-	0.1	b/	-	-	-	-	-	0.1
1995	-	-	0.1	0.3	-	-	0.4	0.1	-	0.9
1996	-	-	0.3	0.2	b/	1.8	0.5	-	-	2.8
1997	-	b/	0.1	0.2	0.1	1.7	0.3	-	-	2.4
1998	-	0.0	b/	0.1	0.1	0.9	0.2	b/	-	1.3
1999	-	b/	b/	0.1	7.1	0.1	b/	b/	-	7.4
2000	-	b/	b/	0.1	11.7	0.9	0.3	0.1	-	13.0
2001	-	b/	0.2	6.6	13.3	2.4	0.9	0.1	-	23.6
2002	-	b/	0.1	0.5	12.4	2.8	1.5	0.7	-	18.1
2003	b/	b/	0.3	3.8	20.8	12.7	1.4	0.5	-	39.6
2004 ^{c/}	b/	0.1	0.1	4.6	17.6	12.7	3.4	0.4	-	39.0

TABLE A-9. Oregon ocean recreational effort in salmon angler trips by port area and month.^{a/} (Page 2 of 3)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)										
<u>Coos Bay Area</u>										
1976-1980	-	-	5.3	24.1	44.6	29.7	7.0	0.4	b/	111.1
1981-1985	-	-	1.3	8.0	34.9	16.7	2.8	d/	d/	63.7
1986-1990	-	-	0.7	8.7	33.1	15.3	3.5	d/	d/	61.4
1991	-	-	1.0	17.3	39.4	-	-	-	-	57.7
1992	-	-	1.4	9.4	28.6	12.8	3.3	d/	-	55.6
1993	-	-	0.3	0.9	10.1	4.1	-	-	-	15.3
1994	-	-	0.2	0.2	-	-	-	d/	d/	0.4
1995	-	-	0.1	0.5	-	-	0.1	d/	d/	0.7
1996	-	-	0.2	0.6	0.6	1.9	0.7	d/	d/	3.9
1997	-	b/	0.3	0.5	0.8	2.0	0.4	d/	d/	3.9
1998	-	0.0	b/	b/	0.3	1.9	0.1	d/	d/	2.4
1999	-	0.0	b/	0.6	5.0	1.8	0.2	0.0	d/	7.6
2000	-	b/	0.1	0.2	14.9	7.2	1.1	0.1	d/	23.6
2001	-	b/	0.6	8.1	15.4	6.1	0.8	0.1	d/	31.1
2002	-	0.2	0.8	5.3	17.3	6.6	2.8	0.4	d/	33.4
2003	b/	0.1	1.0	5.3	21.3	12.9	2.2	0.1	d/	42.9
2004 ^{c/}	b/	0.1	1.0	7.4	19.9	9.4	2.7	b/	d/	40.5
<u>Brookings Area</u>										
1976-1980	-	-	1.3	11.8	27.8	20.2	6.8	5.6	0.9	74.4
1981-1985	-	-	1.7	6.3	25.9	15.4	3.4	3.4	0.1	56.2
1986-1990	-	-	2.2	13.0	24.7	13.1	3.2	2.2	-	58.4
1991	-	-	1.1	11.6	17.8	1.9	4.0	-	-	36.4
1992	-	-	-	-	8.9	-	4.9	3.9	-	17.7
1993	-	-	1.7	4.7	6.5	8.1	2.8	-	-	23.8
1994	-	-	6.3	1.3	-	1.4	2.9	4.2	-	16.2
1995	-	-	2.3	6.2	-	2.0	5.5	3.4	0.0	19.4
1996	-	-	1.7	5.9	2.2	6.0	3.2	4.3	-	23.3
1997	-	-	2.5	3.5	2.9	5.5	1.0	1.3	-	16.6
1998	-	-	1.4	2.2	1.5	4.2	2.0	2.8	-	14.1
1999	-	-	0.2	0.9	2.5	6.6	3.3	2.3	-	15.8
2000	-	-	0.2	2.6	2.6	11.9	1.5	3.2	-	22.0
2001	-	-	3.7	4.1	4.4	9.2	0.4	4.3	-	26.1
2002	-	-	1.8	4.0	0.5	5.7	3.8	4.0	-	19.7
2003	-	-	1.1	1.5	3.9	4.1	1.5	2.6	-	14.8
2004 ^{c/}	-	-	1.2	3.4	3.8	4.4	3.8	1.6	-	18.3
<u>South of Cape Falcon</u>										
1976-1980	-	-	10.3	56.2	125.1	103.2	24.3	7.0	1.0	327.0
1981-1985	-	-	3.8	19.4	104.0	64.4	11.9	3.7	0.1	207.3
1986-1990	-	-	3.9	31.5	107.3	62.5	16.0	2.2	d/	223.4
1991	-	-	3.4	44.7	114.4	1.9	4.0	d/	-	168.4
1992	-	-	3.7	19.9	77.1	34.4	13.4	3.9	-	152.4
1993	-	-	3.0	6.0	31.3	18.7	2.8	d/	d/	61.8
1994	-	-	7.2	2.4	-	1.4	2.9	13.0	b/	26.9
1995	-	-	3.2	7.1	-	2.0	7.4	4.6	0.8	24.9
1996	-	-	3.0	6.8	2.8	10.2	8.0	7.5	-	38.3
1997	-	b/	2.9	4.2	3.8	9.5	3.1	3.1	d/	26.6
1998	-	0.0	2.0	2.4	1.9	7.3	4.6	5.7	d/	23.9
1999	-	b/	0.8	1.7	18.1	8.8	6.7	5.8	0.1	42.0
2000	-	b/	0.7	2.9	33.0	20.4	6.3	6.5	0.2	70.1
2001	-	b/	5.0	21.7	40.4	18.6	4.7	6.6	0.2	97.2
2002	-	0.3	3.1	10.2	37.2	19.8	13.1	11.9	0.1	95.6
2003	0.1	0.1	2.8	12.4	58.0	35.2	10.0	6.3	0.4	125.2
2004 ^{c/}	0.1	0.2	2.7	18.3	53.2	33.2	14.4	4.6	0.3	127.0

TABLE A-9. **Oregon ocean recreational effort** in salmon angler trips by port area and month.^{a/} (Page 3 of 3)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)										
<u>Total All Areas</u>										
1976-1980	-	-	11.2	64.8	142.5	128.5	32.7	7.2	1.0	387.7
1981-1985	-	-	4.0	22.0	115.8	74.3	13.6	3.7	0.1	233.5
1986-1990	-	-	3.9	32.4	116.2	70.1	16.3	2.2	d/	241.1
1991	-	-	3.4	46.2	123.4	11.3	5.8	d/	-	190.1
1992	-	-	3.7	19.9	86.9	36.3	14.7	3.9	-	165.3
1993	-	-	3.0	6.0	37.0	26.5	7.1	d/	d/	79.6
1994	-	-	7.2	2.4	-	1.4	2.9	13.0	b/	26.9
1995	-	-	3.2	7.1	2.3	9.6	8.4	4.6	0.8	35.8
1996	-	-	3.0	6.8	3.8	13.9	8.9	7.5	-	44.0
1997	-	b/	2.9	4.2	6.7	10.3	3.1	3.1	d/	30.2
1998	-	0.0	2.0	2.4	1.9	9.1	4.9	5.7	d/	26.0
1999	-	b/	0.8	1.7	20.2	12.4	8.4	5.8	0.1	49.4
2000	-	b/	0.7	2.9	37.0	24.9	6.3	6.5	0.2	78.6
2001	-	b/	5.0	21.7	48.4	31.6	7.0	6.6	0.2	120.5
2002	-	0.3	3.2	10.6	41.2	26.2	14.2	11.9	0.1	107.6
2003	0.1	0.1	2.8	12.5	63.3	47.7	11.2	6.3	0.4	144.4
2004 ^{c/}	0.1	0.2	2.7	18.6	57.6	44.5	17.1	4.7	0.3	145.7

a/ Monthly totals are the sum of statistical weeks with closest fit to the calendar month. The 1976-1980 effort is from combined salmon/steelhead punch card and sampled port data. Since 1981, data from sampled ports only. Effort since 1979 consists of salmon angler trips only. Data prior to 1979 include combined bottomfish and salmon trips. Columbia River area includes Astoria, Warrenton, and Hammond; Tillamook area includes Garibaldi and Pacific City; Newport area includes Depoe Bay and Newport; Coos Bay area includes Florence, Winchester Bay, and Coos Bay; Brookings area includes Gold Beach and Brookings.

b/ Fewer than 50 angler trips.

c/ Preliminary.

d/ Estimates not available. Fishery not sampled due to very low, sporadic effort and catch.

TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish by port area and month.^{a/} (Page 1 of 4)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	May	June	July	Aug.	Sept.	Season
CHINOOK (thousands)											COHO (thousands)					
<u>Astoria Area</u>																
1976-1980 ^{b/}	-	-	0.3	3.2	4.1	8.0	1.5	0.1	c/	17.1	0.9	12.9	20.7	21.7	7.1	63.5
1981-1985	-	-	c/	0.7	2.4	1.9	0.3	-	-	5.4	0.3	3.6	16.5	11.2	2.2	33.8
1986-1990	-	-	c/	0.1	1.0	1.2	c/	-	-	2.3	-	2.2	16.0	10.6	0.3	29.0
1991	-	-	-	0.1	0.3	0.6	c/	-	-	1.0	-	2.4	16.4	17.2	3.4	39.4
1992	-	-	-	-	0.3	0.2	c/	-	-	0.5	-	-	17.9	3.0	1.4	22.3
1993	-	-	-	-	0.2	0.4	0.2	-	-	0.8	-	-	7.1	10.3	3.8	21.2
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	c/	0.1	c/	-	-	0.1	-	-	2.0	9.0	0.8	11.8
1996	-	-	-	-	c/	c/	c/	-	-	c/	-	-	1.4	4.7	0.9	7.0
1997	-	-	-	-	0.1	0.1	-	-	-	0.2	-	-	4.5	1.4	-	5.8
1998	-	-	-	-	-	0.1	c/	-	-	0.1	-	-	-	2.0	0.2	2.2
1999	-	-	-	-	0.2	0.6	0.1	-	-	0.9	-	-	2.5	3.4	1.7	7.5
2000	-	-	-	-	0.4	0.3	-	-	-	0.8	-	-	6.8	7.0	-	13.7
2001	-	-	-	-	1.0	1.5	0.1	-	-	2.6	-	-	13.5	22.0	3.7	39.2
2002	-	-	c/	0.3	1.5	0.8	c/	c/	-	2.8	-	-	4.4	8.5	1.4	14.4
2003	-	-	-	c/	0.5	1.7	0.1	-	-	2.3	-	0.1	8.2	19.9	1.6	29.8
2004 ^{d/}	-	-	-	c/	0.3	1.4	0.4	-	-	2.2	-	0.4	6.6	13.6	1.9	22.5
<u>Tillamook Area</u>																
1976-1980 ^{b/}	-	-	0.1	0.2	0.4	0.7	0.1	c/	c/	1.4	0.3	3.2	6.3	11.4	1.0	22.3
1981-1985	-	-	c/	c/	0.8	0.6	0.1	c/	-	1.5	0.1	0.5	10.3	8.7	0.6	20.2
1986-1990	-	-	c/	0.1	0.4	0.8	0.4	e/	e/	1.8	c/	2.0	12.5	8.7	1.5	24.8
1991	-	-	c/	0.3	0.4	-	-	e/	-	0.7	c/	2.5	23.1	-	-	25.7
1992	-	-	0.1	0.3	0.6	0.3	0.2	e/	-	1.5	0.1	1.8	11.3	6.1	1.4	20.8
1993	-	-	0.1	c/	0.2	c/	-	e/	-	0.3	c/	c/	0.9	1.4	-	2.3
1994	-	-	0.1	0.1	-	-	-	2.2	-	2.4	-	-	-	-	-	-
1995	-	-	0.1	c/	-	-	0.1	0.3	0.1	0.5	-	-	-	-	c/	c/
1996	-	-	0.1	c/	c/	0.1	0.7	0.7	-	1.6	-	-	-	c/	c/	c/
1997	-	0.0	c/	c/	c/	c/	0.2	0.3	e/	0.5	-	-	c/	-	c/	c/
1998	-	0.0	0.1	c/	0.0	c/	0.5	0.5	e/	1.1	-	-	-	c/	c/	c/
1999	-	0.0	0.1	c/	0.2	c/	0.7	0.5	c/	1.6	-	-	1.0	c/	c/	1.0
2000	-	c/	c/	c/	c/	c/	0.5	0.4	0.1	1.2	-	-	1.9	c/	c/	1.9
2001	-	c/	0.1	0.2	0.7	0.2	0.8	0.4	c/	2.5	-	3.4	8.8	c/	c/	12.3
2002	-	c/	0.1	0.1	3.2	2.2	1.5	1.7	-	8.8	-	-	4.8	1.1	c/	5.9
2003	-	-	0.1	0.4	1.7	0.7	1.5	0.9	0.1	5.4	-	1.4	14.0	5.7	0.1	21.2
2004 ^{d/}	-	c/	c/	0.5	3.1	2.8	0.9	1.4	0.1	8.8	-	1.3	8.7	4.2	0.2	14.4

TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish by port area and month.^{a/} (Page 2 of 4)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	May	June	July	Aug.	Sept.	Season
CHINOOK (thousands)											COHO (thousands)					
<u>Newport Area</u>																
1976-1980 ^{b/}	-	-	0.1	0.5	0.8	0.8	0.2	c/	c/	2.5	1.3	12.7	25.3	22.8	1.8	64.0
1981-1985	-	-	c/	0.2	1.5	0.9	0.1	-	-	2.7	0.1	2.1	22.8	19.2	1.8	46.0
1986-1990	-	-	0.1	0.6	1.6	1.0	0.4	-	-	3.7	0.5	8.3	45.7	24.3	3.8	82.6
1991	-	-	0.1	0.4	0.4	-	-	-	-	0.9	0.1	15.2	65.8	-	-	81.1
1992	-	-	0.1	0.3	2.8	0.9	0.1	-	-	4.1	c/	9.7	34.7	16.9	2.2	63.5
1993	-	-	c/	0.0	0.3	0.1	-	-	-	0.4	c/	c/	9.4	7.0	-	16.4
1994	-	-	c/	0.0	-	-	-	-	-	c/	-	-	-	-	-	-
1995	-	-	c/	c/	-	-	c/	c/	-	0.1	-	-	-	-	c/	c/
1996	-	-	c/	c/	c/	0.4	0.1	-	-	0.6	-	-	-	c/	c/	c/
1997	-	0.0	c/	0.1	0.2	0.9	0.1	-	-	1.3	-	-	-	c/	-	c/
1998	-	0.0	c/	0.1	0.1	0.2	c/	-	-	0.4	-	-	c/	c/	-	c/
1999	-	0.0	c/	c/	0.3	c/	c/	c/	-	0.3	-	-	4.0	-	-	4.0
2000	-	0.0	c/	c/	0.8	0.5	0.3	c/	-	1.6	-	-	12.3	c/	c/	12.3
2001	-	c/	0.1	0.4	1.5	2.3	0.9	0.2	-	5.3	-	7.8	15.6	c/	c/	23.5
2002	-	c/	c/	0.2	3.2	1.0	1.2	0.8	-	6.5	-	-	9.8	0.9	c/	10.8
2003	e/	c/	0.1	0.9	6.9	3.0	1.1	0.3	-	12.4	-	2.7	21.4	14.4	-	38.5
2004 ^{d/}	e/	c/	0.1	0.6	6.9	8.2	1.5	0.5	-	17.8	-	2.7	14.0	6.6	0.2	23.5
<u>Coos Bay Area</u>																
1976-1980 ^{b/}	-	-	0.5	2.1	2.9	3.6	1.2	0.1	c/	10.3	7.5	31.0	44.6	20.7	2.8	106.9
1981-1985	-	-	c/	0.6	4.1	2.0	0.4	-	-	7.1	1.3	8.2	29.5	13.0	1.4	53.3
1986-1990	-	-	0.1	1.2	5.0	2.2	0.8	e/	e/	9.3	0.4	9.8	39.9	13.0	1.7	64.8
1991	-	-	c/	2.1	2.9	-	-	-	-	5.1	0.8	23.4	66.5	-	-	90.8
1992	-	-	0.1	2.0	1.0	0.3	0.4	e/	-	3.8	0.5	13.1	43.9	15.8	2.7	76.0
1993	-	-	0.1	c/	0.6	0.4	-	e/	e/	1.1	0.1	0.1	7.6	4.4	-	12.2
1994	-	-	c/	c/	-	-	-	e/	e/	c/	-	-	-	-	-	-
1995	-	-	c/	0.2	-	-	c/	c/	-	0.2	-	-	-	-	-	-
1996	-	-	c/	0.1	0.3	0.3	0.1	e/	e/	0.8	-	-	-	c/	c/	c/
1997	-	c/	c/	0.1	0.1	0.4	0.1	e/	e/	0.7	-	-	c/	c/	-	c/
1998	-	0.0	0.0	c/	c/	0.4	c/	e/	e/	0.5	-	-	-	0.1	-	0.1
1999	-	0.0	c/	0.2	0.9	0.4	c/	e/	e/	1.4	-	-	1.1	-	-	1.1
2000	-	c/	c/	c/	7.0	2.6	0.5	c/	e/	10.1	-	-	5.1	c/	-	5.1
2001	-	c/	0.1	1.4	5.5	2.2	0.3	c/	e/	9.5	c/	6.5	12.7	c/	c/	19.3
2002	-	0.1	0.2	4.8	10.2	2.8	1.2	0.1	e/	19.5	-	c/	5.0	0.1	c/	5.3
2003	c/	c/	0.1	1.6	6.5	5.4	1.4	c/	e/	15.0	-	3.5	15.4	5.2	c/	24.1
2004 ^{d/}	c/	c/	0.2	2.8	11.4	3.7	2.6	c/	e/	20.7	c/	0.9	8.3	0.8	0.1	10.1

TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish by port area and month.^{a/} (Page 3 of 4)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	May	June	July	Aug.	Sept.	Season
CHINOOK (thousands)											COHO (thousands)					
<u>Brookings Area</u>																
1976-1980 ^{b/}	-	-	0.1	1.0	2.8	3.4	0.6	0.7	0.1	8.6	0.4	10.6	15.4	5.3	0.5	32.5
1981-1985	-	-	0.7	1.3	9.2	4.2	0.6	0.5	c/	16.4	0.2	1.9	7.5	2.4	0.1	12.1
1986-1990	-	-	0.4	5.5	7.2	4.0	1.4	0.3	-	18.8	0.4	3.4	11.4	3.3	0.5	18.9
1991	-	-	c/	4.1	2.3	0.1	0.3	-	-	6.8	-	10.2	10.6	0.5	0.9	22.2
1992	-	-	-	-	1.5	-	0.4	0.7	-	2.7	-	-	2.9	-	0.4	3.3
1993	-	-	1.1	0.2	0.6	1.3	0.5	-	-	3.8	0.1	0.1	1.9	3.4	0.5	6.0
1994	-	-	1.9	0.1	-	0.3	0.3	1.1	-	3.6	-	-	-	c/	c/	c/
1995	-	-	0.2	1.6	-	0.5	2.6	0.8	-	5.7	-	c/	-	c/	0.1	0.1
1996	-	-	0.5	2.7	0.3	2.8	0.6	1.3	-	8.2	-	c/	c/	c/	c/	0.1
1997	-	-	0.8	0.8	1.0	1.6	0.1	0.7	-	5.1	c/	c/	c/	c/	c/	0.1
1998	-	-	0.2	0.3	0.3	0.4	0.2	0.4	-	2.0	-	c/	c/	c/	-	c/
1999	-	-	c/	c/	0.9	1.7	0.5	0.3	-	3.5	-	c/	c/	c/	c/	c/
2000	-	-	c/	0.4	2.1	8.0	0.5	0.8	-	11.8	-	-	c/	c/	-	c/
2001	-	0.0	0.8	1.0	1.2	3.0	0.3	0.9	-	7.2	-	c/	c/	c/	-	c/
2002	-	0.0	0.5	2.5	c/	2.7	3.9	0.3	-	9.9	-	c/	c/	c/	c/	0.1
2003	-	-	0.4	0.3	1.2	1.4	1.6	0.6	-	5.4	-	c/	c/	c/	c/	0.1
2004 ^{d/}	-	-	0.5	2.3	1.5	1.6	0.6	0.2	-	6.8	c/	0.4	0.7	0.2	c/	1.3
<u>South of Cape Falcon</u>																
1976-1980 ^{b/}	-	-	0.8	3.8	6.9	8.4	2.0	0.8	0.1	22.8	9.5	57.5	91.6	60.1	6.1	225.7
1981-1985	-	-	0.7	2.1	15.5	7.7	1.2	0.5	c/	27.7	1.6	12.7	70.2	43.3	3.9	131.6
1986-1990	-	-	0.5	7.3	14.2	8.1	3.0	0.3	e/	33.6	1.2	23.5	109.5	49.3	7.5	191.1
1991	-	-	0.2	6.9	6.0	0.1	0.3	e/	-	13.4	0.9	51.4	166.0	0.5	0.9	219.7
1992	-	-	0.2	2.5	5.9	1.5	1.2	0.7	-	12.1	0.6	24.7	92.7	38.7	6.8	163.6
1993	-	-	1.3	0.2	1.7	1.9	0.5	e/	e/	5.6	0.2	0.2	19.9	16.2	0.5	36.9
1994	-	-	1.9	0.3	-	0.3	0.3	3.3	e/	6.0	-	-	-	c/	c/	c/
1995	-	-	0.3	1.8	-	0.5	2.8	1.1	0.1	6.6	-	c/	-	c/	0.1	0.1
1996	-	-	0.7	2.9	0.6	3.5	1.4	2.0	e/	11.2	-	c/	c/	0.1	c/	0.2
1997	-	-	c/	0.9	0.9	1.5	2.8	0.5	1.0	7.5	c/	c/	c/	0.1	c/	0.2
1998	-	0.0	0.3	0.4	0.5	1.0	0.8	0.9	e/	4.0	-	c/	c/	0.1	c/	0.1
1999	-	0.0	0.1	0.3	2.2	2.1	1.2	0.9	0.1	6.8	-	c/	6.0	c/	c/	6.1
2000	-	c/	0.1	0.5	10.0	11.0	1.8	1.2	0.1	24.7	-	-	19.3	0.1	c/	19.5
2001	-	c/	1.0	3.0	9.0	7.7	2.3	1.5	c/	24.6	/c	17.7	37.1	0.2	c/	55.2
2002	-	0.2	0.8	7.7	16.6	8.6	7.8	2.9	-	44.7	-	0.1	19.7	2.2	0.1	22.1
2003	c/	c/	0.7	3.3	16.3	10.6	5.5	1.8	0.1	38.3	c/	7.6	50.9	25.3	0.1	83.9
2004 ^{d/}	c/	c/	0.8	6.2	23.0	16.3	5.6	2.1	0.1	54.2	c/	5.3	31.6	11.9	0.5	49.3

TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish by port area and month.^{a/} (Page 4 of 4)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	May	June	July	Aug.	Sept.	Season
CHINOOK (thousands)											COHO (thousands)					
Total All Areas																
1976-1980 ^{h/}	-	-	1.1	7.0	11.0	16.4	3.5	0.9	0.1	40.0	10.4	70.4	112.3	81.8	13.2	289.2
1981-1985	-	-	0.7	2.8	17.9	9.6	1.5	0.5	c/	33.1	1.9	16.2	86.6	54.5	6.1	165.4
1986-1990	-	-	0.5	7.4	15.2	9.2	3.1	0.3		35.8	1.2	25.7	125.5	59.8	7.7	220.0
1991	-	-	0.2	7.0	6.3	0.6	0.3	e/	-	14.4	0.9	53.8	182.4	17.7	4.3	259.1
1992	-	-	0.2	2.5	6.2	1.7	1.2	0.7	-	12.6	0.6	24.7	110.6	41.7	8.2	185.8
1993	-	-	1.3	0.2	1.9	2.3	0.7	e/	e/	6.4	0.2	0.2	27.0	26.5	4.3	58.1
1994	-	-	1.9	0.3	-	0.3	0.3	3.3	e/	6.0	-	-	-	c/	c/	c/
1995	-	-	0.3	1.8	c/	0.6	2.8	1.1	0.1	6.7	-	c/	2.0	9.0	0.9	11.9
1996	-	-	0.7	2.9	0.6	3.5	1.5	2.0	-	11.2	-	c/	1.5	4.7	1.0	7.2
1997	-	c/	0.9	0.9	1.4	3.0	0.5	1.0	e/	7.7	c/	c/	4.5	1.4	c/	6.0
1998	-	0.0	0.3	0.4	0.5	1.1	0.8	0.9	e/	4.1	-	c/	c/	2.1	0.2	2.3
1999	-	0.0	0.1	0.3	2.4	2.7	1.3	0.9	c/	7.7	-	c/	8.5	3.4	1.7	13.6
2000	-	c/	0.1	0.5	10.5	11.4	1.8	1.2	0.1	25.5	-	-	26.1	7.1	c/	33.2
2001	-	c/	1.0	3.0	10.0	9.2	2.4	1.5	c/	27.2	c/	17.7	50.6	22.2	3.7	94.3
2002	-	0.2	0.9	8.0	18.2	9.5	7.8	2.9	-	47.5	-	0.1	24.1	10.7	1.6	36.5
2003	c/	c/	0.7	3.3	16.9	12.2	5.7	1.8	0.1	40.7	c/	7.6	59.1	45.2	1.7	113.7
2004 ^{d/}	c/	c/	0.8	6.3	23.3	17.7	6.0	2.1	0.1	56.4	c/	5.7	38.2	25.5	2.5	71.8

- a/ Monthly totals are the sum of statistical weeks with closest fit to the calendar month and may include illegal catch. The 1976-1980 catch is from combined salmon/steelhead punch card and sampled port data. Since 1981, data are from sampled ports only. Columbia River area includes Astoria, Warrenton, and Hammond; Tillamook area includes Garibaldi and Pacific City; Newport area includes Depoe Bay and Newport; Coos Bay area includes Florence, Winchester Bay, and Coos Bay; Brookings area includes Gold Beach and Brookings.
- b/ The 1976-1980 average includes fewer than 300 coho during Oct. and Nov.
- c/ Fewer than 50 fish.
- d/ Preliminary.
- e/ Estimates not available due to very low, sporadic effort and catch.
- f/ The 1976-1980 average includes fewer than 600 coho during Oct. and Nov.
- g/ The 1976-1980 average includes fewer than 900 coho during Oct. and Nov.
- h/ The 1976-1980 average includes fewer than 1,100 coho during Oct. and Nov.

TABLE A-11. Summary of **Washington non-Indian, commercial troll** salmon fishing effort in days fished and **landings** in numbers of fish by catch area. (Page 1 of 2)

Year or Average	Columbia		La Push	Neah Bay ^{a/}	Washington	Oregon	California	Alaska	Total
	River	Westport			Subtotal				
DAYS FISHED (thousands)									
1976-1980	9.007	15.023	9.446	9.707	43.184	0.664	0.042	0.970	44.860
1981-1985	1.961	5.194	1.553	3.112	11.819	0.244	0.018	0.025	12.107
1986-1990	0.871	2.619	0.300	0.928	4.718	0.100	0.000	0.003	4.822
1991	0.645	1.759	0.174	2.294	4.872	0.085	0.000	0.033	4.990
1992	0.272	2.570	0.488	1.519	4.849	0.005	0.000	0.010	4.864
1993	0.088	1.909	0.240	1.470	3.707	0.033	0.000	0.000	3.740
1994	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.000	0.030
1995	0.000	0.000	0.070	0.401	0.471	0.022	0.000	0.000	0.493
1996	0.000	0.134	0.018	0.256	0.408	0.067	0.000	0.000	0.475
1997	0.000	0.102	0.120	0.230	0.452	0.046	0.000	0.000	0.498
1998	0.000	0.006	0.038	0.095	0.139	0.000	0.000	0.000	0.139
1999	0.001	0.320	0.037	0.372	0.730	0.006	0.000	0.000	0.736
2000	0.059	0.074	0.064	0.224	0.421	0.030	0.000	0.000	0.451
2001	0.076	0.427	0.047	0.214	0.764	0.174	0.000	0.000	0.938
2002	0.065	0.782	0.094	0.397	1.338	0.272	0.000	0.000	1.610
2003	0.114	0.603	0.313	0.668	1.698	0.188	0.000	0.000	1.886
2004 ^{b/}	0.052	0.575	0.246	0.508	1.381	0.092	0.000	0.000	1.473
CHINOOK (thousands)									
1976-1980	23.517	81.083	44.971	33.932	183.503	4.878	0.648	12.666	201.695
1981-1985	9.172	34.995	7.061	10.074	61.303	0.901	0.184	0.203	62.591
1986-1990	5.089	27.283	4.251	9.601	46.224	1.431	0.000	0.001	47.657
1991	1.372	11.271	0.928	15.238	28.809	0.341	0.000	0.000	29.150
1992	2.730	18.278	5.544	17.076	43.628	0.068	0.000	0.000	43.696
1993	0.056	12.171	1.835	16.010	30.072	0.255	0.000	0.000	30.327
1994	0.000	0.000	0.000	0.000	0.000	0.785	0.000	0.000	0.785
1995	0.000	0.000	0.000	0.003	0.003	1.826	0.000	0.000	1.829
1996	0.000	0.000	0.000	0.000	0.000	1.490	0.000	0.000	1.490
1997	0.000	0.339	2.294	3.785	6.418	1.362	0.000	0.000	7.780
1998	0.000	0.079	1.690	4.160	5.929	0.000	0.000	0.000	5.929
1999	0.000	4.144	0.614	12.698	17.456	0.172	0.000	0.000	17.628
2000	0.553	0.755	1.413	7.548	10.269	1.035	0.000	0.000	11.304
2001	0.944	12.808	1.224	6.253	21.229	6.309	0.000	0.000	27.538
2002	1.756	30.329	3.026	18.708	53.819	7.701	0.000	0.000	61.520
2003	1.920	16.773	6.995	30.514	56.202	4.599	0.000	0.000	60.801
2004 ^{b/}	0.358	11.088	4.842	19.084	35.372	1.897	0.000	0.000	37.269

TABLE A-11. Summary of **Washington non-Indian, commercial troll** salmon fishing effort in days fished and **landings** in numbers of fish by catch area. (Page 2 of 2)

Year or Average	Columbia		La Push	Neah Bay ^{a/}	Washington	Oregon	California	Alaska	Total
	River	Westport			Subtotal				
COHO (thousands)									
1976-1980	136.924	207.455	203.328	155.834	703.541	21.460	1.595	15.218	741.814
1981-1985	32.087	50.907	27.216	42.272	152.482	8.260	0.033	0.876	161.651
1986-1990	19.011	12.492	3.311	19.563	54.379	1.501	0.000	0.103	55.983
1991	16.248	12.393	1.405	24.124 ^{c/}	54.170	2.877	0.000	2.162	59.209
1992	1.084	5.153	3.778	7.664	17.679	0.057	0.000	0.299	18.035
1993	0.538	8.521	1.701	3.163	13.923	0.005	0.000	0.000	13.928
1994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	4.621	20.805	25.426	0.000	0.000	0.000	25.426
1996	0.000	3.985	0.409	13.077	17.471	0.000	0.000	0.000	17.471
1997	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	0.027	0.618	1.257	1.913	3.815	0.000	0.000	0.000	3.815
2000	2.799	2.468	0.000	0.000	5.267	0.000	0.000	0.000	5.267
2001	1.458	5.957	0.417	0.280	8.112	0.091	0.000	0.000	8.203
2002	0.127	0.053	0.000	0.000	0.180	0.000	0.000	0.000	0.180
2003	1.290	3.200	2.784	1.683	8.957	0.007	0.000	0.000	8.964
2004 ^{b/}	1.130	6.365	3.175	2.623	13.293	0.006	0.000	0.000	13.299
PINK (thousands)^{d/}									
1976-1980 ^{a/}	3.598	27.218	143.276	238.787	412.878	1.829	0.000	2.380	417.087
1981-1985 ^{a/}	1.272	7.589	22.914	107.620	139.394	0.342	0.001	0.263	140.000
1986-1990 ^{a/}	0.044	0.412	0.364	18.894	19.714	0.019	0.000	0.000	19.733
1991	0.059	0.007	2.574	40.943	43.583	0.027	0.000	0.000	43.610
1993	0.000	0.015	0.030	2.816	2.861	0.000	0.000	0.000	2.861
1995	0.000	0.000	2.715	28.217	30.932	0.000	0.000	0.000	30.932
1997	0.000	0.001	0.000	0.004	0.005	0.000	0.000	0.000	0.005
1999	0.000	0.002	0.013	0.038	0.053	0.000	0.000	0.000	0.053
2001	0.002	0.014	0.000	0.016	0.032	0.000	0.000	0.000	0.032
2003	0.036	0.037	0.108	0.070	0.251	0.000	0.000	0.000	0.251

a/ Cape Flattery data include effort and landings from Cape Flattery Subarea 4B.

b/ Preliminary.

c/ Includes 100 coho landed in illegal fishing.

d/ Landings seen in odd years only.

e/ Odd-year average.

TABLE A-12. **Washington non-Indian troll salmon fishing effort** in days fished by area and month. ^{a/} (Page 1 of 2)

Year or Average	May	June	July	Aug.	Sept. ^{b/}	Total
DAYS FISHED (thousands)						
<u>Neah Bay^{d/}</u>						
1976-1980	0.656	0.402	3.064	4.198	1.387	9.707
1981-1985	0.416	0.032	1.329	1.327	0.008	3.112
1986-1990	0.384	0.106	0.066	0.371	0.000	0.928
1991	0.786	0.342	0.001	0.958	0.207	2.294
1992	0.569	0.486	0.290	0.174	0.000	1.519
1993	0.602	0.420	0.302	0.144	0.002	1.470
1994	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.345	0.056	0.401
1996	0.000	0.000	0.108	0.147	0.000	0.255
1997	0.168	0.062	0.000	0.000	0.000	0.230
1998	0.087	0.008	0.000	0.000	0.000	0.095
1999	0.154	0.105	0.084	0.029	0.000	0.372
2000	0.149	0.075	0.000	0.000	0.000	0.224
2001	0.084	0.081	0.049	0.000	0.000	0.214
2002	0.097	0.081	0.139	0.800	0.000	0.397
2003	0.280	0.092	0.150	0.132	0.014	0.668
2004 ^{d/}	0.198	0.001	0.160	0.116	0.033	0.508
<u>La Push</u>						
1976-1980	0.570	0.541	3.812	3.609	0.914	9.446
1981-1985	0.175	0.015	0.959	0.404	0.000	1.553
1986-1990	0.148	0.065	0.019	0.062	0.003	0.300
1991	0.070	0.039	0.000	0.052	0.013	0.174
1992	0.103	0.170	0.133	0.082	0.000	0.488
1993	0.049	0.047	0.121	0.023	0.000	0.240
1994	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.052	0.018	0.070
1996	0.000	0.000	0.011	0.007	0.000	0.018
1997	0.054	0.066	0.000	0.000	0.000	0.120
1998	0.034	0.004	0.000	0.000	0.000	0.038
1999	0.011	0.000	0.012	0.009	0.005	0.037
2000	0.044	0.020	0.000	0.000	0.000	0.064
2001	0.029	0.004	0.006	0.008	0.000	0.047
2002	0.000	0.003	0.530	0.380	0.000	0.094
2003	0.042	0.024	0.148	0.091	0.008	0.313
2004 ^{d/}	0.017	0.004	0.105	0.099	0.021	0.246
<u>Westport</u>						
1976-1980	2.255	1.320	5.000	4.231	2.218	15.023
1981-1985	2.109	0.200	2.232	0.652	0.000	5.194
1986-1990	1.722	0.491	0.176	0.229	0.000	2.619
1991	0.755	0.603	0.000	0.171	0.230	1.759
1992	1.216	0.583	0.429	0.342	0.000	2.570
1993	0.585	0.470	0.274	0.193	0.387	1.909
1994	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.000	0.000	0.000
1996	0.000	0.000	0.062	0.077	0.000	0.139
1997	0.072	0.030	0.000	0.000	0.000	0.102
1998	0.006	0.000	0.000	0.000	0.000	0.006
1999	0.106	0.126	0.039	0.048	0.001	0.320
2000	0.000	0.000	0.000	0.071	0.003	0.074
2001	0.096	0.127	0.104	0.062	0.038	0.427
2002	0.331	0.099	0.228	0.124	0.000	0.782
2003	0.099	0.079	0.178	0.192	0.055	0.603
2004 ^{d/}	0.245	0.005	0.127	0.127	0.071	0.575

TABLE A-12. **Washington non-Indian troll** salmon fishing effort in days fished by area and month.^{a/} (Page 2 of 2)

Year or Average	May	June	July	Aug.	Sept. ^{b/}	Total
DAYS FISHED (thousands)						
<u>Ilwaco</u>						
1976-1980	0.695	0.538	3.199	2.907	1.668	9.007
1981-1985	0.566	0.058	0.655	0.553	0.129	1.961
1986-1990	0.196	0.036	0.120	0.286	0.231	0.871
1991	0.135	0.016	0.000	0.438	0.056	0.645
1992	0.146	0.010	0.083	0.033	0.000	0.272
1993	0.003	0.002	0.043	0.009	0.031	0.088
1994	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.000	0.000	0.000
1996	0.000	0.000	0.000	0.000	0.000	0.000
1997	0.000	0.000	0.000	0.000	0.000	0.000
1998	0.000	0.000	0.000	0.000	0.000	0.000
1999	0.000	0.000	0.000	0.001	0.000	0.001
2000	0.000	0.000	0.000	0.048	0.011	0.059
2001	0.024	0.001	0.013	0.026	0.012	0.076
2002	0.016	0.001	0.026	0.022	0.000	0.065
2003	0.018	0.004	0.041	0.032	0.019	0.114
2004 ^{d/}	0.003	0.003	0.016	0.018	0.012	0.052
<u>Statewide Total</u>						
1976-1980	4.177	2.800	15.075	14.944	6.187	43.183
1981-1985	3.266	0.307	5.175	2.943	0.137	11.819
1986-1990	2.452	0.700	0.382	0.949	0.235	4.718
1991	1.746	1.000	0.001	1.619	0.506	4.872
1992	2.034	1.249	0.935	0.631	0.000	4.849
1993	1.239	0.939	0.740	0.369	0.420	3.707
1994	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.397	0.074	0.471
1996	0.000	0.000	0.181	0.231	0.000	0.412
1997	0.294	0.158	0.000	0.000	0.000	0.452
1998	0.127	0.012	0.000	0.000	0.000	0.139
1999	0.271	0.231	0.135	0.087	0.006	0.730
2000	0.193	0.095	0.000	0.119	0.014	0.421
2001	0.233	0.213	0.172	0.096	0.050	0.764
2002	0.444	0.184	0.446	0.264	0.000	1.338
2003	0.439	0.199	0.517	0.447	0.096	1.698
2004 ^{d/}	0.463	0.013	0.408	0.360	0.137	1.381

a/ Summary of Washington Department of Fish and Wildlife fish receiving ticket information by statistical month, excluding Washington landings from Oregon, California, and Alaska.

b/ Data for September includes any effort after September.

c/ Neah Bay area includes effort and catches from Strait of Juan de Fuca Area 4B.

d/ Preliminary.

TABLE A-13. Washington non-Indian troll chinook, coho, and pink salmon landings in numbers of fish by catch area and month.^{a/} (Page 1 of 3)

Year or Average	May	June	July	Aug.	Sept. ^{b/}	Total	May	June	July	Aug.	Sept. ^{b/}	Total	May	June	July	Aug.	Sept. ^{b/}	Total
	CHINOOK (thousands)						COHO (thousands)						PINKS (thousands in odd years)					
<u>Neah Bay^{c/}</u>																		
1976-1980	6.781	3.805	12.440	8.782	2.124	33.932	0.000	3.850	66.954	58.596	26.434	155.834	0.044	0.235	42.002	192.16	4.336	238.786
1981-1985	3.293	0.319	5.031	1.423	0.008	10.074	0.000	0.000	26.379	15.852	0.041	42.272	0.113	0.013	12.112	95.105	0.277	107.620
1986-1990 ^{d/}	6.525	2.508	0.084	0.480	0.003	9.600	0.000	0.000	1.471	18.088	0.000	19.563	0.000	0.000	0.391	18.503	0.000	18.893
1991 ^{e/}	8.814	5.470	0.009	0.579	0.366	15.238	0.000	0.000	0.103	18.647	5.374	24.124	0.003	0.016	0.006	40.636	0.282	40.943
1992	9.073	6.191	0.979	0.833	0.000	17.076	0.000	0.000	4.571	3.093	0.000	7.664						
1993	8.566	5.366	1.797	0.281	0.000	16.010	0.000	0.000	2.184	0.979	0.000	3.163	0.014	0.001	0.064	2.726	0.011	2.816
1994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000						
1995	0.000	0.000	0.000	0.003	0.000	0.003	0.000	0.000	0.000	15.593	5.212	20.805	0.000	0.000	0.000	27.429	0.788	28.217
1996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.516	7.526	0.000	13.042						
1997	3.236	0.549	0.000	0.000	0.000	3.785	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.000	0.004
1998	4.043	0.117	0.000	0.000	0.000	4.160	0.000	0.000	0.000	0.000	0.000	0.000						
1999	2.808	4.938	3.428	1.524	0.000	12.698	0.000	0.000	0.477	1.436	0.000	1.913	0.000	0.000	0.030	0.008	0.000	0.038
2000	5.462	2.086	0.000	0.000	0.000	7.548	0.000	0.000	0.000	0.000	0.000	0.000						
2001	2.072	2.284	1.897	0.000	0.000	6.253	0.000	0.000	0.280	0.000	0.000	0.280	0.001	0.008	0.007	0.000	0.000	0.016
2002	5.626	4.680	5.589	2.813	0.000	18.708	0.000	0.000	0.000	0.000	0.000	0.000						
2003	13.364	4.385	6.554	5.848	0.363	30.514	0.000	0.000	0.706	0.866	0.111	1.683	0.000	0.000	0.047	0.023	0.000	0.070
2004 ^{f/}	7.120	0.510	4.680	5.720	1.030	19.000	0.000	0.000	0.647	1.740	0.231	2.623						
<u>La Push</u>																		
1976-1980	6.487	5.777	19.674	10.996	2.038	44.971	0.003	9.374	112.618	63.373	17.961	203.328	0.280	0.432	39.294	102.97	0.292	143.276
1981-1985	1.879	0.154	3.977	1.050	0.000	7.061	0.000	0.000	23.686	3.530	0.000	27.216	0.039	0.000	7.150	15.723	0.002	22.914
1986-1990	2.580	1.344	0.058	0.265	0.002	4.251	0.000	0.000	0.483	2.824	0.000	3.311	0.000	0.000	0.000	0.364	0.000	0.000
1991	0.414	0.399	0.000	0.104	0.011	0.928	0.000	0.000	0.000	1.154	0.251	1.405	0.000	0.000	0.000	2.566	0.008	2.574
1992	1.543	2.027	1.136	0.838	0.000	5.544	0.000	0.000	2.202	1.576	0.000	3.778						
1993	0.805	0.635	0.332	0.063	0.000	1.835	0.000	0.000	1.344	0.357	0.000	1.701	0.000	0.000	0.020	0.010	0.000	0.030
1994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000						
1995	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.773	1.848	4.621	0.000	0.000	0.000	2.631	0.084	2.715
1996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.245	0.164	0.000	0.409						
1997	1.037	1.257	0.000	0.000	0.000	2.294	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	1.625	0.065	0.000	0.000	0.000	1.690	0.000	0.000	0.000	0.000	0.000	0.000						
1999	0.128	0.000	0.336	0.150	0.000	0.614	0.000	0.000	0.035	0.894	0.328	1.257	0.000	0.000	0.000	0.013	0.000	0.013
2000	1.072	0.341	0.000	0.000	0.000	1.413	0.000	0.000	0.000	0.000	0.000	0.000						
2001	0.843	0.106	0.180	0.095	0.000	1.224	0.000	0.000	0.165	0.252	0.000	0.417	0.000	0.000	0.000	0.000	0.000	0.000
2002	0.000	0.072	1.803	1.151	0.000	3.026	0.000	0.000	0.000	0.000	0.000	0.000						
2003	0.964	0.787	3.564	1.631	0.049	6.995	0.000	0.000	1.752	0.928	0.104	2.784	0.000	0.000	0.063	0.035	0.010	0.108
2004 ^{f/}	0.237	0.273	1.970	2.050	0.302	4.840	0.000	0.000	1.059	1.847	0.269	3.170						

TABLE A-13. Washington non-Indian troll chinook, coho, and pink salmon landings in numbers of fish by catch area and month.^{a/} (Page 2 of 3)

Year or Average	May	June	July	Aug.	Sept. ^{b/}	Total	May	June	July	Aug.	Sept. ^{b/}	Total	May	June	July	Aug.	Sept. ^{b/}	Total
	CHINOOK (thousands)						COHO (thousands)						PINKS (thousands in odd years)					
Westport																		
1976-1980	28.493	15.087	18.923	13.306	5.274	81.083	0.020	13.962	123.241	52.640	17.592	207.455	0.239	0.053	13.298	13.510	0.118	27.217
1981-1985	20.022	2.280	10.497	2.196	0.000	34.995	0.000	0.000	44.294	6.613	0.000	50.907	0.078	0.020	4.976	2.515	0.000	7.589
1986-1990	17.976	5.182	3.537	0.586	0.003	27.283	0.000	0.000	7.086	5.406	0.000	12.492	0.114	0.090	0.195	0.011	0.000	0.412
1991	4.414	6.483	0.000	0.160	0.214	11.271	0.000	0.000	0.000	5.526	6.867	12.393	0.001	0.001	0.000	0.000	0.005	0.007
1992	8.961	4.375	3.130	1.812	0.000	18.278	0.000	0.000	2.716	2.437	0.000	5.153						
1993	4.980	4.622	0.483	0.602	1.484	12.171	0.000	0.000	1.220	2.128	5.173	8.521	0.002	0.000	0.004	0.006	0.003	0.015
1994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000						
1995	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.376	2.699	0.000	4.075						
1997	0.241	0.098	0.000	0.000	0.000	0.339	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001
1998	0.079	0.000	0.000	0.000	0.000	0.079	0.000	0.000	0.000	0.000	0.000	0.000						
1999	1.255	2.137	0.266	0.486	0.000	4.144	0.000	0.000	0.161	0.448	0.009	0.618	0.000	0.001	0.001	0.000	0.000	0.002
2000	0.000	0.000	0.000	0.752	0.003	0.755	0.000	0.000	0.000	2.419	0.049	2.468						
2001	4.177	4.798	2.863	0.751	0.219	12.808	0.000	0.000	1.524	1.818	2.615	5.957	0.000	0.001	0.013	0.000	0.000	0.014
2002 ^{g/}	12.384	6.249	7.879	3.817	0.000	30.329	0.000	0.000	0.002	0.051	0.000	0.053						
2003	3.592	3.636	4.254	4.577	0.714	16.773	0.000	0.000	0.821	1.961	0.418	3.200	0.000	0.000	0.032	0.005	0.000	0.037
2004 ^{f/}	7.880	0.374	1.230	1.100	0.491	11.000	0.000	0.000	0.336	1.060	4.969	6.360						
Ilwaco																		
1976-1980	7.990	5.095	3.933	3.312	3.187	23.517	0.002	18.977	71.700	28.995	17.249	136.924	0.005	0.005	1.817	1.348	0.423	3.598
1981-1985	6.464	0.758	1.385	0.482	0.084	9.172	0.000	0.000	17.880	11.159	3.048	32.087	0.004	0.000	0.621	0.647	0.001	1.272
1986-1990	2.998	0.540	0.331	0.844	0.375	5.089	0.000	0.000	4.601	9.199	5.210	19.011	0.000	0.000	0.040	0.000	0.000	0.044
1991	0.848	0.066	0.000	0.447	0.011	1.372	0.000	0.000	0.000	14.595	1.653	16.248	0.000	0.000	0.000	0.059	0.000	0.059
1992	2.584	0.038	0.093	0.015	0.000	2.730	0.000	0.000	0.783	0.301	0.000	1.084						
1993	0.008	0.003	0.020	0.007	0.018	0.056	0.000	0.000	0.170	0.161	0.207	0.538	0.000	0.000	0.000	0.000	0.000	0.000
1994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000						
1995	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000						
1997	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000						
1999	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.000	0.027	0.000	0.000	0.000	0.000	0.000	0.000
2000	0.000	0.000	0.000	0.513	0.040	0.553	0.000	0.000	0.000	2.414	0.385	2.799						
2001	0.518	0.009	0.111	0.148	0.158	0.944	0.000	0.000	0.351	0.594	0.513	1.458	0.000	0.000	0.000	0.002	0.000	0.002
2002	0.371	0.048	0.855	0.482	0.000	1.756	0.000	0.000	0.000	0.127	0.000	0.127						
2003	0.790	0.110	0.486	0.383	0.151	1.920	0.000	0.000	0.417	0.512	0.361	1.290	0.000	0.000	0.034	0.002	0.000	0.036
2004 ^{f/}	0.056	0.077	0.072	0.099	0.054	0.358	0.000	0.000	0.188	0.309	0.633	1.130						

TABLE A-13. **Washington non-Indian troll** chinook, coho, and pink salmon **landings** in numbers of fish by catch area and month.^{a/} (Page 3 of 3)

Year or Average	May	June	July	Aug.	Sept. ^{b/}	Total	May	June	July	Aug.	Sept. ^{b/}	Total	May	June	July	Aug.	Sept. ^{b/}	Total
	CHINOOK (thousands)						COHO (thousands)						PINKS (thousands in odd years)					
Statewide Total																		
1976-1980	49.751	29.764	54.970	36.395	12.624	183.504	0.026	46.163	374.513	203.604	79.236	703.541	0.568	0.726	96.412	310.00	5.169	412.878
1981-1985	31.659	3.511	20.890	5.151	0.091	61.303	0.000	0.000	112.240	37.153	3.089	152.482	0.234	0.033	24.858	113.99	0.279	139.394
1986-1990	30.079	9.575	4.011	2.176	0.382	46.224	0.000	0.000	13.643	35.519	5.217	54.379	0.114	0.090	0.993	18.515	0.000	19.714
1991 ^{e/}	14.490	12.418	0.009	1.290	0.602	28.809	0.000	0.000	0.103	39.922	14.145	54.170	0.004	0.017	0.006	43.261	0.295	43.583
1992	22.161	12.631	5.338	3.498	0.000	43.628	0.000	0.000	10.272	7.407	0.000	17.679						
1993	14.359	10.626	2.632	0.953	1.502	30.072	0.000	0.000	4.918	3.625	5.380	13.923	0.016	0.001	0.088	2.742	0.014	2.861
1994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000						
1995	0.000	0.000	0.000	0.003	0.000	0.003	0.000	0.000	0.000	18.366	7.060	25.426	0.000	0.000	0.000	30.060	0.872	30.932
1996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.137	10.389	0.000	17.526						
1997	4.514	1.904	0.000	0.000	0.000	6.418	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.003	0.000	0.000	0.000	0.005
1998	5.747	0.182	0.000	0.000	0.000	5.929	0.000	0.000	0.000	0.000	0.000	0.000						
1999	4.191	7.075	4.030	2.160	0.000	17.456	0.000	0.000	0.673	2.805	0.337	3.815	0.000	0.001	0.031	0.021	0.000	0.053
2000	6.534	2.427	0.000	1.265	0.043	10.269	0.000	0.000	0.000	4.833	0.434	5.267						
2001	7.610	7.197	5.051	0.994	0.377	21.229	0.000	0.000	2.320	2.664	3.128	8.112	0.001	0.009	0.020	0.002	0.000	0.032
2002	18.381	11.049	16.126	8.263	0.000	53.819	0.000	0.000	0.002	0.178	0.000	0.180						
2003	18.710	8.918	14.858	12.439	1.227	56.202	0.000	0.000	3.696	4.267	0.994	8.957	0.000	0.000	0.176	0.065	0.010	0.251
2004 ^{f/}	15.300	1.230	7.960	8.980	1.880	35.300	0.000	0.000	2.230	4.961	6.102	13.200						

a/ Summary of Washington Department of Fish and Wildlife fish receiving ticket information by statistical month excluding Washington landings from Oregon, California, and Alaska.

b/ Data for September include any catch after September.

c/ Cape Flattery area includes effort and catches from Strait of Juan de Fuca Area 4B.

d/ Includes 2,200 coho and 300 chinook landed illegally in 1988.

e/ Includes 100 coho landed illegally.

f/ Preliminary.

g/ All coho landed illegally.

TABLE A-14. Treaty Indian commercial troll salmon fishing effort (in deliveries) by catch area and statistical month. (Page 1 of 2)

Year or Avg.	Jan.- Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. -Dec.	Total May-Sept.	Year Total
DELIVERIES										
<u>Area 4B</u>										
1976-1980	619	54	61	40	61	26	5	92	243	958
1981-1985	1,056	155	65	59	62	16	24	117	357	1,554
1986-1990	585	311	217	97	183	20	1	134	827	1,547
1991	501	116	87	43	188	0	91	79	434	1,105
1992	386	60	230	31	98	0	0	192	419	997
1993	572	77	187	72	62	17	0	59	415	1,046
1994	115	40	49	0	0	0	0	7	89	211
1995	81	16	0	0	64	0	0	67	80	228
1996	204	36	84	2	23	11	0	7	156	367
1997	31	39	40	0	48	7	0	3	134	168
1998	17	13	3	0	21	6	0	4	43	64
1999	16	27	22	0	25	1	0	1	75	92
2000	9	32	41	0	8	0	0	1	81	91
2001	0	68	98	46	60	11	0	0	283	283
2002 ^{al}	69	25	29	6	0	0	0	0	60	129
2003 ^{al}	30	3	2	1	0	3	0	2	9	41
2004 ^{al}	113	0	8	32	108	11	0	374	159	646
<u>Neah Bay</u>										
1976-1980	2	21	61	78	62	17	2	2	239	245
1981-1985	0	16	99	182	305	217	4	0	819	824
1986-1990	1	99	132	266	242	70	0	0	809	810
1991	0	188	265	244	135	0	0	0	832	832
1992	0	202	153	139	72	0	0	4	566	570
1993	0	266	212	216	183	201	0	0	1,078	1,078
1994	0	12	80	1	0	0	0	0	93	93
1995	0	21	0	1	145	0	0	0	167	167
1996	1	28	19	0	45	85	0	0	177	178
1997	0	11	88	0	77	30	0	0	206	206
1998	0	47	17	2	22	32	0	3	120	123
1999	0	49	65	6	72	105	0	0	297	297
2000	0	38	65	0	39	0	0	0	142	142
2001	0	19	82	58	105	74	0	0	338	338
2002 ^{al}	0	32	73	66	51	47	0	0	269	269
2003 ^{al}	1	44	89	87	40	27	0	0	287	288
2004 ^{al}	1	49	96	140	197	51	0	0	533	534
<u>La Push</u>										
1976-1980	0	9	21	31	25	6	0	0	91	91
1981-1985	0	9	17	46	45	16	0	0	132	132
1986-1990	0	26	31	72	96	20	0	0	246	246
1991	0	15	15	39	127	0	0	0	196	196
1992	0	0	3	59	63	0	0	0	125	125
1993	0	1	2	28	55	19	0	0	105	105
1994	0	3	17	1	0	0	0	0	21	21
1995	0	0	0	0	7	0	0	0	7	7
1996	0	0	0	0	3	6	0	0	9	9
1997	0	0	0	0	0	0	0	0	0	0
1998	0	0	1	0	4	0	0	0	5	5
1999	0	0	2	0	3	0	0	0	5	5
2000	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0
2002 ^{al}	0	0	0	0	1	0	0	0	1	1
2003 ^{al}	0	0	1	0	0	0	0	0	1	1
2004 ^{al}	0	0	0	0	0	0	0	0	0	0

TABLE A-14. Treaty Indian commercial troll salmon fishing effort (in deliveries) by catch area and statistical month. (Page 2 of 2)

Year or Avg.	Jan.- Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. -Dec.	Total May-Sept.	Year Total
DELIVERIES										
<u>Westport</u>										
1976-1980	0	1	1	9	11	0	0	0	21	21
1981-1985	0	11	8	24	26	2	0	0	71	71
1986-1990	0	17	35	74	65	17	0	0	209	209
1991	0	4	22	35	23	0	0	0	84	84
1992	0	4	3	11	3	0	0	0	21	21
1993	0	0	2	42	81	36	0	0	161	161
1994	0	0	12	1	0	0	0	0	13	13
1995	0	0	0	0	61	0	0	0	61	61
1996	0	0	1	0	19	12	0	0	32	32
1997	0	0	1	0	26	6	0	0	33	33
1998	0	4	1	0	3	0	0	0	8	8
1999	0	1	7	0	1	0	0	0	9	9
2000	0	0	3	0	6	0	0	0	9	9
2001	0	1	0	0	0	0	0	0	1	1
2002 ^{a/}	0	0	0	1	2	0	0	0	3	3
2003 ^{a/}	0	1	0	0	6	2	0	0	9	9
2004 ^{a/}	0	1	1	1	2	1	0	0	6	6
<u>Total Treaty Troll</u>										
1976-1980	665	35	149	152	75	20	7	122	431	1,225
1981-1985	1,056	191	188	311	439	250	28	117	1,379	2,580
1986-1990	586	453	415	510	587	127	1	134	2,091	2,812
1991	501	323	389	361	473	0	91	79	1,546	2,217
1992	386	266	389	240	236	0	0	196	1,131	1,713
1993	572	344	403	358	381	273	0	59	1,759	2,390
1994	115	55	158	3	0	0	0	7	216	338
1995	81	37	0	1	277	0	0	67	315	463
1996	205	64	104	2	90	114	0	7	374	586
1997	31	50	129	0	151	43	0	3	373	407
1998	17	64	22	2	50	38	0	7	176	200
1999	16	77	96	6	101	106	0	1	386	403
2000	9	70	109	0	53	0	0	1	232	242
2001	0	88	180	104	165	85	0	0	622	622
2002 ^{a/}	69	57	102	73	54	47	0	1	333	403
2003 ^{a/}	31	48	92	88	46	30	0	2	304	343
2004 ^{a/}	114	52	105	173	307	63	0	374	700	1,188

a/ Preliminary.

TABLE A-15. **Treaty Indian commercial troll chinook and coho salmon landings** in numbers of fish by catch area and statistical month. (Page 1 of 3)

Year or Average	CHINOOK								COHO											
	Jan. to Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. to Dec.	Total May to Sept.	Year Total	Jan. to Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. to Dec.	Total May to Sept.	Year Total
Area 4B																				
1976-1980	8,512	360	640	98	103	26	10	776	1,228	10,525	406	22	499	191	249	148	5	61	1,109	1,582
1981-1985	13,109	1,066	248	94	49	57	151	788	1,514	15,562	42	245	184	825	1,014	222	22	6	2,489	2,560
1986-1990	6,009	2,540	1,746	284	323	63	12	2,677	4,956	13,654	9	0	65	2,150	7,765	813	7	13	10,793	10,821
1991	5,203	740	418	97	327	0	147	716	1,582	7,648	8	0	0	987	6,685	0	498	15	7,672	8,193
1992	4,131	664	2,217	37	800	0	0	3,107	3,718	10,956	0	0	0	955	9,265	0	15	18	10,220	10,253
1993	6,498	545	1,250	171	41	12	0	562	2,019	9,079	1	0	0	842	1,161	153	0	0	2,156	2,157
1994	1,116	248	484	0	0	0	0	99	732	1,947	0	0	0	0	0	0	0	0	0	0
1995	1,014	158	0	0	242	0	0	834	400	2,248	0	0	0	0	3,087	0	0	0	3,087	3,087
1996	2,555	437	1,440	120	75	106	0	81	2,178	4,814	0	0	0	0	936	189	0	0	1,125	1,125
1997	439	644	416	0	213	26	11	5	1,299	1,754	0	0	0	0	3,517	279	0	0	3,796	3,796
1998	97	92	23	0	136	18	0	40	269	406	0	0	0	0	434	145	0	0	579	579
1999	237	386	144	0	132	0	0	15	662	914	0	0	0	0	1,048	0	0	0	1,048	1,048
2000	135	298	299	0	8	0	0	10	605	750	0	0	0	0	207	0	0	0	207	207
2001	0	1,116	3,847	936	599	84	0	0	6,582	6,582	0	0	0	2,589	3,625	635	0	0	6,849	6,849
2002 ^{ai}	167	498	594	207	0	0	0	19	1,299	1,485	0	0	0	0	0	0	0	0	0	0
2003 ^{ai}	187	25	46	14	0	2	0	3	87	277	0	0	0	4	0	141	0	0	145	145
2004 ^{ai}	1,564	0	532	933	1,542	186	0	14,560	3,193	19,317	0	0	0	1,500	9,981	449	0	107	11,930	12,037
Neah Bay																				
1976-1980	4	35	1,159	1,283	208	41	6	9	2,726	2,744	1	57	3,522	1,483	482	255	6	2	5,800	5,809
1981-1985	0	520	1,191	2,405	673	772	54	11	5,561	5,626	0	8	4,647	9,017	16,514	13,404	18	0	43,590	43,608
1986-1990	6	2,601	2,317	3,114	2,651	685	0	0	11,367	11,374	0	3	106	16,829	16,838	7,241	0	0	41,018	41,018
1991	0	3,452	4,795	5,495	2,361	0	0	0	16,103	16,103	0	0	0	29,190	14,255	0	0	0	43,445	43,445
1992	0	8,106	3,284	3,616	2,298	0	0	80	17,304	17,384	0	2	3	30,710	16,695	0	0	5	47,410	47,415
1993	0	7,014	4,106	5,024	1,988	2,447	0	0	20,579	20,579	0	1	0	3,476	13,285	24,380	0	0	41,142	41,142
1994	0	104	1,841	1	0	0	0	0	1,946	1,946	0	0	0	0	0	0	0	0	0	0
1995	0	540	0	23	6,926	0	0	0	7,489	7,489	0	0	0	0	24,812	0	0	0	24,812	24,812
1996	6	997	534	0	4,732	3,421	0	0	9,684	9,690	0	0	0	0	2,937	12,054	0	0	14,991	14,991
1997	0	175	7,053	0	3,451	888	0	0	11,567	11,567	0	0	0	0	6,008	3,411	0	0	9,419	9,419
1998	0	5,056	4,358	47	3,470	1,118	0	85	14,049	14,134	0	0	0	74	3,115	4,017	0	0	7,206	7,206
1999	0	2,142	16,781	0	3,887	3,619	0	0	26,429	26,429	0	0	0	0	11,932	20,196	0	0	32,128	32,128
2000	0	2,584	2,694	0	1,329	0	0	0	6,607	6,607	0	0	0	0	21,193	0	0	0	21,193	21,193
2001	0	1,144	10,293	4,404	2,435	2,610	0	0	20,886	20,886	0	0	0	5,845	24,710	20,116	0	0	50,671	50,671
2002 ^{ai}	0	4,798	10,271	11,526	7,906	3,118	0	0	37,619	37,619	0	0	0	3,557	4,547	9,348	0	0	17,452	17,452
2003 ^{ai}	21	2,766	12,780	12,739	4,933	1,012	0	0	34,230	34,251	98	3	0	4,309	4,024	1,968	0	0	10,304	10,402
2004 ^{ai}	5	10,086	15,996	9,528	5,309	4,807	0	0	45,726	45,731	0	0	0	14,331	26,709	8,609	0	0	49,649	49,649

TABLE A-15. **Treaty Indian commercial troll chinook and coho salmon landings** in numbers of fish by catch area and statistical month. (Page 2 of 3)

Year or Average	Jan. to	May	June	July	Aug.	Sept.	Oct.	Nov.	Total	Year Total	Jan.	May	June	July	Aug.	Sept.	Oct.	Nov.	Total	Year Total
	Apr.							to Dec.	May to Sept.		to Apr.							to Dec.	May to Sept.	
CHINOOK																				
<u>La Push</u>																				
1976-1980	0	118	243	483	141	27	203	11	1,011	1,225	0	641	3,216	1,184	473	34	1,063	20	5,548	6,631
1981-1985	0	243	321	826	500	212	0	0	2,103	2,103	0	30	2,251	5,294	6,387	2,855	0	0	16,818	16,818
1986-1990	0	1,049	944	2,044	754	259	0	0	5,050	5,050	0	0	2,694	8,430	7,021	2,250	0	0	20,395	20,395
1991	0	189	212	534	1,659	0	0	0	2,594	2,594	0	0	0	4,936	15,520	0	0	0	20,456	20,456
1992	0	0	27	1,041	925	0	0	0	1,993	1,993	0	0	0	8,454	9,371	0	0	0	17,825	17,825
1993	0	19	5	473	404	112	0	0	1,013	1,013	0	0	0	926	5,487	1,005	0	0	7,418	7,418
1994	0	97	1,143	4	0	0	0	0	1,244	1,244	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	18	0	0	0	18	18	0	0	0	0	237	0	0	0	237	237
1996	0	0	0	0	6	44	0	0	50	50	0	0	0	0	105	601	0	0	706	706
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	26	0	113	0	0	0	139	139	0	0	0	0	115	0	0	0	115	115
1999	0	0	42	0	62	0	0	0	104	104	0	0	0	0	143	0	0	0	143	143
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2002 ^{a/b/}	0	0	0	0	23	0	50	0	23	73	0	0	0	0	14	0	200	0	14	214
2003 ^{a/b/}	0	0	47	0	0	0	75	0	47	122	0	0	0	0	0	0	200	0	0	200
2004 ^{a/b/}	0	0	0	0	0	0	50	0	0	50	0	0	0	0	0	0	100	0	0	100
COHO																				
<u>Westport</u>																				
1976-1980	0	30	25	6	10	0	0	0	71	71	0	0	0	35	58	0	0	0	93	93
1980-1985	0	280	123	308	103	6	0	0	820	820	0	0	353	1,252	557	199	0	0	2,361	2,361
1986-1990	0	715	756	1,309	812	241	0	0	3,832	3,832	0	0	1,391	4,899	4,221	747	0	0	11,258	11,258
1991	0	58	565	749	150	0	0	0	1,522	1,522	0	0	0	3,830	1,551	0	0	0	5,381	5,381
1992	0	11	10	30	4	0	0	0	55	55	0	0	0	96	38	0	0	0	134	134
1993	0	0	6	159	1,285	372	0	0	1,822	1,822	0	0	0	1,763	5,526	1,141	0	0	8,430	8,430
1994	0	0	541	0	0	0	0	0	541	541	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	1,580	0	0	0	1,580	1,580	0	0	0	0	2,634	0	0	0	2,634	2,634
1996	0	39	0	304	52	0	0	0	395	395	0	0	0	0	663	1,041	0	0	1,704	1,704
1997	0	0	17	0	864	222	0	0	1,103	1,103	0	0	0	0	1,792	653	0	0	2,445	2,445
1998	0	41	35	0	104	0	0	0	180	180	0	0	0	0	107	0	0	0	107	107
1999	0	8	189	0	20	0	0	0	217	217	0	0	0	0	28	0	0	0	28	28
2000	0	0	246	0	167	0	0	0	413	413	0	0	0	0	774	0	0	0	774	774
2001	0	100	532	0	0	0	0	0	632	632	0	0	0	0	0	0	0	0	0	0
2002 ^{a/}	0	0	0	140	34	0	0	0	174	174	0	0	0	0	27	0	0	0	27	27
2003 ^{a/}	0	10	0	0	191	64	0	0	265	265	0	0	0	0	112	61	0	0	173	173
2004 ^{a/}	0	6	138	13	52	28	0	0	237	237	0	0	0	57	29	84	0	0	170	170

TABLE A-15. **Treaty Indian commercial troll** chinook and coho salmon **landings** in numbers of fish by catch area and statistical month. (Page 3 of 3)

Year or Average	CHINOOK								COHO											
	Jan. to Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. to Dec.	Total May to Sept.	Year Total	Jan. to Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. to Dec.	Total May to Sept.	Year Total
Total Treaty Troll																				
1976-1980	8,515	543	2,067	1,870	462	94	219	796	5,036	14,566	407	720	7,237	2,893	1,261	438	1,075	83	12,550	14,115
1981-1985	13,109	2,109	1,883	3,633	1,326	1,046	205	799	9,998	24,110	42	283	7,435	16,388	24,473	16,680	41	6	65,259	65,347
1986-1990	6,015	6,905	5,762	6,751	4,540	1,248	12	2,677	25,206	33,911	9	3	4,256	3,230	35,845	1,105	7	13	83,464	83,492
1991	5,203	4,439	5,990	6,875	4,497	0	147	716	21,801	27,867	8	0	0	38,943	38,011	0	498	15	76,954	77,475
1992	4,131	8,781	5,538	4,724	4,027	0	0	3,187	23,070	30,388	0	2	3	40,215	35,369	0	15	23	75,589	75,627
1993	6,498	7,578	5,367	5,827	3,718	2,943	0	562	25,433	32,493	1	1	0	7,007	25,459	26,679	0	0	59,146	59,147
1994	1,116	449	4,009	5	0	0	0	99	4,463	5,678	0	0	0	0	0	0	0	0	0	0
1995	1,014	698	0	23	8,766	0	0	834	9,487	11,335	0	0	0	0	30,770	0	0	0	30,770	30,770
1996	2,561	1,473	1,974	424	4,865	3,571	0	81	12,307	14,949	0	0	0	0	4,641	13,885	0	0	18,526	18,526
1997	439	819	7,486	0	4,528	1,136	11	5	13,969	14,424	0	0	0	0	11,317	4,343	0	0	15,660	15,660
1998	97	5,189	4,442	47	3,823	1,136	0	125	14,637	14,859	0	0	0	74	3,771	4,162	0	0	8,007	8,007
1999	237	2,536	17,156	0	4,101	3,619	0	15	27,412	27,664	0	0	0	0	13,151	20,196	0	0	33,347	33,347
2000	135	2,882	3,139	0	1,504	0	0	10	7,625	7,770	0	0	0	0	22,174	0	0	0	22,174	22,174
2001	0	2,360	14,672	5,340	3,034	2,694	0	0	28,100	28,100	0	0	0	8,434	28,335	20,751	0	0	57,520	57,520
2002 ^{a/b/}	167	5,296	10,865	11,873	7,963	3,118	50	19	39,115	39,351	0	0	0	3,557	4,588	9,348	200	0	17,493	17,693
2003 ^{a/b/}	208	2,801	12,873	12,753	5,124	1,078	75	3	34,629	34,915	98	3	0	4,313	4,136	2,170	200	0	10,622	10,920
2004 ^{a/b/}	1,564	10,111	16,666	10,474	6,903	5,021	50	14,560	49,175	65,349	0	0	0	15,888	36,719	9,142	100	107	61,749	61,956

a/ Preliminary.

b/ October catches taken during ceremonial & subsistence fishery.

TABLE A-16. **Treaty Indian commercial troll pink salmon landings** (odd-years only) in numbers of salmon by catch area and statistical month. (Page 1 of 2)

Year or Average	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.-Dec.	Total May-Sept.	Year Total
PINKS										
<u>Area 4B</u>										
1976-1980	0	2	267	158	648	15	0	0	1,090	1,090
1981-1985	0	23	2	108	698	7	0	0	838	838
1986-1990	0	0	0	1,394	642	142	0	0	2,178	2,178
1991	0	0	0	0	74	1,260	0	0	1,334	1,334
1993	0	0	0	55	126	5	0	0	186	186
1995	0	0	0	0	2,317	0	0	0	2,317	2,317
1997	0	0	0	0	696	10	0	0	706	706
1999	0	0	0	0	475	4	0	0	479	479
2001	0	0	0	650	363	15	0	0	1,028	1,028
2003	0	0	0	0	1	0	0	0	1	1
<u>Neah Bay</u>										
1976-1980	0	42	90	632	1,338	5	0	0	2,108	2,108
1981-1985	0	0	94	1,340	6,681	302	0	0	8,417	8,417
1986-1990	0	2	4	6,552	2,891	377	0	0	9,826	9,826
1991	0	0	2	999	1,643	0	0	0	2,644	2,644
1993	0	0	0	158	1,808	763	0	0	2,729	2,729
1995	0	0	0	0	8,407	0	0	0	8,407	8,407
1997	0	0	0	0	1,061	43	0	0	1,104	1,104
1999	0	0	0	0	987	97	0	0	1,084	1,084
2001	0	0	0	201	1,197	190	0	0	1,588	1,588
2003	0	0	0	173	46	23	0	0	242	242
<u>La Push</u>										
1976-1980	0	5	1,192	258	1,032	0	0	0	2,488	2,488
1981-1985	0	7	100	653	384	12	0	0	1,156	1,156
1986-1990	0	3	6	625	666	64	0	0	1,365	1,365
1991	0	0	0	75	449	0	0	0	524	524
1993	0	0	0	120	351	31	0	0	502	502
1995	0	0	0	0	32	0	0	0	32	32
1997	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0
<u>Grays Harbor</u>										
1976-1980	0	0	0	0	0	0	0	0	0	0
1981-1985	0	1	18	106	6	0	0	0	132	132
1986-1990	0	0	0	419	44	16	0	0	470	470
1991	0	0	0	0	4	0	0	0	4	4
1993	0	0	0	20	13	0	0	0	33	33
1995	0	0	0	0	2	0	0	0	2	2
1997	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0

TABLE A-16. **Treaty Indian commercial troll pink salmon landings** (odd-years only) in numbers of salmon by catch area and statistical month. (Page 2 of 2)

Year or Average	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.-Dec.	Total May-Sept.	Year Total
PINKS										
<u>Total Treaty Troll</u>										
1976-1980	0	49	1,550	1,048	3,019	20	0	0	5,686	5,686
1981-1985	0	32	214	2,207	7,770	320	0	0	10,543	10,543
1986-1990	0	5	10	8,991	4,244	591	0	0	13,840	13,840
1991	0	0	2	1,074	2,170	1,260	0	0	4,506	4,506
1993	0	0	0	353	2,298	799	0	0	3,450	3,450
1995	0	0	0	0	10,758	0	0	0	10,758	10,758
1997	0	0	0	0	1,757	53	0	0	1,810	1,810
1999	0	0	0	0	1,462	101	0	0	1,563	1,563
2001	0	0	0	851	1,560	205	0	0	2,616	2,616
2003	0	0	0	173	47	23	0	0	243	243

TABLE A-17. **Washington** ocean **recreational** salmon fishing **effort** in angler trips by port and statistical month. (Page 1 of 3)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
ANGLER TRIPS (thousands)								
<u>Neah Bay</u>								
1976-1980	0.6	1.1	4.1	13.0	17.9	7.0	0.5	44.2
1981-1985	0.1	0.4	1.1	9.0	13.4	3.4	0.1	27.5
1986-1990 ^{a/}	-	0.2	1.4	14.0	7.3	1.3	-	23.2
1991	-	-	b/	16.2	9.2	b/	-	25.4
1992	0.3	1.0	-	10.4	7.9	0.1	-	19.7
1993	b/	1.1	0.1	11.1	11.2	3.8	-	27.3
1994	-	-	-	-	-	-	-	-
1995	-	-	-	-	9.3	0.1	-	9.4
1996	-	-	-	-	9.3	1.5	-	10.9
1997	-	-	-	3.0	1.8	-	-	4.8
1998	-	-	-	-	6.4	-	-	6.4
1999	-	-	-	2.5	4.0	1.6	0.1	8.1
2000	-	-	-	5.0	4.7	1.6	-	11.4
2001	-	-	-	10.5	6.5	1.0	-	17.9
2002	-	0.6	2.5	4.0	5.5	1.2	0.0	13.7
2003	-	-	1.4	10.1	8.1	0.9	-	19.1
2004 ^{c/}	-	-	0.4	14.3	10.4	1.0	-	26.1
<u>La Push</u>								
1976-1980	b/	0.3	1.3	7.9	11.7	3.1	0.3	24.7
1981-1985	-	-	b/	1.1	2.1	0.1	-	3.3
1986-1990	-	b/	b/	1.8	0.6	0.1	-	2.5
1991	-	-	-	3.5	b/	-	-	3.5
1992	-	-	-	1.7	0.5	0.3	b/	2.5
1993	-	-	-	1.6	0.8	0.5	-	2.9
1994	-	-	-	-	-	-	-	-
1995	-	-	-	-	0.9	0.5	-	1.5
1996	-	-	-	-	0.8	0.5	-	1.3
1997	-	-	-	0.9	-	-	-	0.9
1998	-	-	-	-	0.6	-	-	0.6
1999	-	-	-	1.0	1.2	0.7	b/	2.9
2000	-	-	-	1.2	0.7	-	-	2.0
2001	-	-	-	1.9	1.0	0.2	0.2	3.4
2002	-	0.1	0.2	1.1	1.4	0.6	0.1	3.4
2003	-	-	0.2	1.8	1.6	0.6	0.1	4.4
2004 ^{c/}	-	-	0.1	1.9	1.5	1.1	0.0	4.6

TABLE A-17. **Washington** ocean **recreational** salmon fishing **effort** in angler trips by port and statistical month. (Page 2 of 3)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
ANGLER TRIPS (thousands)								
<u>Westport</u>								
1976-1980	2.3	11.9	37.4	66.5	66.3	23.1	2.8	210.3
1981-1985	-	2.6	16.4	34.2	23.5	2.1	b/	78.8
1986-1990	-	b/	2.1	29.7	11.4	0.8	b/	52.5
1991	-	-	5.0	35.0	8.9	3.9	-	52.7
1992	-	-	-	22.9	20.7	9.4	0.7	53.7
1993	-	-	-	17.8	19.4	13.7	-	50.9
1994	-	-	-	-	-	-	-	-
1995	-	-	-	4.9	11.6	5.3	-	21.7
1996	-	-	-	4.5	9.6	1.4	-	15.5
1997	-	-	-	8.0	8.1	1.2	-	17.3
1998	-	-	-	-	7.1	0.9	-	8.0
1999	-	-	-	5.3	9.4	4.2	0.1	19.1
2000	-	-	-	12.3	7.5	-	-	19.8
2001	-	-	-	25.4	16.3	8.1	-	49.7
2002	-	1.9	10.8	16.4	12.3	-	-	41.4
2003	-	-	4.3	20.7	18.3	4.7	-	43.8
2004 ^{c/}	-	-	1.5	15.7	15.0	6.0	-	38.2
<u>Columbia River^{d/}</u>								
1976-1980								
1981-1985	0.4	4.6	20.8	42.0	62.4	18.7	1.7	150.6
1986-1990	-	0.1	1.3	19.7	19.4	0.7	-	41.3
1991	-	-	3.3	26.1	11.3	4.8	-	45.5
1992	-	-	-	25.6	4.5	2.9	-	33.0
1993	-	-	-	12.9	19.7	15.1	-	47.7
1994	-	-	-	-	-	-	-	-
1995	-	-	-	3.8	11.6	6.9	-	22.3
1996	-	-	-	3.3	8.7	3.6	-	15.6
1997	-	-	-	4.6	2.1	-	-	6.7
1998	-	-	-	-	4.3	0.4	-	4.7
1999	-	-	-	4.4	11.1	5.1	b/	20.7
2000	-	-	-	6.8	8.9	-	-	15.8
2001	-	-	-	21.1	25.2	9.1	-	55.4
2002	-	0.2	1.3	9.0	18.1	8.0	-	36.7
2003	-	-	0.5	15.0	29.6	6.9	-	52.0
2004 ^{c/}	-	-	0.6	11.7	23.7	7.8	-	43.8

TABLE A-17. **Washington** ocean **recreational** salmon fishing **effort** in angler trips by port and statistical month. (Page 3 of 3)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
ANGLER TRIPS (thousands)								
<u>StatewideTotal</u>								
1976-1980	3.3	18.0	63.6	129.4	158.3	51.9	5.3	429.8
1981-1985	0.1	3.8	23.6	67.5	59.3	8.8	0.3	163.3
1986-1990	-	0.5	4.7	65.7	42.8	5.6	b/	119.4
1991	-	-	8.3	80.8	29.4	8.7	-	127.2
1992	0.3	1.0	-	60.5	33.7	12.6	0.7	108.9
1993	b/	1.1	0.1	43.4	51.1	33.1	-	128.8
1994	-	-	-	-	-	-	-	-
1995	-	-	-	8.7	33.3	12.8	-	54.8
1996	-	-	-	7.7	28.5	7.0	-	43.3
1997	-	-	-	16.4	12.1	1.2	-	29.7
1998	-	-	-	-	18.3	1.4	-	19.7
1999	-	-	-	13.3	25.7	11.5	0.2	50.8
2000	-	-	-	25.4	21.9	1.6	-	48.9
2001	-	-	-	25.4	21.9	1.6	0.2	126.4
2002	-	2.7	14.9	30.4	37.3	9.7	0.1	95.2
2003	-	-	6.3	47.7	57.5	13.2	0.1	119.2
2004 ^{c/}	-	-	2.6	43.6	50.6	15.8	0.0	112.7

a/ Includes effort from Area 4B fishery.

b/ Fewer than 50 angler trips.

c/ Preliminary.

d/ Includes effort from the North Jetty when the ocean fishery was open; does not include effort reported as occurring inside the Columbia River mouth (North Jetty effort when the ocean fishery was closed and Buoy 10 was open).

TABLE A-18. Washington ocean recreational chinook and coho salmon landings in numbers of fish by port and month.^{a/} (Page 1 of 3)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
	CHINOOK (thousands)								COHO (thousands)							
Neah Bay																
1976-1980	0.377	0.348	1.197	2.438	1.412	0.505	0.058	6.334	0.170	0.537	3.363	11.424	20.652	7.761	0.252	44.158
1981-1985	0.057	0.119	0.249	1.231	0.468	0.091	0.009	2.224	0.016	0.203	0.866	8.395	16.452	3.414	0.090	29.436
1986-1990 ^{b/c/}	0.000	0.024	0.086	2.464	0.347	0.044	0.000	2.964	0.000	0.000	0.171	15.879	11.629	2.068	0.000	29.747
1991 ^{d/}	0.000	0.000	0.002	2.363	0.380	0.000	0.000	2.745	0.000	0.000	0.000	23.339	15.131	0.005	0.000	38.475
1992 ^{d/}	0.037	0.081	0.000	0.964	0.033	0.000	0.000	1.115	0.000	0.032	0.000	12.949	11.637	0.083	0.000	24.701
1993 ^{d/}	0.006	0.155	0.022	0.997	0.380	0.124	0.000	1.684	0.000	0.042	0.006	10.673	12.614	3.860	0.000	27.195
1994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.000	0.136	0.000	0.000	0.136	0.000	0.000	0.000	0.000	12.826	0.017	0.000	12.843
1996 ^{d/}	0.000	0.000	0.000	0.000	0.055	0.005	0.000	0.060	0.000	0.000	0.000	0.000	6.634	2.327	0.000	8.961
1997 ^{d/}	0.000	0.000	0.000	0.478	0.008	0.000	0.000	0.486	0.000	0.000	0.000	0.000	1.494	0.000	0.000	1.494
1998 ^{d/}	0.000	0.000	0.000	0.000	0.103	0.000	0.000	0.103	0.000	0.000	0.000	0.000	8.062	0.000	0.000	8.062
1999	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.456	2.963	0.951	0.000	5.370
2000	0.000	0.000	0.000	0.313	0.105	0.000	0.000	0.418	0.000	0.000	0.000	3.603	5.960	2.067	0.000	11.630
2001	0.000	0.000	0.000	1.103	0.366	0.054	0.000	1.523	0.000	0.000	0.000	9.840	6.936	1.101	0.000	17.877
2002	0.000	0.234	1.225	3.004	0.757	0.007	0.000	5.227	0.000	0.000	0.000	1.792	5.419	1.185	0.000	8.396
2003	0.000	0.000	0.589	3.071	0.997	0.040	0.000	4.697	0.000	0.000	0.785	9.104	8.721	1.139	0.000	19.749
2004 ^{d/}	0.000	0.000	0.235	4.117	1.090	0.073	0.000	5.515	0.000	0.000	0.361	14.100	13.800	1.005	0.000	29.400
La Push																
1976-1980	0.000	0.008	0.161	0.948	1.318	0.328	0.081	2.844	0.009	0.271	1.671	8.586	15.198	3.103	0.026	28.864
1981-1985	0.000	0.000	0.004	0.132	0.166	0.002	0.000	0.304	0.000	0.000	0.043	0.861	2.786	0.100	0.000	3.791
1986-1990 ^{b/}	0.000	0.002	0.006	0.303	0.074	0.006	0.000	0.391	0.000	0.000	0.022	2.129	0.820	0.050	0.000	3.022
1991	0.000	0.000	0.000	0.411	0.000	0.000	0.000	0.411	0.000	0.000	0.000	5.145	0.013	0.000	0.000	5.158
1992	0.000	0.000	0.000	0.126	0.043	0.031	0.002	0.202	0.000	0.000	0.000	1.152	0.447	0.225	0.002	1.826
1993	0.000	0.000	0.000	0.108	0.044	0.054	0.000	0.206	0.000	0.000	0.000	2.000	0.733	0.446	0.000	3.179
1994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.000	0.007	0.003	0.000	0.010	0.000	0.000	0.000	0.000	1.231	0.660	0.000	1.891
1996	0.000	0.000	0.000	0.000	0.002	0.007	0.000	0.009	0.000	0.000	0.000	0.000	0.802	0.809	0.000	1.611
1997	0.000	0.000	0.000	0.061	0.000	0.000	0.000	0.061	0.000	0.000	0.000	1.057	0.000	0.000	0.000	1.057
1998	0.000	0.000	0.000	0.000	0.065	0.000	0.000	0.065	0.000	0.000	0.000	0.000	0.577	0.000	0.000	0.577
1999	0.000	0.000	0.000	0.396	0.488	0.100	0.000	0.984	0.000	0.000	0.000	0.661	1.318	0.598	0.000	2.577
2000	0.000	0.000	0.000	0.106	0.070	0.000	0.000	0.176	0.000	0.000	0.000	0.965	0.961	0.000	0.000	1.926
2001	0.000	0.000	0.000	0.324	0.100	0.060	0.100	0.584	0.000	0.000	0.000	1.785	1.357	0.153	0.015	3.310
2002	0.000	0.007	0.123	1.132	0.579	0.092	0.043	1.976	0.000	0.000	0.000	0.492	1.010	0.146	0.004	1.652
2003	0.000	0.000	0.128	0.785	0.802	0.111	0.062	1.888	0.000	0.000	0.136	1.564	1.502	0.193	0.012	3.407
2004 ^{d/}	0.000	0.000	0.038	0.853	0.529	0.404	0.006	1.830	0.000	0.000	0.037	1.430	1.260	0.420	0.003	3.163

TABLE A-18. Washington ocean recreational chinook and coho salmon landings in numbers of fish by port and month.^{a/} (Page 2 of 3)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
	CHINOOK (thousands)								COHO (thousands)							
Westport																
1976-1980	1.395	5.479	20.759	18.019	15.844	5.707	0.743	67.946	0.217	12.221	43.808	89.416	63.127	21.910	1.819	232.518
1981-1985	0.000	1.429	13.435	17.397	7.513	0.325	0.003	40.102	0.000	0.491	9.433	27.665	22.997	2.696	0.007	63.290
1986-1990	0.000	0.133	1.231	10.334	4.772	0.921	0.000	17.391	0.000	0.004	1.776	40.125	22.596	4.979	0.018	69.497
1991	0.000	0.000	1.911	3.786	1.265	0.209	0.000	7.171	0.000	0.000	6.781	60.610	14.508	6.963	0.000	88.862
1992	0.000	0.000	0.000	7.091	5.979	2.370	0.213	15.653	0.000	0.000	0.000	16.774	25.807	7.234	0.322	50.137
1993	0.000	0.000	0.000	1.357	3.780	3.358	0.000	8.495	0.000	0.000	0.000	16.081	21.274	12.067	0.000	49.422
1994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.012	0.033	0.046	0.000	0.091	0.000	0.000	0.000	3.216	17.623	8.046	0.000	28.885
1996	0.000	0.000	0.000	0.008	0.008	0.000	0.000	0.016	0.000	0.000	0.000	5.975	14.896	2.202	0.000	23.073
1997	0.000	0.000	0.000	1.199	1.563	0.315	0.000	3.077	0.000	0.000	0.000	5.986	6.745	0.424	0.000	13.155
1998	0.000	0.000	0.000	0.000	1.477	0.228	0.000	1.705	0.000	0.000	0.000	0.000	6.628	1.066	0.000	7.694
1999	0.000	0.000	0.000	2.271	3.103	1.191	0.020	6.585	0.000	0.000	0.000	4.060	7.264	1.219	0.052	12.595
2000	0.000	0.000	0.000	4.153	2.183	0.000	0.000	6.336	0.000	0.000	0.000	18.554	10.240	0.000	0.000	28.794
2001	0.000	0.000	0.000	12.205	2.758	0.782	0.000	15.745	0.000	0.000	0.000	31.372	25.115	12.909	0.000	69.396
2002	0.000	2.313	13.877	17.848	8.548	0.000	0.000	42.586	0.000	0.005	0.271	8.043	10.762	0.000	0.000	19.081
2003	0.000	0.000	1.972	9.103	8.953	1.786	0.000	21.814	0.000	0.000	2.714	14.882	17.343	4.328	0.000	39.267
2004 ^{d/}	0.000	0.000	0.254	4.087	5.358	1.647	0.000	11.340	0.000	0.000	1.183	7.060	12.400	8.617	0.000	29.336
Columbia River^{e/}																
1976-1980	0.174	2.500	9.143	7.497	15.789	2.261	0.146	37.510	0.242	5.582	40.398	69.166	65.240	23.882	1.776	206.286
1981-1985	0.000	0.118	2.744	4.545	4.263	0.353	0.008	12.031	0.000	1.082	8.237	36.373	25.272	4.754	0.165	75.883
1986-1990	0.000	0.022	0.186	1.795	3.303	0.030	0.000	5.337	0.000	0.000	2.110	32.864	26.977	0.845	0.000	62.797
1991	0.000	0.000	0.171	1.180	0.941	0.052	0.000	2.344	0.000	0.000	5.466	45.792	16.405	7.535	0.000	75.198
1992	0.000	0.000	0.000	0.857	0.466	0.134	0.000	1.457	0.000	0.000	0.000	37.410	6.502	2.979	0.000	46.891
1993	0.000	0.000	0.000	0.738	1.350	0.545	0.000	2.633	0.000	0.000	0.000	15.213	21.062	9.884	0.000	46.159
1994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.040	0.187	0.045	0.000	0.272	0.000	0.000	0.000	3.984	13.865	6.784	0.000	24.633
1996	0.000	0.000	0.000	0.022	0.040	0.030	0.000	0.092	0.000	0.000	0.000	4.665	10.275	2.848	0.000	17.788
1997	0.000	0.000	0.000	0.160	0.185	0.000	0.000	0.345	0.000	0.000	0.000	7.337	3.719	0.000	0.000	11.056
1998	0.000	0.000	0.000	0.000	0.272	0.042	0.000	0.314	0.000	0.000	0.000	0.000	4.025	0.348	0.000	4.373
1999	0.000	0.000	0.000	0.495	1.507	0.316	0.000	2.318	0.000	0.000	0.000	5.171	9.486	4.906	0.020	19.583
2000	0.000	0.000	0.000	0.748	0.800	0.000	0.000	1.548	0.000	0.000	0.000	11.455	14.394	0.000	0.000	25.849
2001	0.000	0.000	0.000	2.253	2.300	0.569	0.000	5.122	0.000	0.000	0.000	32.325	34.359	10.795	0.000	77.479
2002	0.000	0.053	1.927	3.380	2.571	0.101	0.000	8.032	0.000	0.000	0.030	10.136	23.997	10.842	0.000	45.005
2003	0.000	0.000	0.044	1.498	3.561	0.681	0.000	5.784	0.000	0.000	0.600	24.359	43.757	7.957	0.000	76.673
2004 ^{d/}	0.000	0.000	0.022	0.765	4.039	1.396	0.000	6.222	0.000	0.000	0.935	17.200	27.000	5.859	0.000	51.037

TABLE A-18. Washington ocean recreational chinook and coho salmon landings in numbers of fish by port and month.^{a/} (Page 3 of 3)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
	CHINOOK (thousands)								COHO (thousands)							
Total All Areas																
1976-1980	1.946	8.334	31.259	28.901	34.363	8.801	1.028	114.633	0.638	18.611	89.239	178.591	164.21	56.656	3.873	511.827
1981-1985	0.057	1.667	16.432	23.305	12.410	0.771	0.020	54.662	0.016	1.776	18.579	73.295	67.507	10.965	0.262	172.400
1986-1990 ^{b/c/}	0.000	0.181	1.509	14.895	8.496	1.001	0.000	26.082	0.000	0.004	4.079	90.998	62.023	7.941	0.018	165.063
1991 ^{d/}	0.000	0.000	2.084	7.740	2.586	0.261	0.000	12.671	0.000	0.000	12.247	134.886	46.057	14.503	0.000	207.693
1992 ^{d/}	0.037	0.081	0.000	9.038	6.521	2.535	0.215	18.427	0.000	0.032	0.000	68.285	44.393	10.521	0.324	123.555
1993 ^{d/}	0.006	0.155	0.022	3.200	5.554	4.081	0.000	13.018	0.000	0.042	0.006	43.967	55.683	26.257	0.000	125.955
1994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	0.000	0.000	0.000	0.052	0.363	0.094	0.000	0.509	0.000	0.000	0.000	7.200	45.545	15.507	0.000	68.252
1996 ^{d/}	0.000	0.000	0.000	0.030	0.105	0.042	0.000	0.177	0.000	0.000	0.000	10.640	32.607	8.186	0.000	51.433
1997 ^{d/}	0.000	0.000	0.000	1.898	1.756	0.315	0.000	3.969	0.000	0.000	0.000	14.380	11.958	0.424	0.000	26.762
1998 ^{d/}	0.000	0.000	0.000	0.000	1.917	0.270	0.000	2.187	0.000	0.000	0.000	0.000	19.292	1.414	0.000	20.706
1999	0.000	0.000	0.000	3.162	5.098	1.607	0.020	9.887	0.000	0.000	0.000	11.348	21.031	7.674	0.072	40.125
2000	0.000	0.000	0.000	5.320	3.158	0.000	0.000	8.478	0.000	0.000	0.000	34.577	31.555	2.067	0.000	68.199
2001	0.000	0.000	0.000	15.885	5.524	1.465	0.100	22.974	0.000	0.000	0.000	75.322	67.767	24.958	0.015	168.062
2002	0.000	2.607	17.152	25.364	12.455	0.200	0.043	57.821	0.000	0.005	0.301	20.463	41.188	12.173	0.004	74.134
2003	0.000	0.000	2.733	14.457	14.313	2.618	0.062	34.183	0.000	0.000	4.235	49.909	71.323	13.617	0.012	139.096
2004 ^{d/}	0.000	0.000	0.549	9.822	11.010	3.520	0.006	24.910	0.000	0.000	2.516	39.800	54.600	15.900	0.003	112.936

a/ Summary of catch data is by statistical month. Catches do not include estimated mortality that is induced through species restriction or size limit regulation (see Appendix C, Table C-6).

b/ Neah Bay and La Push statistics do not include estimates of 707 chinook killed during chinook nonretention fishery (July 19-August 20, 1987).

c/ Includes catch from the Washington State waters Area 4B fishery, which also occurred in 1989 and 1990.

d/ Preliminary.

e/ Includes catch from the North Jetty when the ocean fishery was open; does not include catch reported as occurring inside the Columbia River mouth (North Jetty catch when the ocean fishery was closed, and Buoy 10 was open).

TABLE A-19. Washington ocean recreational pink salmon landings (odd years only) in numbers of fish by port and month.^{a/}
(Page 1 of 2)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
PINKS (thousands)								
<u>Neah Bay^{b/}</u>								
1976-1980	0.009	0.001	0.162	2.021	8.561	0.368	0.012	11.132
1981-1985	0.000	0.006	0.003	0.780	3.423	0.178	0.009	4.399
1987	0.000	0.000	0.006	0.686	0.713	0.000	0.000	1.405
1989	0.000	0.000	0.000	1.443	0.295	0.202	0.000	1.940
1991	0.000	0.000	0.000	0.479	1.543	0.000	0.000	2.022
1993	0.000	0.000	0.000	0.609	1.264	0.371	0.000	2.244
1995	0.000	0.000	0.000	0.000	2.578	0.030	0.000	2.608
1997	0.000	0.000	0.000	0.079	0.498	0.000	0.000	0.577
1999	0.000	0.000	0.000	0.730	1.165	0.081	0.000	1.976
2001	0.000	0.000	0.000	1.715	1.081	0.003	0.000	2.799
2003 ^{c/}	0.000	0.000	0.006	2.863	5.136	0.120	0.000	8.125
<u>La Push</u>								
1976-1980	0.000	0.000	0.028	0.430	1.928	0.004	0.000	2.390
1981-1985	0.000	0.000	0.000	0.005	0.207	0.000	0.000	0.213
1987	0.000	0.000	0.000	0.012	0.037	0.000	0.000	0.049
1989	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1991	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.046
1993	0.000	0.000	0.000	0.046	0.034	0.004	0.000	0.084
1995	0.000	0.000	0.000	0.000	0.078	0.011	0.000	0.089
1997	0.000	0.000	0.000	0.195	0.000	0.000	0.000	0.195
1999	0.000	0.000	0.000	0.087	0.047	0.000	0.000	0.134
2001	0.000	0.000	0.000	0.129	0.032	0.000	0.000	0.161
2003 ^{c/}	0.000	0.000	0.004	0.419	0.459	0.023	0.000	0.905
<u>Westport</u>								
1976-1980	0.000	0.172	1.086	6.320	1.549	0.050	0.000	9.176
1981-1985	0.000	0.010	0.060	0.497	0.540	0.003	0.000	1.111
1987	0.000	0.000	0.000	0.183	0.045	0.000	0.000	0.228
1989	0.000	0.000	0.000	0.028	0.045	0.000	0.000	0.073
1991	0.000	0.000	0.000	0.043	0.033	0.004	0.000	0.080
1993	0.000	0.000	0.000	0.033	0.035	0.002	0.000	0.070
1995	0.000	0.000	0.000	0.040	0.051	0.002	0.000	0.093
1997	0.000	0.000	0.000	0.520	0.096	0.022	0.000	0.638
1999	0.000	0.000	0.000	0.035	0.040	0.000	0.000	0.075
2001	0.000	0.000	0.000	0.782	0.134	0.002	0.000	0.918
2003 ^{c/}	0.000	0.000	0.012	3.559	0.756	0.032	0.000	4.359
<u>Columbia River</u>								
1976-1980	0.000	0.180	0.090	0.467	0.314	0.002	0.000	1.053
1981-1985	0.000	0.001	0.001	0.036	0.155	0.000	0.000	0.193
1987	0.000	0.000	0.000	0.110	0.009	0.000	0.000	0.119
1989	0.000	0.000	0.000	0.011	0.012	0.000	0.000	0.023
1991	0.000	0.000	0.000	0.045	0.021	0.000	0.000	0.066
1993	0.000	0.000	0.000	0.007	0.011	0.000	0.000	0.018
1995	0.000	0.000	0.000	0.004	0.018	0.009	0.000	0.031
1997	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.003
2001	0.000	0.000	0.000	0.005	0.031	0.004	0.000	0.040
2003 ^{c/}	0.000	0.000	0.000	0.002	0.016	0.000	0.000	0.018

TABLE A-19. **Washington** ocean **recreational** pink salmon **landings** (odd years only) in numbers of fish by port and month.^{a/}
(Page 2 of 2)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
PINKS (thousands)								
<u>Total All Areas</u>								
1976-1980	0.008	0.352	1.365	9.237	12.352	0.424	0.012	23.751
1981-1985	0.000	0.017	0.064	1.318	4.326	0.181	0.009	5.915
1987	0.000	0.000	0.006	0.991	0.804	0.000	0.000	1.801
1989	0.000	0.000	0.000	1.482	0.352	0.202	0.000	2.036
1991	0.000	0.000	0.000	0.613	1.597	0.004	0.000	2.214
1993	0.000	0.000	0.000	0.695	1.344	0.377	0.000	2.416
1995	0.000	0.000	0.000	0.044	2.725	0.052	0.000	2.821
1997	0.000	0.000	0.000	0.794	0.594	0.022	0.000	1.410
1999	0.000	0.000	0.000	0.852	1.255	0.081	0.000	2.188
2001	0.000	0.000	0.000	2.631	1.278	0.009	0.000	3.918
2003 ^{c/}	0.000	0.000	0.022	6.843	6.367	0.175	0.000	13.407

a/ Summary of catch data is by statistical month. Catches do not include estimated mortality induced through species restriction or size limit regulation (see Appendix C, Table C-6). Averages are odd years only.

b/ Includes catch in the Washington state waters Area 4B fishery.

c/ Preliminary.

TABLE A-20. **Cape Falcon to U.S./Mexico border commercial troll salmon fishing effort** in days fished by region and month.^{a/}
(Page 1 of 2)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
DAYS FISHED (thousands)											
<u>Cape Falcon to Humbug Mt.</u>											
1978-1980	-	-	0.9	3.5	14.9	11.5	2.1	1.6	b/	-	34.4
1981-1985	-	-	1.4	1.0	10.3	5.4	1.0	0.7	b/	-	19.9
1986	-	-	3.0	3.3	13.8	4.9	2.0	1.2	b/	-	28.2
1987	-	-	2.8	3.0	16.1	7.3	5.5	2.5	-	-	37.3
1988	-	-	4.2	6.0	17.0	14.1	3.6	4.6	-	-	49.5
1989	-	-	6.0	6.8	13.7	7.8	3.0	2.3	0.8	-	40.3
1990	-	-	2.7	3.7	10.4	5.6	1.5	1.1	b/	-	25.1
1991	-	-	0.7	4.0	4.2	2.0	1.9	1.7	-	-	14.4
1992	-	-	1.6	-	1.5	2.7	1.5	1.7	-	-	8.9
1993	-	-	2.1	1.3	1.7	1.0	1.9	1.2	0.1	-	9.3
1994	-	-	0.9	1.2	-	-	0.3	1.0	0.1	-	3.5
1995	-	-	0.9	1.6	-	2.7	1.3	1.1	0.1	-	7.7
1996	-	-	1.4	2.0	-	1.8	1.6	1.1	0.1	-	8.0
1997	-	0.4	1.9	1.9	-	1.6	1.0	0.5	0.1	-	7.6
1998	-	0.9	1.8	1.7	-	1.4	0.6	0.6	0.1	-	7.0
1999	-	0.2	0.6	1.4	0.8	1.0	0.4	0.4	0.1	b/	4.8
2000	-	0.2	0.7	1.0	1.2	1.8	1.2	0.6	0.3	b/	6.9
2001	-	0.9	2.0	2.0	1.4	2.1	1.2	0.7	0.1	b/	10.4
2002	0.4	0.8	1.7	2.0	0.7	1.3	1.6	2.2	0.2	b/	10.8
2003	0.2	1.4	2.9	1.5	0.9	1.3	1.7	1.4	0.1	b/	11.5
2004 ^{c/}	0.9	2.5	2.1	1.8	0.8	1.8	1.4	0.7	0.2	b/	12.3
<u>Humbug Mt. to Horse Mt. (KMZ)</u>											
1978-1980	-	0.2	8.0	8.2	12.7	10.0	3.4	1.3	0.7	-	44.6
1981-1985	-	-	3.0	1.8	5.0	5.3	1.3	0.7	0.3	-	17.4
1986	-	-	0.5	1.6	1.7	2.6	0.3	0.2	0.1	-	6.9
1987	-	-	0.5	3.2	0.9	-	0.5	0.3	0.3	-	4.8
1988	-	-	0.3	1.7	0.7	-	0.8	0.1	0.3	-	3.3
1989	-	-	0.2	1.2	-	0.6	0.7	0.1	-	-	2.9
1990	-	-	b/	-	-	1.1	0.3	b/	-	-	1.4
1991	-	-	-	-	-	b/	0.6	0.1	-	-	0.7
1992	-	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-	-
1994	-	-	b/	-	-	0.1	-	0.2	-	-	0.3
1995	-	-	b/	-	b/	-	-	0.2	-	-	0.3
1996	-	-	0.1	b/	-	0.5	0.7	0.2	-	-	1.4
1997	-	b/	0.1	-	-	b/	0.1	0.2	-	-	0.5
1998	-	0.0	b/	-	-	b/	0.2	0.2	-	-	0.4
1999	-	-	b/	-	-	0.1	0.3	0.1	-	-	0.5
2000	-	-	b/	-	-	0.1	0.2	0.1	-	-	0.4
2001	-	-	b/	b/	-	0.2	0.4	0.2	-	-	0.8
2002	b/	b/	b/	0.1	0.1	0.2	0.5	0.1	b/	-	1.0
2003	-	b/	b/	0.1	0.1	0.1	0.2	0.1	b/	-	0.7
2004 ^{c/}	b/	b/	0.1	0.1	0.1	0.2	0.4	0.1	b/	-	1.0

TABLE A-20. **Cape Falcon to U.S./Mexico border commercial troll salmon fishing effort** in days fished by region and month.^{a/}
(Page 2 of 2)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
DAYS FISHED (thousands)											
<u>Horse Mt. to U.S.-Mexico Border</u>											
1978-1980	-	0.9	13.4	9.5	21.7	9.0	5.1	-	-	-	59.6
1981-1985	-	0.8	10.2	7.9	15.1	8.7	4.8	b/	-	-	47.6
1986	-	-	14.0	13.2	13.9	8.2	1.8	-	-	-	51.0
1987	-	-	14.9	13.8	14.9	9.3	3.1	-	-	-	55.9
1988	-	-	17.0	19.2	20.0	12.6	5.2	-	-	-	74.0
1989	-	-	14.1	14.9	11.8	11.6	3.4	-	-	-	55.7
1990	-	-	12.7	15.2	11.9	4.8	0.7	-	-	-	45.2
1991	-	-	8.4	10.9	6.3	7.2	1.9	-	-	-	34.6
1992	-	-	5.9	3.3	2.8	4.6	3.6	-	-	-	20.3
1993	-	-	9.3	3.9	5.7	4.4	2.6	-	-	-	25.9
1994	-	-	6.5	4.6	5.4	2.4	2.3	-	-	-	21.2
1995	-	-	8.5	5.2	5.6	3.3	3.3	-	-	-	25.8
1996	-	-	4.8	5.9	5.3	2.9	1.9	-	-	-	20.8
1997	-	0.6	6.5	2.0	5.6	2.3	1.8	-	-	-	18.8
1998	-	-	4.3	2.1	3.9	1.8	2.3	-	-	-	14.3
1999	-	0.1	2.6	5.0	4.8	2.2	1.6	-	-	-	16.3
2000	-	-	5.2	5.8	3.0	2.4	3.6	-	-	-	20.0
2001	-	-	4.9	1.4	3.0	1.4	2.2	0.5	-	-	13.5
2002	-	-	4.2	3.2	4.7	2.8	1.7	0.1	-	-	16.8
2003	-	-	3.1	2.7	3.7	3.7	2.4	0.1	-	-	15.8
2004 ^{c/}	-	-	5.2	4.0	6.3	3.4	1.9	0.2	-	-	21.1
<u>Total South of Cape Falcon</u>											
1978-1980	-	1.1	22.3	21.2	49.4	30.4	10.6	2.9	0.7	-	138.6
1981-1985	-	0.8	14.6	10.8	30.5	19.3	7.0	1.4	0.3	-	84.9
1986	-	-	17.6	18.0	29.3	15.7	4.2	1.4	0.1	-	86.1
1987	-	-	18.2	19.9	31.9	16.6	9.1	2.8	0.3	-	98.0
1988	-	-	21.5	26.9	37.6	26.7	9.7	4.8	0.3	-	126.8
1989	-	-	20.3	22.9	25.4	20.0	7.2	2.4	0.8	-	98.9
1990	-	-	15.4	18.9	22.3	11.5	2.4	1.1	b/	-	71.7
1991	-	-	9.1	14.8	10.5	9.2	4.3	1.8	-	-	49.7
1992	-	-	7.5	3.3	4.3	7.3	5.1	1.7	-	-	29.2
1993	-	-	11.3	5.2	7.4	5.4	4.5	1.2	0.1	-	35.2
1994	-	-	7.5	5.8	5.4	2.4	2.5	1.2	0.1	-	24.9
1995	-	-	9.4	6.9	5.6	5.9	4.6	1.3	0.1	-	33.8
1996	-	-	6.3	7.9	5.3	5.2	4.2	1.3	0.1	-	30.3
1997	-	0.9	8.5	3.9	5.5	3.9	2.8	0.8	0.1	-	26.9
1998	-	0.9	6.1	3.8	3.9	3.2	3.1	0.8	0.1	-	21.9
1999	-	0.3	3.2	6.4	5.6	3.3	2.3	0.5	0.1	b/	21.6
2000	-	0.2	5.9	6.8	4.2	4.3	5.0	0.8	0.3	b/	27.3
2001	-	0.9	6.9	3.5	4.4	3.6	3.8	1.4	0.1	b/	24.8
2002	0.4	0.9	6.0	5.3	5.4	4.3	3.8	2.4	0.1	b/	28.7
2003	0.2	1.4	6.0	4.3	4.7	5.2	4.3	1.7	0.1	b/	27.9
2004 ^{c/}	0.9	2.5	7.4	6.0	7.2	5.5	3.6	1.0	0.2	b/	34.5

a/ The current KMZ boundaries are Humbug Mt. to Horse Mt. These have changed slightly since the early 1980s. Monthly totals for Oregon data are the sum of statistical weeks with closest fit to the calendar month.

b/ Fewer than 50 days fished.

c/ Preliminary.

TABLE A-21. **Cape Falcon to U.S./Mexico border commercial troll chinook and coho salmon landings** in numbers of fish by region and month.^{a/} (Page 2 of 2)

Year or Avg.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
CHINOOK (thousands)												COHO (thousands)										
<u>Horse Mt. to U.S./Mexico Border</u>																						
1976-1980	-	7.6	118.0	68.1	157.3	49.1	28.6	-	-	-	428.7	-	b/	2.0	15.4	17.1	3.6	0.5	-	38.4	-	38.6
1981-1985	-	12.4	95.4	63.4	129.3	58.5	18.0	b/	-	-	377.1	-	b/	0.5	5.8	15.3	2.5	0.3	-	23.7	-	24.3
1986-1990	-	-	239.7	226.5	193.5	71.9	17.4	-	-	-	749.0	-	-	-	15.5	17.9	3.5	0.3	-	-	-	37.1
1991	-	-	80.1	87.1	49.7	65.6	7.8	-	-	-	290.2	-	-	-	50.1	24.0	5.1	-	-	-	-	79.2
1992	-	-	51.6	19.0	21.1	42.7	29.0	-	-	-	163.4	-	-	-	1.5	0.5	0.5	-	-	-	-	2.5
1993	-	-	111.1	40.4	55.8	48.4	24.0	-	-	-	279.6	-	-	-	-	-	-	-	-	-	-	-
1994	-	-	78.8	81.1	89.3	27.4	19.1	-	-	-	295.7	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	285.5	143.0	189.7	30.9	31.1	-	-	-	680.1	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	97.1	130.3	95.4	28.6	20.4	-	-	-	371.8	-	-	-	-	-	-	-	-	-	-	-
1997	-	11.9	199.0	74.6	154.0	24.7	21.8	-	-	-	486.0	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	76.3	39.4	75.5	15.8	17.8	-	-	-	224.8	-	-	-	-	-	-	-	-	-	-	-
1999	-	3.3	30.7	128.2	78.0	32.3	15.6	-	-	-	288.1	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	204.8	138.2	47.3	27.0	59.7	-	-	-	477.0	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	73.0	11.5	63.1	14.2	22.1	3.7	-	-	187.6	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	86.1	93.2	128.0	56.9	13.5	0.5	-	-	378.2	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	73.2	104.2	123.7	111.1	73.7	1.9	-	-	487.9	-	-	-	-	-	-	-	-	-	-	-
2004 ^{c/}	-	-	97.6	154.2	156.5	44.5	15.6	1.0	-	-	469.3	-	-	-	-	-	-	-	-	-	-	-
<u>Total South of Cape Falcon</u>																						
1976-1980	-	10.7	148.4	105.7	236.1	120.8	50.5	16.4	2.1	-	692.6	-	b/	23.2	175.8	387.5	125.9	10.5	0.2	38.4	-	723.1
1981-1985	-	12.4	140.1	83.9	200.3	126.5	35.0	6.4	1.1	-	605.8	-	b/	4.0	13.0	265.4	71.9	2.4	-	23.7	-	356.8
1986-1990	-	-	286.4	317.6	337.5	167.4	55.1	23.3	1.6	-	1188.9	-	-	-	27.6	316.3	79.3	5.4	0.1	b/	-	428.6
1991	-	-	83.3	99.7	65.4	77.2	30.5	12.8	-	-	369.0	-	-	-	141.5	215.3	5.2	3.0	0.1	-	-	365.1
1992	-	-	72.2	19.0	52.6	68.8	39.8	19.3	-	-	271.7	-	-	-	1.5	23.6	25.6	-	b/	-	-	50.7
1993	-	-	131.4	55.1	69.0	58.8	39.6	6.4	0.7	-	360.9	-	-	-	-	b/	b/	-	b/	-	-	b/
1994	-	-	86.7	90.8	89.3	27.6	20.3	6.6	0.4	-	321.7	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	296.4	178.8	191.4	129.1	69.7	30.3	0.3	-	895.9	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	125.6	173.0	95.4	94.7	52.6	14.9	0.8	-	557.0	-	-	-	b/	-	-	-	-	-	-	b/
1997	-	16.4	232	110.8	154.0	69.6	49.0	5.4	0.5	-	636.9	-	-	-	-	-	-	-	-	-	-	-
1998	-	20.0	116.0	73.1	75.5	36.8	25.3	4.0	0.9	-	351.7	-	-	-	-	-	-	-	-	-	-	-
1999	-	4.1	36.8	151.7	86.1	50.2	20.3	2.9	1.2	b/	353.3	-	-	-	-	-	-	-	-	-	-	-
2000	-	1.2	210.9	149.6	67.0	75.7	93.3	13.1	1.9	b/	612.7	-	-	-	-	-	-	-	-	-	-	-
2001	-	18.2	133.8	54.8	100.6	76.1	59.1	19.5	1.3	b/	463.6	-	-	-	-	-	-	-	-	-	-	-
2002	6.7	10.7	109.7	154.0	141.8	88.6	85.6	84.5	1.3	0.1	683.0	-	-	-	-	-	-	-	-	-	-	-
2003	3.2	60.7	147.4	136.6	144.4	149.5	126.5	41.7	1.0	0.1	811.2	-	-	-	-	-	-	-	-	-	-	-
2004 ^{c/}	21.0	34.7	135.5	180.0	178.1	142.6	45.7	9.4	2.2	0.2	749.3	-	-	-	-	-	-	-	-	-	-	-

a/ The current KMZ boundaries are Humbug Mt. to Horse Mt. These have changed slightly since the early 1980s. Monthly totals for Oregon data are the sum of statistical weeks with closest fit to the calendar month.

b/ Fewer than 50 fish.

c/ Preliminary.

TABLE A-22. **Cape Falcon to U.S./Mexico border ocean recreational fishing effort** in salmon angler trips by region and month.^{a/}
(Page 1 of 2)

Year or Average	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)											
<u>Cape Falcon to Humbug Mt.</u>											
1976-1980	-	-	-	9.0	44.4	97.2	83.0	17.6	1.4	0.1	252.6
1981-1985	-	-	-	2.1	13.1	78.0	49.0	8.5	0.3	-	151.1
1986-1990	-	-	-	1.7	18.5	82.6	49.3	12.8	-	-	164.9
1991	-	-	-	2.3	33.1	96.6	-	-	-	-	132.0
1992	-	-	-	3.7	19.9	68.2	34.4	8.5	-	-	134.7
1993	-	-	-	1.4	1.3	24.7	10.6	-	-	-	38.0
1994	-	-	-	0.9	1.1	-	-	-	8.7	b/	10.7
1995	-	-	-	0.8	0.8	-	-	1.9	1.1	0.8	5.5
1996	-	-	-	1.3	0.9	0.6	4.1	4.8	3.3	-	15.0
1997	-	-	b/	0.5	0.8	0.9	4.0	2.1	1.8	-	10.0
1998	-	-	0.0	0.7	0.2	0.4	3.1	2.5	2.9	-	9.7
1999	-	-	b/	0.7	0.8	15.6	2.2	3.4	3.5	0.1	26.2
2000	-	-	b/	0.5	0.3	30.4	8.5	4.8	3.3	0.2	48.1
2001	-	-	-	1.3	17.5	36.0	9.4	4.4	2.3	0.2	71.1
2002	-	-	0.3	1.3	6.2	36.7	14.2	9.3	7.9	0.1	75.9
2003	-	0.1	0.1	1.7	10.9	54.1	31.1	8.4	3.6	0.4	110.5
2004 ^{c/}	-	0.1	0.2	1.5	14.9	49.4	28.8	10.6	3.1	0.3	108.7
<u>Humbug Mt. to Horse Mt. (KMZ)</u>											
1976-1980	-	-	b/	1.6	20.8	50.1	30.9	8.3	5.6	0.9	118.2
1981-1985	-	-	b/	3.5	14.9	49.2	26.9	4.4	3.4	0.1	102.4
1986-1990	-	-	-	5.3	33.5	62.7	27.0	5.1	2.2	-	135.9
1991	-	-	-	2.1	33.3	44.9	2.9	6.3	b/	-	89.5
1992	-	-	-	-	-	21.9	-	10.1	3.9	-	35.8
1993	-	-	-	4.3	7.9	19.2	19.9	6.1	-	-	57.5
1994	-	-	-	14.0	5.3	-	4.2	4.6	4.2	-	32.3
1995	-	-	-	6.5	18.0	-	4.6	11.6	3.4	-	44.1
1996	-	-	-	5.1	17.5	5.6	10.8	5.6	4.3	-	48.8
1997	-	-	-	5.8	8.6	6.5	11.7	1.6	1.3	-	35.5
1998	-	-	-	4.0	5.5	2.6	6.8	2.5	2.8	-	24.1
1999	-	-	-	0.3	6.6	5.4	14.9	4.1	2.3	-	33.6
2000	-	-	-	1.2	7.5	7.7	20.1	2.6	3.2	-	42.3
2001	-	-	-	6.5	11.6	11.3	15.4	1.7	4.3	-	50.8
2002	-	-	-	5.0	10.6	1.3	14.4	6.1	4.0	-	41.3
2003	-	-	-	3.7	5.1	7.3	8.8	3.0	2.6	-	30.5
2004 ^{c/}	-	-	-	5.8	7.4	9.2	13.5	6.4	1.6	-	43.8
<u>Horse Mt. to U.S.-Mexico Border</u>											
1976-1980	9.9	12.5	9.2	9.9	13.0	22.1	19.4	13.2	8.0	2.4	119.6
1981-1985	5.1	7.9	8.8	8.9	14.3	22.0	16.9	9.6	5.6	1.4	100.7
1986-1990	8.4	17.0	24.0	13.7	23.8	36.4	22.9	10.7	5.1	1.7	163.8
1991	-	12.3	18.2	11.0	27.9	44.2	19.7	5.8	4.4	0.1	143.6
1992	2.0	9.7	9.9	11.5	13.6	28.9	15.1	12.3	5.8	0.8	109.7
1993	0.9	15.0	17.6	15.2	12.3	42.3	25.1	8.1	4.7	-	141.2
1994	2.5	14.2	18.7	16.6	32.6	42.5	25.5	12.3	8.8	-	173.7
1995	0.4	22.9	50.2	55.3	62.2	97.5	44.4	15.9	4.9	-	353.8
1996	b/	35.1	30.4	21.9	31.7	43.4	26.4	8.1	3.1	-	200.1
1997	b/	21.5	29.7	29.9	39.1	56.6	29.1	6.0	3.2	0.4	215.4
1998	b/	6.2	17.7	18.1	28.2	33.7	26.0	8.4	3.5	b/	141.8
1999	b/	8.7	11.8	6.5	22.1	41.3	23.8	9.6	5.4	-	129.2
2000	-	-	36.7	32.7	38.3	39.4	24.8	15.3	5.5	1.5	194.1
2001	-	1.6	26.4	23.0	14.3	30.8	23.0	12.8	6.1	2.6	140.4
2002	0.2	3.8	40.5	27.5	30.0	45.8	30.8	7.7	1.8	0.4	188.5
2003	0.6	6.4	15.1	17.1	20.8	34.5	14.8	6.7	2.7	0.3	118.9
2004 ^{c/}	0.2	1.0	30.6	28.6	29.0	57.6	27.8	9.7	4.1	1.5	190.1

TABLE A-22. **Cape Falcon to U.S./Mexico border ocean recreational fishing effort** in salmon angler trips by region and month.^{a/}
(Page 2 of 2)

Year or Average	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)											
<u>Total South of Cape Falcon</u>											
1976-1980	9.9	12.5	9.2	20.6	78.2	169.3	133.3	39.2	14.9	3.4	490.5
1981-1985	5.1	7.9	8.8	14.5	42.4	149.3	92.9	22.5	9.4	1.6	354.3
1986-1990	8.4	17.0	24.0	20.6	75.9	181.7	99.2	28.7	7.3	1.7	464.6
1991	-	12.3	18.2	15.4	94.3	185.6	22.6	12.1	4.5	0.1	365.0
1992	2.0	9.7	9.9	15.2	33.6	119.0	49.5	30.9	9.6	0.8	280.3
1993	0.9	15.0	17.6	20.9	21.5	86.2	55.6	14.2	4.7	-	236.7
1994	2.5	14.2	18.7	31.5	39.0	42.5	29.7	16.8	21.8	b/	216.8
1995	0.4	22.9	50.2	62.7	81.1	97.5	49.0	29.4	9.5	0.8	403.4
1996	b/	35.1	30.4	28.3	50.1	49.6	41.3	18.5	10.7	0.0	263.8
1997	b/	21.5	29.7	36.2	48.5	64.0	44.8	9.7	6.3	0.4	260.9
1998	b/	6.2	17.7	22.8	33.9	36.7	35.9	13.4	9.2	b/	175.6
1999	-	8.7	11.7	7.5	29.5	62.3	40.9	17.2	11.2	0.1	189.1
2000	-	-	36.7	34.4	46.1	77.5	53.4	22.6	12.0	1.7	284.5
2001	-	1.6	26.4	30.9	43.4	78.0	47.8	18.8	12.7	2.8	262.4
2002	0.2	3.8	40.8	33.8	46.8	83.7	59.4	23.1	13.7	0.4	305.6
2003	0.6	6.5	15.2	22.4	36.8	96.0	54.6	18.2	8.9	0.7	259.8
2004 ^{c/}	0.2	1.1	30.8	35.9	51.3	116.2	70.0	26.7	8.8	1.8	342.7

a/ The current KMZ boundaries are Humbug Mt. to Horse Mt. These have changed slightly since the early 1980s. Monthly totals for Oregon data are the sum of statistical weeks with closest fit to the calendar month.

b/ Fewer than 50 angler trips.

c/ Preliminary.

TABLE A-23. **Cape Falcon to U.S./Mexico border ocean recreational salmon landings** in numbers of fish by region and month.^{a/} (Page 1 of 2)

Year or	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
CHINOOK (thousands)												COHO (thousands)										
<u>Cape Falcon to Humbug Mt.</u>																						
1976-1980	-	-	-	0.7	2.8	4.1	5.1	1.5	0.1	b/	14.2	-	-	-	9.1	46.9	76.2	54.9	5.6	0.4	b/	193.1
1981-1985	-	-	-	b/	0.8	6.3	3.5	0.6	b/	-	11.3	-	-	-	1.4	10.8	62.6	40.9	3.8	-	-	119.5
1986-1990	-	-	-	0.01	1.9	7.1	4.0	1.6	-	-	14.8	-	-	-	0.9	20.2	98.1	46.0	7.0	-	-	172.2
1991	-	-	-	0.2	2.8	3.7	-	-	-	-	6.6	-	-	-	0.9	41.2	155.5	-	-	-	-	197.5
1992	-	-	-	0.2	2.5	4.4	1.5	0.7	-	-	9.4	-	-	-	0.6	24.7	89.9	38.7	6.4	-	-	160.3
1993	-	-	-	0.2	b/	1.1	0.6	-	-	-	1.8	-	-	-	0.1	0.1	18.0	12.7	-	-	-	30.9
1994	-	-	-	0.1	0.1	-	-	-	2.2	-	2.4	-	-	-	-	-	-	-	-	b/	-	b/
1995	-	-	-	0.1	0.2	-	-	0.2	0.3	0.1	0.9	-	-	-	-	-	-	-	b/	-	-	b/
1996	-	-	-	0.2	0.2	0.3	0.7	0.9	0.7	-	3.0	-	-	-	-	-	b/	b/	b/	b/	-	0.1
1997	-	-	0.0	0.1	0.2	0.5	1.2	0.4	0.3	-	2.4	-	-	-	-	b/	b/	b/	-	-	-	b/
1998	-	-	0.0	0.1	0.1	0.2	0.6	0.5	0.5	-	2.0	-	-	-	-	-	0.1	b/	b/	-	-	0.1
1999	-	-	0.0	0.1	0.2	1.3	0.4	0.7	0.5	b/	3.3	-	-	-	-	6.0	b/	b/	b/	-	-	6.0
2000	-	-	b/	0.1	b/	8.0	3.0	1.3	0.4	0.1	12.9	-	-	-	-	19.3	0.1	b/	b/	-	-	19.4
2001	-	-	-	0.2	2.0	7.8	4.7	2.0	0.6	b/	17.4	-	-	-	b/	17.7	37.1	0.2	0.1	b/	-	55.1
2002	-	-	0.2	0.3	5.1	16.6	6.0	3.9	2.6	-	34.8	-	-	-	-	b/	19.7	2.2	0.1	b/	-	22.0
2003	-	-	b/	0.3	2.9	15.1	9.2	4.0	1.3	0.1	32.9	-	-	-	b/	7.6	50.9	25.3	0.1	b/	b/	83.8
2004 ^{d/}	-	b/	b/	0.3	3.9	21.5	14.6	5.0	1.9	0.1	47.4	-	-	-	b/	4.9	31.0	11.7	0.5	-	-	48.0
<u>Humbug Mt. to Horse Mt. (KMZ)</u>																						
1976-1980	-	-	b/	0.3	2.7	8.2	5.6	0.7	0.7	0.1	18.3	-	-	b/	0.5	17.8	29.1	9.0	0.7	0.4	0.1	57.5
1981-1985	-	-	b/	2.5	4.9	17.2	7.2	0.7	0.5	b/	33.0	-	-	-	0.4	5.7	17.7	5.7	0.4	b/	-	29.8
1986-1990	-	-	-	1.8	14.8	21.5	8.6	2.0	0.3	-	49.1	-	-	-	1.1	12.4	32.3	7.6	0.9	b/	-	54.3
1991	-	-	-	0.1	11.8	7.1	0.1	0.6	b/	-	19.7	-	-	-	0.1	31.6	28.5	0.8	1.4	b/	-	62.3
1992	-	-	-	-	-	3.8	-	0.8	0.7	-	5.3	-	-	-	-	-	8.2	-	1.5	b/	-	9.7
1993	-	-	-	1.5	0.5	2.6	2.9	1.1	-	-	8.7	-	-	-	0.7	0.9	9.4	8.0	1.4	-	-	20.4
1994	-	-	-	7.8	3.2	-	1.1	0.5	1.1	-	13.7	-	-	-	b/	b/	-	0.1	b/	-	-	0.1
1995	-	-	-	1.6	8.6	-	2.1	6.2	0.8	-	19.4	-	-	-	b/	0.2	-	b/	0.2	b/	-	0.4
1996	-	-	-	2.6	8.6	1.3	4.2	1.2	1.3	-	19.1	-	-	-	-	0.2	b/	0.1	0.1	b/	-	0.4
1997	-	-	-	2.6	3.0	3.0	4.5	0.2	0.7	-	14.1	-	-	-	b/	0.1	0.1	0.1	b/	b/	-	0.3
1998	-	-	-	1.0	1.5	0.7	1.0	0.4	0.4	-	4.9	-	-	-	-	b/	b/	0.1	-	b/	-	0.1
1999	-	-	-	b/	2.3	2.2	4.2	0.6	0.3	-	9.6	-	-	-	-	b/	b/	0.1	b/	-	-	0.2
2000	-	-	-	0.3	2.8	5.9	14.4	1.1	0.8	-	25.3	-	-	-	-	b/	0.1	0.2	b/	-	-	0.3
2001	-	-	-	2.7	5.2	3.9	5.6	1.8	0.9	-	20.0	-	-	-	b/	0.1	0.1	0.1	-	b/	-	0.3
2002	-	-	-	3.0	7.8	0.6	8.5	5.8	0.3	-	26.1	-	-	-	b/	0.3	b/	0.1	b/	-	-	0.4
2003	-	-	-	3.4	2.2	2.6	3.1	2.3	0.6	-	14.2	-	-	-	b/	0.1	b/	0.1	b/	-	-	0.2
2004 ^{d/}	-	-	-	6.5	4.5	6.1	9.1	3.2	0.2	-	29.6	-	-	-	0.2	0.4	0.8	0.4	b/	b/	-	1.8

TABLE A-23. **Cape Falcon to U.S./Mexico border ocean recreational salmon landings** in numbers of fish by region and month.^{a/} (Page 2 of 2)

Year or	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
CHINOOK (thousands)												COHO (thousands)										
<u>Horse Mt. to U.S./Mexico Border</u>																						
1976-1980	5.8	8.5	8.7	6.2	11.8	16.6	9.7	7.4	6.7	1.3	82.8	b/	b/	0.2	1.4	1.6	2.2	0.6	0.1	b/	b/	6.2
1981-1985	5.9	7.3	7.2	7.7	13.3	19.0	16.6	8.5	5.5	1.4	92.5	-	b/	b/	0.1	0.7	0.9	0.3	b/	b/	-	2.1
1986-1990	5.6	15.3	26.4	10.0	19.0	28.6	18.0	8.0	4.1	1.3	136.2	-	b/	0.1	0.2	1.3	2.4	0.8	0.2	b/	-	4.9
1991	-	8.0	13.0	4.8	12.2	20.4	5.7	1.6	2.2	b/	68.0	-	b/	b/	0.6	13.1	14.0	1.3	0.1	b/	-	29.2
1992	0.5	3.4	5.4	6.3	9.5	22.1	10.1	9.9	3.3	0.5	71.0	b/	b/	b/	0.4	0.4	3.6	0.1	0.5	b/	-	5.1
1993	0.4	9.9	15.0	8.5	7.3	38.4	17.2	4.8	3.6	-	105.1	-	b/	0.1	0.3	1.5	11.4	2.0	0.1	b/	-	15.4
1994	1.3	7.3	15.7	12.3	35.7	53.3	23.9	13.9	9.7	-	173.1	-	-	b/	b/	0.2	0.1	b/	b/	b/	-	0.4
1995	0.2	27.3	57.9	45.8	73.4	133.7	29.8	13.4	2.1	-	383.6	-	-	b/	b/	0.3	0.1	0.1	b/	b/	-	0.7
1996	b/	32.0	31.7	13.2	27.2	32.3	11.2	4.4	1.3	-	153.3	-	-	b/	b/	0.2	b/	0.1	b/	-	-	0.4
1997	b/	20.1	26.9	25.7	45.7	72.5	23.6	3.0	2.3	0.1	220.0	-	-	b/	b/	-	0.1	0.1	b/	-	-	0.3
1998	b/	3.0	13.1	15.3	23.7	37.1	20.7	4.4	1.8	b/	119.1	-	-	-	-	b/	b/	b/	-	-	-	b/
1999	-	1.7	6.6	1.6	13.4	34.0	15.2	6.5	2.6	-	81.7	-	-	-	b/	0.2	0.1	0.1	b/	b/	-	0.5
2000	-	-	40.3	32.1	35.3	27.4	17.5	11.1	6.8	1.9	172.4	-	-	-	-	0.1	0.1	b/	b/	-	-	0.2
2001	-	1.3	18.1	11.9	8.2	23.1	12.2	7.0	3.1	1.2	86.0	-	-	b/	0.4	0.2	0.5	b/	-	-	-	1.1
2002	b/	3.0	37.8	21.9	30.3	51.3	17.9	3.3	0.3	0.1	165.9	-	-	b/	b/	0.1	0.3	b/	-	-	-	0.5
2003	0.4	4.0	9.6	12.2	19.0	29.4	6.5	3.7	1.0	0.0	85.9	-	-	-	0.1	0.2	0.2	b/	b/	-	-	0.5
2004 ^{c/}	b/	0.5	31.0	24.8	34.0	70.6	25.0	8.5	2.7	0.3	197.4	-	-	-	b/	0.1	0.5	0.2	b/	-	-	0.9
<u>Total South of Cape Falcon</u>																						
1976-1980	5.8	8.5	8.7	7.2	17.3	28.9	20.4	9.6	7.5	1.4	115.3	b/	b/	0.2	11.0	66.3	107.4	64.5	6.5	0.7	0.1	256.8
1981-1985	5.9	7.3	7.2	10.2	19.0	42.5	27.3	9.9	6.1	1.4	136.8	-	b/	b/	1.9	17.2	81.2	47.0	4.2	b/	-	151.5
1986-1990	5.6	15.3	26.4	11.9	35.7	57.2	30.7	11.6	4.4	1.3	200.0	-	-	0.1	2.2	33.9	133.0	54.4	8.0	-	-	231.4
1991	-	8.0	13.0	5.0	26.8	31.1	5.8	2.3	2.2	b/	94.3	-	b/	b/	1.5	85.9	197.9	2.1	1.4	b/	-	289.0
1992	0.5	3.4	5.4	6.6	12.0	30.2	11.6	11.5	4.0	0.5	85.6	b/	b/	b/	1.0	25.1	101.7	38.9	8.3	0.1	-	175.1
1993	0.4	9.9	15.0	10.2	7.8	42.1	20.7	5.9	3.6	-	115.6	-	b/	0.1	1.0	2.5	38.7	22.8	1.6	b/	-	66.7
1994	1.3	7.3	15.7	20.2	39.1	53.3	25.0	14.4	13.0	-	189.2	-	-	b/	b/	0.2	0.1	0.1	b/	b/	-	0.6
1995	0.2	27.3	57.9	47.5	82.2	133.7	31.9	19.8	3.3	0.1	403.8	-	-	b/	b/	0.5	0.1	0.1	0.2	b/	-	1.1
1996	b/	32.0	31.7	16.0	36.0	33.9	16.0	6.5	3.4	-	175.3	-	-	b/	b/	0.4	0.1	0.2	0.1	b/	-	0.8
1997	b/	20.1	26.9	28.4	48.9	76.0	29.3	3.6	3.3	0.1	236.5	-	-	b/	b/	0.1	0.1	0.2	b/	-	-	0.4
1998	b/	3.0	13.1	16.4	25.3	38.0	22.2	5.3	2.7	b/	126.0	-	-	-	-	b/	b/	0.1	b/	b/	-	0.2
1999	-	1.7	6.6	1.7	15.9	37.5	19.8	7.8	3.4	b/	94.6	-	-	-	-	0.2	6.1	0.2	b/	b/	-	6.7
2000	-	-	40.3	32.5	38.1	41.2	35.0	13.4	8.1	2.0	210.6	-	-	-	-	0.2	19.4	0.3	b/	b/	-	19.9
2001	-	1.3	18.1	14.8	15.4	34.8	22.4	10.8	4.5	1.2	123.4	-	-	b/	0.5	18.0	37.6	0.3	0.1	b/	-	56.5
2002	b/	3.0	37.9	25.3	43.3	68.6	32.4	13.0	3.3	0.1	226.8	-	-	b/	b/	0.4	20.1	2.3	0.1	b/	-	23.0
2003	0.4	4.0	9.6	15.9	24.1	47.2	18.9	10.0	2.9	0.1	133.0	-	-	-	0.1	7.8	51.1	25.4	0.1	b/	b/	84.5
2004 ^{c/}	b/	0.5	31.0	31.6	42.4	98.1	48.8	16.8	4.8	0.4	274.4	-	-	-	0.2	5.5	32.2	12.2	0.6	-	-	50.7

a/ The current KMZ boundaries are Humbug Mt. to Horse Mt. These have changed slightly since the early 1980s. Monthly totals for the Oregon data are the sum of statistical weeks with closest fit to the calendar month.

b/ Fewer than 50 fish.

c/ Preliminary.

TABLE A-24. U.S./Canada border to Cape Falcon commercial troll salmon fishing effort in days fished by area and month.^{a/}
(Page 1 of 3)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
DAYS FISHED (thousands)							
<u>U.S./Canada Border to Leadbetter Pt. - Non-Indian</u>							
1976-1980	3.6	2.3	11.9	12.4	4.5	-	34.8
1981-1985	2.8	0.3	4.7	2.4	b/	-	10.2
1986-1990	2.3	0.7	0.3	0.7	b/	-	3.9
1991	1.6	1.0	b/	1.2	0.5	-	4.2
1992	1.9	1.3	0.9	0.6	-	-	4.6
1993	1.2	0.9	0.7	0.4	0.4	-	3.6
1994	-	-	-	-	-	-	-
1995	-	-	-	0.4	0.1	-	0.5
1996	-	-	0.2	0.2	-	-	0.4
1997	0.3	0.2	-	-	-	-	0.5
1998	0.1	b/	-	-	-	-	0.1
1999	0.3	0.2	0.1	0.1	b/	-	0.8
2000	0.2	0.1	-	0.1	b/	-	0.4
2001	0.2	0.2	0.2	0.1	b/	-	0.7
2002	0.5	0.3	0.4	0.3	-	-	1.6
2003	0.5	0.2	0.5	0.4	0.1	-	1.7
2004 ^{c/}	0.6	0.0	0.4	0.4	0.1	-	1.6
<u>U.S./Canada Border to Leadbetter Pt. - Treaty Indian^{d/}</u>							
1976-1980	0.1	0.2	0.2	0.2	0.1	b/	0.9
1981-1985	0.2	0.3	0.6	0.8	0.5	b/	2.5
1986-1990	0.4	0.4	0.6	0.6	0.1	b/	2.1
1991	0.3	0.4	0.4	0.5	-	0.1	1.5
1992	0.3	0.4	0.2	0.4	-	-	1.1
1993	0.3	0.4	0.7	0.4	0.3	-	1.8
1994	0.1	0.2	b/	-	-	-	0.2
1995	b/	-	b/	0.3	-	-	0.3
1996	0.1	0.1	b/	0.1	0.1	-	0.4
1997	0.1	0.1	-	0.2	b/	-	0.4
1998	0.1	b/	b/	0.1	0.1	-	0.2
1999	0.1	0.1	b/	0.1	0.1	-	0.4
2000	0.0	0.1	-	0.1	-	-	0.2
2001	0.1	0.2	0.1	0.2	0.1	-	0.6
2002	0.1	0.1	0.1	0.1	b/	-	0.3
2003	b/	0.1	0.1	0.1	b/	-	0.3
2004 ^{c/}	0.1	0.1	0.2	0.3	0.1	-	0.7
<u>U.S./Canada Border to Leadbetter Pt. - Total^{d/}</u>							
1976-1980	3.8	2.6	12.2	12.6	4.6	-	35.7
1981-1985	3.0	0.6	5.3	3.2	0.5	-	12.6
1986-1990	2.7	1.1	0.8	1.2	0.2	b/	4.1
1991	1.9	1.4	0.4	1.7	0.5	-	5.8
1992	2.2	1.7	1.1	1.0	-	-	6.0
1993	1.6	1.3	1.4	0.7	0.7	-	5.7
1994	0.1	0.2	b/	-	-	-	0.2
1995	b/	-	b/	0.7	0.1	-	0.8
1996	0.1	0.1	0.2	0.3	0.1	-	0.8
1997	0.3	0.3	-	0.2	b/	-	0.8
1998	0.2	b/	b/	0.1	b/	-	0.3
1999	0.3	0.3	0.1	0.2	0.1	-	1.1
2000	0.3	0.2	-	0.1	b/	-	0.6
2001	0.3	0.4	0.3	0.2	0.1	-	1.3
2002	0.6	0.4	0.5	0.3	b/	-	1.9
2003	0.5	0.3	0.6	0.5	0.1	-	2.0
2004 ^{c/}	0.7	0.1	0.6	0.7	0.2	-	2.3

TABLE A-24. **U.S./Canada border to Cape Falcon commercial troll salmon fishing effort** in days fished by area and month.^{a/}
(Page 2 of 3)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
DAYS FISHED (thousands)							
<u>Leadbetter Pt. to Cape Falcon - Non-Indian</u>							
1976-1980	0.9	0.8	4.5	3.7	1.9	0.1	11.9
1981-1985	1.0	0.1	1.0	0.9	0.2	b/	3.1
1986-1990	0.3	0.1	0.2	0.6	0.3	b/	1.5
1991	0.2	b/	-	0.8	0.2	-	1.3
1992	0.2	0.1	0.1	0.1	-	-	0.5
1993	b/	b/	0.1	0.1	0.1	-	0.3
1994	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-
1997	0.1	b/	-	-	-	-	0.1
1998	-	-	-	-	-	-	-
1999	-	b/	-	b/	-	-	b/
2000	b/	b/	-	0.3	b/	-	0.3
2001	b/	b/	0.1	0.1	b/	-	0.3
2002	a/	0.1	0.2	0.2	-	-	0.5
2003	0.1	b/	0.2	0.2	0.1	-	0.5
2004 ^{c/}	0.1	0.0	0.1	0.1	0.2	-	0.4
<u>U.S./Canada Border to Cape Falcon - Non-Indian</u>							
1976-1980	4.5	3.2	16.4	16.1	6.5	0.1	46.7
1981-1985	3.8	0.3	5.7	3.3	0.2	b/	13.2
1986-1990	2.7	0.7	0.4	1.3	0.3	b/	5.4
1991	1.8	1.0	b/	2.0	0.7	-	5.5
1992	2.1	1.4	1.0	0.7	-	-	5.2
1993	1.3	0.9	0.8	0.4	0.5	-	3.9
1994	-	-	-	-	-	-	-
1995	-	-	-	0.4	0.1	-	0.5
1996	-	-	0.2	0.2	-	-	0.4
1997	0.4	0.2	-	-	-	-	0.6
1998	0.1	b/	-	-	-	-	0.1
1999	0.3	0.2	0.1	0.1	b/	-	0.8
2000	0.2	0.1	-	0.3	0.1	-	0.7
2001	0.2	0.2	0.3	0.2	0.1	-	1.0
2002	0.6	0.4	0.6	0.5	-	-	2.1
2003	0.6	0.2	0.7	0.6	0.1	-	2.2
2004 ^{c/}	0.7	0.0	0.5	0.5	0.3	-	1.9
<u>U.S./Canada Border to Cape Falcon - Treaty Indian^{d/}</u>							
1976-1980	0.1	0.2	0.2	0.2	0.1	b/	0.9
1981-1985	0.2	0.3	0.6	0.8	0.5	b/	2.5
1986-1990	0.4	0.4	0.6	0.6	0.1	b/	2.1
1991	0.3	0.4	0.4	0.5	-	0.1	1.5
1992	0.3	0.4	0.2	0.4	-	-	1.3
1993	0.3	0.4	0.7	0.4	0.3	-	2.1
1994	0.1	0.2	b/	-	-	-	0.2
1995	b/	-	b/	0.3	-	-	0.3
1996	0.1	0.1	b/	0.1	0.1	-	0.4
1997	0.1	0.1	-	0.2	b/	-	0.4
1998	0.1	b/	b/	0.1	b/	-	0.2
1999	0.1	0.1	b/	0.1	0.1	-	0.4
2000	0.1	0.1	-	0.1	-	-	0.2
2001	0.1	0.2	0.1	0.2	0.1	-	0.6
2002	0.1	0.1	0.1	0.1	b/	-	0.3
2003	b/	0.1	0.1	0.1	b/	-	0.3
2004 ^{c/}	0.1	0.1	0.2	0.3	0.1	-	0.7

TABLE A-24. **U.S./Canada border to Cape Falcon commercial troll salmon fishing effort** in days fished by area and month.^{a/}
(Page 3 of 3)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
DAYS FISHED (thousands)							
<u>U.S./Canada Border to Cape Falcon - Total^{d/}</u>							
1976-1980	4.7	3.4	16.6	16.4	6.5	0.1	47.6
1981-1985	4.0	0.6	6.3	4.1	0.6	b/	15.7
1986-1990	3.1	1.1	1.0	1.9	0.5	b/	7.5
1991	2.2	1.4	0.4	2.5	0.7	-	7.1
1992	2.4	1.8	1.2	1.1	-	-	6.5
1993	1.6	1.3	1.5	0.8	0.8	-	6.0
1994	0.1	0.2	b/	-	-	-	0.2
1995	b/	-	b/	0.7	0.1	-	0.8
1996	0.1	0.1	0.2	0.3	0.1	-	0.8
1997	0.4	0.3	-	0.2	b/	-	0.9
1998	0.2	b/	b/	0.1	b/	-	0.3
1999	0.3	0.3	0.1	0.2	0.1	-	1.1
2000	0.3	0.2	-	0.4	0.1	-	1.0
2001	0.3	0.4	0.4	0.4	0.2	-	1.6
2002	0.6	0.5	0.7	0.5	b/	-	2.4
2003	0.6	0.3	0.7	0.6	0.2	-	2.5
2004 ^{c/}	0.7	0.1	0.7	0.8	0.4	-	2.6

a/ Monthly totals for Oregon data are the sum of statistical weeks with closest fit to the calendar month. Washington data are summarized by statistical month.

b/ Fewer than 50 days.

c/ Preliminary.

d/ Treaty troll effort in number of landings, which closely approximates days fished because treaty Indian fishers do not usually make multi-day trips. Season totals do not include October treaty troll effort.

TABLE A-25. **U.S./Canada border to Cape Falcon commercial troll chinook and coho landings** in numbers of fish by catch area and month.^{a/} (Page 1 of 4)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)														
<u>U.S./Canada Border to Leadbetter Pt. - Non-Indian</u>														
1976-1980	43.5	24.8	51.3	33.7	9.5	-	162.7	b/	27.2	308.8	177.8	62.1	-	575.9
1981-1985	26.6	2.9	20.8	4.7	b/	b/	55.1	-	-	103.8	26.2	b/	-	130.0
1986-1990 ^{c/}	27.8	9.1	4.0	1.3	b/	-	42.3	b/	-	10.5	26.5	b/	-	37.0
1991 ^{d/}	13.6	12.4	b/	0.8	0.6	-	27.5	-	-	0.1	25.4	12.7	-	38.2
1992	19.7	13.3	5.2	3.5	-	-	41.7	-	-	9.5	7.2	-	-	16.7
1993	14.4	10.6	2.6	0.9	1.5	-	30.0	-	-	4.8	3.5	5.2	-	13.4
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	b/	-	-	b/	-	-	-	18.4	7.1	-	25.4
1996	-	-	-	-	-	-	-	-	-	7.1	10.4	-	-	17.5
1997	4.5	1.9	-	-	-	-	6.4	-	-	-	-	-	-	-
1998	5.7	0.2	-	-	-	-	5.9	-	-	-	-	-	-	-
1999	4.2	7.1	4.0	2.2	-	-	17.5	-	-	0.7	3.0	0.3	-	4.0
2000	6.8	2.6	-	0.8	b/	-	10.2	-	-	-	2.4	b/	-	2.5
2001	7.5	7.9	5.0	0.8	0.2	-	21.5	-	-	2.0	2.1	2.6	-	6.7
2002	21.8	21.2	15.6	8.4	-	-	67.0	-	-	b/	0.1	-	-	0.1
2003	19.6	9.7	14.8	12.1	1.2	-	57.5	-	-	3.4	3.8	0.8	-	7.9
2004 ^{e/}	23.5	1.2	8.1	8.9	1.8	-	43.5	-	-	2.1	4.7	5.8	-	12.6
<u>U.S./Canada Border to Leadbetter Pt. - Treaty Indian^{f/}</u>														
1976-1980	0.5	2.1	1.9	0.5	0.1	0.2	5.0	0.7	7.2	2.9	1.3	0.4	1.1	12.6
1981-1985	2.1	1.9	3.6	1.3	1.0	0.2	10.0	0.3	7.4	16.4	24.5	16.7	b/	65.3
1986-1990	6.9	5.8	6.8	4.5	1.2	b/	25.2	b/	4.3	32.3	35.8	11.1	b/	83.5
1991	4.4	6.0	6.9	4.5	-	0.1	21.8	-	-	38.9	38.0	-	0.5	77.0
1992	8.8	5.5	4.7	4.0	-	-	23.1	b/	b/	40.2	35.4	-	b/	75.6
1993	7.6	5.4	5.8	3.7	2.9	-	25.4	b/	-	7.0	25.5	26.7	-	59.1
1994	0.4	4.0	b/	-	-	-	4.5	-	-	-	-	-	-	-
1995	0.7	-	b/	8.8	-	-	9.5	-	-	-	30.8	-	-	30.8
1996	1.5	2.0	0.4	4.9	3.6	-	12.3	-	-	-	4.6	13.9	-	18.5
1997	0.8	7.5	-	4.6	1.1	-	14.0	-	-	-	11.3	4.3	-	15.7
1998	5.2	4.4	-	3.6	1.1	-	14.4	-	-	-	3.8	4.1	-	7.9
1999	2.5	17.1	-	4.1	3.6	-	27.4	-	-	-	13.2	20.2	-	33.4
2000	2.9	3.0	0.2	1.5	-	-	7.6	-	-	-	22.2	-	-	22.2
2001	2.4	14.7	5.3	3.0	2.7	-	28.1	-	-	8.4	28.3	20.8	-	57.5
2002	5.3	10.9	11.9	8.0	3.1	-	39.1	-	-	3.6	4.6	9.3	9.3	17.5
2003	2.6	13.0	12.8	5.1	1.1	-	34.7	-	-	4.3	4.3	2.3	-	10.9
2004 ^{e/}	10.1	16.7	10.5	6.9	5.0	-	49.2	-	-	15.9	36.7	9.1	-	61.7

TABLE A-25. **U.S./Canada border to Cape Falcon commercial troll chinook and coho landings** in numbers of fish by catch area and month.^{a/} (Page 2 of 4)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)								COHO (thousands)						
<u>U.S./Canada Border to Leadbetter Pt. - Total^{f/}</u>														
1976-1980	44.0	26.9	53.1	34.2	9.6	-	167.8	0.7	34.4	311.7	179.1	62.5	-	588.4
1981-1985	28.7	4.8	24.4	6.1	1.1	b/	65.1	0.3	7.4	120.2	50.6	16.7	-	195.2
1986-1990	34.7	14.9	10.7	5.9	1.3	-	67.5	b/	4.3	42.8	62.3	11.1	-	120.5
1991 ^{d/}	18.1	18.4	6.9	5.3	0.6	-	49.3	-	-	39.0	63.4	12.7	-	115.2
1992	28.4	18.8	10.0	7.5	-	-	64.8	b/	b/	49.7	42.6	-	-	92.3
1993	21.9	16.0	8.4	4.7	4.4	-	55.4	b/	-	11.8	28.9	31.9	-	72.5
1994	0.4	4.0	b/	-	-	-	4.5	-	-	-	-	-	-	-
1995	0.7	-	b/	8.8	-	-	9.5	-	-	-	49.1	7.1	-	56.2
1996	1.5	2.0	0.4	4.9	3.6	-	12.3	-	-	7.1	15.0	13.9	-	36.1
1997	5.3	9.4	-	4.6	1.1	-	20.4	-	-	-	11.3	4.3	-	15.7
1998	10.9	4.6	-	3.6	1.1	-	20.3	-	-	-	3.8	4.1	-	7.9
1999	6.7	24.2	4.0	6.3	3.6	-	44.8	-	-	0.7	16.0	20.6	-	37.2
2000	9.7	5.6	0.2	2.3	b/	-	17.8	-	-	-	24.6	b/	-	24.6
2001	9.9	22.5	10.4	3.9	2.9	-	49.6	-	-	10.4	30.4	23.4	-	64.2
2002	30.9	28.3	27.5	16.4	3.1	-	106.1	-	-	3.6	4.6	9.3	-	17.5
2003	22.3	22.8	27.7	17.2	2.3	-	92.1	-	-	7.7	8.1	3.1	-	18.8
2004 ^{e/}	33.6	17.8	18.6	15.8	6.9	-	92.7	-	-	18.0	41.4	14.9	-	74.4
<u>Leadbetter Pt. to Cape Falcon - Non-Indian</u>														
1976-1980	13.0	9.7	7.1	4.8	3.7	0.6	38.9	b/	41.9	106.2	41.9	21.9	0.6	212.6
1981-1985	11.2	0.8	1.9	0.8	0.1	b/	14.7	-	-	29.2	20.7	3.6	-	53.4
1986-1990	4.8	0.8	0.8	1.4	0.8	b/	8.6	-	-	6.1	20.5	9.5	0.1	36.1
1991	1.2	0.1	-	0.9	0.1	-	2.3	-	-	-	36.2	6.8	-	43.0
1992	3.0	1.0	0.2	0.1	-	-	4.2	-	-	1.4	1.1	-	-	2.5
1993	0.3	b/	0.1	b/	0.1	-	0.5	-	-	0.4	1.4	0.4	-	2.2
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	b/	b/	-	-	-	-	b/	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	b/	0.2	-	-	0.2	-	-	-	b/	-	-	b/
2000	b/	0.2	-	2.4	0.2	-	2.8	-	-	-	13.3	1.5	-	14.8
2001	0.9	1.7	1.0	0.9	0.5	-	5.0	-	-	4.1	4.0	2.8	-	10.8
2002	1.2	3.2	5.1	5.0	-	-	14.6	-	-	-	1.6	-	-	1.6
2003	5.7	1.3	1.8	2.8	0.8	-	12.3	-	-	1.9	4.2	1.7	-	7.7
2004 ^{e/}	1.9	0.1	0.5	0.4	0.6	-	3.5	-	-	0.9	1.7	7.4	-	10.0

TABLE A-25. **U.S./Canada border to Cape Falcon commercial troll chinook and coho landings** in numbers of fish by catch area and month.^{a/} (Page 3 of 4)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)														
<u>U.S./Canada Border to Cape Falcon - Non-Indian</u>														
1976-1980	56.5	34.5	58.3	38.5	13.1	0.6	201.6	b/	69.1	415.0	219.7	84.0	0.6	788.5
1981-1985	37.8	3.7	22.7	5.5	0.1	b/	69.8	-	-	133.0	46.8	3.6	-	183.4
1986-1990 ^{c/}	32.6	9.9	4.8	2.7	0.8	b/	50.9	b/	-	16.6	47.0	9.5	0.1	73.1
1991 ^{d/}	14.8	12.5	b/	1.7	0.7	-	29.8	-	-	0.1	61.5	19.5	-	81.2
1992	22.6	14.3	5.5	3.6	-	-	45.9	-	-	10.9	8.3	-	-	19.2
1993	14.6	10.6	2.7	1.0	1.6	-	30.5	-	-	5.1	4.8	5.6	-	15.6
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	b/	-	-	b/	-	-	-	18.4	7.1	-	25.4
1996	-	-	-	-	-	-	-	-	-	7.1	10.4	-	-	17.5
1997	4.5	1.9	-	-	-	-	6.4	-	-	-	-	-	-	-
1998	5.7	0.2	-	-	-	-	5.9	-	-	-	-	-	-	-
1999	4.2	7.1	4.0	2.3	-	-	17.6	-	-	0.7	3.0	0.3	-	4.0
2000	6.8	2.8	-	3.1	0.2	-	12.9	-	-	-	15.7	1.6	-	17.3
2001	8.4	9.6	6.1	1.7	0.7	-	26.5	-	-	6.1	6.0	5.4	-	17.5
2002	26.8	20.7	20.7	13.4	-	-	81.6	-	-	b/	1.7	-	-	1.7
2003	25.3	11.0	16.6	14.8	2.0	-	69.8	-	-	5.3	7.9	2.5	-	15.7
2004 ^{e/}	25.4	1.3	8.5	9.4	2.4	-	47.0	-	-	3.1	6.4	13.1	-	22.6
<u>U.S./Canada Border to Cape Falcon - Treaty Indian^{f/}</u>														
1976-1980	0.5	2.1	1.9	0.5	0.1	0.2	5.0	0.7	7.2	2.9	1.3	0.4	1.1	12.6
1981-1985	2.1	1.9	3.6	1.3	1.0	0.2	10.0	0.3	7.4	16.4	24.5	16.7	b/	65.3
1986-1990	6.9	5.8	6.8	4.5	1.2	b/	25.2	b/	4.3	32.3	35.8	11.1	b/	83.5
1991	4.4	6.0	6.9	4.5	-	0.1	21.8	-	-	38.9	38.0	-	0.5	77.0
1992	8.8	5.5	4.7	4.0	-	-	23.1	b/	b/	40.2	35.4	-	b/	75.6
1993	7.6	5.4	5.8	3.7	2.9	-	25.4	b/	-	7.0	25.5	26.7	-	59.1
1994	0.4	4.0	b/	-	-	-	4.5	-	-	-	-	-	-	-
1995	0.7	-	b/	8.8	-	-	9.5	-	-	-	30.8	-	-	30.8
1996	1.5	2.0	0.4	4.9	3.6	-	12.3	-	-	-	4.6	13.9	-	18.5
1997	0.8	7.5	-	4.6	1.1	-	14.0	-	-	-	11.3	4.3	-	15.7
1998	5.2	4.4	-	3.6	1.1	-	14.4	-	-	-	3.8	4.1	-	7.9
1999	2.5	17.1	-	4.1	3.6	-	27.4	-	-	-	13.2	20.2	-	33.4
2000	2.9	3.0	0.2	1.5	-	-	7.6	-	-	-	22.2	-	-	22.2
2001	2.4	14.7	5.3	3.0	2.7	-	28.1	-	-	8.4	28.3	20.8	-	57.5
2002	5.3	10.9	11.9	8.0	3.1	-	39.1	-	-	3.6	4.6	9.3	-	17.5
2003	2.6	13.0	12.8	5.1	1.1	-	34.7	-	-	4.3	4.3	2.3	-	10.9
2004 ^{e/}	10.1	16.7	10.5	6.9	5.0	-	49.2	-	-	15.9	36.7	9.1	-	61.7

TABLE A-25. U.S./Canada border to Cape Falcon commercial troll chinook and coho landings in numbers of fish by catch area and month.^{a/} (Page 4 of 4)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
	CHINOOK (thousands)							COHO (thousands)						
U.S./Canada Border to Cape Falcon - Total Treaty Indian and Non-Indian ^{f/}														
1976-1980	57.0	36.6	60.2	39.0	13.2	0.6	206.6	0.7	76.3	417.9	221.0	84.5	0.6	801.0
1981-1985	39.9	5.6	26.3	6.8	1.2	b/	79.8	0.3	7.4	149.4	71.3	20.3	-	248.6
1986-1990	39.5	15.7	11.5	7.3	2.1	b/	76.1	b/	4.3	48.9	82.8	20.5	0.1	156.6
1991 ^{d/}	19.3	18.5	6.9	6.2	0.7	-	51.6	-	-	39.0	99.6	19.5	-	158.1
1992	31.4	19.8	10.2	7.6	-	-	69.0	b/	b/	51.1	43.7	-	-	94.8
1993	22.2	16.0	8.5	4.7	4.5	-	55.9	b/	-	12.1	30.3	32.3	-	74.7
1994	0.4	4.0	b/	-	-	-	4.5	-	-	-	-	-	-	-
1995	0.7	-	b/	8.8	-	-	9.5	-	-	-	49.1	7.1	-	56.2
1996	1.5	2.0	0.4	4.9	3.6	-	12.3	-	-	7.1	15.0	13.9	-	36.1
1997	5.4	9.4	-	4.6	1.1	-	20.5	-	-	-	11.3	4.3	-	15.7
1998	10.9	4.6	-	3.6	1.1	-	20.3	-	-	-	3.8	4.1	-	7.9
1999	6.7	24.2	4.0	6.4	3.6	-	45.0	-	-	0.7	16.2	20.6	-	37.4
2000	9.7	5.9	0.2	4.6	0.2	-	20.6	-	-	-	37.9	1.6	-	39.5
2001	10.8	24.3	11.4	4.8	3.4	-	54.6	-	-	14.5	34.4	26.1	-	75.0
2002	32.1	31.5	32.6	21.4	3.1	-	120.7	-	-	3.6	6.3	9.3	-	19.2
2003	28.0	24.0	29.4	19.9	3.1	-	104.4	-	-	9.6	12.2	4.7	-	26.6
2004 ^{e/}	35.6	17.9	19.0	16.3	7.4	-	96.2	-	-	18.9	43.1	22.3	-	84.3

a/ Monthly totals for Oregon data are the sum of statistical weeks with closest fit to the calendar month. Washington data is summarized by statistical month.

b/ Fewer than 50 fish.

c/ Includes 300 chinook and 2,200 coho landed illegally in 1988.

d/ Includes 100 coho landed illegally.

e/ Preliminary.

f/ Season totals do not include October treaty troll catches.

TABLE A-26. **U.S./Canada border to Cape Falcon commercial troll pink salmon landings** in numbers of fish by catch area and month (odd-year averages),^{ad} (Page 1 of 2)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
PINKS (thousands)							
<u>U.S./Canada Border to Leadbetter Pt. - Non-Indian</u>							
1976-1980	0.6	0.7	94.6	308.7	4.7	-	409.3
1981-1985	0.2	b/	24.2	113.3	0.3	-	138.1
1986-1990	0.1	0.1	0.9	18.5	-	-	19.7
1991	b/	b/	b/	43.2	0.3	-	43.5
1993	b/	b/	0.1	2.7	b/	-	2.9
1995	-	-	-	30.1	0.9	-	30.9
1997	b/	b/	-	-	-	-	b/
1999	-	b/	b/	b/	-	-	0.1
2001	b/	b/	b/	-	-	-	b/
2003 ^{cl}	-	-	0.1	0.1	b/	-	0.2
<u>Treaty Indian^{d/}</u>							
1976-1980	b/	0.8	0.6	1.8	b/	2.4	3.2
1981-1985	b/	0.2	2.3	7.5	0.5	9.6	10.6
1986-1990	b/	b/	9.2	3.9	0.8	11.2	13.9
1991	-	b/	1.9	2.8	-	-	4.6
1993	-	b/	0.3	2.1	0.8	-	3.2
1995	-	-	-	11.1	-	-	11.1
1997	-	-	-	1.7	b/	-	1.7
1999	-	-	-	1.5	0.1	-	1.6
2001	-	-	0.9	1.6	0.2	-	2.6
2003 ^{cl}	-	-	0.2	b/	b/	-	0.2
<u>Total^{d/}</u>							
1976-1980	0.6	1.5	95.3	312.7	4.8	-	414.8
1981-1985	0.3	1.0	26.6	120.8	0.8	-	149.6
1986-1990	0.1	0.1	10.1	22.4	0.8	-	33.6
1991	b/	b/	1.9	46.0	0.3	-	48.2
1993	b/	b/	0.4	4.8	0.8	-	6.1
1995	-	-	-	41.1	0.9	-	42.0
1997	b/	b/	-	1.7	b/	-	1.7
1999	-	b/	b/	1.5	0.1	-	1.6
2001	b/	b/	0.9	1.6	0.2	-	2.6
2003 ^{cl}	-	-	0.3	0.1	b/	-	0.5
<u>Leadbetter Pt. to Cape Falcon - Non-Indian</u>							
1976-1980	b/	b/	3.0	4.0	1.1	-	8.2
1981-1985	b/	b/	0.8	2.3	b/	-	3.2
1986-1990	-	-	0.1	b/	b/	-	0.1
1991	-	-	-	0.2	-	-	0.2
1993	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-
2003 ^{cl}	-	-	b/	b/	-	-	b/

TABLE A-26. **U.S./Canada border to Cape Falcon commercial troll pink salmon landings** in numbers of fish by catch area and month (odd-year averages).^{a/} (Page 2 of 2)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
PINKS (thousands)							
<u>U.S./Canada Border to Cape Falcon - Non-Indian Total</u>							
1976-1980	0.6	0.8	97.7	315.0	5.8	-	419.8
1981-1985	0.2	0.8	25.1	115.7	0.3	-	142.2
1986-1990	0.1	0.1	1.1	18.5	b/	-	19.8
1991	b/	b/	b/	43.4	0.3	-	43.7
1993	b/	b/	0.1	2.7	b/	-	2.9
1995	-	-	-	30.1	0.9	-	30.9
1997	b/	b/	-	-	-	-	b/
1999	-	b/	b/	b/	-	-	0.1
2001	b/	b/	b/	b/	-	-	b/
2003 ^{c/}	-	-	0.2	0.1	b/	-	0.3
<u>Treaty Indian Total^{d/}</u>							
1976-1980	b/	0.8	0.6	1.8	b/	2.4	3.2
1981-1985	b/	0.2	2.3	7.5	0.5	9.6	10.6
1986-1990	b/	b/	9.2	3.9	0.8	11.2	13.9
1991	-	b/	1.9	2.8	-	-	4.6
1993	-	b/	0.3	2.1	0.8	-	3.2
1995	-	-	-	11.1	-	-	11.1
1997	-	-	-	1.7	b/	-	1.7
1999	-	-	-	1.5	0.1	-	1.6
2001	-	-	0.9	1.6	0.2	-	2.6
2003 ^{c/}	-	-	0.2	b/	b/	-	0.2
<u>Grand Total^{d/}</u>							
1976-1980	0.6	1.6	98.3	316.7	5.8	-	423.0
1981-1985	0.3	1.0	27.5	123.1	0.8	-	152.7
1986-1990	0.1	0.1	10.2	22.4	0.8	-	33.7
1991	b/	b/	1.9	46.2	0.3	-	48.3
1993	b/	b/	0.4	4.8	0.8	-	6.1
1995	-	-	-	41.1	0.9	-	42.0
1997	b/	b/	-	1.7	b/	-	1.7
1999	-	b/	b/	1.5	0.1	-	1.6
2001	b/	b/	0.9	1.6	0.2	-	2.7
2003 ^{c/}	-	-	0.4	0.1	b/	-	0.5

a/ Monthly totals for Oregon data are the sum of statistical weeks with closest fit to the calendar month. Washington data are summarized by statistical month.

b/ Fewer than 50 fish.

c/ Preliminary.

d/ Season totals do not include October treaty troll catches.

TABLE A-27. **U.S./Canada border to Cape Falcon ocean recreational fishing effort** in salmon angler trips by area and month.^{a/}
(Page 1 of 1)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
ANGLER TRIPS (thousands)								
<u>U.S./Canada Border to Leadbetter Pt.^{b/}</u>								
1976-1980	2.9	13.4	42.8	87.4	95.9	33.2	3.6	279.2
1981-1985	0.1	3.1	17.5	44.3	38.9	5.6	0.1	109.6
1986-1990	-	0.5	3.4	46.0	19.6	3.8	c/	73.3
1991	-	-	5.0	54.7	8.9	3.9	-	72.5
1992	0.3	1.0	-	34.9	21.2	9.7	0.7	67.9
1993	c/	1.1	0.1	30.5	27.3	14.2	-	73.2
1994	-	-	-	-	-	-	-	-
1995	-	-	-	4.9	18.0	5.8	-	28.6
1996	-	-	-	4.5	19.8	1.9	-	26.1
1997	-	-	-	11.8	8.1	1.2	-	21.1
1998	-	-	-	-	7.6	0.9	-	8.6
1999	-	-	-	8.9	14.6	6.4	0.2	30.1
2000	-	-	-	18.6	11.2	-	-	29.7
2001	-	-	-	37.8	23.7	9.3	0.2	71.0
2002	-	2.5	13.6	21.4	19.2	1.7	0.1	58.5
2003	-	-	5.9	32.6	28.0	6.2	0.1	72.9
2004 ^{d/}	-	-	2.0	31.9	26.8	7.3	0.0	68.2
<u>Leadbetter Pt. to Cape Falcon</u>								
1976-1980	0.4	5.5	29.4	59.4	87.7	27.0	1.9	211.3
1981-1985	-	0.9	8.7	35.1	30.2	4.9	0.1	80.0
1986-1990	-	0.1	2.2	28.6	27.3	0.7	-	58.9
1991	-	-	4.8	35.0	20.7	6.6	-	67.1
1992	-	-	-	35.4	6.3	4.2	-	45.9
1993	-	-	-	18.6	27.5	19.3	-	65.5
1994	-	-	-	-	-	-	-	-
1995	-	-	-	6.1	19.2	7.9	-	33.2
1996	-	-	-	5.1	11.6	4.5	-	21.2
1997	-	-	-	7.3	3.0	-	-	10.3
1998	-	-	-	-	6.1	0.7	-	6.8
1999	-	-	-	6.5	14.8	6.7	c/	28.1
2000	-	-	-	10.8	13.4	-	-	24.2
2001	-	-	-	31.8	35.4	11.4	-	78.6
2002	-	0.3	1.7	13.0	23.8	9.9	-	48.7
2003	-	-	0.6	20.3	42.1	8.2	-	71.2
2004 ^{d/}	-	-	0.9	16.1	35.0	11.1	0.0	62.4
<u>U.S./Canada Border to Cape Falcon^{b/}</u>								
1976-1980	3.3	18.9	72.2	146.9	183.6	60.2	5.5	490.6
1981-1985	0.1	4.0	26.2	79.4	69.1	10.5	0.3	189.6
1986-1990	-	0.6	5.6	74.6	46.9	4.6	c/	132.2
1991	-	-	9.8	89.8	29.6	10.4	-	139.6
1992	0.3	1.0	-	70.3	27.6	13.8	0.7	113.8
1993	c/	1.1	0.1	49.1	54.9	33.6	-	138.7
1994	-	-	-	-	-	-	-	-
1995	-	-	-	11.0	37.2	13.7	-	61.9
1996	-	-	-	9.6	31.4	6.4	-	47.4
1997	-	-	-	19.1	11.1	1.2	-	31.4
1998	-	-	-	-	13.8	1.6	-	15.4
1999	-	-	-	15.4	29.4	13.2	0.2	58.2
2000	-	-	-	29.4	24.6	-	-	53.9
2001	-	-	-	69.6	59.2	20.6	0.2	149.6
2002	-	2.8	15.3	34.4	43.0	11.7	0.1	107.2
2003	-	-	6.5	52.9	70.1	14.4	0.1	144.1
2004 ^{d/}	-	-	2.9	48.0	61.9	18.5	0.1	131.3

a/ Monthly totals for Oregon data are the sum of statistical weeks with closest fit to the calendar month. Washington data are summarized by statistical month.

b/ Does not include the late-season Washington state-waters Area 4B fishery when open.

c/ Fewer than 50 angler trips.

d/ Preliminary.

TABLE A-28. **U.S./Canada border to Cape Falcon ocean recreational chinook and coho salmon landings** in numbers of fish by area and month.^{a/} (Page 1 of 2)

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)									COHO (thousands)							
<u>U.S./Canada Border to Leadbetter Pt.^{b/}</u>																
1976-1980	1.8	5.8	22.1	21.4	18.6	6.5	0.9	77.1	0.4	13.0	48.8	109.4	99.0	32.8	2.1	305.5
1981-1985	0.1	1.5	13.7	18.8	8.1	0.4	c/	42.6	c/	0.7	10.3	36.9	42.2	6.2	0.1	96.5
1986-1990	-	0.2	1.3	13.1	5.0	0.9	-	20.6	-	c/	2.0	58.1	28.8	5.3	c/	94.2
1991	-	-	1.9	6.6	1.3	0.2	-	9.9	-	-	6.8	89.1	14.5	7.0	-	117.4
1992	c/	0.1	-	8.2	6.0	2.4	0.2	16.9	-	c/	-	30.9	26.3	7.5	0.3	65.0
1993	c/	0.2	c/	2.5	4.1	3.4	-	10.2	-	c/	c/	28.8	30.3	12.5	-	71.6
1994	-	-	-	c/	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	0.2	c/	-	0.2	-	-	-	3.2	27.1	8.7	-	39.0
1996	-	-	-	c/	0.1	c/	-	0.1	-	-	-	6.0	22.3	3.0	-	31.3
1997	-	-	-	1.7	1.6	0.3	-	3.6	-	-	-	7.0	6.7	0.4	-	14.2
1998	-	-	-	-	1.5	0.2	-	1.8	-	-	-	-	7.2	1.1	-	8.3
1999	-	-	-	2.7	3.6	1.3	c/	7.6	-	-	-	6.2	11.5	2.8	0.1	20.5
2000	-	-	-	4.6	2.4	-	-	6.9	-	-	-	23.1	14.8	-	-	37.9
2001	-	-	-	13.6	3.2	0.9	0.1	17.9	-	-	-	43.0	33.4	14.2	-	90.6
2002	-	2.6	15.2	22.0	9.9	0.1	c/	49.8	-	c/	0.3	10.3	17.2	1.3	c/	29.1
2003	-	-	2.7	13.0	10.8	1.9	0.1	28.4	-	-	3.6	25.6	27.6	5.7	c/	62.4
2004 ^{d/}	-	-	0.5	9.0	6.9	1.6	c/	18.2	-	-	1.5	22.6	27.5	9.7	c/	61.6
<u>Leadbetter Pt. to Cape Falcon</u>																
1976-1980	0.2	2.8	12.4	11.6	23.8	3.8	0.2	54.6	0.2	6.5	53.3	89.9	86.9	31.0	2.0	269.8
1981-1985	-	0.1	3.5	7.0	6.2	0.6	c/	17.4	-	1.4	11.8	52.8	36.5	7.0	0.2	109.7
1986-1990	-	c/	0.3	2.8	4.5	c/	-	7.6	-	-	4.3	48.9	37.8	0.8	-	91.8
1991	-	-	0.3	1.5	1.5	0.1	-	3.3	-	-	7.9	62.2	33.6	10.9	-	114.6
1992	-	-	-	1.2	0.6	0.2	-	2.0	-	-	-	55.3	9.5	4.4	-	69.2
1993	-	-	-	1.0	1.8	0.7	-	3.5	-	-	-	22.3	31.4	13.6	-	67.3
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	0.1	0.3	c/	-	0.4	-	-	-	6.0	22.9	7.6	-	36.4
1996	-	-	-	c/	0.1	c/	-	0.1	-	-	-	7.2	13.9	3.8	-	24.8
1997	-	-	-	0.3	0.2	-	-	0.5	-	-	-	11.8	5.1	-	-	16.9
1998	-	-	-	-	0.4	0.1	-	0.4	-	-	-	-	6.0	0.5	-	6.5
1999	-	-	-	0.7	2.1	0.4	-	3.3	-	-	-	7.6	12.8	6.6	c/	27.1
2000	-	-	-	1.2	1.1	-	-	2.3	-	-	-	18.2	21.4	-	-	39.6
2001	-	-	-	3.6	3.4	0.7	-	7.7	-	-	-	50.5	51.7	14.5	-	116.7
2002	-	0.1	2.3	4.9	3.4	0.1	-	10.8	-	-	c/	14.5	31.5	13.3	-	59.4
2003	-	-	0.1	2.0	5.2	0.8	-	8.1	-	-	0.7	32.6	63.6	9.5	-	106.4
2004 ^{d/}	-	-	c/	1.0	5.4	2.3	-	8.4	-	-	1.3	23.7	40.6	8.1	-	73.5

TABLE A-28. U.S./Canada border to Cape Falcon ocean recreational chinook and coho salmon landings in numbers of fish by area and month.^{a/} (Page 2 of 2)

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
	CHINOOK (thousands)								COHO (thousands)							
North of Cape Falcon																
1976-1980	1.9	8.7	34.5	33.0	42.3	10.3	1.1	131.8	0.6	19.5	102.2	199.3	185.9	63.8	4.1	575.4
1981-1985	0.1	1.7	17.2	25.7	14.3	1.1	c/	60.0	c/	2.1	22.1	89.8	78.7	13.2	0.3	206.2
1986-1990	-	0.2	1.6	15.9	9.5	1.0	-	28.2	-	c/	6.3	107.0	66.6	6.2	c/	186.0
1991	-	-	2.2	8.1	2.8	0.3	-	13.3	-	-	14.7	151.3	48.2	17.9	-	232.0
1992	c/	0.1	-	9.3	6.6	2.6	0.2	18.9	-	c/	-	86.2	35.8	11.8	0.3	134.1
1993	c/	0.2	c/	3.4	5.9	4.1	c/	13.6	c/	c/	c/	51.1	61.7	26.2	-	139.0
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	0.1	0.4	0.1	-	0.6	-	-	-	9.2	50.0	16.3	-	75.4
1996	-	-	-	c/	0.1	c/	-	0.2	-	-	-	13.1	36.2	6.8	-	56.1
1997	-	-	-	2.0	1.8	0.3	-	4.1	-	-	-	18.8	11.8	0.4	-	31.1
1998	-	-	-	-	1.9	0.3	-	2.2	-	-	-	-	13.3	1.6	-	14.8
1999	-	-	-	3.4	5.7	1.7	c/	10.8	-	-	-	13.8	24.4	9.4	0.1	47.7
2000	-	-	-	5.8	3.5	-	-	9.2	-	-	-	41.3	36.2	-	-	77.5
2001	-	-	-	17.3	6.6	1.6	0.1	25.6	-	-	-	93.5	85.1	28.6	-	207.3
2002	-	2.6	17.5	26.9	13.3	0.2	c/	60.6	-	c/	0.3	24.9	48.7	14.7	c/	88.5
2003	-	-	2.7	15.0	16.0	2.7	0.1	36.5	-	-	4.3	58.1	91.2	15.2	c/	168.8
2004 ^{d/}	-	-	0.5	10.1	12.4	3.9	c/	26.6	-	-	2.8	46.4	68.2	17.8	c/	135.1

a/ Monthly totals for Oregon data are the sum of statistical weeks with closest fit to the calendar month. Washington data are summarized by statistical month.

b/ Does not include the late-season Washington state-waters Area 4B fishery.

c/ Fewer than 50 fish.

d/ Preliminary.

TABLE A-29. **U.S./Canada border to Cape Falcon** ocean recreational pink salmon landings in numbers of fish by area and month (odd-year averages).^{a/} (Page 1 of 1)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
PINKS (thousands)								
<u>U.S./Canada border to Leadbetter Pt.^{b/}</u>								
1976-1980	c/	0.2	1.3	8.8	12.0	0.4	c/	22.7
1981-1985	-	c/	0.1	1.3	4.2	0.2	c/	5.7
1986-1990	-	-	c/	1.2	0.4	-	-	1.6
1991	-	-	-	0.6	c/	c/	-	0.6
1993	-	-	-	0.7	0.7	c/	-	1.4
1995	-	-	-	c/	1.1	c/	-	1.2
1997	-	-	-	0.7	0.1	c/	-	0.9
1999	-	0.0	0.0	0.9	1.3	0.1	0.0	2.2
2001	-	-	-	2.6	1.2	c/	-	3.9
2003 ^{d/}	-	-	c/	6.8	6.4	0.1	-	13.4
<u>Leadbetter Pt. to Cape Falcon</u>								
1976-1980	-	0.2	0.1	0.5	0.3	c/	-	1.1
1981-1985	-	c/	c/	0.1	0.2	-	-	0.2
1986-1990	-	-	-	0.1	c/	c/	-	0.1
1991	-	-	-	0.1	c/	c/	-	0.1
1993	-	-	-	c/	c/	-	-	c/
1995	-	-	-	c/	-	-	-	c/
1997	-	-	-	-	-	-	-	-
1999	-	-	-	0.0	c/	0.0	-	c/
2001	-	-	-	c/	c/	c/	-	c/
2003 ^{d/}	-	-	-	c/	c/	c/	-	c/
<u>U.S./Canada border to Cape Falcon</u>								
1976-1980	c/	0.4	1.4	9.3	12.4	0.4	c/	23.8
1981-1985	-	c/	0.1	1.3	4.4	0.2	c/	6.0
1986-1990	-	-	c/	1.2	0.4	c/	-	1.7
1989	-	-	-	1.5	0.1	c/	-	1.6
1991	-	-	-	0.6	0.1	c/	-	0.7
1993	-	-	-	0.7	0.7	c/	-	1.4
1995	-	-	-	0.1	1.2	c/	-	1.2
1997	-	-	-	0.7	0.1	c/	-	0.9
1999	-	-	-	0.9	1.3	0.1	-	2.2
2001	-	-	-	2.6	1.3	c/	-	3.9
2003 ^{d/}	-	-	c/	6.8	6.4	0.2	-	13.4

a/ Monthly totals for Oregon data are the sum of statistical weeks with closest fit to the calendar month. Washington data are summarized by statistical month.

b/ Does not include the late-season Washington state waters Area 4B fishery.

c/ Fewer than 50 fish.

d/ Preliminary.

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 numbers of fish.^{a/}

Year or Average	Lower Sacramento River										Sacramento River		San Joaquin River		Central Valley Totals	
	Upper Sacramento River		Feather River		Yuba River		American River		Total		Totals		Totals		Central Valley Totals	
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1971-1975	58,462	18,289	40,221	9,745	10,877	1,615	41,726	3,695	92,824	15,055	151,286	33,344	13,462	1,345	164,748	34,690
1976-1980	67,011	17,905	33,954	3,544	7,387	1,563	28,509	1,344	69,850	6,452	136,861	24,357	2,886	763	139,747	25,120
1981-1985	57,793	22,432	36,252	5,243	12,825	5,146	32,332	4,954	81,409	15,343	139,202	37,775	34,930	10,721	174,132	48,496
1986-1990	87,397	17,244	38,709	6,426	9,261	2,444	24,420	3,323	72,390	12,193	159,787	29,437	10,853	4,377	170,640	33,814
1991	35,258	4,633	28,524	2,821	11,164	2,844	16,456	1,627	56,144	7,292	91,402	11,925	764	153	92,166	12,078
1992	31,734	9,112	19,790	4,315	4,517	1,845	3,416	1,395	27,723	7,555	59,457	16,667	1,094	846	60,551	17,513
1993	55,144	5,409	27,367	3,556	5,818	885	22,227	6,527	55,412	10,968	110,556	16,377	2,659	751	113,215	17,128
1994	66,383	20,371	31,013	7,369	7,046	3,844	28,589	2,931	66,647	14,145	133,030	34,516	4,168	1,253	137,197	35,770
1995	112,234	17,958	56,197	3,715	12,998	1,239	72,056	8,274	141,252	13,227	253,486	31,185	4,445	1,515	257,931	32,700
1996	131,267 ^{b/}	11,650 ^{b/}	44,593	12,577	23,492	4,408	67,719	7,026	135,803	24,012	267,071	35,661	5,766	5,979	272,837	41,640
1997	167,354	13,736	47,009	3,538	19,202	6,746	46,036	6,159	112,246	16,444	279,600	30,180	17,983	1,146	297,583	31,326
1998	60,713 ^{b/}	5,137 ^{b/}	39,600 ^{c/}	3,400	26,737	4,353	41,094	13,698	107,431	21,451	168,144	26,588	13,119	6,292	181,263	32,880
1999	256,629	7,495	30,000 ^{c/}	7,500	18,778	5,452	48,311	8,688	97,089	21,640	353,719	29,135	10,708	7,185	364,427	36,319
2000	152,923	3,900	107,834	6,883	12,954	2,041	93,413	5,646	214,201	14,570	367,124	18,470	36,896	2,578	404,019	21,049
2001	130,440	5,132	169,588	9,114	20,638	1,746	167,062	13,553	357,288	24,413	487,728	29,545	23,899	3,705	511,626	33,251
2002	481,924 ^{d/}	9,009	93,766	11,397	18,406	4,796	95,711	10,634	207,883	26,828	689,806	35,837	21,852	3,788	711,658	39,625
2003	164,802	4,402	84,380	4,440	27,618	1,279	136,238	9,627	248,236	15,346	413,038	19,748	14,497	2,185	427,535	21,933
2004 ^{e/}	70,557	7,221	43,495	4,833	9,260	5,208	79,774	16,339	132,529	26,380	203,086	33,601	5,116	6,161	208,202	39,762

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

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

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

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

e/ Preliminary.

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

Year or Average	Sacramento Hatcheries								San Joaquin Hatcheries						Central Valley Hatchery Totals	
	Coleman ^{b/}		Feather River		Nimbus		Totals ^{c/}		Mokelumne River		Merced River		Totals		Adults	Jacks
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults ^{c/}	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks		
1971-1975	1,373	1,167	3,882	1,387	7,791	1,311	13,661	4,065	305	156	460	19	765	175	14,427	4,240
1976-1980	4,239	1,292	4,261	1,043	7,238	1,990	17,198	4,760	271	59	346	23	617	82	17,814	4,842
1981-1985	11,557	3,734	6,845	884	10,072	2,257	29,832	7,689	759	734	797	449	1,556	1,183	31,388	8,872
1986-1990	11,507	2,288	5,837	1,947	5,685	1,349	23,028	5,584	278	286	299	140	577	426	23,605	6,010
1991	10,031	652	9,227	1,490	6,772	356	26,030	2,498	32	10	32	9	64	19	26,094	2,517
1992	6,257	1,019	10,324	6,116	5,107	1,349	21,688	8,483	264	446	123	245	387	691	22,074	9,175
1993	7,056	531	10,228	1,763	7,342	3,314	24,626	5,608	1,542	622	234	175	1,776	797	26,402	6,405
1994	11,585	7,406	11,341	3,861	7,676	891	30,601	12,159	1,168	751	497	446	1,665	1,197	32,266	13,356
1995	24,810	1,867	11,566	583	5,172	1,326	41,548	3,776	2,378	945	311	291	2,689	1,236	44,237	5,012
1996	18,848	2,330	6,494	1,613	7,177	474	32,519	4,417	1,828	2,055	395	746	2,223	2,801	34,742	7,218
1997	44,590	6,080	13,358	1,770	5,328	322	63,276	8,172	6,305	189	838	108	7,143	297	70,419	8,469
1998	42,400	1,951	17,567	1,322	9,949	1,839	69,915	5,113	2,506	585	347	452	2,853	1,037	72,768	6,150
1999	23,194	3,776	12,822	1,104	6,207	3,553	42,224	8,432	1,610	1,540	650	987	2,260	2,527	44,483	10,960
2000	20,793	866	16,470	1,676	10,312	848	47,575	3,390	4,566	884	1,615	331	6,181	1,215	53,756	4,605
2001	23,710	988	23,809	610	9,688	1,956	57,207	3,554	4,382	1,427	1,137	523	5,519	1,950	62,726	5,504
2002	61,946	4,112	17,516	2,991	6,231	3,586	85,693	10,689	5,800	2,119	1,250	588	7,050	2,707	92,743	13,396
2003	82,708	5,555	13,606	1,352	11,875	3,012	108,189	9,919	5,108	3,009	392	157	5,500	3,166	113,689	13,085
2004 ^{d/}	51,557	16,672	15,762	5,535	12,741	13,659	80,060	35,866	5,471	4,879	456	594	5,927	5,473	85,987	41,339
GOALS ^{e/}	9,000	-	5,000	-	6,000	-	20,000	-	5,000	-	1,000	-	6,000	-	26,000	-

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

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

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

d/ Preliminary.

e/ Hatchery specific goals, not PFMC goals.

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

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

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

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

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

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

e/ Primarily fish spawned at Feather River Hatchery.

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

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

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

i/ Includes Butte Creek spring run estimates.

j/ Jack proportion could not be determined.

k/ Preliminary.

l/ Estimates from mainstem Sacramento River not available.

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

Year or Average	Category	Inriver				Nonlanded Fishery Mortality	Spawning Escapement								
		Total Run	Harvest		Total		Klamath River			Trinity River			Total		
			Indian	Sport			Hatchery	Natural	Total	Hatchery	Natural	Total	Hatchery	Natural	Total
1978-	Adults	63,306	14,621	2,777	17,398	1,329	3,886	21,277	25,163	3,823	15,593	19,416	7,709	36,871	44,579
1980	Jacks	23,731	1,379	3,385	4,764	189	544	8,224	8,768	1,515	8,495	10,010	2,059	16,719	18,778
1981-	Adults	63,230	17,128	5,096	22,224	1,593	8,812	16,313	25,125	2,934	11,354	14,288	11,746	27,667	39,413
1985	Jacks	29,811	1,287	6,447	7,734	243	1,162	6,227	7,389	4,888	9,556	14,444	6,050	15,783	21,833
1986-	Adults	151,203	36,669	15,145	51,814	3,498	13,194	21,543	34,737	11,912	49,242	61,159	25,111	70,785	95,891
1990	Jacks	20,227	446	4,924	5,370	139	1,009	3,460	4,469	2,285	7,964	10,252	3,294	11,423	14,718
1991	Adults	32,670	10,198	3,383	13,581	956	4,002	6,782	10,784	2,482	4,867	7,349	6,484	11,649	18,133
	Jacks	1,755	62	686	748	19	65	336	401	205	382	587	270	718	988
1992	Adults	26,698	5,785	1,002	6,787	523	3,581	4,889	8,470	3,779	7,139	10,918	7,360	12,028	19,388
	Jacks	13,693	366	4,120	4,486	116	3,737	2,580	6,317	211	2,563	2,774	3,948	5,143	9,091
1993	Adults	57,212	9,636	3,172	12,808	903	20,828	15,953	36,781	815	5,905	6,720	21,643	21,858	43,501
	Jacks	7,598	175	1,925	2,100	54	883	1,360	2,243	736	2,465	3,201	1,619	3,825	5,444
1994	Adults	63,983	11,692	1,832	13,524	1,054	13,808	21,427	35,235	3,264	10,906	14,170	17,072	32,333	49,405
	Jacks	14,371	293	2,556	2,849	77	758	3,740	4,498	4,442	2,505	6,947	5,200	6,245	11,445
1995	Adults	222,768	15,557	6,081	21,638	1,477	22,681	83,918	106,599	15,178	77,876	93,054	37,859	161,794	199,653
	Jacks	22,774	557	4,420	4,977	138	259	8,062	8,321	76	9,262	9,338	335	17,324	17,659
1996	Adults	175,773	56,476	12,766	69,242	5,172	13,622	38,680	52,302	6,411	42,646	49,057	20,033	81,326	101,359
	Jacks	9,532	190	2,312	2,502	64	543	1,696	2,239	249	4,478	4,727	792	6,174	6,966
1997	Adults	83,736	12,087	5,676	17,763	1,167	13,275	34,637	47,912	5,387	11,507	16,894	18,662	46,144	64,806
	Jacks	7,993	35	2,409	2,444	52	452	1,380	1,832	820	2,845	3,665	1,272	4,225	5,497
1998	Adults	90,647	10,187	7,710	17,897	1,043	14,923	18,028	32,951	14,296	24,460	38,756	29,219	42,488	71,707
	Jacks	4,639	53	1,108	1,161	28	403	881	1,284	192	1,974	2,166	595	2,855	3,450
1999	Adults	51,048	14,660	2,282	16,942	1,322	9,290	11,704	20,994	5,037	6,753	11,790	14,327	18,457	32,784
	Jacks	19,248	271	1,616	1,887	57	4,830	6,293	11,123	2,027	4,154	6,181	6,857	10,447	17,304
2000	Adults	218,077	29,415	5,650	35,065	2,673	71,635	59,260	130,895	25,976	23,468	49,444	97,611	82,728	180,339
	Jacks	10,246	303	1,582	1,885	58	839	3,018	3,857	1,070	3,376	4,446	1,909	6,394	8,303
2001	Adults	187,332	38,645	12,134	50,779	3,608	37,204	41,842	79,046	17,908	35,991	53,899	55,112	77,833	132,945
	Jacks	11,343	399	1,500	1,899	66	1,364	6,411	7,775	267	1,336	1,603	1,631	7,747	9,378
2002	Adults	160,788 ^{a/}	24,574	10,495	35,069	2,351	23,667	54,225	77,892	3,516	11,410	14,926	27,183	65,635	92,818
	Jacks	9,226	126	870	996	29	1,294	1,529	2,823	1,037	2,338	3,375	2,331	3,867	6,198
2003	Adults	191,949	30,034	9,680	39,714	2,808	31,970	55,423	87,393	29,812	32,219	62,031	61,782	87,642	149,424
	Jacks	3,845	44	814	858	21	290	848	1,138	574	1,254	1,828	864	2,102	2,966
2004 ^{b/}	Adults	79,043	25,574	3,959	29,509	2,303	10,582	10,959	21,541	12,399	13,287	25,686	22,981	24,246	47,227
	Jacks	9,709	165	2,690	2,855	69	937	891	1,828	1,044	3,916	4,960	1,981	4,807	6,788
GOAL	Adults														≥35,000

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

b/ Preliminary.

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

Year	Area	Spring Run			Fall Run		
		Jack	Adult	Total	Jack	Adult	Total
2000	Commercial:Estuary	-	33	33	-	4,104	4,104
	Middle Klamath	-	2	2	-	186	186
	Upper Klamath	-	1	1	-	813	813
	Subsistence:Estuary	5	1,739	1,744	35	13,174	13,209
	Middle Klamath	0	509	509	29	1,049	1,078
	Upper Klamath	8	909	917	111	4,127	4,238
	Trinity River	29	1,325	1,354	128	5,962	6,090
	Total	42	4,518	4,560	303	29,415	29,718
2001	Commercial:Estuary	79	4,637	4,716	63	7,011	7,074
	Upper Klamath	1	58	59	1	51	52
	Subsistence:Estuary	152	8,846	8,998	198	21,956	22,154
	Middle Klamath	0	134	134	28	1,697	1,725
	Upper Klamath	19	1,504	1,523	49	2,976	3,025
	Trinity River	46	4,164	4,210	60	4,954	5,014
	Total	297	19,343	19,640	399	38,645	39,044
	2002	Commercial:Estuary	7	1,852	1,859	7	8,952
Upper Klamath		-	-	-	-	-	-
Subsistence:Estuary		25	6,551	6,576	10	11,197	11,207
Middle Klamath		70	1,310	1,380	10	729	739
Upper Klamath		24	2,205	2,229	31	2,528	2,559
Trinity River		40	3,052	3,062	68	1,168	1,236
Total		166	14,970	15,136	126	24,574	24,700
2003	Commercial:Estuary	4	779	783	12	17,083	17,095
	Upper Klamath	0	0	0	0	0	0
	Subsistence:Estuary	10	1,800	1,810	4	5,604	5,608
	Middle Klamath	0	2,355	2,355	5	1,376	1,381
	Upper Klamath	0	1,730	1,730	11	3,200	3,211
	Trinity River	7	2,380	2,387	12	2,771	2,783
Total	21	9,044	9,065	44	30,034	30,078	
2004 ^{a/}	Commercial:Estuary	2	408	410	13	14,251	14,264
	Upper Klamath	0	0	0	13	547	560
	Subsistence:Estuary	10	2,178	2,188	60	6,605	6,665
	Middle Klamath	6	2,346	2,352	14	577	591
	Upper Klamath	11	1,715	1,726	46	1,959	2,005
	Trinity River	62	1,944	2,006	19	1,635	1,654
Total	91	8,591	8,682	165	25,574	25,739	

a/ Preliminary.

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

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

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

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

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

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

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

f/ Preliminary.

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

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

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

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

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

d/ Total run size estimate including jacks and adults.

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

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

g/ Preliminary.

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

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	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1961-1965	6	1	-	-	22	1	-	-
1966-1970	31	3	-	-	36	2	-	-
1971-1975	5	0	211	12	25	2	130	7
1976-1980	2	1	124	32	18	1	65	14
1981-1985	24	2	62	10	13	1	45	6
1986-1990	9 ^{a/}	1 ^{a/}	58	12	10	2	35	7
1991	3	2	75	5	10	1	40	4
1992	9	0	44	13	16	1	31	6
1993	10	7	69	19	7	2	39	13
1994	29	31	71	8	30	4	59	20
1995	8	4	111	7	18	1	61	5
1996	81	9	79	7	27	5	85	10
1997	17	1	60	5	41	1	41	3
1998	46	11	52	3	19	2	53	7
1999	58	3	12	0	10	0	36	1
2000	26	3	63	6	11	1	45	5
2001	25	2	49	2	9	3	38	3
2002	62	7	70	3	15	0	67	5
2003	20	7	28	5	12	1	27	6
2004 ^{b/}	97	19	29	4	11	1	62	11

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

b/ Preliminary.

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

Year	Gold Ray Dam, Rogue River ^{a/}				Winchester Dam, Umpqua River ^{a/}			
	Natural	Hatchery	Total	Jacks ^{b/}	Natural	Hatchery	Total	Jacks ^{b/}
1942-1945	35.1	-	35.1	4.9	-	-	-	-
1946-1950	24.7	-	24.7	3.0	2.7	-	2.7	0.5
1951-1955	21.4	-	21.4	4.2	4.2	0.9	4.9	1.0
1956-1960	19.8	-	19.8	3.4	4.4	0.9	5.4	0.7
1961-1965	37.7	-	37.7	6.4	6.4	1.8	8.2	1.8
1966-1970	33.9	-	33.9	5.5	7.2	4.5	11.8	3.2
1971-1975	26.0	0.8	26.8	5.0	7.3	6.2	13.5	3.8
1976-1980	25.8	6.3	32.1	7.0	5.8	3.9	9.7	3.2
1981-1985	16.4	6.2	22.6	7.3	5.2	3.5	8.7	2.5
1986-1990	28.5	39.2	67.7	14.9	7.5	4.1	11.6	2.5
1991	9.3	3.0	12.3	2.4	2.4	1.8	4.2	0.6
1992	2.2	3.6	5.8	1.3	2.5	2.5	5.0	0.9
1993	12.6	13.5	26.1	6.8	3.8	2.1	5.9	1.2
1994	3.6	10.5	14.1	2.6	2.8	2.5	5.3	1.1
1995	20.7	61.2	81.9	6.2	6.2	3.6	9.8	1.9
1996	10.3	26.3	36.6	3.4	4.3	2.2	6.5	1.0
1997	9.6	32.2	41.8	2.8	3.3	2.5	5.8	16.0
1998	3.7	12.3	16.0	2.8	4.0	2.9	6.9	1.5
1999	6.0	15.0	21.0	1.9	2.8	4.6	7.4	3.1
2000	3.4	26.8	30.2	3.1	3.4	9.2	12.6	4.6
2001 ^{c/}	9.3	23.9	33.2	2.3	6.1	14.6	20.7	4.7
2002 ^{c/}	7.0	40.8	47.8	3.2	6.8	17.3	24.1	3.1
2003 ^{c/}	19.3	22.6	41.9	3.0	7.9	12.3	20.2	4.1
2004 ^{c/}	13.3	26.0	39.3	3.8	5.4	10.1	15.5	2.5

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

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

c/ Preliminary.

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

Year	Carcass Counts		
	Adults	Jacks	Combined
1977-1980	5,256	1,004	6,260
1981-1985	3,906	1,009	4,915
1986-1990	17,253	1,071	18,324
1991	2,799	157	2,956
1992	2,366	464	2,830
1993	5,447	257	5,704
1994	7,366	529	7,895
1995	3,921	173	4,094
1996	2,448	121	2,569
1997	1,643	68	1,711
1998	3,601	40	3,641
1999	2,493	157	2,650
2000	3,366	226	3,592
2001	6,380	772	7,152
2002	11,836	905	12,741
2003	14,620	983	15,603
2004 ^{a/}	5,326 ^{b/}	250	5,576

a/ Preliminary.

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

TABLE B-11. Peak counts for north migrating Oregon coastal chinook stocks on selected fall chinook spawning index stream surveys.

Year or Average	River Tributaries																			Index Fish Per Mile	
	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)				
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	
1961-1965	95	22	116	25	72	5	59	13	43	13	28	9	61	15	2	1	23	13	54	13	
1966-1970	57	3	93	27	47	6	30	5	61	13	26	16	134	40	6	1	26	9	52	13	
1971-1975	101	26	55	5	55	4	40	5	64	8	17	3	94	49	18	13	15	5	50	14	
1976-1980 ^{a/}	143	12	61	6	32	2	47	5	127	23	22	3	166	37	31	28	39	12	73	14	
1981-1985	163	18	95	9	78	6	55	2	178	24	47	6	149	31	21	2	45	7	89	11	
1986-1990	136	4	154	8	118	3	54	2	240	25	100	6	427	44	13	5	49	6	140	11	
1991	43	0	135	10	91	3	58	6	187	17	36	2	701	27	4	1	123	12	150	8	
1992	90	4	200	15	76	7	73	1	137	6	66	9	521	32	10	5	92	6	138	9	
1993	50	0	46	1	24	1	17	0	136	7	15	1	106	7	113	10	73	2	63	3	
1994	83	5	36	1	201	2	113	2	b/	b/	46	4	300	19	73	14	86	6	125	7	
1995	57	3	41	4	124	1	41	0	b/	b/	59	4	346	5	43	6	46	1	101	3	
1996	86	2	60	0	40	0	122	0	b/	b/	62	2	614	29	92	3	29	3	147	5	
1997	162	1	47	1	24	1	60	0	b/	b/	49	3	325	9	12	0	108	3	105	2	
1998	93	2	42	1	42	0	83	3	b/	b/	78	0	176	2	29	11	191	7	98	3	
1999	116	3	38	1	60	2	36	3	b/	b/	55	5	478	14	14	3	136	8	124	6	
2000	175	3	40	3	32	2	63	1	b/	b/	38	3	205	18	5	0	83	9	85	5	
2001	220	4	62	6	53	7	195	3	b/	b/	95	6	711	49	30	5	153	22	203	14	
2002	311	1	137	3	124	1	221	1	b/	b/	114	6	834	22	51	12	218	9	268	7	
2003	215	6	135	5	27	1	120	3	b/	b/	145	1	1,230	37	209	31	147	2	297	11	
2004 ^{c/}	196	3	71	1	76	1	19	0	b/	b/	76	5	986	17	40	4	101	5	209	5	

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

b/ Survey discontinued; landowner would not allow access.

c/ Preliminary.

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

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

a/ Includes some upriver origin spring chinook through 1980. Beginning in 1981, the lower river catch of lower river spring chinook is based on mark recoveries rather than timing of the catch as in previous years. Since 1986, GSI and VSI techniques have been used for stock composition analysis. Includes catch from Select Area fisheries.

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

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

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

e/ Preliminary.

TABLE B-13. Estimates of inriver run size, catch, and escapement in numbers of Columbia River adult spring chinook destined for areas above Bonneville Dam.

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

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

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

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

d/ Priest Rapids Dam count.

e/ Preliminary.

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

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

a/ Includes estimated miscellaneous fishery-related impacts from test fisheries, commercial shad fisheries, and terminal area commercial gillnet fisheries beginning in 1979. Includes catch and release mortality in selective fisheries beginning in 2002.

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

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

d/ Priest Rapids Dam count.

e/ Preliminary.

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

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

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

b/ Includes Select Area fisheries.

c/ Does not include strays to hatcheries below Bonneville Dam. Includes fall chinook tules trapped at Bonneville Dam, 1986-1994 and 1998.

d/ Preliminary.

e/ Escapement goal was changed from 8,200 fish to 7,000 fish, or 4,000 females, in 1994.

TABLE B-16. Estimates of inriver run size, catch, and escapement in thousands of Columbia River adult lower river hatchery (LRH) stock fall chinook.

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

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

b/ Includes Select Area fisheries.

c/ Includes tributary catches.

d/ Does not include strays to hatcheries above Bonneville Dam or fish trapped at Bonneville Dam.

e/ Preliminary

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

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

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

b/ Includes tributary catches.

c/ Preliminary.

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

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

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

a/ Based on Columbia River fall chinook database, WDFW, unpublished. Does not include hatchery URB chinook reared and released below McNary Dam.

b/ Includes tributary and mainstem catches.

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

d/ Adjusted for stray hatchery fish.

e/ Preliminary.

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

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

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

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

b/ Includes tributary and mainstem catches.

c/ Little White Salmon and Bonneville Hatcheries.

d/ Preliminary.

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

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

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

b/ Includes Youngs Bay, Tongue Point, and Blind Slough/Knapka 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.^{a/}

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

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

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

c/ Includes hatcheries operated by all agencies.

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

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

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

g/ Preliminary.

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

Year	Angler Trips	Catch		Catch Per Trip
		Chinook	Coho	
1982	17,336	723	18,857	1.13
1983	7,128	604	3,574	0.59
1984	67,365	12,177	74,370	1.28
1985	32,156	2,655	25,387	0.87
1986	102,190	15,600	120,422	1.33
1987	124,594	42,100	47,170	0.72
1988	186,051	30,770	143,417	0.94
1989 ^{b/}	160,692	16,884	85,110	0.63
1990 ^{c/}	79,636	5,179	18,429	0.30
1991 ^{d/}	171,680	11,647	208,638	1.28
1992	115,481	10,655	43,082	0.47
1993	75,774	5,288	20,932	0.35
1994	9,253	0	1,795	0.19
1995	25,186	853	5,026	0.23
1996	18,034	1,409	4,537	0.33
1997	55,725	13,153	20,357	0.60
1998	29,998	5,784	3,175	0.30
1999	49,581	9,850	8,861	0.38
2000 ^{e/}	72,518	6,085	21,478	0.38
2001 ^{e/}	125,884	12,709	132,038	1.15
2002 ^{e/}	84,457	19,441	6,233	0.30
2003 ^{e/}	88,827	16,316	54,440	0.80
2004 ^{e/f/}	69,135	16,158	15,322	0.46

a/ Prior to 1982, Buoy 10 area catches were not estimated separately and are included in the Columbia River marine area (Cape Falcon to Leadbetter Pt.) recreational catches. Estimates include bank anglers fishing from Clatsop Spit in Oregon and from the North Jetty in Washington. Effort and catch for the North Jetty fishery applied to the ocean quota for the Columbia River area until the ocean fishery closed.

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

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

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

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

f/ Preliminary.

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

Year or Average	Non-local Stocks	Terminal Catch		Spawning Escapement		Terminal Run
	Gillnet Catch ^{a/}	Gillnet	Sport ^{b/}	Natural ^{c/}	Hatchery	Size ^{d/}
1976-1980	8,660	14,146	419	2,378	4,147	21,090
1981-1985	1,011	9,087	589	2,082	4,890	16,648
1986-1990	2,521	18,128	1,578	13,436	14,615	47,757
1991	1,658	25,658	1,932	7,490	11,539	46,619
1992	1,226	36,679	2,190	13,111	12,165	64,145
1993	603	31,194	5,370	6,291	12,530	55,385
1994	0	22,130	2,801	4,896	11,124	40,951
1995	0	25,476	2,928	10,160	10,448	49,012
1996	0	36,983	3,024	6,297	7,695	53,999
1997	0	12,309	2,404	11,014	6,492	32,219
1998	0	6,765	2,178	7,095	4,677	20,715
1999	0	265	1,885	3,462	4,814	10,426
2000	0	5,922	1,445	8,195	4,620	20,182
2001	0	5,459	2,117	5,468	6,802	19,846
2002	36	9,416	2,532	6,509	8,872	27,329
2003	220	7,479	3,242	9,699	7,403	27,823
2004 ^{e/}	-	4,345	NA	NA	7,550	NA
GOAL				4,400 ^{f/}	9,800 ^{f/}	

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

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

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

d/ Does not include non-local stocks catch.

e/ Preliminary.

f/ Not an FMP goal.

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

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

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

f/ Preliminary

g/ Not an FMP goal.

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

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

(continued)

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

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

a/ Age-3 and older.

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

c/ Includes naturally spawning fish taken for broodstock.

d/ Minimum estimate due to incomplete estimates of river recreational catch. Does not include non-local catch.

e/ Fewer than 50 fish.

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

g/ Preliminary.

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

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

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

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

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

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

c/ Preliminary.

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

Year or Average	Spring/Summer		Chum	Sockeye
	Chinook ^{a/}	Fall Chinook ^{a/}		
1976-1980	149	4,320	7,960	17,560
1981-1985	114	5,100	4,720	12,600
1986-1990	338	8,822	4,686	11,218
1991	109	6,304	2,565	5,566
1992	142	7,512	2,566	8,801
1993	126	6,695	5,259	32,077
1994	85	6,878	1,449	963
1995	26	4,076	687	207
1996	41	5,221	594	1,244
1997	19	2,625	1,033	2,532
1998	75	6,124	4,699	3,440
1999	10	4,840	599	73
2000	0	3,421	755	0
2001	5	4,047	2,009	0
2002 ^{b/}	36	4,542	1,151	16,939
2003 ^{b/}	92	7,343	3,742	37,130
2004 ^{b/}	142	10,661	2,916	6,973

a/ Preliminary. Stock separation under review.

b/ Preliminary.

TABLE B-28. Estimated inriver run size, catch and escapement for Quinault River coho in numbers of fish.

Year or Average	Terminal Catch ^{a/}			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport	Natural	Hatchery	Natural	Hatchery	Total
1977-1980	9,750	-	-	3,425	3,107	8,465	7,750	16,215
1981-1985	10,700	-	-	3,237	6,239	7,809	12,657	20,466
1986-1990	13,777	-	-	3,185	4,239	8,024	13,200	21,224
1991	21,506	-	-	9,250	22,531	13,166	38,517	51,683
1992	5,214	-	-	4,617	4,855	6,682	7,771	14,453
1993	6,020	-	-	1,940	5,688	3,077	10,057	13,134
1994	1,564	-	-	820	1,299	1,278	2,047	3,325
1995	5,513	-	-	4,969	5,858	6,824	8,970	15,794
1996	10,087	-	-	13,327	9,521	18,849	13,865	32,714
1997	365	-	-	3,150	1,054	3,339	1,118	4,457
1998	5,946	-	-	3,770	3,158	7,156	5,581	12,737
1999	15,491	-	-	12,666	14,617	19,138	23,101	42,239
2000	16,194	-	-	7,421	9,481	14,559	18,099	32,658
2001	25,348	-	-	21,565	30,689	30,016	47,115	77,131
2002 ^{b/}	19,197	-	-	12,213	16,841	16,847	30,196	47,043
2003 ^{b/}	22,558	-	-	3,495	9,857	5,538	21,526	27,064
2004 ^{b/}	17,071	-	-	NA	NA	NA	NA	NA
GOAL				Hatchery Production				

a/ Ceremonial, subsistence, and recreational catch negligible. Includes dip-in fish destined for other river systems.

b/ Preliminary.

TABLE B-29. Estimated inriver run size, catch, and escapement of Queets River spring/summer chinook in numbers of fish.

Year or Average	Terminal Catch			Escapement		Terminal Run Size		Total
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}	Natural ^{b/}	Hatchery	Natural	Hatchery	
1976-1980	267	18	53	851	24	1,176	37	1,078
1981-1985	243	20	27	890	31	956	44	1,209
1986-1990	646	46	67	1,527	0	2,287	0	2,287
1991	112	9	10	630	0	761	0	761
1992	104	11	15	375	0	505	0	505
1993	46	3	26	713	0	788	0	788
1994	21	1	0	705	0	727	0	725
1995	35	2	0	625	0	662	0	662
1996	43	3	69	776	0	891	0	891
1997	72	10	71	540	0	693	0	693
1998	18	27	-	492	0	537	0	537
1999	12	41	-	373	0	426	0	426
2000	0	2	-	248	0	250	0	250
2001	0	17	-	548	0	565	0	565
2002	0	17	-	738	0	755	0	755
2003 ^{c/}	0	6	-	189	0	195	0	195
2004 ^{c/}	0	15	201	604	0	619	0	619
GOAL				700 ^{d/}				

a/ River catch of adults.

b/ Natural escapement includes hatchery strays.

c/ Preliminary.

d/ Minimum. Terminal run managed at 30% exploitation rate of inriver run size.

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

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

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

b/ Includes fish taken for hatchery broodstock.

c/ Preliminary.

d/ Minimum. Terminal run managed at 40% exploitation rate of inriver run size.

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

Year or Average	Terminal Catch ^{a/}			Escapement			Terminal Run Size			
	Gillnet	Ceremonial & Subsistence	River Sport ^{b/}	Natural ^{c/}	Supplemental	Hatchery	Natural ^{c/}	Supplemental	Hatchery	Total
1976-1980	2,440	60	140	3,460	-	1,000	5,100	-	1,640	6,740
1981-1985	2,385	20	104	5,457	-	2,654	6,414	-	3,794	10,208
1986-1990	8,455	18	241	4,824	2,128	3,366	6,357	2,988	9,357	17,507
1991	10,345	20	638	6,525	d/	4,129	8,574	d/	12,441	21,015
1992	2,057	20	302	6,266	922	1,402	6,999	998	2,923	10,920
1993	3,897	150	306	5,020	2,208	5,938	5,350	2,482	9,663	17,495
1994	1,612	30	18	1,105	95	2,901	1,242	176	4,222	5,640
1995	4,203	30	103	6,181	592	2,385	7,273	794	5,311	13,378
1996	16,035	30	279	8,993	3,574	5,191	10,715	5,319	17,646	33,680
1997	3,087	30	106	1,851	d/	2,137	1,970	d/	5,086	7,056
1998	7,411	30	135	4,102	1,413	3,504	4,576	1,562	10,364	16,502
1999	3,974	300	119	4,791	521	3,551	5,029	557	7,061	12,647
2000	5,066	30	223	7,939	682	3,849	8,285	698	8,782	17,765
2001	13,722	30	1,554	23,793	1,084	6,594	27,754	2,701	15,477	45,932
2002 ^{e/}	23,712	30	399	13,772	1,048	2,240	16,119	1,306	23,039	40,465
2003 ^{e/}	12,692	30	743	8,594	704	7,394	11,234	923	16,114	28,271
2004 ^{e/}	8,189	30	550	9,785	975	5,086	11,318	1,236	11,024	23,578
GOAL				5,800-14,500						

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

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

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

d/ Included in natural escapement and run size.

e/ Preliminary.

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

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

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

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

c/ Sport fishery closed until July 14.

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

e/ Sport fishery open May 16-Aug 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.

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}	Natural ^{b/}	Hatchery	Natural	Hatchery	Total
1976-1980	760	36	37	2,080	-	2,960	-	2,960
1981-1985	849	36	59	2,745	20	3,684	100	3,764
1986-1990	2,000	32	213	4,500	33	6,819	88	6,907
1991	1,076	15	130	1,420	0	2,628	13	2,641
1992	940	30	184	4,003	0	5,139	18	5,157
1993	1,148	30	416	2,280	0	2,951	91	3,042
1994	687	30	242	3,967	0	4,322	179	4,501
1995	502	30	194	2,202	0	2,912	22	2,934
1996	836	30	192	3,022	0	4,061	19	4,080
1997	1,114	35	164	1,773	0	3,034	52	3,086
1998	846	30	268	4,257	0	5,388	13	5,401
1999	596	30	413	1,924	0	2,941	22	2,963
2000	404	20	479	1,749	0	2,632	20	2,652
2001	946	40	600	2,560	0	4,116	120	4,236
2002 ^{c/}	1,461	30	134	4,415	82	5,716	406	6,122
2003 ^{d/}	517	30	216	1,649	32	2,319	99	2,418
2004 ^{d/}	815	30	NA	1,845	NA	3,078	60	3,138
GOAL				1,200 ^{e/}				

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

b/ Includes fish taken for hatchery brood stock.

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

d/ Preliminary.

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

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

Year or Average	Terminal Catch ^{a/}			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport ^{b/}	Natural ^{c/}	Hatchery	Natural	Hatchery	Total
1976-1980	1,960	74	28	2,700	39	4,683	259	4,942
1981-1985	1,604	48	22	3,371	92	4,655	452	5,107
1986-1990	2,507	30	165	3,145	238	5,221	760	5,981
1991	1,254	20	276	4,129	14	5,370	323	5,693
1992	1,420	30	110	4,045	594	5,010	1,189	6,199
1993	709	30	90	1,345	0	1,874	300	2,174
1994	144	20	123	1,161	0	1,404	44	1,448
1995	478	30	242	4,710	0	5,420	40	5,460
1996	972	50	101	4,858	0	5,835	146	5,981
1997 ^{d/}	85	25	4	1,386	0	1,449	51	1,500
1998	650	20	213	4,418	0	5,184	118	5,302
1999	1,706	25	256	4,594	0	6,293	308	6,601
2000	1,932	20	280	6,772	0	8,831	173	9,004
2001	3,909	40	786	10,773	840	14,801	1,547	16,348
2002 ^{e/}	3,114	30	401	9,009	1,922	11,254	3,222	14,476
2003 ^{f/}	1,872	20	350	6,273	645	8,118	1,021	9,139
2004 ^{f/}	1,248	20	NA	2,069	NA	3,409	89	3,498
GOAL				2,000 to 5,000				

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

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

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

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

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

f/ Preliminary.

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

Year or Average	Terminal Catch			Escapement		Terminal Run Size		Total
	Gillnet	Ceremonial & Subsistence	River Sport ^{d/}	Natural ^{b/}	Hatchery	Natural	Hatchery ^{c/}	
1976-1980	2,520	20	380	2,093	800	--	--	3,698
1981-1985	700	20	48	731	260	--	--	1,164
1986-1990	1,631	22	258	1,602	1,003	3,085	2,503	4,341
1991	1,271	25	381	1,188	781	1,500	2,146	3,646
1992	917	25	295	1,009	1,540	1,271	2,515	3,786
1993	1,237	25	367	1,292	866	1,531	2,256	3,787
1994	570	25	79	974	537	1,187	998	2,185
1995	471	25	341	1,333	438	1,731	877	2,608
1996	136	50	257	1,170	226	1,388	426	1,814
1997	106	50	263	890	198	1,177	305	1,482
1998	199	50	128	1,599	247	1,829	369	2,198
1999	368	50	238	713	596	818	1,147	1,965
2000	254	50	307	989	227	1,149	678	1,827
2001	330	50	353	1,225	973	1,399	1,515	2,914
2002	419	50	367	1,002	836	1,100	1,573	2,673
2003 ^{d/}	184	50	343	1,219	1,250	1,308	1,738	3,046
2004 ^{d/}	220	50	NA	745	763	788	990	1,778
GOAL				1,200 ^{e/}				

a/ Recreational catch of adults.

b/ Natural escapement includes hatchery strays and broodstock fish.

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

d/ Preliminary.

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

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

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

Year or Average	Terminal Catch			Escapement		Terminal Run Size		Total
	Gillnet	Ceremonial & Subsistence	River Sport ^{d/}	Natural ^{b/}	Hatchery ^{c/}	Natural	Hatchery ^{c/}	
1976-1980	2,640	20	220	4,220	144	6,540	640	7,180
1981-1985	2,075	50	131	6,282	77	8,219	305	8,525
1986-1990	5,475	50	564	12,238	112	18,004	379	18,383
1991	951	50	376	6,292	13	7,631	51	7,682
1992	1,208	50	200	6,342	14	7,750	62	7,812
1993	407	50	26	5,254	28	5,735	30	5,765
1994	448	50	262	4,932	0	5,692	0	5,692
1995	552	50	582	5,532	0	6,716	0	6,716
1996	1,377	100	500	7,316	0	9,293	0	9,293
1997	282	50	310	5,405	0	6,047	0	6,047
1998	762	100	326	6,752	0	7,940	0	7,940
1999	1,129	100	195	3,334	0	4,758	0	4,758
2000	604	100	360	3,730	0	4,794	0	4,794
2001	1,650	100	659	5,136	0	7,545	0	7,545
2002	3,074	100	271	6,067	0	9,512	0	9,512
2003 ^{d/}	1,345	100	626	7,398	0	9,469	23	9,492
2004 ^{d/e/}	1,533	100	NA	3,583	0	5,216	NA	5,216
GOAL				3,000 ^{f/}				

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

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

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

d/ Preliminary.

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

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

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

Year or Average	Terminal Catch ^{a/}			Escapement		Terminal Run Size			Total
	Gillnet	Ceremonial & Subsistence	River Sport ^{b/}	Natural ^{c/}	Hatchery ^{d/}	Natural ^{c/}	Hatchery ^{d/}		
SUMMER COHO									
1976-1980	5,038	56	266	1,192	4,565	1,962	9,154	11,116	
1981-1985	4,062	50	105	946	2,744	2,106	5,802	7,908	
1986-1990	3,204	50	94	723	4,001	1,643	6,430	8,072	
1991	2,661	50	319	1,001	9,877	1,280	12,628	13,908	
1992	1,254	50	491	921	15,376	1,022	17,070	18,092	
1993	396	50	63	256	1,654	324	2,095	2,419	
1994	974	50	51	683	1,643	999	2,402	3,401	
1995	1,144	50	29	1,060	3,957	1,318	4,922	6,240	
1996	2,552	50	189	465	3,400	801	5,855	6,656	
1997	70	50	14	753	1,509	798	1,598	2,396	
1998	1,310	50	93	346	1,688	593	2,894	3,487	
1999	945	50	292	624	7,527	723	8,715	9,438	
2000	1,188	50	278	1,001	3,745	1,237	5,025	6,262	
2001	2,196	50	590	961	12,993	1,841	14,949	16,790	
2002 ^{e/}	3,982	50	150	1,012	3,939	2,099	7,034	9,133	
2003 ^{e/}	2,412	50	326	505	6,539	1,472	8,360	9,832	
2004 ^{e/f/}	1,337	50	NA	1,100	9,738	1,649	10,576	12,225	
GOAL	Hatchery Production								
FALL COHO									
1976-1980	5,985	53	70	9,002	2,435	13,959	3,587	17,546	
1981-1985	3,789	49	164	7,464	2,102	10,988	2,580	13,568	
1986-1990	5,794	100	385	8,766	1,771	14,119	2,695	16,815	
1991	2,078	100	626	9,532	7,168	10,648	8,856	19,504	
1992	7,069	100	841	8,170	3,858	13,623	6,415	20,038	
1993	1,318	100	60	4,165	3,746	4,676	4,713	9,389	
1994	2,138	100	307	4,882	3,090	6,415	4,102	10,517	
1995	5,386	100	991	10,035	5,819	14,286	8,045	22,331	
1996	8,419	100	1,336	11,009	11,515	14,596	17,783	32,379	
1997	456	50	38 ^{g/}	4,623	2,645	5,021	2,791	7,812	
1998	4,606	50	1,340	13,866	12,834	16,980	15,716	32,696	
1999	22,946	50	1,054	9,365	13,528	19,524	27,515	47,039	
2000	5,606	50	1,059	13,343	13,118	17,706	15,470	33,176	
2001	23,991	50	2,620	18,876	23,892	36,714	32,715	69,429	
2002	22,214	50	2,002	23,016	30,656	34,695	43,243	77,938	
2003 ^{e/}	13,949	50	2,533	14,756	13,799	25,188	19,899	45,087	
2004 ^{e/f/}	19,314	50	NA	10,601	27,102	20,889	36,187	57,076	
GOAL	6,300-15,800								

- a/ Includes dip-in fish from other systems.
- b/ Recreational catch of adults (coho over 20 inches).
- c/ Natural escapement and run size estimates include fish taken for hatchery brood stock.
- d/ Hatchery escapement and terminal run size exclude hatchery strays.
- e/ Preliminary.
- f/ Terminal run size estimates incomplete since inriver sport catch estimates are unavailable.
- g/ Regulations required nonretention of coho.

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

Year or Average	Fishery	Chinook	Coho	Pink ^{b/}	Chum	Sockeye
1971-1975	Non-Indian	105,332	525,867	1,172,614	331,029	2,158,784
	Treaty Indian	57,672	224,743	61,818	78,266	38,225
	Total	163,005	750,610	1,234,433	409,295	2,197,009
1976-1980	Non-Indian	103,546	413,583	1,050,560	407,859	1,095,603
	Treaty Indian	135,592	492,549	185,831	296,057	277,771
	Total	239,138	906,132	1,236,391	703,916	1,373,374
1981-1985	Non-Indian	72,934	346,125	1,154,851	368,762	928,477
	Treaty Indian	155,966	608,241	829,340	387,951	912,408
	Total	228,899	954,366	1,984,191	756,713	1,840,885
1986-1990	Non-Indian	57,550	470,494	509,445	540,843	964,690
	Treaty Indian	176,966	812,712	590,138	662,215	1,028,361
	Total	234,516	1,283,206	1,099,583	1,203,058	1,993,051
1991	Non-Indian	21,629	196,928	1,578,440	476,214	983,408
	Treaty Indian	120,057	406,801	1,710,032	545,421	844,690
	Total	141,686	603,729	3,288,472	1,021,635	1,828,098
1992	Non-Indian	19,496	98,920	82	618,909	316,113
	Treaty Indian	90,331	292,526	121	763,831	292,140
	Total	109,827	391,446	203	1,382,740	608,253
1993	Non-Indian	19,040	27,305	974,865	587,690	1,328,468
	Treaty Indian	62,719	164,555	1,117,356	540,018	1,365,219
	Total	81,759	191,860	2,092,221	1,127,708	2,693,687
1994	Non-Indian	20,855	24,248	30	561,243	880,632
	Treaty Indian	65,913	438,937	208	802,872	959,599
	Total	86,768	463,185	238	1,364,115	1,840,231
1995	Non-Indian	6,577	24,455	1,366,919	372,923	170,551
	Treaty Indian	73,547	281,100	1,337,021	383,000	243,641
	Total	80,124	305,555	2,703,940	755,923	414,192
1996	Non-Indian	9,046	19,218	2	530,372	50,474
	Treaty Indian	67,061	153,748	58	264,486	286,187
	Total	76,107	172,966	60	794,858	336,661
1997	Non-Indian	21,894	10,454	869,345	229,261	690,236
	Treaty Indian	56,638	133,150	1,007,380	188,850	678,489
	Total	78,532	143,604	1,876,725	418,111	1,368,725
1998	Non-Indian	12,428	12,538	352	505,349	229,313
	Treaty Indian	43,273	148,441	512	320,122	308,446
	Total	55,701	160,979	864	825,471	537,759
1999	Non-Indian	9,512	11,902	1,109	133,404	37
	Treaty Indian	83,686	102,278	51,432	117,763	20,495
	Total	93,198	114,180	52,541	251,167	20,532
2000	Non-Indian	11,468	21,910	9	140,611	230,379
	Treaty Indian	71,551	386,714	346	159,477	315,628
	Total	83,019	408,624	355	300,088	546,007
2001	Non-Indian	18,029	28,299	463,083	824,328	85,112
	Treaty Indian	109,865	366,011	319,553	777,019	170,309
	Total	127,894	394,310	782,636	1,601,347	255,421
2002 ^{d/}	Non-Indian	17,628	24,459	7	1,117,666	141,456
	Treaty Indian	98,251	286,500	327	833,497	339,773
	Total	115,879	310,959	334	1,951,163	481,229
2003 ^{d/}	Non-Indian	8,567	18,105	683,393	764,132	90,618
	Treaty Indian	84,680	244,091	556,943	814,212	183,670
	Total	93,247	262,196	1,240,336	1,578,344	274,288
2004 ^{d/}	Non-Indian	5,043	39,519	4	1,174,862	81,031
	Treaty Indian	98,207	506,160	591	713,294	143,359
	Total	103,250	545,679	595	1,888,156	224,390

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

b/ Odd-year averages for pink salmon.

c/ Fewer than 50 fish.

d/ Preliminary.

TABLE B-39. Summary of Puget Sound marine recreational salmon catch estimates in numbers of fish from catch record cards.^{a/}

Year or Average	Chinook	Coho	Pink ^{b/}
1971-1975	225,650	119,301	14,855
1976-1980	253,763	202,983	47,029
1981-1985 ^{c/}	156,183	196,632	14,910
1986-1990 ^{c/d/e/}	127,860	251,087	40,884
1991 ^{e/f/}	90,566	252,361	44,946
1992 ^{e/f/}	97,733	189,372	384
1993 ^{e/f/}	80,166	135,974	67,575
1994 ^{e/}	48,286	31,801	5
1995 ^{e/}	69,799	78,675	100,570
1996 ^{e/}	72,069	85,139	50
1997 ^{e/}	60,425	137,571	35,197
1998 ^{e/}	26,114	89,520	201
1999 ^{e/}	28,739	22,055	23,780
2000 ^{e/g/}	23,879	74,972	17
2001 ^{e/g/}	44,422	193,493	117,367
2002 ^{e/g/}	30,900	67,333	31
2003 ^{e/g/}	30,936	101,518	148,965
2004 ^{e/g/}	3,710	12	22

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

b/ Odd-year averages for pink salmon.

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

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

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

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

g/ Preliminary.

TABLE B-40. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound chinook stocks.^{a/}

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

(continued)

TABLE B-40. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound chinook stocks.^{af}

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

(continued)

TABLE B-40. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound chinook stocks.^{a/}

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total
(continued)									
Stillaguamish-Snohomish									
1981-1985	2,714	6,915	9,630	1,849	4,901	6,750	4,564	11,816	16,380
1986-1990	932	4,241	5,174	1,134	5,210	6,344	2,066	9,451	11,517
1991	447	3,588	4,035	550	4,415	4,965	997	8,003	9,000
1992	573	2,130	2,703	943	3,488	4,431	1,516	5,618	7,134
1993	814	2,021	2,835	1,929	4,794	6,723	2,743	6,815	9,558
1994	1,497	1,755	3,252	3,904	4,580	8,484	5,401	6,335	11,736
1995	220	299	519	3,822	3,998	7,820	4,042	4,297	8,339
1996	18	23	41	4,555	6,035	10,590	4,573	6,058	10,631
1997	242	112	354	11,746	5,451	17,197	11,988	5,563	17,551
1998	37	68	105	4,691	7,844	12,535	4,728	7,912	12,640
1999	26	33	59	4,700	5,897	10,597	4,726	5,930	10,656
2000	8	94	102	1,931	7,738	9,669	1,939	7,832	9,771
2001 ^{d/}	26	291	317	871	9,513	10,384	897	9,804	10,701
2002 ^{d/}	17	57	74	2,566	8,808	11,374	2,583	8,865	11,448
2003 ^{d/}	6	207	213	5,665	6,435	12,100	5,671	6,642	12,313
2004 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						7,300			
South Puget Sound									
1981-1985	25,093	9,099	34,191	23,341	6,371	29,712	48,434	15,470	63,903
1986-1990	25,548	20,168	45,716	35,315	18,110	53,425	60,863	38,278	99,141
1991	17,096	13,998	31,094	22,368	17,545	39,913	39,464	31,543	71,007
1992	16,337	12,139	28,476	18,255	12,807	31,062	34,592	24,946	59,538
1993	17,335	10,246	27,581	21,952	9,373	31,325	39,287	19,619	58,906
1994	20,214	17,049	37,263	29,082	12,812	41,894	49,296	29,861	79,157
1995	23,959	14,867	38,826	51,803	19,843	71,646	75,762	34,710	110,472
1996	18,866	11,590	30,456	39,499	24,343	63,842	58,365	35,933	94,298
1997	11,307	4,442	15,749	36,303	16,347	52,650	47,610	20,789	68,399
1998	12,021	7,467	19,488	42,501	20,210	62,711	54,522	27,677	82,199
1999	18,185	8,141	26,326	56,495	18,948	75,443	74,680	27,089	101,769
2000	14,030	5,083	19,113	47,175	13,319	60,494	61,205	18,402	79,607
2001 ^{d/}	33,992	10,436	44,428	67,134	25,665	92,799	101,126	36,101	137,227
2002 ^{d/}	26,232	9,631	35,863	74,436	18,626	93,062	100,668	28,257	128,925
2003 ^{d/}	76,384	2,374	78,758	53,091	12,979	66,070	129,475	15,353	144,828
2004 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						34,900			

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

b/ Includes estimated off-station returns.

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

d/ Preliminary

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

Year or Average	Commercial Net Catches ^{c/}			Spawning Escapement			Terminal Run Size ^{c/}		
	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total
Strait of Juan de Fuca									
1981-1985	15,822	2,907	18,729	9,300	5,960	15,260	25,122	8,867	33,989
1986-1990	5,956	2,301	8,258	2,913	6,920	9,833	8,869	9,221	18,091
1991	2,374	776	3,150	2,746	4,500	7,246	5,120	5,276	10,396
1992	2,371	277	2,648	3,473	6,450	9,923	5,844	6,727	12,571
1993	211	39	250	4,031	3,540	7,571	4,242	3,579	7,821
1994	1,359	251	1,610	2,267	2,850	5,117	3,626	3,101	6,727
1995	3,043	89	3,132	9,063	6,709	15,772	12,106	6,798	18,904
1996	4,176	81	4,257	7,563	3,090	10,653	11,739	3,171	14,910
1997 ^{d/}	227	65	292	13,889	8,769	22,658	14,116	8,834	22,950
1998 ^{d/}	5,272	964	6,236	6,109	18,077	24,186	11,381	19,041	30,422
1999 ^{d/}	3,830	313	4,143	6,253	10,002	16,255	10,083	10,315	20,398
2000 ^{d/}	7,989	1,726	9,715	19,233	23,758	42,991	27,222	25,484	52,706
2001 ^{d/}	10,758	2,663	13,421	24,768	43,039	67,807	35,526	45,702	81,228
2002 ^{d/}	8,105	1,458	9,563	10,837	24,346	35,183	18,942	25,804	44,746
2003 ^{d/}	3,003	1,006	4,009	15,513	18,873	34,386	18,516	19,879	38,395
2004 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						14,800			
Nooksack-Samish									
1981-1985	122,433	17,539	139,972	27,720	7,700	35,420	150,153	25,239	175,392
1986-1990	140,733	21,839	162,572	23,087	8,020	31,107	163,821	29,859	193,680
1991	48,041	16,924	64,965	11,710	12,000	23,710	59,751	28,924	88,675
1992	60,755	9,291	70,046	21,616	8,900	30,516	82,371	18,191	100,562
1993	39,955	15,524	55,479	25,043	11,300	36,343	64,998	26,824	91,822
1994	43,703	20,431	64,134	14,083	14,300	28,383	57,786	34,731	92,517
1995	47,827	7,220	55,047	26,514	7,677	34,191	74,341	14,897	89,238
1996	50,711	1,607	52,318	40,293	2,518	42,811	91,004	4,125	95,129
1997 ^{d/}	13,751	1,257	15,008	34,305	6,700	41,005	48,056	7,957	56,013
1998 ^{d/}	15,751	7,134	22,885	21,089	10,300	31,389	36,840	17,434	54,274
1999 ^{d/}	41,926	7,457	49,383	41,876	8,039	49,915	83,802	15,496	99,298
2000 ^{d/}	58,011	9,597	67,608	49,035	11,000	60,035	107,046	20,597	127,643
2001 ^{d/}	49,044	26,099	75,143	49,788	27,500	77,288	98,832	53,599	152,431
2002 ^{d/}	34,625	16,825	51,450	45,161	20,300	65,461	79,786	37,125	116,911
2003 ^{d/}	33,939	9,425	43,364	35,482	14,200	49,682	69,421	23,625	93,046
2004 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				17,900					

(continued)

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

Year or Average	Commercial Net Catches ^{c/}			Spawning Escapement			Terminal Run Size ^{c/}		
	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total
(continued)									
Skagit									
1981-1985	6,619	8,858	15,477	21,740	19,800	41,540	28,359	28,658	57,017
1986-1990	5,309	11,448	16,757	13,861	25,800	39,661	19,170	37,248	56,418
1991	1,116	2,498	3,614	3,483	7,800	11,283	4,599	10,298	14,897
1992	2,881	1,856	4,737	11,641	7,500	19,141	14,522	9,356	23,878
1993	548	836	1,384	8,789	13,400	22,189	9,337	14,236	23,573
1994	987	1,152	2,139	24,908	29,100	54,008	25,895	30,252	56,147
1995	1,158	2,354	3,512	6,589	13,400	19,989	7,747	15,754	23,501
1996	719	332	1,051	17,983	8,300	26,283	18,702	8,632	27,334
1997 ^{d/}	155	1,139	1,294	4,784	22,383	27,167	4,939	23,522	28,461
1998 ^{d/}	749	9,563	10,312	11,046	73,678	84,724	11,795	83,241	95,036
1999 ^{d/}	495	6,777	7,272	3,024	27,341	30,365	3,519	34,118	37,637
2000 ^{d/}	1,526	11,777	13,303	13,935	62,898	76,833	15,461	74,675	90,136
2001 ^{d/}	1,658	17,933	19,591	16,852	87,017	103,869	18,510	104,950	123,460
2002 ^{d/}	2,205	11,743	13,948	19,096	55,968	75,064	21,301	67,711	89,012
2003 ^{d/}	4,236	18,602	22,838	9,118	69,221	78,339	13,354	87,823	101,177
2004 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						30,000			
Hood Canal									
1981-1985	36,470	21,180	57,650	19,020	23,589	42,609	55,490	44,769	100,259
1986-1990	42,838	21,862	64,699	14,711	18,328	33,039	57,549	40,190	97,738
1991	20,063	1,909	21,972	6,354	12,500	18,854	26,417	14,409	40,826
1992	3,622	441	4,063	5,378	19,200	24,578	9,000	19,641	28,641
1993	2,836	440	3,276	12,293	22,100	34,393	15,129	22,540	37,669
1994	31,130	418	31,548	24,775	56,140	80,915	55,905	56,558	112,463
1995	9,019	158	9,177	25,160	40,300	65,460	34,179	40,458	74,637
1996	4,066	137	4,203	27,337	37,051	64,388	31,403	37,188	68,591
1997 ^{d/}	4,359	5,570	9,929	35,319	95,861	131,180	39,678	101,431	141,109
1998 ^{d/}	3,374	18,599	21,973	13,761	100,818	114,579	17,135	119,417	136,552
1999 ^{d/}	3,641	1,246	4,887	14,113	16,563	30,676	17,754	17,809	35,563
2000 ^{d/}	9,155	13,902	23,057	24,940	27,239	52,179	34,095	41,141	75,236
2001 ^{d/}	8,720	11,946	20,666	39,243	94,773	134,016	47,963	106,719	154,682
2002 ^{d/}	6,021	12,123	18,144	39,330	69,300	108,630	45,351	81,423	126,774
2003 ^{d/}	7,198	26,211	33,409	33,221	170,255	203,476	40,419	196,466	236,885
2004 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						21,500			

(continued)

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

Year or Average	Commercial Net Catches ^{c/}			Spawning Escapement			Terminal Run Size ^{c/}		
	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total
(continued)									
Stillaguamish-Snohomish									
1981-1985	19,973	47,552	67,524	12,940	88,000	100,940	32,913	135,552	168,464
1986-1990	58,543	86,887	145,431	26,134	110,400	136,534	84,677	197,287	281,965
1991	55,849	50,664	106,513	19,230	45,000	64,230	75,079	95,664	170,743
1992	38,658	37,962	76,620	26,376	97,500	123,876	65,034	135,462	200,496
1993	31,202	643	31,845	15,178	62,800	77,978	46,380	63,443	109,823
1994	44,450	3,917	48,367	24,794	182,600	207,394	69,244	186,517	255,761
1995	33,367	13,688	47,055	32,271	100,700	132,971	65,638	114,388	180,026
1996	23,406	7,159	30,565	23,583	59,200	82,783	46,989	66,359	113,348
1997 ^{d/}	19,337	5,687	25,024	25,162	69,100	94,262	44,499	74,787	119,286
1998 ^{d/}	14,520	10,207	24,727	18,715	177,300	196,015	33,235	187,507	220,742
1999 ^{d/}	16,636	1,634	18,270	11,578	68,300	79,878	28,214	69,934	98,148
2000 ^{d/}	84,222	5,682	89,904	31,338	122,510	153,848	115,560	128,192	243,752
2001 ^{d/}	58,375	17,137	75,512	41,516	334,630	376,146	99,891	351,767	451,658
2002 ^{d/}	49,489	18,371	67,860	12,732	187,305	200,037	62,221	205,676	267,897
2003 ^{d/}	2,034	7,251	9,285	14,925	228,290	243,215	16,959	235,541	252,500
2004 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL - Snohomish					70,000				
GOAL - Stillaguamish					17,000				
South Puget Sound									
1981-1985	328,516	141,229	469,745	76,560	38,510	115,070	405,076	179,738	584,815
1986-1990	509,525	211,476	721,001	69,198	28,882	98,080	578,723	240,358	819,081
1991	207,490	72,877	280,367	54,701	14,972	69,673	262,191	87,849	350,040
1992	158,774	50,678	209,452	102,723	16,000	118,723	261,497	66,678	328,175
1993	45,935	9,245	55,180	101,159	18,400	119,559	147,094	27,645	174,739
1994	164,252	100,280	264,532	122,881	38,957	161,838	287,133	139,237	426,370
1995	113,353	49,229	162,582	103,547	31,396	134,943	216,900	80,625	297,525
1996	56,117	13,503	69,620	107,463	21,991	129,454	163,580	35,494	199,074
1997 ^{d/}	27,242	52,147	79,389	61,274	40,500	101,774	88,516	92,647	181,163
1998 ^{d/}	50,203	15,204	65,407	33,290	18,052	51,342	83,493	33,256	116,749
1999 ^{d/}	15,986	5,417	21,403	26,559	10,008	36,567	42,545	15,425	57,970
2000 ^{d/}	139,605	59,438	199,043	139,838	51,192	191,030	279,443	110,630	390,073
2001 ^{d/}	110,988	59,923	170,911	127,179	37,688	164,867	238,167	97,611	335,778
2002 ^{d/}	97,237	33,486	130,723	115,145	18,296	133,441	212,382	51,782	264,164
2003 ^{d/}	97,414	30,393	127,807	94,890	51,654	146,544	192,304	82,047	274,351
2004 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				52,000					

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

b/ Includes estimated off-station returns.

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

d/ Preliminary.

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

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total
Strait of Juan de Fuca									
1981	0	295	295	0	3,100	3,100	0	3,395	3,395
1983	0	144	144	0	5,088	5,088	0	5,232	5,232
1985	0	58	58	0	4,830	4,830	0	4,888	4,888
1987	3	158	161	47	1,956	2,003	50	2,114	2,164
1989	0	1,053	1,053	0	10,903	10,903	0	11,956	11,956
1991	0	1,129	1,129	0	9,896	9,896	0	11,025	11,025
1993	0	91	91	0	1,696	1,696	0	1,787	1,787
1995	4	262	266	100	8,254	8,354	104	8,516	8,620
1997	8	538	546	71	4,953	5,024	79	5,491	5,570
1999	0	6	6	0	7,306	7,306	0	7,312	7,312
2001 ^{d/}	3	578	581	469	80,949	81,418	472	81,527	81,999
2003 ^{d/}	0	282	282	0	15,148	15,148	0	15,430	15,430
GOAL	Not Agreed Upon								
Nooksack-Samish									
1981	0	21,659	21,659	0	26,814	26,814	0	48,473	48,473
1983	0	13,321	13,321	0	66,966	66,966	0	80,287	80,287
1985	0	6,204	6,204	0	24,914	24,914	0	31,118	31,118
1987	0	5,069	5,069	0	32,685	32,685	0	37,754	37,754
1989	237	24,727	24,964	1,200	126,006	127,206	1,437	150,733	152,170
1991	0	21,852	21,852	0	21,304	21,304	0	43,156	43,156
1993	0	4,323	4,323	0	51,680	51,680	0	56,003	56,003
1995	0	13,532	13,532	0	207,112	207,112	0	220,644	220,644
1997	0	4,152	4,152	0	26,000	26,000	0	30,152	30,152
1999	0	2,446	2,446	0	95,000	95,000	0	97,446	97,446
2001 ^{d/}	215	13,735	13,950	3,714	226,000	229,714	3,929	239,735	243,664
2003 ^{d/}	338	2,400	2,738	7,264	51,011	58,275	7,602	53,411	61,013
GOAL	50,000								

(continued)

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

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total
(continued)									
Skagit									
1981	403	150,626	151,029	268	100,268	100,536	671	250,894	251,565
1983	4	19,023	19,027	128	470,128	470,256	132	489,151	489,283
1985	9	229,993	230,002	30	710,030	710,060	39	940,023	940,062
1987	1,090	421,176	422,266	1,535	593,535	595,070	2,625	1,014,711	1,017,336
1989	8	661,061	661,069	5	401,300	401,305	13	1,062,361	1,062,374
1991	0	188,927	188,927	0	351,000	351,000	0	539,927	539,927
1993	0	180,088	180,088	0	530,000	530,000	0	710,088	710,088
1995	0	568,561	568,561	0	857,000	857,000	0	1,425,561	1,425,561
1997	0	57,710	57,710	0	60,000	60,000	0	117,710	117,710
1999	0	32,636	32,636	0	320,000	320,000	0	352,636	352,636
2001 ^{d/}	0	206,533	206,533	0	894,061	894,061	0	1,100,594	1,100,594
2003 ^{d/}	0	232,732	232,732	0	567,080	567,080	0	799,812	799,812
GOAL					330,000				
Hood Canal									
1981	380	1,241	1,621	1,557	6,551	8,108	1,937	7,792	9,729
1983	50	831	881	503	25,201	25,704	553	26,032	26,585
1985	138	2,854	2,992	1,456	64,101	65,557	1,594	66,955	68,549
1987	1,855	6,942	8,797	8,056	62,220	70,276	9,911	69,162	79,073
1989	7,799	26,946	34,745	2,500	60,970	63,470	10,299	87,916	98,215
1991	409	13,518	13,927	3,300	118,450	121,750	3,709	131,968	135,677
1993	623	1,917	2,540	11,497	35,647	47,144	12,120	37,564	49,684
1995	1,565	994	2,559	24,665	31,306	55,971	26,230	32,300	58,530
1997	2,436	910	3,346	21,493	8,363	29,856	23,929	9,273	33,202
1999	7	7	14	7,617	9,479	17,096	7,624	9,486	17,110
2001 ^{d/}	713	703	1,416	71,539	98,338	169,877	72,252	99,041	171,293
2003 ^{d/}	464	691	1,155	25,217	37,531	62,748	25,681	38,222	63,903
GOAL				Not Agreed Upon					
(continued)									

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

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{c/}		
	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total	Hatchery ^{b/}	Wild	Total
(continued)									
Stillaguamish-Snohomish									
1981	40	49,480	49,520	96	108,096	108,192	136	157,576	157,712
1983	51	57,452	57,503	283	324,383	324,666	334	381,835	382,169
1985	133	175,025	175,158	192	502,192	502,384	325	677,217	677,542
1987	757	111,294	112,051	418	271,418	271,836	1,175	382,712	383,887
1989	33	354,805	354,838	16	150,549	150,565	49	505,354	505,403
1991	18,336	63,953	82,289	447	260,000	260,447	18,783	323,953	342,736
1993	7,327	14,129	21,456	135	210,000	210,135	7,462	224,129	231,591
1995	47,431	16,440	63,871	26	309,600	309,626	47,457	326,040	373,497
1997	34,999	24,173	59,172	0	192,109	192,109	34,999	216,282	251,281
1999	11,283	2,113	13,396	0	461,543	461,543	11,283	463,656	474,939
2001 ^{d/}	0	100,015	100,015	0	1,847,648	1,847,648	0	1,947,663	1,947,663
2003 ^{d/}	0	187,286	187,286	0	1,577,001	1,577,001	0	1,764,287	1,764,287
GOAL - Stillaguamish					155,000				
GOAL - Snohomish					120,000				
South Puget Sound									
1981	1,569	9,818	11,387	791	12,715	13,506	2,360	22,533	24,893
1983	492	11,265	11,757	149	12,200	12,349	641	23,465	24,106
1985	119	5,335	5,454	13	34,700	34,713	132	40,035	40,167
1987	15	9,386	9,401	3	42,200	42,203	18	51,586	51,604
1989	361	36,999	37,360	452	62,220	62,672	813	99,219	100,032
1991	357	5,037	5,394	346	15,950	16,296	703	20,987	21,690
1993 ^{e/}	3	2,330	2,333	21	10,619	10,640	24	12,949	12,973
1995 ^{e/}	13	5,163	5,176	84	18,278	18,362	97	23,441	23,538
1997 ^{e/}	0	449	449	0	2,965	2,965	0	3,414	3,414
1999 ^{e/}	0	72	72	12	4,670	4,682	12	4,742	4,754
2001 ^{d/ e/ f/}	5	735	740	48	16,173	16,221	53	16,908	16,961
2003 ^{d/ e/ f/}	1	5,393	5,394	68	185,277	185,345	69	190,670	190,739
GOAL					25,000				

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

b/ Includes estimated off-station returns.

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

d/ Preliminary.

e/ Nisqually escapement estimate incomplete.

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

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

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

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

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

c/ Program has been discontinued.

d/ Preliminary.

APPENDIX C

HISTORICAL RECORD OF OCEAN SALMON FISHERY REGULATIONS AND A CHRONOLOGY OF 2004 EVENTS

LIST OF TABLES

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Year/Area/Species ^{a/}	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions ^{b/}
1971-1978			
<u>Statewide</u>			
All except coho	Apr. 15-May 14	30	
All	May 15-Sept. 30	139	
1979			
<u>Statewide</u>			
All except coho	Apr. 15-May 14	30	State waters.
All except coho	May 1-23	23	EEZ.
All	May 15-Sept. 30	139	State waters.
All	May 24-June 15; July 1-Sept. 30	115	EEZ.
1980			
<u>Statewide</u>			
All except coho	May 1-15	15	
All	May 16-31; July 1-Sept. 30	108	Closed north of Cape Vizcaino July 1-15, except open in state waters July 4-12.
1981			
<u>Statewide</u>			
All except coho	May 1-15	15	
All	June 1-30	30	State waters.
All	May 16-31; July 1-Sept. 30	108	
1982			
<u>Statewide</u>			
All except coho	May 1-15	15	Open in state waters south of Pt. Arena Apr. 22-30 (approval of 1982 federal regulations was delayed).
All	May 16-June 15; July 1-Sept. 30	123	Closed north of Pt. Arena June 9-15.
1983			
<u>Oregon/California Border to Cape Vizcaino</u>			
All except coho	May 16-31	16	
All	June 1-15; July 1-Aug. 31 ^{c/}	77	
All	June 17-27	11	State waters only.
<u>Cape Vizcaino to Pt. Arena</u>			
All except coho	May 1-31	31	
All	June 1-15; July 1-Sept. 30	107	
<u>South of Pt. Arena</u>			
All except coho	Apr. 22-May 31	40	
All	June 1-15; July 1-Sept. 30	107	
1984			
<u>Oregon/California Border to Pt. Delgada</u>			
All except coho	May 16-June 6; July 16-Aug. 22 ^{c/}	60	
All	Aug. 16-22 ^{c/}	7	State waters opened by California Legislature.
<u>Pt. Delgada to Pt. Arena</u>			
All except coho	May 1-Sept. 30	153	
All	Aug. 16-Sept. 30	46	State waters opened by California Legislature.
<u>South of Pt. Arena</u>			
All except coho	May 1-31	31	
All	June 1-Sept. 30	122	
1985			
<u>Oregon/California Border to Pt. Delgada</u>			
All except coho	Closed		
<u>South of Pt. Delgada</u>			
All except coho	May 1-31	31	
All	June 1-Sept. 30	122	

TABLE C-1. Summary of actual **California troll** salmon seasons in state and federal (EEZ) waters. (Page 2 of 7)

Year/Area/Species ^{a/}	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions ^{b/}
1986			
<u>Oregon/California Border to Pt. Delgada^{d/}</u>			
All	June 16-19; 23-26; June 30-July 5;	22	No more than 2 coho per chinook.
	July 17-24		
All except coho	July 25-Aug. 26	33	Open from south jetty of Humboldt Bay to Punta Gorda 0-6 mi.
All	Sept. 8-30	23	
<u>South of Pt. Delgada</u>			
All except coho	May 1-31; Aug. 21-Sept. 30	72	
All	June 1-Aug. 20	81	
1987			
<u>Oregon/California Border to Pt. Delgada^{d/}</u>			
All	June 1-3; 7-10; 14-25	19	2 coho, then no more than 1 coho per chinook. Open from Trinidad Head to Punta Gorda 0-6 mi.
All	Sept. 8-30	23	
<u>Pt. Delgada to Pt. Arena</u>			
All except coho	May 1-31	31	
All	June 1-3; 7-10; June 14-July 21	45	
All except coho	July 22-Sept. 30	71	
<u>South of Pt. Arena</u>			
All except coho	May 1-31; July 22-Sept. 30	102	
All	June 1-July 21	51	
1988			
<u>Oregon/California Border to Horse Mt.^{d/}</u>			
All	June 5-7	3	Open from Trinidad Head to Punta Gorda 0-6 mi.
All	Sept. 1-8	8	
<u>Horse Mt. to Pt. Arena</u>			
All except coho	May 1-31; Aug. 20-Sept. 30	73	In May north of Cape Vizcaino: open 0-3 mi under state imposed 8,000 chinook quota; closed in EEZ.
All	June 5-8; 12-15; 19-22; 26-29; July 3-6; 10-13; July 17-Aug. 19	58	
<u>South of Pt. Arena</u>			
All except coho	May 1-31; Aug. 20-Sept. 30	42	
All	June 1-Aug. 19	80	
1989			
<u>Oregon/California Border to Punta Gorda^{d/}</u>			
All	June 5-8	4	Open from Trinidad Head to Punta Gorda 0-6 mi.
All except coho	Aug. 18-20; 22-31	13	
All	Sept. 15-Oct. 31	47	
<u>Horse Mt. to Pt. Arena</u>			
All except coho	May 1-17	17	
All	June 5-17; July 2-14; July 29-Sept. 30	90	
<u>South of Pt. Arena</u>			
All except coho	May 1-31	31	
All	June 1-Sept. 30	122	
1990			
<u>Oregon/California Border to Punta Gorda^{d/}</u>			
All except coho	Aug. 1-6, 8-31	30	Open from Trinidad Head to Punta Gorda 0-6 mi.
All	Sept. 3-Oct. 31	59	
<u>Horse Mt. to Pt. Arena</u>			
All except coho	May 1-29; Sept. 22-30	38	
All	June 6-11; 20-25; July 4-9; 18-23; Aug. 1-Sept. 21	76	
<u>South of Pt. Arena</u>			
All except coho	May 1-31; Sept. 22-30	40	
All	June 1-Sept. 21	113	

TABLE C-1. Summary of actual **California troll** salmon seasons in state and federal (EEZ) waters. (Page 3 of 7)

Year/Area/Species ^{a/}	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions ^{b/}
1991			
<u>Oregon/California Border to Punta Gorda</u>			
All	Sept.1-Oct. 31	61	Open from Trinidad Head to Punta Gorda 0-6 mi.
<u>Horse Mt. to Pt. Arena</u>			
All	Aug. 1-2, 12-27	18	
All except coho	Aug. 3-11; Aug. 28-Sept. 30	43	
<u>Pt. Arena to Pt. San Pedro</u>			
All except coho	May 1-31; July 12-15; Aug. 3-11; Aug. 28-Sept. 30	78	
All	June 8-12; June 26-July 2; July 11; Aug. 1-2; Aug. 12-27	31	
<u>South of Pt. San Pedro</u>			
All except coho	May 1-31; July 12-31; Aug. 3-11; Aug. 28-Sept. 30	60	
All	June 1-July 11; Aug. 1-2; Aug. 12-27	59	
1992			
<u>Oregon/California Border to Horse Mt.</u>			
	Closed		
<u>Horse Mt. to Pt. Arena</u>			
	Closed		
<u>Pt. Arena to Pt. San Pedro</u>			
All except coho	May 1-10; Aug. 8-Sept. 30	64	May 1-10, open only south of Pt. Reyes.
All	Aug. 1-7	7	
<u>South of Pt. San Pedro</u>			
All except coho	May 1-31; Aug. 8-Sept. 30	85	
All	June 1-Aug. 7	68	
1993			
<u>Oregon/California Border to Horse Mt.</u>			
	Closed		
<u>Horse Mt. to Pt. Arena</u>			
All except coho	May 1-6; Sept. 1-30	36	May 1-6, open only 0-3 mi.
<u>Pt. Arena to Pt. San Pedro</u>			
All except coho	May 1-31; July 26-Aug. 31; Sept. 6-30	93	
<u>South of Pt. San Pedro</u>			
All except coho	May 1-Aug. 31; Sept. 6-30	148	
1994			
<u>Oregon/California Border to Horse Mt.</u>			
	Closed		
<u>Horse Mt. to Pt. Arena</u>			
All except coho	Sept. 1-30	30	
<u>Pt. Arena to Pt. Reyes</u>			
All except coho	Aug. 1-Sept. 30	61	
<u>Pt. Reyes to Pt. San Pedro</u>			
All except coho	June 15-Sept. 30	108	
<u>South of Pt. San Pedro</u>			
All except coho	May 1-June 11; July 1-Sept. 30	134	

TABLE C-1. Summary of actual **California troll** salmon seasons in state and federal (EEZ) waters. (Page 4 of 7)

Year/Area/Species ^{a/}	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions ^{b/}
1995			
<u>Oregon/California Border to Horse Mt.</u>			
	Closed		
<u>Horse Mt. to Pt. Arena</u>			
All except coho	Sept. 1-30	30	
<u>Pt. Arena to Pt. Reyes</u>			
All except coho	July 5-Sept. 30	88	
<u>Pt. Reyes to Pt. San Pedro</u>			
All except coho	May 24-July 4; July 19-Sept. 30	86	
<u>South of Pt. San Pedro</u>			
All except coho	May 1-June 15; July 19-Sept. 30	120	
1996			
<u>Oregon/California Border to Humboldt South Jetty^{d/}</u>			
All except coho	Aug. 15-22	8	No more than 4 spreads per line; minimum size limit 27 in; 30 fish daily landing limit.
All except coho	Sept. 1-14	14	No more than 4 spreads per line; minimum size limit 27 in; 30 fish daily landing limit.
<u>Horse Mt. to Pt. Arena</u>			
All except coho	Aug.1-Sept.30	61	Minimum size limit 27 in.
<u>Pt. Arena to Pt. Reyes</u>			
All except coho	June 1-30; Aug 1-Sept.15	76	Minimum size limit 26 in. through June 30 and 27 in. thereafter.
<u>Bodega Head to Pt. San Pedro</u>			
All except coho	Sept. 16-30	15	Minimum size limit 27 in.
<u>Pt. Reyes to U.S./Mexico Border</u>			
All except coho	May 1-June 30; July 3-Sept. 15	136	Minimum size limit 26 in. through June 30 and 27 in. thereafter.
1997			
<u>Oregon/California Border to Humboldt South Jetty^{d/}</u>			
All except coho	Sept. 1-30 (6,000 chinook quota)	30	Landing limit 30 fish per day; all fish must be landed in the area.
<u>Horse Mt. to Pt. Arena</u>			
All except coho	Sept.1-30	30	
<u>Pt. Arena to Pt. Reyes</u>			
All except coho	July 16-Sept. 30	77	
<u>Pt. Reyes to Pt. San Pedro</u>			
All except coho	July 1-Sept. 30	92	
<u>Pt. San Pedro to U.S./Mexico Border</u>			
All except coho	May 1-31; June 23-July 18; Sept. 1-30	87	
<u>Pt. Lopez to Pt. Mugu</u>			
All except coho	Apr. 15-22 (10,000 chinook quota)	8	All fish must be landed within the area.

TABLE C-1. Summary of actual **California troll** salmon seasons in state and federal (EEZ) waters. (Page 5 of 7)

Year/Area/Species ^{a/}	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions ^{b/}
1998			
<u>Oregon/California Border to Humboldt South Jetty^{d/}</u>			
All except coho	Sept. 1-30 (6,000 chinook quota)	30	Landing limit 30 fish per day; all fish must be landed in the area.
<u>Horse Mt. to Pt. Arena</u>			
All except coho	Sept.1-30	30	
<u>Pt. Arena to Pt. Reyes</u>			
All except coho	Aug. 1-Sept. 30	61	
<u>Fort Ross to Pt. Reyes</u>			
All except coho	July 5-31 (3,000 chinook quota)	27	Open 0-6 nautical miles; landing limit of 30 fish per day; all fish must be landed within the area.
<u>Pt. Reyes to Pt. San Pedro</u>			
All except coho	July 1-Sept. 30	92	
<u>Pt. San Pedro to Pt. Sur</u>			
All except coho	May 1-31; June 16-Sept. 30	138	
<u>Pt. Sur to U.S./Mexico Border</u>			
All except coho	May 1-Sept. 30	153	
1999			
<u>Oregon/California Border to Humboldt South Jetty^{d/}</u>			
All except coho	Sept. 1-30 (7,000 chinook quota, includes 1,000 chinook guideline for area north to House Rock, Oregon)	30	Landing limit 30 fish per day; all fish must be landed in the area.
<u>Horse Mt. to Pt. Arena</u>			
All except coho	Sept.1-30	30	
<u>Pt. Arena to Pt. Reyes</u>			
All except coho	July 17-Sept. 30	76	Minimum size limit 27 in.
<u>Fort Ross to Pt. Reyes</u>			
All except coho	July 1-12 (2,500 chinook quota)	12	Open 0-6 nautical miles; landing limit 30 fish per day; all fish must be landed within the area.
<u>Pt. Reyes to Pt. San Pedro</u>			
All except coho	July 1-Sept. 30	92	Minimum size limit 27 in.
<u>Pt. San Pedro to U.S./Mexico Border</u>			
All except coho	May 1-Aug. 21; Sept. 1-30	143	Minimum size limit 27 in. after June 30.
<u>Pillar Pt. to Pigeon Pt.</u>			
All except coho	April 14-16 (3,000 chinook quota)	3	Test fishery. Landing limit 30 fish per day; all fish must be landed within the area.
<u>Pt. Piedras Blancas to Pt. Conception</u>			
All except coho	April 14-16, 21-23, 26-28 (2,500 chinook quota)	9	Test fishery. Same as above, except beginning Apr. 21, a landing limit of 90 fish per day.
<u>Pt. Conception to Pt. Pitas</u>			
All except coho	April 14-16, 21-23, 26-28 (2,500 chinook quota)	9	Test fishery. Same as above.

TABLE C-1. Summary of actual **California troll** salmon seasons in state and federal (EEZ) waters. (Page 6 of 7)

Year/Area/Species ^{a/}	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions ^{b/}
2000^{e/}			
<u>Oregon/California Border to Humboldt South Jetty^{d/}</u>			
All except coho	Sept. 1-30 (7,000 chinook quota includes 1,000 chinook guideline for area north to House Rock, Oregon)	30	Landing limit 30 fish per day; all fish must be landed in the area.
<u>Horse Mt. to Pt. Arena</u>			
All except coho	Sept.1-30	30	
<u>Pt. Arena to Pt. Reyes</u>			
All except coho	July 18-Sept. 30	75	Minimum size limit 27 in.
<u>Fort Ross to Pt. Reyes</u>			
All except coho	July 1-3, 5-15 (4,500 chinook quota)	14	Open 0-6 nautical miles; landing limit 30 fish per day; all fish must be landed within the area.
<u>Pt. Reyes to Pt. San Pedro</u>			
All except coho	May 29-Sept. 30	124	Minimum size limit 26 in. through June 30 and 27 in. thereafter.
<u>Pt. San Pedro to U.S./Mexico Border</u>			
All except coho	May 1-Aug. 27	119	Minimum size limit 26 in. through June 30 and 27 in. thereafter.
2001^{e/}			
<u>Oregon/California Border to Humboldt South Jetty^{d/}</u>			
All except coho	Sept. 1-30 (8,000 chinook quota includes 2,000 chinook guideline for area north to Humbug Mt., Oregon)	30	Landing limit 30 fish per day; all fish must be landed in the area.
<u>Horse Mt. to Pt. Arena</u>			
All except coho	May 1-21 (3,000 chinook quota)	21	All fish must be landed in the area.
All except coho	Sept.1-30	30	
<u>Pt. Arena to Pt. Reyes</u>			
All except coho	June 24-Sept. 30	99	Minimum size limit 26 in. through June 30 and 27 in. thereafter.
<u>Pt. Reyes to Pt. San Pedro</u>			
All except coho	May 24-Sept. 30; Oct. 1-5, 8-12	139	Minimum size limit 26 in. through June 30 and 27 in. thereafter.
<u>Pt. San Pedro to Pt. Sur</u>			
All except coho	May 1-Aug. 14	106	Minimum size limit 26 in. through June 30 and 27 in. thereafter.
<u>Pt. Sur to U.S./Mexico Border</u>			
All except coho	May 1-Aug.14; Sept.11-30	126	Minimum size limit 26 in. through June 30 and 27 in. thereafter.
2002^{e/}			
<u>Oregon/California Border to Humboldt South Jetty^{d/}</u>			
All except coho	Aug 16-30 (3,000 chinook quota)	15	Landing limit 40 fish per day; all fish must be landed in the area.
	Sept. 1-20, 26-27 (10,000 chinook quota)	22	
<u>Horse Mt. to Pt. Arena</u>			
All except coho	July 20-23 (10,000 chinook quota)	4	All fish must be landed in the area.
	Aug. 1-30	30	All fish must be landed in the area.
All except coho	Sept. 1-30	30	
<u>Pt. Arena to U.S./Mexico Border</u>			
All except coho	May 1-Sept. 30	153	
<u>Pt. Reyes to Pt. San Pedro</u>			
All except coho	Oct. 1-4, 7-11, 14-18	14	

TABLE C-1. Summary of actual **California troll** salmon seasons in state and federal (EEZ) waters. (Page 7 of 7)

Year/Area/Species ^{a/}	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions ^{b/}
2003^{e/}			
<u>Oregon/California Border to Humboldt South Jetty^{d/}</u>			
All except coho	Sept. 1-30 (10,000 chinook quota)	30	Landing limit 40 fish per day; all fish must be landed in the area.
<u>Horse Mt. to Pt. Arena</u>			
All except coho	May 1-31	31	Landing limit 150 fish per day; all fish must be landed in the area.
	July 3-14	12	
	July 18-Sept. 30	75	
<u>Pt. Arena to U.S./Mexico Border</u>			
All except coho	May 1-Sept. 30	153	
<u>Pt. Reyes to Pt. San Pedro</u>			
All except coho	Oct. 1-3; 6-10; 13-17	13	
2004^{e/}			
<u>Oregon/California Border to Humboldt South Jetty^{d/}</u>			
All except coho	Sept. 1-17 (6,000 chinook quota)	17	Landing limit 30 fish per day; minimum size limit 28 in.; all fish must be landed in the area.
<u>Horse Mt. to Pt. Arena</u>			
All except coho	July 10-Aug. 29; Sept. 1-30	81	Minimum size limit 27 in. through Aug. 31 and 28 in. thereafter
<u>Pt. Arena to U.S./Mexico Border</u>			
All except coho	May 1-Aug 29; Sept. 1-30	151	Minimum size limit 26 in. through June 30 and 27 in. thereafter.
<u>Pt. Reyes to Pt. San Pedro</u>			
All except coho	Oct. 1, 4-8, 11-15	11	

a/ Major ports located as follows: Oregon/California border to Horse Mt. includes Crescent City, Trinidad, and Eureka; Horse Mt. to Pt. Arena includes Shelter Cove, Fort Bragg, and Mendocino; Pt. Arena to Pt. Reyes includes Bodega Bay; Pt. Reyes to Pt. San Pedro includes San Francisco and Sausalito; Pt. San Pedro to Pigeon Pt. includes Half Moon Bay; Pigeon Pt. to Pt. Sur includes Santa Cruz, Moss Landing, and Monterey; and Pt. Sur to the U.S./Mexico border includes Morro Bay, Avila, and all ports south of Pt. Conception.

b/ Unless otherwise noted: (1) minimum sizes (total length) are chinook 26 in., coho 22 in; (2) single barbless hooks required; and (3) no more than 6 lines per vessel.

c/ Klamath Control Zone (12-mile square off the Klamath River mouth) closed August 1 through the end of the season.

d/ Klamath Control Zone (12-mile square off the Klamath River mouth) closed.

e/ Special gear restriction: If fishing with bait and angling by any other means than trolling, single-point, single-shank barbless circle hooks required.

TABLE C-2. Summary of actual California recreational ocean salmon regulations. (Page 1 of 3)

Year	Area	Season	Bag Limit	Minimum Size Limit (inches)	
				Chinook	Coho
1977	North of Tomales Pt.	All Year	3	22 ^{a/}	22 ^{a/}
	South of Tomales Pt.	Feb. 12-Nov. 13	3	22 ^{a/}	22 ^{a/}
1978	North of Tomales Pt.	All Year	3	22 ^{a/}	22 ^{a/}
	South of Tomales Pt.	Feb. 18-Nov. 12	3	22 ^{a/}	22 ^{a/}
1979	Statewide	Feb. 17-Oct. 14	2	22 ^{a/}	22 ^{a/}
1980	Statewide	Feb. 17-Oct. 13	2	22 ^{a/}	22 ^{a/}
1981	Statewide	Feb. 14-Nov. 15	2	22 ^{a/}	22 ^{a/}
1982	Statewide	Feb. 13-Nov. 14	2	22 ^{a/}	22 ^{a/}
1983	Statewide	Feb. 12-Nov. 13	2	22 ^{a/}	22 ^{a/}
1984 ^{b/}	North of Cape Vizcaino	Feb. 18-June 15; July 1-Nov. 18 ^{c/}	2	20	20
	South of Cape Vizcaino	Feb. 18-Nov. 18	2	20	20
1985 ^{b/}	Statewide ^{d/}	Feb. 16-Nov. 17 ^{c/}	2	20	20
1986 ^{b/}	North of Pt. Delgada	Feb. 16-Mar. 28; May 24-Sept. 7 ^{c/}	2 ^{a/f/}	20	20
	South of Pt. Delgada	Feb. 15-Nov. 16	2	20	20
1987 ^{g/}	North of Pt. Delgada	May 23-Sept. 13 ^{c/}	2 ^{f/}	20	20
	South of Pt. Delgada	Feb. 14-Nov. 15	2	20	20
1988 ^{g/}	North of Horse Mt.	May 28-Sept. 11 ^{c/} ; Sept. 12-30 ^{h/}	2 ^{f/}	20	20
	South of Horse Mt.	Feb. 13-Nov. 13	2	20	20
1989 ^{g/}	North of Horse Mt.	May 1-Sept. 30 ^{c/}	2 ^{f/}	20	20
	South of Horse Mt.	Feb. 18-Nov. 12	2	20	20
1990 ^{g/}	North of Horse Mt.	May 1-Sept. 9 ^{c/} ; Sept. 10-Oct. 31 ^{h/}	2 ^{i/iv/}	20	20
	South of Horse Mt. ^{j/}	Feb. 17-Nov. 18	2	20	20
1991 ^{g/}	North of Horse Mt.	May 25-July 28 ^{k/} ; Aug. 31-Sept. 30 ^{c/l/} Oct. 1-31 ^{iv/}	2 ^{i/m/} 2 ^{f/}	20 20	20 20
	Horse Mt. to Pt. Arena	Feb. 16-Nov. 17	2	20	20
	South of Pt. Arena	Mar. 2-Nov. 3	2	20	20
	North of Horse Mt.	July 6-8; July 13-15; July 20; Sept. 1-7	1	20	20
1992 ^{g/nv/}	Horse Mt. to Pt. Arena	Feb. 15-May 31; June 30-July 16; Sept 1-Nov. 15	2	20	20
	Pt. Arena to Pt. San Pedro ^{j/}	Feb. 29-May 31; June 30-Nov. 1 June 1-29 ^{vi/}	2	20	20
	South of Pt. San Pedro	Feb. 29-Nov. 1	2	20	20
1993 ^{g/}	North of Horse Mt.	May 1-June 19; July 14-Aug. 28 ^{c/p/} Sept. 1-6	1	20	20
	Horse Mt. to Pt. Arena	Feb. 13-Nov. 14	2	20	20
	South of Pt. Arena ^{j/}	Feb. 27-Oct. 31	2 ^{q/}	20	20
1994 ^{g/}	North of Horse Mt.	May 1-June 7; Aug. 27-31 ^{c/} ; Sept. 1-5	2 ^{r/}	20	--
	Horse Mt. to Pt. Arena	Feb. 12-June 30; Aug. 1-Nov. 13	2 ^{s/}	20	20
	South of Pt. Arena ^{j/}	Feb. 26-Oct. 30	2 ^{s/}	20	20
1995 ^{g/}	North of Horse Mt.	May 17-July 1; Aug. 16-18 ^{c/p/} ; Sept. 1-9	1 ^{t/r/}	20	--
	Horse Mt. to Pt. Arena	Feb. 18-June 30; Aug. 1-Nov. 12	2 ^{s/}	20	20
	South of Pt. Arena ^{j/}	Mar. 4-Oct. 29	2 ^{s/}	20	20

TABLE C-2. Summary of actual California recreational ocean salmon regulations. (Page 2 of 3)

Year	Area	Season	Bag Limit	Minimum Size Limit (inches)	
				Chinook	Coho
1996 ^{g/n/}	North of Horse Mt.	May 12-July 7; Aug. 18-Sept. 21 ^{c/}	1 ^{t/r/}	20	--
	Horse Mt. to Pt. Arena ^{v/}	Feb. 17-July 7; Aug. 1-Nov.17	2 ^{t/}	24	--
	Pt. Arena to Pt. San Pedro ^{i/v/}	Mar. 2-Oct. 14 ^{u/}	2 ^{t/}	24 ^{v/}	--
	South of Pt. San Pedro ^{v/}	Mar. 2-Aug. 25 ^{y/}	2 ^{t/}	24 ^{z/}	--
1997 ^{g/n/}	North of Horse Mt.	May 24-30; June 17-July 6; Aug. 12-Sept. 14 ^{c/}	1 ^{t/r/}	20	--
	Horse Mt. to Pt. Arena ^{v/}	Feb. 15-July 6; Aug. 1-Nov.16	2 ^{t/}	24	--
	Pt. Arena to Pigeon Pt. ^{i/v/}	Mar. 29-Nov. 2	2 ^{t/}	24 ^{w/}	--
	South of Pigeon Pt. ^{v/}	Mar. 15-Oct. 19	2 ^{t/}	24	--
1998 ^{g/n/}	North of Horse Mt.	May 23-June 10; June 21-July 5; Aug. 11-Sept. 13 ^{c/}	1 ^{t/r/}	20	--
	Horse Mt. to Pt. Arena ^{v/}	Feb. 14-July 5; Aug. 1-Nov.15	2 ^{t/}	24	--
	Pt. Arena to Pigeon Pt. ^{i/v/}	Mar. 28-Nov. 1	2 ^{t/}	24 ^{w/}	--
	South of Pigeon Pt. ^{v/}	Mar. 14-Sept. 7	2 ^{t/}	24	--
1999 ^{g/n/}	North of Horse Mt.	May 29-July 4; July 29-Sept. 14 ^{c/}	1 ^{t/r/}	20	--
	Horse Mt. to Pt. Arena ^{v/}	Feb. 13-July 4; July 25-Nov.14	2 ^{t/}	24	--
	Pt. Arena to Pigeon Pt. ^{i/v/}	Mar. 27-Oct. 31	2 ^{t/}	24 ^{w/}	--
	South of Pigeon Pt. ^{v/}	Mar. 13-Sept. 6	2 ^{t/}	24 ^{w/}	--
2000 ^{n/x/}	North of Horse Mt.	May 27-July 6; July 29-Sept. 10 ^{c/}	1 ^{t/r/} 2 ^{t/r/}	20 20	--
	Horse Mt. to Pt. Arena ^{v/}	Feb. 12-July 6; July 22-Nov. 12	2 ^{t/}	20 ^{y/}	--
	Pt. Arena to Pigeon Pt. ^{v/}	Apr. 15-Nov. 5	2 ^{t/}	20 ^{y/}	--
	South of Pigeon Pt. ^{v/}	Apr. 1-Oct. 1	2 ^{t/}	20 ^{y/}	--
2001 ^{n/x/}	North of Horse Mt.	May 17-July 8; July 24-Sept. 3 ^{c/}	2 ^{t/r/}	20	--
	Horse Mt. to Pt. Arena ^{v/}	Feb. 17-Nov. 18	2 ^{t/}	20 ^{y/}	--
	Pt. Arena to Pigeon Pt. ^{v/}	Apr. 14-Nov.13	2 ^{t/}	20 ^{z/}	--
	South of Pigeon Pt. ^{v/}	Mar. 31-Sept. 30	2 ^{t/}	20 ^{z/}	--
2002 ^{n/x/}	North of Horse Mt.	May 15-June 30; July 3-4; Aug. 1-Sept. 15 ^{c/}	2 ^{t/r/}	20	--
	Horse Mt. to Pt. Arena ^{v/}	Feb. 16-July 7; July 20-Nov. 17	2 ^{t/}	20 ^{aa/}	--
	Pt. Arena to Pigeon Pt. ^{v/}	Apr. 13-Nov.10	2 ^{t/}	20 ^{aa/}	--
	South of Pigeon Pt. ^{v/}	Mar. 30-Sept. 29	2 ^{t/}	20 ^{aa/}	--
2003 ^{n/x/}	North of Horse Mt.	May 17-Sept. 14 ^{c/}	2 ^{t/}	20	--
	Horse Mt. to Pt. Arena ^{v/}	Feb. 15-Nov. 16	2 ^{t/}	20 ^{aa/}	--
	Pt. Arena to Pigeon Pt. ^{v/}	Apr. 12-Nov.9	2 ^{t/}	20 ^{aa/}	--
	South of Pigeon Pt. ^{v/}	Mar. 29-Sept. 28	2 ^{t/}	20 ^{aa/}	--

TABLE C-2. Summary of actual California recreational ocean salmon regulations. (Page 3 of 3)

Year	Area	Season	Bag Limit	Minimum Size Limit (inches)	
				Chinook	Coho
2004 ^{n/x/}	North of Horse Mt.	May 15-Sept. 12 ^{c/}	2 ^{t/}	20	--
	Horse Mt. to Pt. Arena ^{t/}	Feb. 14-Nov. 14	2 ^{t/}	20 ^{aa/}	--
	Pt. Arena to Pigeon Pt. ^{t/}	Apr. 17-Nov.14	2 ^{t/}	20 ^{aa/}	--
	South of Pigeon Pt. ^{t/}	Apr. 3-Oct. 3	2 ^{t/}	20 ^{aa/}	--

- a/ Except that 1 salmon per day could be less than 22 inches, but not less than 20 inches.
- b/ Only single-point barbless hooks.
- c/ Klamath Control Zone (12-mile square off the Klamath River mouth) closed during the month of August, except closed year round in 1996 and 2003.
- d/ Closed to salmon fishing north of Pt. Delgada on Mondays and Tuesdays, July 19-Aug. 31 by action of the California Fish and Game Commission.
- e/ No more than 1 coho and 1 chinook prior to June 23.
- f/ Klamath Management Zone (KMZ) 7-day fishing limits:
 1986-1991; 1995 After May 1, no more than 6 salmon in any 7 consecutive days.
 1996-2000 No more than 4 salmon in any 7 consecutive days.
 2001 May 17-July 8, no more than 4 salmon in any 7 consecutive days.
 July 24-Sept. 3, no more than 6 salmon in any 7 consecutive days.
 2002 No more than 6 salmon in any 7 consecutive days.
- g/ Only single-point barbless hooks north of Pt. Conception.
- h/ Open only from Trinidad Head to Punta Gorda inside 6 miles.
- i/ Only 1 salmon could be a chinook, June 30-Aug. 15.
- j/ Winter Chinook Control Zone (Bolinás to Pt. San Pedro near mouth of San Francisco Bay) closed:
 1990 March 1- April 30 and November 1-18.
 1991 March 2-31.
 1992 February 29- April 3.
 1993 February 27- April 2.
 1994-1999 opening of season through March 31.
- k/ Closed Tuesdays and Wednesdays each week.
- l/ Closed Monday through Thursday each week except open Monday, Sept. 2.
- m/ Only 1 could be a chinook.
- n/ Only 1 rod per angler north of Pt. Conception for all persons fishing for salmon or fishing from a boat with salmon on board.
- o/ Open only inside the Winter Chinook Control Zone (Bolinás to Pt. San Pedro near the mouth of San Francisco Bay).
- p/ Open Wednesday through Saturday only.
- q/ Sept. 1 through end of season only 1 fish of the 2-fish bag limit could be 26 inches or longer.
- r/ All salmon except coho.
- s/ All salmon through Apr. 30; thereafter, all salmon except coho.
- t/ The following special gear restrictions were in effect to reduce hook-and-release mortality from mooching between Horse Mt. and Pt. Conception:
 1996: July 1-Nov. 17 - when fishing with bait and 1 pound or less of weight, no more than 2 hooks could be used and the size and spacing of hooks was restricted.
 1997: May 1-Sept. 1 - when fishing with bait and 1 pound or less of weight, no more than 2 hooks could be used and the size and spacing of hooks was restricted. Beginning Sept.2, barbless circle hooks (max. 2) were required.
 1998-2004 When fishing with bait and any means other than trolling, barbless circle hooks (max. 2) were required. The distance between two hooks could not exceed 5 inches; circle hooks were not required when fishing with artificial lures without bait.
- u/ Closed in federal waters July 2-14 to reduce impacts on Sacramento winter chinook to account for a delay in increasing the size limit within state waters during this same time.
- v/ After July 1, minimum size limit 26 inches; except the 24 inch limit remained in effect within state waters through July 14.
- w/ Except no minimum size limit at the following times and locations:
 1997, Pt. Reyes to Pigeon Pt. - July 1-Sept. 1.
 1998, Pt. Arena to Pigeon Pt. - July 1-Sept. 7.
 1999, South of Pt. Arena - Aug. 1-Sept. 6.
- x/ Only two single-point barbless hooks could be used north of Pt. Conception.
- y/ Except 24 inches prior to June 1.
- z/ Except 24 inches prior to July 1.
- aa/ Except 24 inches prior to May 1.

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 1 of 9)

Year	Area	Seasons		Number of Days		Minimum Size Limit	
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
1979	North of Cape Falcon	May 1-31	July 1-24; Aug. 4-31 ^{a/}	31	52	28	16
	Cape Falcon to OR/CA Border	May 1-31; Sept. 4-Oct. 31	July 1-Sept. 3 ^{b/}	89	65	26	16
	Cape Blanco to Humbug Mt. and Goat Island to OR/CA Border	Nov. 1-30 ^{c/}	-	30	-	26	-
1980	North of Cape Falcon	May 1-31	July 15-Sept. 8	31	56	28	16
	Cape Falcon to Cape Blanco	May 1-31; June 16-30; Sept. 9-Oct. 31	July 15-Sept. 8	99	56	26	16
	Cape Blanco to OR/CA Border	May 1-31; Sept. 9-Oct. 31	July 15-Sept. 8	84	56	26	16
	Cape Blanco to Humbug Mt. and Goat Island to OR/CA Border	Nov. 1-30 ^{c/}	-	30	-	26	-
1981	North of Cape Falcon	May 1-31	July 15-Aug. 21 ^{d/e/}	31	38	28	16
	Cape Falcon to OR/CA Border	May 1-31; Aug. 22-Sept. 8; ^{f/} Sept. 9-Oct. 31	July 1-Aug. 21 ^{e/}	102	52	26	16
	Cape Blanco to Humbug Mt. and Goat Island to OR/CA Border	Nov. 1-30 ^{c/}	-	30	-	26	-
1982	North of Cape Falcon	May 1-31	July 1-8	31	8	28	16
	Cape Falcon to Cape Blanco	May 1-June 15; July 13-Oct. 31	July 1-12	157	12	26	16
	Cape Blanco to OR/CA Border	May 1-June 8; July 13-Oct. 31	July 1-12	150	12	26	16
	Cape Blanco to Humbug Mt. and Goat Island to OR/CA Border	Nov. 1-30 ^{c/}	-	30	-	26	-
1983	North of Cape Falcon	May 1-31	July 1-31; ^{g/} Aug. 10-Sept. 8 ^{h/}	31	61	28	16
	Cape Falcon to Cape Kiwanda	May 1-31	Aug. 1-Sept. 4	103	35	26	16
	Cape Kiwanda to Heceta Head	May 1-31; June 1-15; Sept. 5-Oct. 31	July 1-25; Aug. 1-Sept. 4	103	60	26	16
	Heceta Head to Cape Blanco	May 1-31; June 1-15; July 26-Oct. 31 ^{i/}	July 1-25	144	25	26	16
	Cape Blanco to OR/CA Border	May 16-31; June 1-15; July 26-Sept. 15; ^{j/} Oct. 1-31	July 1-25	114	25	26	16
	Cape Blanco to Humbug Mt.	Nov. 1-30 ^{c/}	-	30	-	26	-
1984	North of Cape Falcon	May 1-7	-	7	-	28	-
	Columbia River to Cape Falcon	-	Aug. 4-6	-	3	28	16
	Cape Falcon to Cape Blanco	May 1-June 15; July 1-Sept. 21 ^{k/}	-	129	-	26	-
	Manhattan Beach to Pyramid Rock	Oct. 1-31 ^{c/}	-	31	-	26	-
	Cape Blanco to OR/CA Border	May 16-June 6; July 16-Aug. 22	-	60	-	26	-
Cape Blanco to Humbug Mt.	Oct. 1-Nov. 30 ^{c/}	-	61	-	26	-	

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 2 of 9)

Year	Area	Seasons		Number of Days		Minimum Size Limit	
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
1985	North of Cape Falcon	May 1-14; May 21-31	Aug. 21	25	1	28	16
	Cape Falcon to Cape Blanco	May 1-June 30; July 27-Oct. 31	July 1-26 ^v	158	26	26	16
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 30 ^{cl}	-	61	-	26	-
	Tower Rock to Cape Blanco	Nov. 1-30 ^{cl}	-	30	-	26	-
1986	North of Cape Falcon	May 1-10, 14-17, 24-27, 30-31	Aug. 2-3; Aug. 7-9	20	5	28	16
	Cape Falcon to Cape Perpetua	May 1-June 30; July 25-Oct. 31	July 1-20; July 23-24 ^{ml}	160	22	26	16
	Cape Perpetua to Cape Blanco	May 1-June 30; July 25-Oct. 31	July 1-20; July 23-24 ^{nl}	160	22	26	16
	Twin Rocks to Pyramid Rock	Nov. 1-15	-	15	-	26	-
	Sisters Rocks to Chetco Pt. ^{ol}	May 1-June 6	-	37	-	26	-
	Cape Blanco to OR/CA Border	July 25-Aug. 26	June 16-19, 23-26; June 30-July 5; July 17-24 ^{pl}	24	22	26	22
	Sisters Rocks to Mack Arch	Aug. 29	-	1	-	26	-
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 26	-	57	-	26	-
1987	North of Cape Falcon	May 1-10; May 14-15	July 25-26	12	2	28	16
	Cape Falcon to Cascade Head	May 1-July 14; Sept. 16-Oct. 31	July 15-28; Aug. 1-Sept. 15 ^{ql/}	121	60	26	16
	Cascade Head to Cape Perpetua	May 1-July 14; Sept. 16-Oct. 31	July 15-28; ^{ql} Aug. 1-Sept. 15 ^{tl/sl}	121	60	26	16
	Cape Perpetua to Cape Blanco	May 1-June 30; Sept. 16-Oct. 31 ^{lv}	July 1-28; Aug. 1-Sept. 15 ^{tl/ul}	107	74	26	16
	Sisters Rocks to Chetco Pt. ^{ol}	May 1-14	-	14	-	26	-
	Cape Blanco to OR/CA Border	-	June 1-3; June 7-10; June 14-25 ^{lv}	-	19	26	22
	Cape Blanco to Humbug Mt. ^{cl}	Oct. 1-Nov. 30	-	61	-	26	-
1988	North of Cape Falcon	May 1-June 14	-	45	-	28	-
	Cape Falcon to Cascade Head	May 1-June 30; Aug. 20-Oct. 31	July 1-Aug. 19	134	50	26	16
	Cascade Head to Cape Arago	May 1-June 30; Aug. 20-Oct. 31	July 1-13; July 16-Aug. 19 ^{lv}	134	48	26	16
	Cape Arago to Orford Reef Red Buoy	May 1-June 30; Aug. 20-31; Sept. 16-Oct. 31	July 16-Aug. 19	119	35	26	16
	Sisters Rocks to Chetco Pt. ^{ol}	May 1-4	-	4	-	26	-
	Orford Reef Red Buoy to OR/CA Border	-	June 5-7	-	3	26	22
	Sisters Rocks to Mack Arch ^{ol}	Sept. 1-14	-	14	-	26	-
	Orford Reef Red Buoy to Humbug Mt. ^{cl}	Oct. 1-31	-	31	-	26	-
	Cape Blanco to Humbug Mt. ^{cl}	Nov. 1-30	-	30	-	26	-

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 3 of 9)

Year	Area	Seasons		Number of Days		Minimum Size Limit	
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
1989	North of Cape Falcon	May 1-June 8; June 13-15	Aug. 21; Aug. 24-Sept. 10 ^{vw/}	42	19	28	16
	Cape Falcon to Cascade Head	May 1-July 11; Aug. 18-Oct. 31	July 12-14; July 18-Aug. 17 ^{x/}	147	34	26	16
	Cascade Head to Cape Arago	May 1-June 23; Aug. 18-Oct. 31	July 1-14; July 18-Aug. 17 ^{y/}	129	45	26	16
	Cape Arago to Orford Reef Red Buoy	May 1-June 23; Sept. 1-Oct. 31	July 1-14; Aug. 1-Aug. 17 ^{y/}	115	31	26	16
	Orford Reef Red Buoy to Humbug Mt. ^{c/}	Oct. 1-31	-	31	-	26	-
	Cape Blanco to Humbug Mt. ^{c/}	Nov. 1-30	-	30	-	26	-
	Humbug Mt. to OR/CA Border	Aug. 18-20; Aug. 22-31 ^{z/}	June 5-8 ^{z/}	13	4	26	22
	Sisters Rocks to House Rock ^{o/}	May 1-2	-	2	-	26	-
Sisters Rocks to Mack Arch ^{o/}	Sept. 1-14	-	14	-	26	-	
1990	North of Cape Falcon	May 1-14, 18-27; May 31-June 2; June 8-11; June 14	Aug. 18-21, 25-26; Aug. 30-Sept. 14; Sept. 18-19; Sept. 22-Oct. 15 ^{aa/}	32	48	28	16
	Cape Falcon to Cascade Head	May 1-June 25; July 4-15; Sept. 1-Oct. 31	July 16-Aug. 31 ^{bb/}	129	47	26	16
	Cascade Head to Cape Arago	May 1-June 25; Aug. 1-Oct. 31	July 4-31 ^{cc/}	148	28	26	16
	43°30'00"N latitude to Cape Arago ^{c/}	-	Nov. 1-14 ^{dd/}	-	14	26	16
	Cape Arago to Humbug Mt.	May 1-June 25; Aug. 1-6; Aug. 15-Oct. 31	July 4-9; July 18-23 ^{cc/}	140	12	26	16
	Sisters Rocks to House Rock ^{o/}	May 1-24	-	24	-	26	-
	Sisters Rocks to OR/CA Border	Aug. 1-6; Aug. 8-31	-	30	-	26	-
	Sisters Rocks to Mack Arch ^{o/}	Sept. 3-16	-	14	-	26	-
1991	North of Cape Falcon	May 1-June 15	Aug. 10-11 ^{ee/} ; Sept. 1-2 ^{ff/}	46	4	28	16
	Cape Falcon to Cascade Head	May 1-June 30; ^{gg/} July 15-23; Aug. 1-Oct. 31	July 1-14	162	14	26	16
	Cascade Head to Florence South Jetty	May 1-June 23; ^{gg/} July 12-23; Aug. 1-Oct. 31	June 24-July 11	158	18	26	16
	Florence South Jetty to Cape Arago	July 12-14; Aug. 1-9	June 24-July 11	12	18	26	16
	Florence South Jetty to Humbug Mt.	Sept. 1-Oct. 31	-	61	-	26	-
	Sisters Rocks to Mack Arch	Sept. 1-15 ^{c/}	-	15	-	26	-
1992	North of Cape Falcon	May 1-June 15	July 20-21, 25-27; July 31-Aug. 2; Aug. 6-8, 12-14, 20-22 ^{gg/hh/ii/}	46	17	28	16
	Cape Falcon to Cascade Head	May 1-31; ^{gg/} Sept. 1-Oct. 31	July 22-Aug. 21; ^{pp/} Aug. 22-31 ^{jj/}	92	41	26	16
	Cascade Head to Florence South Jetty	May 1-31; ^{gg/} Aug. 8-Oct. 31	July 22-Aug. 7 ^{pp/}	116	17	26	16
	Cape Blanco to Humbug Mt.	Oct. 24-26 ^{c/}	-	3	-	26	-
1993	North of Cape Falcon	May 1-June 15	July 14-17, 21-24, 28-31; Aug. 4-6, 27-28; Sept. 1-4, 9-12, 16-19 ^{kk/}	46	29	28	16
	Cape Falcon to Florence South Jetty	May 1-Oct. 31 ^{gg/}	-	184	-	26	-
	Florence South Jetty to Cape Arago	May 1-June 30; Sept. 1-Oct. 31 ^{gg/}	-	122	-	26	-
	Cape Arago to Humbug Mt.	May 1-31; Sept. 1-Oct. 31 ^{gg/}	-	92	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 ^{c/}	-	30	-	26	-

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 4 of 9)

Year	Area	Seasons		Number of Days		Minimum Size Limit		
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho	
1994	North of Cape Falcon	-	-	-	-	-	-	
	Cape Falcon to Cascade Head	May 1-June 30; Oct. 1-31 ^{gg/}	-	92	-	26	-	
	Twin Rocks to Pyramid Rock	Nov. 1-15 ^{c/ gg/}	-	15	-	26	-	
	Cascade Head to Florence South Jetty	May 1-June 30; Sept. 1-Oct. 31 ^{gg/}	-	122	-	26	-	
	Florence South Jetty to Humbug Mt.	May 1-June 30; Sept. 1-Oct. 31 ^{gg/}	-	122	-	26	-	
	Cape Blanco to Humbug Mt.	Nov. 1-7 ^{c/ gg/}	-	7	-	26	-	
	Sisters Rocks to House Rock	May 1-2, 5-6, 10-11, 14-15, 18-31 ^{o/ gg/}	-	22	-	26	-	
	Sisters Rocks to Mack Arch	Aug. 8-31 ^{o/ gg/}	-	24	-	26	-	
	Goat Island to Red Pt.	Oct. 10-25; 30-31 ^{c/z/ gg/}	-	18	-	26	-	
1995	North of Cape Falcon	-	-	-	-	-	-	
	Cape Falcon to Cape Arago	May 1-June 30; Aug. 1-Oct. 31 ^{gg/ll/}	-	153	-	26	-	
	Cape Arago to Humbug Mt.	May 1-June 30; Sept. 1-Oct. 31 ^{gg/}	-	122	-	26	-	
	Cape Blanco to Humbug Mt.	Nov. 1-7 ^{mm/nn/}	-	7	-	26	-	
	Sisters Rocks to House Rock	May 1-2, 5-6, 10-11, 14-15, 18-31 ^{oo/}	-	22	-	26	-	
	Sisters Rocks to Mack Arch	July 24-25 ^{oo/}	-	2	-	26	-	
	Goat Island to 42°01'20" N latitude	Oct. 10-20 ^{pp/nn/}	-	11	-	26	-	
1996	North of Cape Falcon	-	-	-	-	-	-	
	Cape Falcon to Cape Arago	May 1-June 30; Aug. 7-Oct. 31 ^{gg/qq/}	-	147	-	26	-	
	Cape Arago to OR/CA Border	May 1-4; May 8-11; May 15-June 4 ^{gg/}	-	29	-	26	-	
	Cape Arago to Humbug Mt.	Aug. 7-Oct. 31 ^{gg/}	-	86	-	26	-	
	Cape Blanco to Humbug Mt.	Nov. 1-30 ^{mm/nn/}	-	30	-	26	-	
	Sisters Rocks to Mack Arch	Aug. 3-4, 7-8, 11-12, 15-31 ^{rr/}	-	23	-	26	-	
	Goat Island to 42°01'20"N latitude	Oct. 14-31 ^{nn/pp/}	-	18	-	26	-	
1997	North of Cape Falcon	May 1-June 15	-	46	-	28	-	
	Cape Falcon to Cape Arago	Apr. 15-June 27; Aug. 1-31; Sept. 4-Oct. 31 ^{gg/qq/}	-	163	-	26	-	
		Twin Rocks to Pyramid Rock	Nov. 1-15 ^{c/ gg/}	-	15	-	26	-
		Cape Arago to OR/CA Border	Apr. 15- May 28	-	44	-	26	-
		Cape Arago to Humbug Mt.	Aug. 1-Oct. 31 ^{gg/}	-	92	-	26	-
		Cape Blanco to Humbug Mt.	Nov. 1-30 ^{mm/nn/}	-	30	-	26	-
		Sisters Rocks to Mack Arch	Aug. 1-2, 5-6, 9-10, 13-31 ^{rr/}	-	25	-	26	-
		Goat Island to 42°01'20"N latitude	Oct. 13-25, 29-30 ^{nn/pp/}	-	15	-	26	-

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 5 of 9)

Year	Area	Seasons		Number of Days		Minimum Size Limit	
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
1998	North of Cape Falcon	May 1-12, 20-23; June 2-4	-	19	-	28	-
	Cape Falcon to Heceta Banks (43°58'00")	Apr. 15-June 30; Aug. 1-28; Sept. 1-Oct. 31 ^{gg/qq/}	-	166	-	26	-
	Twin Rocks to Pyramid Rock	Nov. 1-15 ^{c/gg/}	-	15	-	26	-
	Heceta Banks (43°58'00") to Humbug Mt.	Apr. 15-June 30; Aug. 1-26; Sept. 1-Oct 31 ^{gg/}	-	164	-	26	-
	Humbug Mt. to OR/CA Border	Apr. 15-May 31 ^{gg/}	-	47	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 ^{mm/nn/}	-	30	-	26	-
	Sisters Rocks to Mack Arch	Aug. 1-2, 5-6, 9-10, 13-31 ^{rr/}	-	25	-	26	-
	Goat Island to 42°01'20" N latitude	Oct. 15-31 ^{nn/pp/}	-	17	-	26	-
1999	North of Cape Falcon	May 1-June 15	-	46	-	28	-
	Cape Falcon to Humbug Mt.	Apr. 1-July 17; Aug. 1-29; Sept. 1-Oct. 31 ^{gg/qq/}	-	198	-	26	-
	Twin Rocks to Pyramid Rock	Nov. 1-15 ^{c/gg/}	-	15	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 ^{mm/nn/}	-	45	-	26	-
	Humbug Mt. to OR/CA Border	May 1-31 ^{gg/}	-	31	-	26	-
	Sisters Rocks to Mack Arch	Aug. 1-31 ^{rr/}	-	31	-	26	-
	Goat Island to 42°01'20" N latitude	Oct. 15-31 ^{nn/pp/}	-	17	-	26	-
South of House Rock	Sept. 1-30 ^{ss/}	-	30	-	26	-	
2000	North of Cape Falcon	May 1-June 15	Aug. 4-7, 11-14, 18-21, 25-28; Sept. 1-5 ^{tt/}	46	21	28	16
	Cape Falcon to Humbug Mt.	Apr. 1-July 22; Aug. 1-29; Sept. 1-Oct. 31 ^{gg/qq/}	-	203	-	26	-
	Twin Rocks to Pyramid Rock	Apr. 1-July 22; Aug. 1-29; Sept. 1-ov. 15 ^{c/gg/}	-	218	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 ^{mm/nn/}	-	45	-	26	-
	Humbug Mt. to OR/CA Border	May 1-31 ^{gg/}	-	31	-	26	-
	Sisters Rocks to OR/CA Border	Aug. 1-11	-	11	-	26	-
	Goat Island to 42°01'20" N latitude	Oct. 16-31 ^{nn/pp/}	-	16	-	26	-
	South of House Rock	Sept. 1-5 ^{ss/}	-	5	-	26	-

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 6 of 9)

Year	Area	Seasons		Number of Days		Minimum Size Limit	
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
2001	North of Cape Falcon	May 1-June 15	July 20-23, 27-30; Aug. 3-12, 17-27; Aug. 31-Sept. 30 ^{tt}	46	60	28	16
	Cape Falcon to Florence South Jetty	Apr. 1-July 18; July 27-Aug. 29; Sept. 1-Oct. 31 ^{gg/qq/}	-	204	-	26	-
	Twin Rocks to Pyramid Rock (Tillamook Area)	Apr. 1-July 18; July 27-Aug. 29; Sept. 1-Nov. 15 ^{c/gg/}	-	219	-	26	-
	Florence South Jetty to Humbug Mt.	Apr. 1-July 9; July 18-Aug. 29; Sept. 1-Oct. 31 ^{gg/}	-	204	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 ^{c/mm/nn/}	-	45	-	26	-
	Humbug Mt. to OR/CA Border	May 1-31 ^{gg/}	-	31	-	26	-
		June 3-4, 7-8, 11-12, 15-30 ^{gg/}	-	22	-	26	-
		Aug. 1-31 ^{gg/}	-	31	-	26	-
	South of Humbug Mt.	Sept. 1-30 ^{uu/}	-	30	-	26	-
	Twin Rocks (42°05'36" N latitude) to OR/CA Border (Chetco Area)	Oct. 13-31 ^{c/nn/pp/}	-	19	-	26	-
2002	North of Cape Falcon	May 1-June 7; July 1-8; July 12-22; July 26-31	Aug. 1-5; Aug. 9-18; Aug 22-28 ^{tt}	63	22	28	16
	Cape Falcon to Florence South Jetty	Mar. 20-July 15; Aug. 1-29; Sept. 1-Oct. 31 ^{gg/}	-	208	-	26	-
	Twin Rocks to Pyramid Rock (Tillamook Area)	Mar. 20-July 15; Aug. 1-29; Sept. 1-Nov. 14 ^{c/gg/nn/}	-	222	-	26	-
	Florence South Jetty to Humbug Mt.	Mar. 20-June 30; July 17-Aug. 29; Sept. 1-Oct. 3 ^{gg/}	-	208	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 ^{c/gg/}	-	45	-	26	-
	Humbug Mt. to OR/CA Border	Mar. 20-May 31; June 1-30; July 1-26; Aug. 1-29; Sept. 1-9 ^{vv/}	-	167	-	26	-
		Oct. 14-Nov. 3 ^{c/mm/nn/pp}	-	21	-	26	-

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 7 of 9)

Year	Area	Seasons		Number of Days		Minimum Size Limit	
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
2003	North of Cape Falcon	May 1-June 6; June 26-30;	July 3-Sept. 14, Thurs. through Mon. ^{tt/}	42	54	28	16
	Cape Falcon to Florence South Jetty	Mar. 15-Apr. 30	-	204	-	26	-
		May 1-July 16; Aug. 1-19; Sept. 1-30	-	-	-	27	-
		Oct. 1-31 ^{gg/}	-	-	-	28	-
	Twin Rocks to Pyramid Rock (Tillamook Area)	Mar. 15-Apr. 30	-	218	-	26	-
		May 1-July 16; Aug. 1-19; Sept. 1-30	-	-	-	27	-
		Oct. 1-31	-	-	-	28	-
	Florence South Jetty to Humbug Mt.	Nov. 1-Nov. 14 ^{c/gg/nn/}	-	-	-	26	-
		Mar. 15-Apr. 30	-	203	-	26	-
		May 1-June 30; July 17-31; Aug. 11-29; Sept. 1-30	-	-	-	27	-
Cape Blanco to Humbug Mt.	Oct. 1-31 ^{gg/}	-	-	-	28	-	
	Nov. 1-Dec. 15 ^{c/gg/}	-	45	-	26	-	
	Mar. 15-May 31; June 1-30; July 1-31;	-	198	-	26	-	
Humbug Mt. to OR/CA Border	Aug. 1-29;	-	-	-	-	-	
	Sept. 1-30 ^{ww/}	-	-	-	28	-	
	Oct. 13-Nov. 3 ^{nn/pp}	-	22	-	26	-	
Twin Rocks (42°05'36" N latitude) to OR/CA Border (Chetco Area)							
2004	North of Cape Falcon	May 1-5; May 15-18; May 24-26; June 26-30 ^{xx/}	July 8-12, 16-19, 22-26; July 29-Aug. 2; Aug 5-9, 11-15, 18-22, 25-29; Sept. 1-5 ^{yy/tt/}	17	44	28	16
	Cape Falcon to Florence South Jetty	Mar. 15-Apr.30	-	204	-	26	-
		May 1-June 30; July 7-12; 19-27; Aug. 1-14, 19-24; Sept. 1-30	-	-	-	27	-
		Oct. 1-31 ^{gg/}	-	-	-	28	-
	Twin Rocks to Pyramid Rock (Tillamook Area)	Mar. 15-Apr.30	-	219	-	26	-
		May 1-June 30; July 7-12, 19-27; Aug. 1-14, 19-24; Sept. 1-30	-	-	-	27	-
		Oct. 1-3	-	-	-	28	-
	Florence South Jetty to Humbug Mt.	Nov. 1-Nov. 15 ^{c/gg/nn/}	-	-	-	26	-
		Mar. 15-Apr. 30	-	205	-	26	-
		May 1-July 6; July 13-18, 26-29 Aug. 1-8, 15-22, 26-29; Sept. 1-30	-	-	-	27	-
Cape Blanco to Humbug Mt.	Oct. 1-31 ^{gg/}	-	-	-	28	-	
	Nov. 1-Dec. 15 ^{c/gg/}	-	45	-	26	-	
	Mar. 15-Apr. 30	-	142	-	26	-	
Humbug Mt. to OR/CA Border	May 1-31; June 1-19; July 1-19; Aug. 1-4;	-	-	-	27	-	
	Sept. 1-3, 8-10, 15-30 ^{zz/}	-	-	-	28	-	
	Oct. 13-Nov. 3 ^{nn/pp}	-	22	-	26	-	
Twin Rocks (42°05'36" N latitude) to OR/CA Border (Chetco Area)							

a/ Closed early in response to court order to meet Columbia River fall chinook treaty Indian obligations.

b/ Closed in Oregon waters Sept. 3 for coho. EEZ closed on Sept. 15.

TABLE C-3. Summary of actual Oregon troll salmon seasons in state and federal (EEZ) waters. (Page 8 of 9)

- c/ State waters only.
- d/ Special lottery-selected, 10-boat only experimental troll fishery off Columbia River mouth out to 12 miles for coho only from Sept. 20-Oct. 9.
- e/ State waters open until Aug. 24.
- f/ From Aug. 25 in state waters, Cape Falcon to Cape Sebastian, whole bait or ≥ 5 inch plugs.
- g/ Incidental coho allowance $\leq 33\%$ per trip; 20,000 coho total. Conservation zone closure off Columbia River mouth, May 1-31 and July 1-31.
- h/ Limited to area of Columbia River (south jetty) to Cape Falcon out to 10 miles only.
- i/ From July 26-31, chinook fishing allowed from Cape Perpetua south.
- j/ From Sept. 1-15, fishery limited to 12 by 24 nautical mile area off Rogue River mouth.
- k/ Sept. 1-21 state waters only.
- l/ At least 1 chinook must be possessed or landed for each coho possessed or landed.
- m/ A single daily possession or landing of 50 coho is permitted without chinook restrictions. Over 50 coho, at least 1 chinook must be possessed or landed for each 2 coho possessed or landed.
- n/ July 1-20, at least 1 chinook must be possessed or landed for each 2 coho possessed or landed. July 23-24, see footnote m/.
- o/ Open from 0 to 6 nautical miles only.
- p/ At least 1 chinook must be possessed or landed for each 2 coho possessed or landed during the all salmon season.
- q/ July 15-Aug. 28, a single daily possession limit of 100 coho is permitted without chinook restrictions. Over 100 coho, at least 1 chinook must be possessed or landed for each 2 coho possessed or landed.
- r/ Aug. 29-Sept. 15, no more than 200 coho may be possessed or landed without chinook restrictions. Over 200 coho, at least 1 chinook must be possessed or landed for each 2 coho possessed or landed.
- s/ Aug. 1-28, at least 1 chinook must be possessed or landed for each 2 coho possessed or landed, except that 1 coho may be possessed or landed without having chinook.
- t/ Sept. 16-18 closed to all commercial salmon fishing from Cape Arago to Cape Blanco.
- u/ One chinook must be possessed or landed for each 2 coho possessed or landed, except that the first 2 coho may be landed without a chinook.
- v/ Open from Columbia River to Cape Falcon on Aug. 21, open area extended north to Leadbetter Pt. from Aug. 24-Sept. 10.
- w/ A single daily limit of 40 coho and 4 chinook in effect Aug. 21 and Aug. 24-27. Daily landing limit of 40 coho and 8 chinook in effect from Aug. 28-Sept. 10.
- x/ A single daily landing of 50 coho in effect from July 18-Aug. 13. From Aug. 14-17, at least 1 chinook must be landed for each 2 coho landed, except that a single daily landing of 2 coho without any chinook is permitted.
- y/ A single daily landing of 50 coho plus 3 coho for each chinook landed in effect from July 1-14. For the remainder of the season, at least 1 chinook must be landed for each 2 coho landed, except that a single daily landing of 2 coho without any chinook is permitted.
- z/ A single daily landing of 20 chinook was permitted.
- aa/ Vessel landing limits of not more than 20 chinook and 200 coho for Aug. 18-21 opening and not more than 200 coho for Aug. 25-26 opening. Single daily landing limits of 50 coho during Aug. 30-Sept. 24 and 100 coho after Sept. 25.
- bb/ Single daily landing limit per vessel of 50 coho without landing chinook. Above 50 coho, at least 1 chinook must be landed for each coho.
- cc/ At least 1 chinook must be landed for each coho landed, except 1 coho may be landed without having chinook.
- dd/ Special test fishery restricted to 10 lottery selected vessels.
- ee/ Open period restriction of not more than 100 coho per vessel.
- ff/ Open period restriction of not more than 75 coho per vessel.
- gg/ Gear restriction of not more than 4 spreads per line. In 1991 this restriction applied only in June. In 1992 the restriction applied in May and June. Beginning in 1993, the restriction applied to the entire season.
- hh/ Open period restriction of not more than 30 coho per vessel from July 20-21 and not more than 44 coho per vessel for each of the remaining open periods.
- ii/ Gear restricted to 6 inch plugs or larger.
- jj/ Single daily landing limit of 25 coho without landing chinook. Above 25 coho, at least 1 chinook must be landed for each 2 coho.
- kk/ Gear restriction of not more than 4 spreads per line for all open periods. From July 14 through Aug. 6, gear restriction of plugs and/or whole bait 6 inches or larger. Coho landing restriction per open period as follows: not more than 50 per period from July 14 through Aug. 6; not more than 35 coho per period from Aug. 27-28; and not more than 70 per period from Sept. 1-19.
- ll/ Closed at mouth of Tillamook Bay in June, Aug., and Sept.; open only 0-3 nautical miles north of Cape Lookout in Sept.
- mm/ No more than 4 spreads per line. Open 0-3 nautical miles. Landings restricted to Port Orford.

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 9 of 9)

nn/	Chinook only.
oo/	No more than 4 spreads per line. Open 0-6 nautical miles in May and 0-4 nautical miles in July. Landings restricted to Port Orford, Gold Beach, and Brookings. Closed within 1 mile of Rogue River mouth.
pp/	No more than 4 spreads per line. Open 0-3 nautical miles. Landings restricted to the Port of Brookings. Single-daily-landing limit of 20 chinook, except 25 fish per day in 2002- 2004.
qq/	Closed at mouth of Tillamook Bay: 1996 - June 1 through Sept. 15; 1997 - April 15 through Sept. 15; 1998 - April 15 through April 30 and June 1 through Sept. 15; 1999 - April 1 through 30 and June 1 through Sept. 15; 2000 - April 1 through April 30 and June 1 through Sept. 15; 2001 - April 1 through April 30 and June 1 through Aug. 31.
rr/	No more than 4 spreads per line. Open 0-4 nautical miles. Landings restricted to Port Orford, Gold Beach, and Brookings. Closed within 1 mile of Rogue River mouth.
ss/	No more than 4 spreads per line. All fish must be landed between House Rock and Humboldt south jetty under a limit of 30 fish per day and a harvest guideline limiting landings at the Port of Brookings to no more than 1,000 chinook.
tt/	All retained coho must have a healed adipose fin clip except Sept. 1-5, 2004.
uu/	No more than 4 spreads per line. All fish must be landed between Humbug Mt. and Humboldt south jetty under a limit of 30 fish per day and a harvest guideline limiting the combined landings at the ports of Port Orford, Gold Beach, and Brookings to no more than 2,000 chinook.
vv/	No more than 4 spreads per line. Landings restricted to Port Orford, Gold Beach, and Brookings. Possession and landing limit of 50 fish per trip.
ww/	No more than 4 spreads per line. Landings restricted to Port Orford, Gold Beach, and Brookings. Possession and landing limit of 50 fish per trip June 1-August 29; 65 fish per trip Sept. 1-30.
xx/	Open period landing restriction of not more than 25 chinook per vessel from May 15-18; 70 chinook from May 24-26; 50 chinook from June 26-30.
yy/	Open period landing restriction of not more than 100 chinook per vessel from July 8-12; and 125 chinook for each subsequent open period.
zz/	No more than 4 spreads per line. Landings restricted to Port Orford, Gold Beach, and Brookings. Possession and landing limit of 50 fish per trip June 1-August 31; 65 fish per trip Sept. 1-30.

TABLE C-4. Summary of actual **Oregon recreational** ocean salmon seasons, size limits and bag limits in state and federal (EEZ) waters. (Page 1 of 6)

Year	Area	Season ^{a/}	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
1980	North of Cape Falcon	May 10-July 15	67	3	24	16
		July 16-Sept. 1	48	2	24	16
		Sept. 2-14 ^{b/}	13	2 ^{c/}	24	-
	South of Cape Falcon	May 10-July 15	67	3	22	16
		July 16-Sept. 1	48	2	22	16
		Sept. 2-14 ^{b/}	13	2	22	16
	Cape Blanco to Humbug Mt. Goat Island to OR/CA Border	Sept. 15-Oct. 31	60	2 ^{d/}	22	-
		Nov. 1-30 ^{b/}	30	2 ^{c/}	22	-
		Nov. 1-30 ^{b/}	30	2 ^{c/}	22	-
1981	North of Cape Falcon	May 23-Aug. 26	108	2	24	16
		Aug. 27-Sept. 7 ^{b/}	12	2	24	16
	South of Cape Falcon	May 15-Aug. 13	115	2	22	16
		Aug. 14-26	13	3	22	16
		Aug. 27-Sept. 20 ^{b/}	25	3	22	16
	South of Cape Blanco Cape Blanco to Humbug Mt. Goat Island to OR/CA Border	Sept. 21-Oct. 31	41	2 ^{c/}	22	-
		Nov. 1-30 ^{b/}	30	2 ^{c/}	22	-
		Nov. 1-30 ^{b/}	30	2 ^{c/}	22	-
		Nov. 1-30 ^{b/}	30	2 ^{c/}	22	-
1982	Leadbetter Pt. to Cape Falcon	June 12-July 24	43	2	24	16
	Columbia River South Jetty to Cape Falcon	July 25-Aug. 1 ^{b/}	8	2 ^{e/}	24	16
		May 29-July 21	54	2 ^{f/}	None	None
	Cape Falcon to Cape Blanco	July 22-Aug. 1 ^{b/}	11	2 ^{f/}	None	None
		Aug. 2-Oct. 31	91	2 ^{c/f/}	None	-
	Cape Blanco to Humbug Mt. Goat Island to OR/CA Border	Nov. 1-30 ^{b/}	30	2 ^{c/f/}	None	-
		Nov. 1-30 ^{b/}	30	2 ^{c/f/}	None	-
	1983	Klipsan Beach to Cape Falcon	June 18-July 29 ^{g/h/}	42	2	24
July 30-Aug. 15			17	2	24	16
Columbia River South Jetty to Cape Falcon		Aug. 16-Sept. 11 ^{i/h/}	44	2	24	16
		June 18-Sept. 18	93	2 ^{f/}	None	None
Twin Rocks to Pyramid Rock		Sept. 19-Oct. 31 ^{b/}	43	2 ^{c/}	24	-
		May 28-Sept. 18	114	2 ^{f/}	None	None
South of Cape Blanco		Sept. 19-Oct. 31	43	2 ^{c/f/}	None	None
		Nov. 1-30 ^{b/}	30	2 ^{c/f/}	None	-
1984	Columbia River South Jetty to Cape Falcon	July 28-Aug. 8 ^{i/h/v/}	12	2 ^{k/}	None	16
		July 9-Aug. 7	30	2	20	20
		Aug. 25-Sept. 3 ^{b/}	10	1	20	20
	Manhattan Beach to Pyramid Rock	Sept. 15-21 ^{b/}	7	2 ^{c/}	20	-
		July 9-Aug. 7	30	2	20	20
	South of Cape Blanco	Aug. 8-24	17	2 ^{c/}	20	-
		Aug. 25-Sept. 3 ^{b/v/}	10	2 ^{e/}	20	20
		Sept. 4-Oct. 31	58	2 ^{c/}	20	-
Cape Blanco to Humbug Mt.	Nov. 1-30 ^{b/}	30	2 ^{c/}	20	-	
1985	Leadbetter Pt. to Cape Falcon	June 30-Aug. 22 ^{m/h/j/}	40	2	24	16
	Cape Falcon to Cape Blanco	July 1-Sept. 2	64	2 ^{n/i/}	None	None
	Twin Rocks to Pyramid Rock	Sept. 15-Oct. 31 ^{b/}	47	2 ^{c/h/}	None	-
	South of Cape Blanco	May 25-31; July 1-Sept. 2	71	2 ^{f/n/}	None	None
		Sept. 3-Oct. 31	59	2 ^{c/f/n/}	None	-
	Tower Rock to Humbug Mt.	Oct. 1-Nov. 30 ^{b/}	61	2 ^{c/h/}	None	-

TABLE C-4. Summary of actual **Oregon recreational** ocean salmon seasons, size limits and bag limits in state and federal (EEZ) waters. (Page 2 of 6)

Year	Area	Season ^{a/}	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
1986	Columbia River South Jetty to Cape Falcon	June 29-Aug. 19 ^{i/m/}	37	2	24	16
	Cape Falcon to Cape Blanco	May 24-26; June 28-July 26	32	2 ^{i/n/}	None	None
		July 27-Aug. 13 ^{o/}	9	2 ^{p/f/}	None	None
	Twin Rocks to Pyramid Rock	Sept. 15-Nov. 15 ^{b/}	62	2 ^{c/n/}	None	-
	South of Cape Blanco	May 24-June 22	30	2 ^{q/n/}	20	20
		June 23-Sept. 7	77	2 ^{n/}	20	20
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 26 ^{b/}	57	2 ^{c/n/}	20	-
	Bird Isl. to OR/CA Bdr. East of 124°20'W longitude	Oct. 1-31 ^{b/}	31	2 ^{c/n/}	20	-
1987	North of Cape Falcon	June 29-Aug. 19 ^{t/h/j/m/}	39	2	24	16
	Cape Falcon to Cape Blanco	June 13-Sept. 13	93	2 ^{i/n/}	None	None
	Twin Rocks to Pyramid Rock	Sept. 15-Oct. 31 ^{b/}	46	2 ^{i/n/}	None	-
	South of Cape Blanco	May 23-Sept. 13	114	2 ^{n/}	20	20
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 30 ^{b/}	61	2 ^{c/n/}	20	-
	Bird Isl. to OR/CA Bdr. East of 124°20'W longitude	Oct. 1-31 ^{b/}	31	2 ^{c/n/}	20	-
1988	Klipsan Beach to Cape Falcon	July 11-24 ^{s/h/m/}	10	2 ^{j/}	24	16
	Cape Falcon to Orford Reef Red Buoy	May 1-27 ^{b/u/}	27	2 ^{n/}	20	16
		May 28-Sept. 11	107	2 ^{n/}	20	16
	Twin Rocks to Pyramid Rock	Sept. 12-Oct. 31 ^{b/}	50	2 ^{c/n/}	None	-
	South of Orford Reef Red Buoy	May 28-July 9	43	2 ^{n/}	20	20
		July 10-Sept. 11	64	1 ^{n/}	20	20
	Orford Reef Red Buoy to Humbug Mt.	Oct. 1-31 ^{b/}	31	2 ^{c/n/}	None	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 ^{b/}	30	2 ^{c/n/}	None	-
1989	North of Cape Falcon	May 28-June 12 ^{h/v/}	10	2 ^{c/}	24	-
	Leadbetter Pt. to Cape Falcon	June 26-Aug. 17 ^{h/m/}	39	2	24	16
	Cape Falcon to Orford Reef Red Buoy	May 1-26 ^{u/}	26	2 ^{n/}	20	16
		May 27-July 27	62	2 ^{n/}	20	16
		July 28-Aug. 20 ^{m/}	16	2 ^{n/}	20	16
		Sept. 2-4	3	2 ^{n/}	20	16
	Twin Rocks to Pyramid Rock	Sept. 16-Oct. 31 ^{b/}	46	2 ^{c/n/}	24	-
	South of Orford Reef Red Buoy	May 1-Sept. 30	153	2 ^{n/}	20	20
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 30 ^{b/}	61	2 ^{c/n/}	20	-
1990	Leadbetter Pt. to Cape Falcon	June 24-Aug. 30 ^{h/m/}	50	2	24	16
	Cape Falcon to Humbug Mt.	May 1-27 ^{u/}	27	2 ^{n/}	20	16
		May 28-June 22;	26	2 ^{n/}	20	16
		June 30-July 31;	32	2 ^{n/}	20	16
		Aug. 8-Sept. 16	98	2 ^{n/}	20	16
	Twin Rocks to Pyramid Rock	Sept. 17-Oct. 31 ^{b/}	45	2 ^{c/n/}	None	-
South of Humbug Mt.	May 1-Sept. 9	132	2 ^{w/n/}	20	20	
1991	North of Cape Falcon	June 24-Aug. 12 ^{h/m/}	36	2	24	16
		Sept. 15-18; Sept. 26 ^{x/}	5	2	24	16
	Cape Falcon to Humbug Mt.	May 1-26 ^{u/}	26	2 ^{n/}	20	16
		May 27-July 28	62	2 ^{n/}	20	16
	Twin Rocks to Pyramid Rock	Sept. 16-Oct. 31 ^{b/}	47	2 ^{c/n/}	None	-
	South of Humbug Mt.	May 25-July 28 ^{y/}	47	2 ^{i/n/}	20	20
		Aug. 31-Sept. 2	3	2 ^{i/n/}	20	20
		Sept. 6-29 ^{z/}	12	2 ^{i/n/}	20	20

TABLE C-4. Summary of actual **Oregon recreational** ocean salmon seasons, size limits and bag limits in state and federal (EEZ) waters. (Page 3 of 6)

Year	Area	Season ^{al}	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
1992	North of Cape Falcon	June 29-July 30 ^{b/}	24	2 ^{aa/}	24	16
		Aug. 2-6 ^{h/m/}	5	2 ^{aa/}	24	16
		Sept. 14-17; Sept. 27 ^{h/}	5	2 ^{aa/}	24	16
	Cape Falcon to Heceta Head	May 3-June 11 ^{m/u/}	30	2 ^{bb/aa/}	20	16
		June 14-Sept. 10 ^{m/}	65	2 ^{aa/bb/}	20	16
	Twin Rocks to Pyramid Rock	Sept. 16-Oct. 31 ^{b/}	46	2 ^{c/n/bb/}	None	-
		May 3-June 11 ^{m/u/}	30	2 ^{aa/bb/}	20	16
	Heceta Head to Humbug Mt.	June 14-July 2 ^{m/}	15	2 ^{aa/bb/}	20	16
		July 5-Aug. 31 ^{m/cc/}	42	2 ^{aa/bb/}	-	16
	Cape Blanco to Humbug Mt.	Sept. 1-Sept. 10 ^{m/}	8	2 ^{aa/bb/}	20	16
		Oct. 24-26 ^{b/}	3	1 ^{c/aa/bb/}	20	-
	South of Humbug Mt.	July 6-20 ^{dd/}	7	1	20	20
Sept. 1-7		7	1	20	20	
Goat Island to Red Pt.	Oct. 15-26 ^{b/}	12	1 ^{c/n/}	20	-	
1993	North of Cape Falcon	July 5-Sept. 9 ^{h/m/}	49	2 ^{aa/}	24	16
		Sept. 12-23 ^{h/}	12	2 ^{aa/}	24	16
	Cape Falcon to Humbug Mt.	May 1-June 6 ^{m/u/}	37	2 ^{b/ff/}	20	16
		July 13-Aug. 10 ^{ee/}	13	2 ^{b/ff/}	20	16
	Twin Rocks to Pyramid Rock	Sept. 16-Oct. 31 ^{b/}	46	2 ^{c/n/ff/}	None	-
	Cape Blanco to Humbug Mt.	Oct. 1 - Nov. 30 ^{b/}	61	1 ^{c/n/ff/}	20	-
	South of Humbug Mt.	May 5-June 19 ^{gg/}	28	1 ^{n/}	20	20
		July 14-Aug. 28 ^{gg/}	28	1 ^{n/}	20	20
	Sept. 1-6	6	1 ^{n/}	20	20	
	1994	North of Cape Falcon	-	-	-	-
Cape Falcon to Humbug Mt.		May 1-June 5 ^{u/}	36	2 ^{c/p/ff/}	20	-
		Twin Rocks to Pyramid Rock	June 6-19 and Oct. 1-Nov. 15 ^{b/}	60	2 ^{c/p/ff/}	20
Cape Blanco to Humbug Mt.		Oct. 1-Nov. 7 ^{b/}	38	1 ^{d/aa/}	20	-
		South of Humbug Mt.	May 1-June 7; Aug. 27-31; Sept. 1-5	48	2 ^{c/n/}	20
Goat Island to Red Pt.		Oct. 10-20 ^{b/}	11	1 ^{d/aa/}	20	-
1995	North of Cape Falcon	July 24-Sept. 5; Sept. 10-11 ^{m/}	37	2 ^{aa/cc/hh/}	-	16
	Cape Falcon to Humbug Mt.	May 1-June 30	61	2 ^{c/ii/}	20	-
	Twin Rocks to Pyramid Rock	Sept. 16-Nov. 15 ^{b/}	61	2 ^{d/ii/}	20	-
	Cape Foulweather to Seal Rock	Sept. 16-Oct. 31 ^{b/}	46	2 ^{d/ii/}	20	-
	3 Miles North of North Coos Bay Jetty to Cape Arago	Sept. 16-Oct. 31 ^{b/}	46	2 ^{d/ii/}	20	-
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 7 ^{b/}	38	2 ^{d/aa/ii/}	20	-
	South of Humbug Mt.	May 17-July 1; Aug. 16-18 ^{gg/}	31	1 ^{c/}	20	-
		Sept. 1-9	9	1 ^{c/n/}	20	-
Goat Isl. to 42°01'20" N	Oct. 10-15; 21-22 ^{b/}	8	1 ^{d/aa/}	20	-	
1996	North of Cape Falcon	July 22-Sept. 26 ^{m/}	49	2 ^{aa/cc/}	-	16
	Cape Falcon to Humbug Mt.	May 1-July 7; Aug. 16-Sep. 30	114	2 ^{c/n/ij/}	20	-
	Twin Rocks to Pyramid Rock	Oct. 1-31 ^{b/}	31	2 ^{aa/d/ij/}	20	-
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 30 ^{b/}	61	1 ^{d/aa/}	20	-
	South of Humbug Mt.	May 12-July 7; Aug. 18-Sept. 21	92	1 ^{c/aa/}	20	-
		Goat Isl. to 42°01'20"	Oct. 5-13 ^{b/}	9	1 ^{d/aa/}	20
1997	North of Cape Falcon	July 21-Aug. 7 ^{m/}	14	2 ^{aa/}	24	16
	Cape Falcon to Humbug Mt.	Apr. 15-July 6; Aug. 1-Oct. 31	175	2 ^{c/n/kk/}	20	-
		Twin Rocks to Pyramid Rock	Apr. 15-July 6; Aug. 1-Nov. 15 ^{b/}	190	2 ^{aa/d/kk/}	20
	Cape Blanco to Humbug Mt.	Nov. 1-30 ^{b/}	30	1 ^{d/aa/}	20	-
	South of Humbug Mt.	May 24-30; June 17-July 6; Aug. 12-Sept. 14	61	1 ^{c/aa/}	20	-
		Goat Isl. to 42°01'20"	Oct. 4-12 ^{b/}	9	1 ^{d/aa/}	20

TABLE C-4. Summary of actual **Oregon recreational** ocean salmon seasons, size limits and bag limits in state and federal (EEZ) waters. (Page 4 of 6)

Year	Area	Season ^{al}	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
1998	North of Cape Falcon	Aug. 3-9; Sept. 3 ^{m/}	6	2 ^{ll/}	24	16
	Cape Falcon to Humbug Mt.	Apr. 15-July 5; Aug. 1-Oct. 31	174	2 ^{mm/c/n/}	20	-
	Twin Rocks to Pyramid Rock	Apr. 15-July 5; Aug. 1-Nov. 15 ^{b/}	179	2 ^{aa/d/mm/}	20	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 ^{b/}	30	1 ^{d/aa/}	20	-
	South of Humbug Mt.	May 23-June 10; June 21-July 5; Aug. 11-Sept. 13	68	1 ^{c/aa/}	20	-
	Goat Isl. to 42°01'20"	Oct. 5-14 ^{b/}	10	1 ^{d/aa/}	20	-
1999	North of Cape Falcon	July 19-Sept. 30 ^{nn/}	62	2 ^{ll/}	24	16
	Cape Falcon to Humbug Mt.	Apr. 1-July 9; Aug. 1-Oct. 31	207	2 ^{c/n/mm/}	20	-
		July 10-11; 14-15; 18-19; 22-23; 26-27; 30-31	12	2 ^{n/oo/}	20	16
	Twin Rocks to Pyramid Rock	Apr. 1-July 9; Aug. 1-Nov. 15 ^{b/}	222	2 ^{d/aa/mm/}	20	-
		July 10-11; 14-15; 18-19; 22-23; 26-27; 30-31 ^{b/}	12	2 ^{oo/aa/mm/}	20	16
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 ^{b/}	45	1 ^{d/aa/}	20	-
	South of Humbug Mt.	May 29-July 4; July 29-Sept. 14;	85	1 ^{c/aa/}	20	-
	Goat Island to 42°01'20"	Oct. 2-11 ^{b/}	10	1 ^{pp/d/}	20	-
2000	North of Cape Falcon	July 10-Aug. 13 ^{m/}	25	2 ^{ll/}	24	16
	Cape Falcon to Humbug Mt.	Apr. 1-June 30; July 26-Oct. 31	189	2 ^{c/n/mm/}	20	-
		July 1-2; 4-6; 8-9; 11-13; 15-16; 18-20; 22-23; 25	18	2 ^{n/oo/}	20	16
	Twin Rocks to Pyramid Rock	Apr. 1-June 30 ^{b/}	91	2 ^{d/p/mm/}	20	-
		July 26-Nov. 15 ^{b/}	76	2 ^{d/aa/mm/}	20	-
		July 1-2; 4-6; 8-9; 11-13; 15-16; 18-20; 22-23; 25 ^{b/}	18	2 ^{oo/aa/mm/}	20	16
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 ^{b/}	45	1 ^{d/aa/}	20	-
	South of Humbug Mt.	May 27-July 6; July 29-Sept. 10	85	1 ^{c/aa/qq/}	20	-
	Goat Isl. to 42°01'20"	Oct. 7-15 ^{b/}	9	1 ^{d/pp/}	20	-
2001	North of Cape Falcon	July 1-Sept. 30 ^{m/}	98	2 ^{ll/}	24	16
	Cape Falcon to Humbug Mt.	Apr. 1-June 21, July 20-Oct 31	186	2 ^{c/n/mm/}	20	-
		June 22-July 19	28	2 ^{n/oo/}	20	16
	Twin Rocks to Pyramid Rock (Tillamook Area)	Apr. 1-June 21 ^{b/}	82	2 ^{d/p/mm/}	20	-
		July 20-Nov. 15 ^{b/}	119	2 ^{d/aa/mm/}	20	-
		June 22-July 19 ^{b/}	28	2 ^{oo/n/mm/}	20	16
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 ^{b/}	45	2 ^{d/}	20	-
	South of Humbug Mt.	May 17-July 8; July 24-Sept. 3	95	1 ^{c/aa/rrr/}	20	-
	Twin Rocks(42°05'36"N) to OR/CA Border (Chetco Area)	Oct. 1-12 ^{b/}	12	1 ^{d/pp/}	20	-
2002	North of Cape Falcon ^{ss/}	May 25-June 16	23	2 ^{c/}	24	-
		July 7-Aug. 8 ^{m/}	25	2 ^{c/oo/}	24 ^{tt/}	16
		Aug. 11-Sept. 2, 6-15	32	2 ^{uu/}	-	16
	Cape Falcon to Humbug Mt.	Apr. 1-July 6; Aug. 2-Oct. 31	188	2 ^{c/mm/}	20	-
		July 7- Aug. 1	26	2 ^{oo/}	20	16
	Twin Rocks to Pyramid Rock (Tillamook Area)	Apr. 1-July 6 ^{b/}	97	2 ^{d/mm/}	20	-
		Aug. 2-Nov. 15 ^{b/}	106	2 ^{d/aa/mm/}	20	-
		July 7-Aug. 1 ^{b/}	26	2 ^{oo/}	20	16
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 ^{b/}	45	2 ^{d/}	20	-
	South of Humbug Mt.	May 15-June 30; July 3-4; Aug. 1-Sept. 15	95	2 ^{c/aa/}	20	-
	Twin Rocks(42°05'36"N) to OR/CA Border (Chetco Area)	Oct.1-13 ^{b/}	13	1 ^{d/pp/}	20	-

TABLE C-4. Summary of actual **Oregon recreational** ocean salmon seasons, size limits and bag limits in state and federal (EEZ) waters. (Page 5 of 6)

Year	Area	Season ^{a/}	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
2003	North of Cape Falcon ^{ss/}	June 29-July 23 ^{m/}	19	2	26	16
		July 24-Sept. 30	69	2	26	16
	Cape Falcon to Humbug Mt.	Mar. 15-June 20; Aug. 20-Oct. 31	171	2 ^{c/mm/}	20	-
		June 21- Aug. 19	60	2 ^{oo/}	20	16
	Twin Rocks to Pyramid Rock (Tillamook Area)	Mar. 15-June 20 ^{b/}	37	2 ^{d/mm/}	20	-
		Aug. 20-Nov. 15 ^{b/}	88	2 ^{d/aa/mm/}	20	-
	Cape Blanco to Humbug Mt.	June 21-Aug. 19 ^{b/}	60	2 ^{oo/}	20	16
		Nov. 1-Dec. 15 ^{b/}	45	2 ^{d/}	20	-
	South of Humbug Mt. Twin Rocks(42°05'36"N) to OR/CA Border (Chetco Area)	May 17-Sep. 14	121	2 ^{c/}	20	-
		Oct.1-12 ^{b/}	12	1 ^{d/pp/}	20	-
2004	North of Cape Falcon ^{ss/}	June 27-July 22 ^{m/}	20	2 ^{vv/}	26	16
		July 23-Sept. 30	70	2	26 ^{ww/}	16
	Cape Falcon to Humbug Mt.	Mar. 15-June 18; Sep. 1-Oct. 31	157	2 ^{c/mm/}	20	-
		June 19- Aug. 31	74	2 ^{oo/}	20	16
	Twin Rocks to Pyramid Rock (Tillamook Area)	Mar. 15-June 18 ^{b/}	96	2 ^{d/mm/}	20	-
		Sept. 1-Nov. 15 ^{b/}	76	2 ^{d/aa/mm/}	20	-
	Cape Blanco to Humbug Mt.	June 19-Aug. 31 ^{b/}	74	2 ^{oo/}	20	16
		Nov. 1-Dec. 15 ^{b/}	45	2 ^{d/}	20	-
	South of Humbug Mt. Twin Rocks(42°05'36"N) to OR/CA Border (Chetco Area)	May 15-June 18; Sep. 1-12	47	2 ^{c/}	20	-
		June 19- Aug. 31	74	2 ^{oo/}	20	16
		Oct.1-12 ^{b/}	12	1 ^{d/pp/}	20	-

- a/ Dates are inclusive.
- b/ Open in state waters only.
- c/ Open for all-salmon-except-coho.
- d/ Open for chinook only.
- e/ Only 1 coho allowed in bag limit.
- f/ Must retain the first 2 salmon caught.
- g/ Open inside of 6 miles from Cape Falcon north to 46°06'00" and inside of 3 miles from 46°06'00" to the south jetty of the Columbia River.
- h/ Mouth of the Columbia River is closed.
- i/ Open inside of 10 miles from Cape Falcon north to the Lightship Buoy, then on a line to the south jetty of the Columbia River.
- j/ Closed inside 3 miles from Leadbetter Pt. to Klipsan Beach and 0 to 200 miles from Klipsan Beach to Red Buoy Line.
- k/ Open for all-salmon-except-chinook.
- l/ Federal waters (3 to 200 miles) open for all-salmon-except-coho.
- m/ Open Sunday through Thursday only.
- n/ No more than 6 fish in 7 consecutive days.
- o/ Open Tuesday through Saturday only.
- p/ No more than 2 fish in 7 consecutive days.
- q/ Only 1 coho and 2 chinook allowed in bag limit.
- r/ Closed inside of 3 miles between Cape Falcon and Columbia River (Red Buoy Line).
- s/ Open inside of 3 miles from Cape Falcon to the Red Buoy Line and inside of 5 miles from North Head to Klipsan Beach.
- t/ Only 1 chinook allowed in bag limit.
- u/ Open only inside the 27 fathom curve.
- v/ Open Sundays and Mondays only.
- w/ Only 1 chinook allowed in bag limit of 2 salmon from June 30-Aug. 15.
- x/ Open from Red Buoy Line south to Cape Falcon.
- y/ Open Thursday through Monday only.
- z/ All-salmon fishery with 1 chinook allowed and open on Fridays, Saturdays, and Sundays only.
- aa/ No more than 4 fish in 7 consecutive days.
- bb/ No more than 20 fish per year.
- cc/ Open for all salmon except chinook.

TABLE C-4. Summary of actual **Oregon recreational** ocean salmon seasons, size limits and bag limits in state and federal (EEZ) waters. (Page 6 of 6)

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- dd/ Open Monday through Wednesday only.
- ee/ Open Sunday through Tuesday only.
- ff/ No more than 10 fish per year.
- gg/ Open Wednesday through Saturday only.
- hh/ Closed inside 3 miles.
- ii/ No more than 6 fish in 7 consecutive days, except no more than 4 fish in 7 consecutive days in the Sept. 16-Nov. 15 fishery between Twin Rocks and Pyramid Rock. Gear limited to artificial plugs or whole bait, no less than 6 inches long; no more than 2 hooks; nonpainted weights; all attractors prohibited (clear divers are legal). Plug cut bait allowed between Twin Rocks and Pyramid Rock Sept. 16-Nov. 15. Closed in Tillamook Bay mouth control zone June 1-30 and Sept. 16-30.
- jj/ Legal gear was limited to artificial lures, plugs, or bait no less than 6 inches long (excluding hooks and swivels) with no more than 2 single-point, single-shank, barbless hooks; flashers and divers prohibited.
- kk/ Legal gear was limited to artificial lures, plugs, or bait no less than 6 inches long (excluding hooks and swivels) with no more than 2 single-point, single-shank, barbless hooks. Divers were prohibited. Flashers were prohibited until May 1 and then could only be used with downriggers. Flashers were totally prohibited inside state waters between Twin Rocks and Pyramid Rock beginning August 1.
- ll/ No more than 1 chinook, and all coho must have a healed adipose fin clip; in 1998 and 1999, no more than 4 fish per calendar week (Sunday through Saturday). In 2000, closed to coho retention between Tillamook Head and Cape Falcon beginning Aug. 1. In 2001, closed between Tillamook Head and Cape Falcon beginning Aug. 1.
- mm/ 1998-2000 and April of 2001-Legal gear was limited to artificial lures or plugs of any size or bait no less than 6 inches long (excluding hooks and swivels) with no more than 2 single-point, single shank, barbless hooks. Divers were prohibited. Flashers were prohibited except for use with downriggers. Within state water between Twin Rocks and Pyramid Rock:
1998 - flashers were totally prohibited Aug. 1 - Nov. 15., barbed hooks allowed.
1999 - barbed hooks allowed, except July 10-31 (concurrent with ocean selective coho fishery).
2000 - barbed hooks allowed, except July 1-25 (concurrent with ocean selective coho fishery).
2001 - barbed hooks allowed, except June 22-July 19 (concurrent with ocean selective coho fishery).
2002 - barbed hooks allowed, except July 7-Aug. 1 (concurrent with ocean selective coho fishery).
2003 - barbed hooks allowed, except June 21-Aug. 19 (concurrent with ocean selective coho fishery).
2004 - barbed hooks allowed, except June 19-Aug. 31 (concurrent with ocean selective coho fishery).
- nn/ Open Sunday through Thursday, except open 7 days per week beginning Sept. 3.
- oo/ Open for all salmon, except all retained coho must have a healed adipose fin clip.
- pp/ No more than 4 fish per season.
- qq/ May 27-July 6, one fish per day; July 29-Sept. 10, two fish per day.
- rr/ May 17-July 8, one fish per day; July 24-Sept. 3, two fish per day.
- ss/ Closed between Cape Falcon and Tillamook Head beginning Aug. 1, except in 2004 reopened beginning Sept. 4.
- tt/ Except 26 inches July 21-Aug. 8
- uu/ Open for all salmon except chinook; all retained coho must have a healed adipose fin clip.
- vv/ Only 1 chinook allowed in bag limit of 2 salmon from June 27-July 22.
- ww/ Except 24 inches beginning Aug. 13.

TABLE C-5. Summary of actual **Washington non-Indian troll** salmon fishing seasons. (Page 1 of 4)

Year	Area	Seasons		Number of Days		Size Limit ^{a/}	
		All Salmon Except Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
1971-1975	Statewide	Apr. 15-June 14	June 15-Oct. 31	61	139	26	16 ^{b/}
1976	Statewide	May 1-June 14	June 15-22; July 1-Oct. 31	45	131	26	16 ^{b/}
1977	North of Pt. Grenville	May 1-June 14	July 1-Sept. 15	45	77	28 ^{c/}	16 ^{b/}
	South of Pt. Grenville	May 1-June 14	July 1-Oct. 9	45	101	28 ^{c/}	16
1978	North of Pt. Grenville	May 1-June 14	July 1-Sept. 15	45	77	28	16
	South of Pt. Grenville	May 1-June 14	July 1-Oct. 31	45	123	28	16
1979	Statewide	May 1-31	July 1-24; Aug. 4-31 ^{d/}	31	52	28	16
1980	North of Leadbetter Pt.	May 1-31	July 15-Aug. 25	31	42	28	16
	South of Leadbetter Pt.	May 1-31	July 15-Sept. 8	31	56	28	16
1981	Statewide	May 1-31	July 15-Aug. 21	31	38	28	16
1982	North of Leadbetter Pt.	May 1-31	July 15-30	31	16	28	16
	South of Leadbetter Pt.	May 1-31	July 1-8	31	8	28	16
1983	Statewide	May 1-31	July 1-31 ^{e/}	31	31	28	16
1984	Statewide	May 1-7	-	8	-	28	-
	North of Cape Alava	-	Aug. 4-6	-	3	-	16
1985	Statewide	May 1-14, 21-31	-	25	-	28	-
	Cape Alava to Leadbetter Pt.	-	July 15-18	-	4	28	16
	Carroll Island to U.S./Canada Border	Aug. 3-31 ^{f/}	-	-	29	28	-
1986	Statewide	May 1-10, 14-17, 24-27, 30-31	-	20	-	28	-
	Carroll Island to U.S./Canada Border	-	Aug. 2-3; 8-9	-	4	28	16
	South of Leadbetter Pt.	-	Aug. 2-3; 7-9	-	5	28	16
1987	Statewide	May 1-10, 14-15	-	12	-	28	-
	Cape Alava to Cape Falcon	-	July 25-26	-	2	28	16
1988	Statewide	May 1-June 14	No Fishery	45	0	28	-
1989	South of Queets River	May 1-June 8,13-15	-	42	-	28	16
	Carroll Island to U.S./Canada Border	-	Aug. 7-10; 16-18	-	7	28	16
	Columbia River Red Buoy Line to Cape Falcon	-	Aug. 21 ^{g/}	-	1	28	16
	Leadbetter Pt. to Cape Falcon	-	Aug. 24-Sept. 10 ^{g/}	-	18	28	16
1990	Statewide	May 1-14, 18-27, May 31-June 2; June 8-11, 14	-	32	-	28	-
	-	-	Aug. 18-21; 25-26 ^{h/}	-	6	28	16
	South of Leadbetter Pt.	-	Aug. 30-Sept. 14; Sept. 18-19; Sept. 22-Oct. 15 ^{i/}	-	42	28	16
	Cape Alava to South End of Destruction Island	-	Sept. 15-16; Sept. 19-Oct. 31 ^{j/}	-	45	28	16
	Statewide	May 1-June 15	-	46	-	28	-
1991	Carroll Island to U.S./Canada Border	-	Aug. 16-19, 23-26; Aug. 30-Sept. 2; Sept. 6-9; Sept. 13-15 ^{k/}	-	19	28	16
	Copalis Head to Cape Falcon	-	Sept. 1-2 ^{l/}	-	2	28	16
	Leadbetter Pt. to Cape Falcon	-	Aug. 10-11 ^{m/}	-	2	28	16

TABLE C-5. Summary of actual **Washington non-Indian troll** salmon fishing seasons. (Page 2 of 4)

Year	Area	Seasons		Number of Days		Size Limit ^{2/}	
		All Salmon Except Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
1992	Statewide	May 1-June 15	-	46	-	28	16
			July 20-21; ^{n/} 25-27; July 31-Aug. 2; Aug. 6-8; Aug. 12-14, 20-22	-	17	28	16
1993	Statewide	May 1-June 15	-	46	-	28	-
	Statewide	-	July 14-17, 21-24, 28-31; Aug. 4-6 ^{b/}	-	15	28	16
	Carroll Island to U.S./Canada Border Queets River to Cape Falcon, OR	Aug. 8-25 ^{o/}	-	18 ^{o/}	-	-	-
		-	Aug. 27-28; Sept. 1-4, 9-12; Sept. 16-19 ^{q/}	-	14	28	16
1994	Closed Statewide	-	-	-	-	-	-
1995	Carroll Island to U.S./Canada Border	-	Aug. 5-8, 12-15, 19-22, 26-29; Sept. 2-3 ^{r/}	-	18 ^{r/}	-	16
1996	Leadbetter Pt. to U.S./Canada Border	-	July 26-28; Aug. 2-4, 9-11, 16-18, 23-24 ^{s/}	-	14 ^{s/}	-	16
1997	U.S./Canada Border to Cape Falcon	May 1-June 15	-	46	-	28	-
1998	U.S./Canada Border to Cape Falcon	May 1-12, 20-23; June 2-4 ^{t/}	-	19	-	28	-
1999	U.S./Canada Border to Cape Falcon Cape Flattery to Cape Alava	May 1-June 15	-	46	-	28	-
		-	July 10-13, 17-20, 24-27, 31; Aug. 1-3, ^{u/}	-	16 ^{u/}	28	16
	Cape Alava to Leadbetter Pt.	-	July 10-13, 17-20, 24-27, 31; Aug. 1-3, 14-17; Sept. 5- 13, 22-30 ^{u/ v/}	-	38	28	16
2000	U.S./Canada Border to Cape Falcon	May 1-June 15	-	46	-	28	-
	Queets River to Cape Falcon	-	Aug. 4-7, 11-14, 18-21, 25-28; Sept. 1-5 ^{w/x/}	-	21	28	16
2001	U.S./Canada Border to Cape Falcon	May 1-June 15 ^{y/z/}	-	46	-	28	-
	U.S./Canada Border to Leadbetter Point	-	July 1-9 ^{x/aa/bb/}	-	9	28	16
	Queets River to Cape Falcon	-	July 20-23, 27-30; Aug. 3-12, 17- 27; 31-Sep. 30 ^{x/ cc/aa/}	-	60	28	16
2002	U.S./Canada Border to Cape Falcon	May 1-June 7 ^{z/aa/}	-	38	-	28	16
	U.S./Canada Border to Leadbetter Point	July 1-8, 12-22, 26-Aug. 5, 9-18, 22-28 ^{z/aa/dd/ee/}	-	47	-	28	16
	Leadbetter Point to Cape Falcon	July 1-8 ^{ff/} , 12-22, 26-31 ^{z/aa/dd/}	Aug. 1-5, 9-18, 22-28 ^{z/x/aa/dd/}	25	22	28	16

TABLE C-5. Summary of actual **Washington non-Indian troll** salmon fishing seasons. (Page 3 of 4)

Year	Area	Seasons		Number of Days		Size Limit ^{a/}	
		All Salmon Except Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
2003	U.S./Canada Border to Cape Falcon	May 1-June 6 ^{gg/} ; June 26-30 ^{gg/hh/}	July 3-Sept. 14 ^{x/gg/ii/}	42	54	28	16
2004	U.S./Canada Border to Cape Falcon ^{ii/}	May 1-5, 15-18, 24-26; June 26-30	July 8-12, 16-19, 22-26; July 29-Aug. 2, Aug 5-9, 11-15, 18-22, 25-29; Sept. 1-5 ^{x/}	17	44	28	16
	U.S./Canada Border to Queets River ^{ii/}		Sept. 8-15 ^{x/}	-	8	28	16

a/ Inches total length.
b/ Effective annually beginning on Aug. 1.
c/ Only partial compliance in 1977.
d/ U.S. District Court ordered 10-day closure of all-species season July 25-Aug. 3.
e/ No more than 1 coho could be retained for every 2 chinook retained. North of Carroll Island it was illegal to retain sockeye or pink salmon, except during a special season to take only sockeye and pink salmon from Aug. 7-20. Gear in this special Aug. fishery was restricted to bare, blued hooks and flashers.
f/ Pink and chinook salmon only, gear restricted to barbless, bare, blued hooks and flashers. Effective Aug. 22, state landing restriction of no more than 1 chinook per 20 pinks.
g/ Daily-landing-limit of 40 coho and 4 chinook.
h/ Landing limit of 200 coho and 20 chinook per open period. Chinook restriction dropped Aug. 25-26.
i/ Daily-landing-limit of 50 coho. Increased to 100 on Sept. 25.
j/ Allowed 15 vessels, which were drawn at random by WDFW, to participate in the limited participation fishery.
k/ Landing limit of 80 coho per 4-day open period. Gear restricted to barbless, bare, blued or pink hooks and flashers, or pink hoochies of 3 inches or less.
l/ Landing limit of 75 coho per 2-day open period.
m/ Landing limits of 100 coho per 2-day open period.
n/ Gear restricted to 6 inch or larger plugs only and no more than 4 spreads per line during the entire all-salmon season. Landing limit of 30 coho per 2-day open period through July 21. Landing limit changed to 44 coho per 3-day open period starting July 25.
o/ All-salmon-except chinook or coho salmon. Gear restricted to flashers with barbless, bared blue hooks only.
p/ Gear restricted to plugs or whole bait 6 inches or longer and no more than 4 spreads per line. Possession limit of 50 coho per 4-day open period.
q/ Possession limit of 35 coho Aug. 27-28, then modified to 70 coho for remaining periods. Fishery restricted to area south of Leadbetter Pt. for Sept. 16-19.
r/ All except chinook. Possession and landing limit per opening: 80 coho Aug. 5-8; 200 coho Aug. 12-15; 375 coho for remaining 3 openings.
s/ All except chinook. Season to follow a cycle of 3 days open/4 days closed, no more than 75 coho per open period for July 26-28 opening; 200 coho for remaining openings.
t/ Chinook landing limit per vessel per opening: 75 (May 20-23) and 50 (June 2-4).
u/ Vessels must land and deliver fish within 24 hours of any closure. July 10-30: no more than 4 spreads per line; gear restricted to plugs 6 inches or longer; flashers without hooks may be used if installed below the second spread from the top and will not count as a spread; no more than 1 flasher per line; each vessel may possess, land, and deliver no more than 100 coho per open period.
v/ All salmon except chinook from Sept. 5-30.
w/ Coho landing limit of 300 per open period for Aug. 4-7 and Aug. 11-14. Vessels must land and deliver fish in the area or in adjacent areas closed to all commercial non-Indian salmon fishing, and within 24 hours of any closure.
x/ All coho must have a healed adipose fin clip, except Sept. 1-5, 2004, between Cape Falcon and Queets River.
y/ Vessels must land and deliver their fish within the area or in Oregon ports south of Cape Falcon, and within 24 hours of any closure.
z/ Vessels intending to land their catch in Oregon ports south of Cape Falcon must notify Oregon Department of Fish and Wildlife (ODFW) before leaving the area.
aa/ Vessels must land and deliver fish in the area or in adjacent areas closed to all commercial non-Indian salmon fishing, or in Oregon ports south of Cape Falcon and within 24 hours of any closure.
bb/ No more than 4 spreads per line; gear restricted to plugs 6 inches or longer; flashers without hooks may be used if installed below the second spread from the top and will not count as a spread; no more than 1 flasher per line.
cc/ Chinook landing limits per open period: 65 for July 20-23 and July 27-30; 100 for Aug. 3-12; 150 for Aug. 17-27; no limit Aug. 31-Sept. 30.
dd/ Chinook landing limits for all areas north of Cape Falcon per open period: 250 for July 1-8; 400 for July 12-22; 450 for July 26-Aug. 5; 400 for Aug. 9-18; 250 for Aug. 22-28.

TABLE C-5. Summary of actual **Washington non-Indian troll** salmon fishing seasons. (Page 4 of 4)

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- ee/ Gear restricted to plugs with a one-piece body that is at least six inches long, not including hooks or attachments.
 - ff/ No more than four spreads per line.
 - gg/ Vessels must land and deliver their fish within the area or in Garibaldi, Oregon, and within 24 hours of any closure of this fishery. State regulations require fishers south of Cape Falcon intending to fish within this area, and/or fishers fishing within this area intending to land salmon in Garibaldi, Oregon, notify ODFW before transiting the Cape Falcon line (45°46'00" N latitude).
 - hh/ 50 fish per vessel landing limit for the five-day open period.
 - ii/ All salmon except no chum retention north of Cape Alava during Aug. and Sept. Five days open, 2 days closed beginning July 3. Landing limit of 75 chinook per vessel for the period July 3-7; landing limit of 150 chinook per 5-day open period for the remainder of the season.
 - jj/ Washington permitted vessels must land their fish within the area and within 24 hours of any closure of this fishery. Oregon permitted vessels must land their fish within the area or in Garibaldi, OR and within 24 hours of any closure of this fishery. State regulations require Oregon licensed limited fish sellers and fishers intending to transport and deliver their catch outside the area to notify ODFW one hour prior to transport away from the port of landing. Chinook landing limits for 2004 were not more than 125 chinook per vessel from May 15-18; 70 chinook from May 24-26; 50 chinook from June 26-30; 100 chinook per vessel from July 8-12; and 125 chinook for each subsequent open period. No chum retention north of Cape Alava in August and September.

TABLE C-6. Summary of actual **Washington recreational** ocean salmon regulations.^{a/} (Page 1 of 4)

Year	Season	Days	Bag	Minimum Size Limit (Inches)	
				Chinook	Coho
1971-1973	Apr. 15-Oct. 31	200	3	20	20
1974	Apr. 13-Oct. 31	202	3	20	20
1975	Apr. 12-Oct. 31	203	3	20	20
1976	May 1-Oct. 31	184	3	24	16
1977	Apr. 30-Oct. 9	163	3	24	16
1978	Apr. 29-Oct. 31	186	3	24	16
1979	May 12-Sept. 3	115	2+1 ^{b/}	24	16
1980	May 10-Aug. 25 North	108	3/2 ^{c/}	24	16
	May 10-Sept. 1 South	115	3/2 ^{c/}	24	16
1981	May 23-Aug. 26	96	2+1 ^{d/}	24	20
1982 ^{e/}	May 29-June 11 (Chinook Only)	14	2	24	-
	June 12-Aug. 19 North	69	2	24	16
	June 12-July 25 South	44	2	24	16
1983	May 8-June 17 (Chinook Only) ^{f/}	21	2	24	-
	June 18-July 29 ^{g/}	42	2	24	16
	July 1-29 ^{h/}	29	2	24	16
	July 30-Aug. 15 ^{i/}	17	2	24	16
	July 30-Sept. 11 ^{j/}	44	2	24	16
	Aug. 16-Sept. 11 ^{k/}	27	2	24	16
1984	May 26-28 (Chinook Only) ^{l/}	3	2	24	-
	June 25-July 27 (Chinook Only) ^{l/}	33	1	24	-
	July 28-Aug. 8 (Coho Only) ^{m/ny/}	12	2	-	16
	July 28-Aug. 15 ^{h/}	19	1	24	16
1985	June 30-Aug. 22 ^{n/}	40	2	24	16
	June 30-Sept. 1 ^{o/}	46	2/1 ^{o/}	24	16
	June 30-Sept. 8 ^{p/}	51	2	24	16
1986	June 29-Aug. 14 ^{q/}	35	2	24	16
	June 29-Aug. 18 ^{r/}	37	2	24	16
1987	June 28-Aug. 20 ^{s/}	40	2/1 ^{s/}	24	16
	June 28-Aug. 6 ^{t/}	30	2 ^{t/}	24	16
	June 28-Aug. 20 ^{u/}	40	2	24	16
1988	July 3-Aug. 2; Aug. 19; Sept. 2 ^{v/}	25	2/1 ^{v/}	24	16
	July 3-31; Aug. 18 ^{w/}	22	2/1 ^{w/}	24	16
	July 11-24 ^{x/}	10	2/1 ^{x/}	24	16
1989	May 28-June 12 ^{y/}	6	2	24	-
	July 2-26 ^{z/}	19	2	24	16
	June 26-Aug. 30 ^{aa/}	48	2	24	16
	June 26-Aug. 17 ^{bb/}	39	2	24	16
1990	July 2-Aug. 12; Sept. 8-9 ^{cc/}	32	2	24	16
	July 2-Sept. 3; Sept. 8-9 ^{dd/}	48	2	24	16
	June 18-Sept. 20 ^{ee/}	75	2	24	16
	June 24-Aug. 30; Sept. 8-9 ^{ff/}	52	2	24	16
1991	July 1-24 ^{gg/}	18	2	24	16
	July 1-30 ^{hh/}	22	2	24	16
	June 24-Aug. 12; Sept. 3-4 ^{ii/}	38	2	24	16
	June 24-Aug. 12 ^{jj/}	36	2	24	16
	Sept. 15-18; Sept. 26 ^{kk/}	5	2	24	16
1992	May 1-31 ^{ll/}	31	2	24	16
	July 6-22 ^{mm/}	13	2	24	16
	July 13-Aug. 20 ^{nn/}	29	1	24	16
	Aug. 23-Oct. 1 ^{oo/}	30	2	24	16
	July 6-Oct. 1 ^{pp/}	64	2	24	16
	June 29-Aug. 6 ^{qq/}	29	2	24	16
	Sept. 14-17; Sept. 27 ^{qq/}	5	2	24	16
1993	May 1-31 ^{rr/}	31	2	24	16
	July 12-Aug. 22 ^{ss/}	30	2	24	16
	July 5-Sept. 23 ^{tt/}	59	2	24	16
	July 5-Sept. 23 ^{uu/}	59	2	24	16
	July 5-Sept. 9 ^{vv/}	49	2	24	16
	Sept. 12-23 ^{ww/}	12	2	24	16
1994	Closed	0	-	-	-
1995	Aug. 1-4 ^{xx/}	4	2	-	16
	Aug. 1-Sept. 10 ^{yy/}	29	2	-	16
	July 24-Sept. 17 ^{zz/}	40	2	-	16
	July 24-Sept. 5; Sept. 10-17 ^{aaa/}	38	2	-	16
1996	Aug. 5-31 ^{xx/}	27	1	-	16
	Aug. 5-Sept. 26 ^{bbb/}	53	2	-	16
	July 22-Sept. 5 ^{zz/}	34	2	-	16
	July 22-Sept. 26 ^{aaa/}	49	2	-	16

TABLE C-6. Summary of actual **Washington recreational** ocean salmon regulations.^{a/} (Page 2 of 4)

Year	Season	Days	Bag	Minimum Size Limit (Inches)	
				Chinook	Coho
1997	July 21-23 ^{ccc/}	3	2	24	-
	July 21-Aug. 3 ^{ddd/}	14	2	24	16
	July 21-Sept. 4 ^{eee/}	34	2	24	16
	July 21-Aug. 7 ^{fff/}	14	2	24	16
1998	Aug. 3-19 ^{ggg/}	17	2	-	16
	Aug. 3-9 ^{ddd/}	7	2	24	16
	Aug. 3-16; Sept. 3 ^{eee/}	11	2	24	16
	Aug. 3-9; Sept. 3 ^{fff/}	6	2	24	16
1999	July 19-Sept. 30 ^{ccc/}	74	2	-	16
	July 19-Sept. 30 ^{ddd/}	74	2	24	16
	July 19-Sept. 30 ^{eee/}	62	2	24	16
	July 19-Sept. 30 ^{fff/}	62	2	24	16
2000	July 3-Aug. 17 ^{ccc/}	46	2	24	16
	July 3-Aug. 12 ^{ddd/}	41	2	24	16
	July 3-Aug. 10 ^{eee/}	29	2	24	16
	July 10-Aug. 13 ^{fff/}	25	2	24	16
2001	July 1-Sept. 30 ^{ccc/}	92	2	24	16
	July 1-Oct. 21 ^{ddd/}	113	2	24	16
	July 1-Sept. 30 ^{eee/}	74	2	24	16
	July 1-Sept. 30 ^{fff/}	74	2	24	16
2002	May 25-June 16 ^{ccc/}	23	2	24	-
	July 7-Sept. 8 ^{ccc/}	64	2	24	16
	July 7-Oct. 6 ^{ddd/}	80	2	24	16
	June 30-Aug. 19 ^{eee/}	37	2	24	16
	July 7-Sept. 15 ^{fff/}	68	2	24	16
2003	June 22-Sept. 14 ^{ccc/}	85	2	26	16
	June 22-Sept. 14; Sept. 20-Oct 5 ^{ddd/}	101	2	26	16
	June 22-Sept. 14 ^{eee/}	77	2	26	16
	June 29-Sept. 30 ^{fff/}	93	2	26	16
2004	June 27-Sept. 2; Sept. 10-19 ^{ccc/}	78	2	26	16
	June 27-Sept. 19; Sept. 25-Oct 10 ^{ddd/}	101	2	26 ^{hhh/}	16
	June 27-Sept. 6 ^{eee/}	66	2	26 ^{hhh/}	16
	June 27-Sept. 30 ^{fff/}	90	2	26 ^{hhh/}	16

- a/ All dates inclusive; minimum size measured as total length; no minimum size for species other than chinook and coho.
- b/ Bag limit only 2 chinook/coho; third salmon confined to other 3 species to take advantage of large pink abundance.
- c/ Seasons differed in 1980 north and south of Leadbetter Pt.; initial 3-fish bag limit reduced to 2 fish on July 16.
- d/ Bag limit only 2 chinook/coho; north of Queets River a third salmon of other species allowed (Neah Bay/La Push).
- e/ Seasons differing north and south of Leadbetter Pt.; some Ilwaco and chinook based effort continued through Aug. 1 inside Oregon State waters and from Aug. 16-Sept. 30 inside Buoy 10 to the Astoria/Megler Bridge. The Aug. 25-Sept. 30 period was restricted to coho only, with barbless hooks required after Aug. 31. The easterly portion of Neah Bay (inside Koitlah Pt.) remained open after Aug. 19.
- f/ Queets River to Klipsan Beach inside 6 miles.
- g/ Queets River to North Head inside 6 miles and south jetty of the Columbia River to Cape Falcon inside a line approximately due south of the south jetty.
- h/ U.S./Canada border to Queets River inside 3 miles.
- i/ Klipsan Beach to Cape Falcon.
- j/ U.S./Canada border to Queets River and Pt. Brown to Klipsan Beach. Ocean waters north of Leadbetter Pt. and west of the Bonilla/Tatoosh Line closed Sept. 6 in anticipation of quota achievement.
- k/ South jetty of the Columbia River to Cape Falcon inside special fishery Zone 1.
- l/ Limited area adjacent to Neah Bay; size limit changed to 24 inches July 17.
- m/ Cape Shoalwater to Klipsan Beach (also off Oregon from the south jetty of the Columbia River to Cape Falcon inside the special fishery zone).
- n/ Leadbetter Pt. to Cape Falcon. Waters from Leadbetter Pt. to Klipsan Beach closed inside 3 miles. From 0 to 200 miles between Klipsan Beach and Red Buoy Line of Columbia River closed. Fishing allowed Sunday through Thursday only.
- o/ U.S./Canada border to Queets River. Bag limit 2 salmon, only 1 of which may be a chinook. Effective July 24, fishing closed inside a line approximately 1 mile offshore from Sekiu River to the Umatilla Reef Light. Bag limit changed to not allow retention of chinook salmon, effective Aug. 15. Fishing allowed Sunday through Thursday only.
- p/ Queets River to Leadbetter Pt., except closed inside 3 miles through Aug. 29. Fishing allowed Sunday through Thursday only through Aug. 29. Fishing closed by state regulations Sept. 3-6 and reopened Sept. 7 and Sept. 8.
- q/ U.S./Canada border to Queets River. Fishing allowed Sunday through Thursday only.
- r/ Queets River to Klipsan Beach. Fishing allowed Sunday through Thursday only. Closed inside 3 miles June 29-Aug. 7.

TABLE C-6. Summary of actual **Washington recreational** ocean salmon regulations.^{ai} (Page 3 of 4)

s/	U.S./Canada border to Queets River. Fishing allowed Sunday through Thursday only. Bag limit 2 salmon, only 1 of which may be a chinook. Inseason (July 12) closure of waters beyond 1 mile of coastline between Sekiu River and Tatoosh Island, and closure (July 15) of waters beyond 5 miles of coastline between Duncan Rock and Cape Alava. No retention of chinook July 19-Aug. 20 (noon).
t/	Queets River to Leadbetter Pt. Fishing allowed Sunday through Thursday only. Closed to fishing inside 3 miles throughout entire season; additional area closure 3 to 6 miles from coastline between Pt. Brown and Cape Shoalwater July 5-25; additional area closure 6 to 10 miles from coastline between Pt. Brown and Cape Shoalwater July 8-25; adjusted area closure July 26 season end 3 to 6 miles from Grays Harbor Buoy to Leadbetter Pt. and 0 to 200 miles north of Grays Harbor Buoy to Queets River. Bag limit changes from 2 salmon, all species to 2 salmon, only 1 of which may be a chinook.
u/	Leadbetter Pt. to Cape Falcon, Oregon. Fishing allowed Sunday through Thursday only. Closed 0 to 3 miles from Leadbetter Pt. to Klipsan Beach; closed 0 to 200 miles from Klipsan Beach to Red Buoy Line of the Columbia River; closed 0 to 3 miles from the Red Buoy Line to Cape Falcon June 28-Aug. 8.
v/	U.S./Canada border to Queets River. Fishing allowed Sunday through Thursday only. Bag limit initially 2 salmon, but only 1 chinook; changed to 2 fish, all species beginning July 24. Fishery reopened Aug. 19 and Sept. 2 to harvest quota shortfall.
w/	Queets River to Klipsan Beach. Southern boundary changed to Leadbetter Pt. prior to season opening date. Fishing allowed Sunday through Thursday only. Bag limit initially 2 salmon, but only 1 chinook; changed to 2 fish, all species beginning July 24. Fishery reopened Aug. 18 to harvest quota shortfall.
x/	Klipsan Beach to Cape Falcon. Fishing allowed Sunday through Thursday only.
y/	U.S./Canada border to Cape Falcon. Fishing allowed Sunday through Monday only; 2 fish, all-salmon-except-coho.
z/	U.S./Canada border to Queets River. Fishing allowed Sunday through Thursday only; 2 fish.
aa/	Queets River to Leadbetter Pt. Fishing allowed Sunday through Thursday only; 2 fish.
bb/	Leadbetter Pt. to Cape Falcon. Fishing allowed Sunday through Thursday only; 2 fish.
cc/	U.S./Canada border to Cape Alava. Fishing allowed Sunday through Thursday only; 2 fish.
dd/	Cape Alava to Queets River. Fishing allowed Sunday through Thursday only; 2 fish.
ee/	Queets River to Leadbetter Pt. Fishing allowed Sunday through Thursday only through Aug. 30. Open 7 days per week starting Aug. 31; 2 fish.
ff/	Leadbetter Pt. to Cape Falcon. Fishing allowed Sunday through Thursday only; 2 fish.
gg/	U.S./Canada to Cape Alava. Fishing allowed Sunday through Thursday only; 2 fish.
hh/	Cape Alava to Queets River. Fishing allowed Sunday through Thursday only; 2 fish.
ii/	Queets River to Leadbetter Point. Fishing allowed Sunday through Thursday; 2 fish.
jj/	Leadbetter Point to Cape Falcon. Fishing allowed Sunday through Thursday; 2 fish.
kk/	South of the Red Buoy Line to Cape Falcon. Fishing allowed 7 days per week; 2 fish.
ll/	U.S./Canada border to Cape Alava. East of Bonilla/Tatoosh Line only. All salmon, except coho; 2 fish.
mm/	U.S./Canada border to Cape Alava. Open 0 to 1/2 mile from shore only. Fishing allowed Sunday through Thursday; 2 fish. No more than 4 fish in 7 consecutive days.
nn/	Cape Alava to Queets River. Open 0 to 6 miles from shore only through July 30. Fishing allowed Sunday through Thursday; 1 fish. No more than 4 fish in 7 consecutive days.
oo/	Cape Alava to Queets River. Fishing allowed Sunday through Thursday; 2 fish. No more than 4 fish in 7 consecutive days.
pp/	Queets River to Leadbetter Pt. Open 0 to 6 miles from shore only through July 30. Fishing allowed Sunday through Thursday; 2 fish. No more than 4 fish in 7 consecutive days.
qq/	Leadbetter Pt. to Cape Falcon. Open 0 to 3 miles from shore only through July 30. Fishing allowed Sunday through Thursday; 2 fish. No more than 4 fish in 7 consecutive days.
rr/	U.S./Canada border to Cape Alava. East of Bonilla/Tatoosh line only. All salmon, except coho; 2 fish.
ss/	U.S./Canada border to Cape Alava. Fishing allowed Sunday through Thursday; 2 fish. No more than 6 fish in 7 consecutive days.
tt/	Cape Alava to Queets River. Fishing allowed Sunday through Thursday; 2 fish. No more than 6 fish in 7 consecutive days.
uu/	Queets River to Leadbetter Pt. Fishing allowed Sunday through Thursday; 2 fish. No more than 4 fish in 7 consecutive days.
vv/	Leadbetter Pt. to Cape Falcon. Fishing allowed Sunday through Thursday; 2 fish. No more than 4 fish in 7 consecutive days.
ww/	Leadbetter Pt. to Cape Falcon; 2 fish. No more than 4 fish in 7 consecutive days.
xx/	U.S./Canada border to Cape Alava. All salmon except chinook. Closed 0-3 miles of shore south of Skagway Rock.
yy/	Cape Alava to Queets River. All except chinook. Open Sunday through Thursday only. Closed 0-3 miles.
zz/	Queets River to Leadbetter Pt. All except chinook. Sunday through Thursday only. Closed 0-3 miles. No more than 4 fish in 7 consecutive days.
aaa/	Leadbetter Pt. to Cape Falcon. All salmon, except chinook. Sunday through Thursday only. Closed 0-3 miles and in Columbia River mouth control zone. No more than 4 fish in 7 consecutive days.
bbb/	Cape Alava to Queets River. All except chinook. Closed 0-3 miles.
ccc/	U.S./Canada border to Cape Alava.
	1997: All salmon, except coho (7 days per week).
	1999: All salmon, except chinook (7 days per week); all retained coho must have a healed adipose fin clip.
	2000-
	2001: All salmon, but no more than one chinook per day (7 days per week); all retained coho must have a healed adipose fin clip.
	2002: All salmon (7 days per week), except no chum beginning Aug. 1, and no chinook beginning Aug. 8. Chinook minimum size limit raised to 28 inches beginning July 21. All coho must have a healed adipose fin clip.
	2003: All salmon, except no chum retention north of Cape Alava beginning Aug. 1; open 7 days per week, 2 fish per day, only one of which may be a chinook, plus one additional pink salmon. All coho must have a healed adipose fin clip.
	2004: All salmon, except no chum retention north of Cape Alava beginning Aug. 1; open 7 days per week, 2 fish per day, only one of which may be a chinook. All coho must have a healed adipose fin clip.

TABLE C-6. Summary of actual **Washington recreational** ocean salmon regulations.^{a/} (Page 4 of 4)

ddd/ Cape Alava to Queets River.	
1997:	All salmon (7 days per week).
1998:	All salmon (7 days per week).
1999:	All salmon (7 days per week); all retained coho must have a healed adipose fin clip.
2000:	All salmon (7 days per week), but no more than one chinook per day; all retained coho must have a healed adipose fin clip.
2001:	All salmon (7 days per week), but no more than one chinook per day; all retained coho must have a healed adipose fin clip. Sept. 24-Oct. 21 - Only the area from Teawhit Head to "Q" Buoy to Cake Rock east to the shoreline was open.
2002:	All salmon (7 days per week), except no chinook beginning Aug. 8. Chinook minimum size limit raised to 28 inches beginning July 21. Sept. 21-Oct. 6 - Only the area from Teawhit Head to "Q" Buoy to Cake Rock east to the shoreline was open. All coho must have a healed adipose fin clip.
2003:	All salmon, open 7 days per week, 2 fish per day plus one additional pink salmon, only one of which may be a chinook. Sept. 20-Oct. 5 - Only the area from Teawhit Head to "Q" Buoy to Cake Rock east to the shoreline was open. All coho must have a healed adipose fin clip.
2004:	All salmon, open 7 days per week, 2 fish per day, only one of which can be a chinook (through August 13, then two chinook allowed thereafter). Sept. 25-Oct. 10 - Only the area from north of 47°50'00" N latitude and south of 47°58'00" N latitude in state waters (inside three nautical miles) was open. All coho must have a healed adipose fin clip.
eee/ Queets River to Leadbetter Pt.	
1997:	All salmon (Sunday through Thursday). Daily-bag-limit 2 fish; except from July 21-Aug. 12, daily-bag-limit 2 fish, no more than 1 chinook. No more than 4 fish in 7 consecutive days. Closed 0-3 miles from shore from July 21-Aug. 12.
1998:	All salmon (Sunday through Thursday). Daily-bag-limit 2 fish, but no more than 1 chinook. No more than 4 fish per calendar week (Sunday through Saturday). Closed 0-3 miles from shore, except Sept. 3.
1999:	All salmon (Sunday through Thursday, except 7 days per week beginning Sept. 3). Daily-bag-limit 2 fish, but no more than 1 chinook and only coho with a healed adipose fin clip can be retained. No more than 6 fish per calendar week (Sunday through Saturday). Closed 0-3 miles from shore beginning Aug. 22.
2000:	All salmon (Sunday through Thursday). Daily-bag-limit 2 fish, but no more than 1 chinook and only coho with a healed adipose fin clip can be retained. The area defined by a line drawn from the Westport Lighthouse (46°53'18" N latitude, 124°07'01" W longitude) to Buoy #2 (46°52'42" N latitude, 124°12'42" W longitude) to Buoy #3 (46°55'00" N latitude, 124°14'48" W longitude) to the Grays Harbor north jetty (46°36'00" N latitude, 124°10'51" W longitude) was closed through Aug. 10 and open for one day, Aug. 13.
2001:	All salmon (Sunday through Thursday, except 7 days per week beginning Sept. 7). Daily-bag-limit 2 fish, but no more than 1 chinook and only coho with a healed adipose fin clip can be retained.
2002:	All salmon (Sunday through Thursday), but only one chinook beginning Aug. 18. Chinook minimum size limit raised to 28 inches beginning July 21. All coho must have a healed adipose fin clip.
2003:	Open Sunday through Thursday through July 24, and seven days per week thereafter. All salmon, 2 fish per day, only one of which may be a chinook. All coho must have a healed adipose fin clip.
2004:	Open Sunday through Thursday through July 22, and seven days per week thereafter. All salmon, 2 fish per day, only one of which may be a chinook (through July 22, then two chinook allowed thereafter); all coho must have a healed adipose fin clip, except between August 29 and September 6.
fff/ Leadbetter Pt. to Cape Falcon.	
1997:	All salmon (Sunday through Thursday). No more than 4 fish in 7 consecutive days. Closed 0-3 miles offshore north of Columbia Control Zone and closed within the Zone.
1998:	All salmon (Sunday through Thursday). Daily-bag-limit 2 fish except no more than 1 chinook and all coho must have a healed adipose fin clip. No more than 4 fish per calendar week (Sunday through Saturday). Closed in Columbia Control Zone.
1999:	Same as 1998 except no more than 6 fish per calendar week and season open 7 days per week starting Sept. 3.
2000:	All salmon (Sunday through Thursday); daily-bag-limit 2 fish, except no more than 1 chinook; all coho must have a healed adipose fin clip. Closed to coho retention between Cape Falcon and Tillamook Head beginning August 1.
2001:	Same as 2000, except area from Tillamook Head to Cape Falcon closed after Aug. 1; area from North Head Lighthouse to Leadbetter point closed from Sept. 4-6; area from North Head Lighthouse to Klipsan Beach closed Sept. 7-30.
2002:	All salmon (Sunday through Thursday), except no chinook beginning Aug. 8. Chinook minimum size limit raised to 26 inches beginning July 21. All coho must have a healed adipose fin clip. Closed between Cape Falcon and Tillamook Head beginning August 1.
2003:	Open Sunday through Thursday through July 24, and seven days per week thereafter. All salmon, 2 fish per day, only one of which may be a chinook; and all coho must have a healed adipose fin clip. Closed between Cape Falcon and Tillamook Head beginning August 1.
2004:	Open Sunday through Thursday through July 22, and seven days per week thereafter. All salmon, 2 fish per day, only one of which may be a chinook (through July 22, then two chinook allowed thereafter); and all coho must have a healed adipose fin clip. Closed between Cape Falcon and Tillamook Head August 1 through September 4.
ggg/ State managed Area 4B add-on fishery in place of ocean opening as agreed to by ports. All except chinook.	
hhh/ Beginning Aug. 13, chinook minimum size limit decreased to 24 inches.	

TABLE C-7. Summary of actual **treaty Indian ocean and Area 4B troll** regulations. (Page 1 of 5)

Year	Species	Season	Days	Minimum Size, Area, Gear, and Other Restrictions ^{a/}
QUINALT, QUILUTE, AND HOH TRIBES				
<u>Statistical Areas 2 and 3 (Ocean Waters 3-200 miles)</u>				
1977-1981	All	May 1-Oct. 31	184	Chinook 28 in., coho 16 in.; except chinook 26 in. during 1977.
1982	All	May 1-Sept. 7	129	Chinook 26 in., coho 16 in. Six-mile radius closed at mouths of Hoh and Queets rivers when Area 4A closed to non-Indian salmon fishing.
1983	All	May 1-Sept. 15	137	Chinook 26 in., coho 16 in.
1984	All except coho	May 1-June 30	61	Chinook 26 in. Barbless hooks.
	All	July 1-Aug. 16	47	Chinook 26 in., coho 16 in. Barbless hooks.
1985	All except coho	May 1-22	22	Chinook 26 in. Barbless hooks required except on whole bait and plugs.
	All	June 15-July 22; Aug. 1-10; Sept. 1-4	52	Chinook 26 in., except 28 in. June 15-30; coho 16 in. Barbless hooks required except on whole bait and plugs. Landing ratio of at least 1 chinook/10 coho June 15-July 22 and 1 chinook/13 coho Aug. 1-10.
1986	Pink	Aug. 16-31	16	Barbless hooks required except on whole bait and plugs.
	All except coho	May 1-31	31	Chinook 26 in. Barbless hooks required except on whole bait and plugs.
	All	June 1-Aug. 8	69	Chinook 26 in., coho 16 in. Barbless hooks required except on whole bait and plugs. Landing ratio of at least 1 chinook/20 coho July 11-Aug. 8; 2-mile radius closed at Quinalt River mouth; Quinalt fishery closed on July 18.
1987	All except coho	May 1-26	26	Chinook 26 in. Barbless hooks required except on whole bait and plugs.
	All	July 19-Aug. 9; Aug. 17-26	32	Chinook 26 in., coho 16 in. Barbless hooks required except on whole bait and plugs. Chinook to coho landing ratios 1:19 July 19-31; 1:10 Aug. 1-9 and 5:1. Aug. 17-26 (Quileute and Hoh rescinded Aug. 26).
1988	All except coho	May 1-July 9	70	Chinook 26 in. Barbless hooks required except on whole bait and plugs.
	All	July 10-19; July 20-Aug. 21; Sept. 1-3	46	Chinook 26 in., coho 16. Barbless hooks required except on whole bait and plugs. Landing ratio of at least 1 chinook/2 coho July 10-19.
1989	All except coho	May 1-June 30	61	Chinook 26 in. Barbless hooks required except on whole bait and plugs.
	All	July 15-Aug. 8; Aug. 30-Sept. 5	32	Chinook 26 in., coho 16 in. Barbless hooks required except on whole bait and plugs.
1990	All except coho	May 1-June 30	61	Chinook 26 in. Barbless hooks required except on whole bait and plugs.
	All	July 10-27; Aug. 12-31; Sept. 4-7	42	Chinook 26 in., coho 16 in. Barbless hooks required except on whole bait and plugs. Landing ratio of at least 1 chinook/15 coho Aug. 12-31.
1991	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	July 7-19; Aug. 3-8, 10-13, and 19	24	Chinook 24 in., coho 16. Barbless hooks. Part day fishery on Aug. 19.
1992	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	July 15-21; Aug. 1-5	12	Chinook 24 in., coho 16. Barbless hooks.
1993	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	July 1-Sept. 23	85	Chinook 24 in., coho 16. Barbless hooks.
1994	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
1995	All except coho	May 1-31	31	Chinook 24 in. Barbless hooks.
	All	Aug. 1-24	24	Chinook 24 in., coho 16 in. Barbless hooks.
1996	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	Aug. 5-Aug. 13; Sept. 1-11	20	Chinook 24 in., coho 16 in. Barbless hooks.
1997	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	Aug. 4-29	26	Chinook 24 in., coho 16 in. Barbless hooks.
	All	Sept. 3-7 (Quinalt only)	5	Chinook 24 in., coho 16 in. Barbless hooks.
1998	All except coho	May 1-June 6	37	Chinook 24 in. Barbless hooks.
	All	Aug. 3-Sept. 4	33	Chinook 24 in., coho 16 in. Barbless hooks.
	All	Sept. 8-12 (Quinalt only)	5	Chinook 24 in., coho 16 in. Barbless hooks.

TABLE C-7. Summary of actual treaty Indian ocean and Area 4B troll regulations. (Page 2 of 5)

Year	Species	Season	Days	Minimum Size, Area, Gear, and Other Restrictions ^{d/}
1999	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	Aug. 1-Sept. 15	46	Chinook 24 in., coho 16 in. Barbless hooks.
2000	Chinook only	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	Aug. 1-12	12	Chinook 24 in., coho 16 in. Barbless hooks.
2001	Chinook only	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	July 1-Sept. 15	77	Chinook 24 in., coho 16 in. Barbless hooks.
2002	Chinook only	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	July 1-Sept. 15	77	Chinook 24 in., coho 16 in. Barbless hooks.
2003	Chinook only	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	July 1-Sept. 15	77	Chinook 24 in., coho 16 in. Barbless hooks. ^{d/}
2004	Chinook only	Sept. 16-Oct. 15 (Quileute only)	30	Chinook 24 in., coho 16 in. Barbless hooks. ^{d/}
	All	May 1-June 17	48	Chinook 24 in. Barbless hooks.
	All	July 1-Sept. 10 Sept. 16-Oct. 15 (Quileute only)	72 30	Chinook 24 in., coho 16 in. Barbless hooks. Chinook 24 in., coho 16 in. Barbless hooks.
MAKAH TRIBE				
<u>Statistical Areas 3N, 4 and 4A (Ocean Waters 3-200 miles)</u>				
1977-1983	All	May 1-Oct. 31	184	Chinook: 26 in. during 1977; 28 in. during 1978-1979; 24 in. during 1980-1983. Coho: 16 in., except in 1983 changed to 20 in. May 11-June 5 and 22 in. June 6-July 25.
1984	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	July 1-Aug. 18	49	Chinook 24 in., coho 16 in. Barbless hooks.
1985	All except coho	May 1-20	20	Chinook 24 in. Barbless hooks required except on whole bait and plugs.
	All	June 15-30; July 1-20; Aug. 1-10; Sept. 1-4; 10-11	52	Chinook 28 in. except 24 in. from July 1-20, coho 20 in. Barbless hooks required except on whole bait and plugs. Landing ratio of at least 1 chinook/13 coho Aug. 1-10.
1986	Pink	Aug. 15-31	17	Barbless hooks required except on whole bait and plugs.
	All except coho	May 1-31	31	Chinook 26 in. Barbless hooks required except on whole bait and plugs.
1987	All	June 1-Aug. 8	69	Chinook 26 in., coho 20 in. Barbless hooks required except on whole bait and plugs. Landing ratio of at least 1 chinook/20 coho July 13-Aug. 8.
	All except coho	May 1-26	26	Chinook 26 in. Barbless hooks required except on whole bait and plugs.
1988	All	July 19-Aug. 9; Aug. 17-26	32	Chinook 26 in., coho 16 in. Barbless hooks required except on whole bait and plugs. Chinook to coho landing ratios 1:19 July 19-31; 1:10 Aug. 1-9; and 5:1 Aug. 17-25.
	All except coho	May 1-July 9	70	Chinook 26 in. Barbless hooks required except on whole bait and plugs.
1989	All	July 10-Aug. 21; Sept. 1-3	46	Chinook 26 in., coho 16 in. Barbless hooks required except on whole bait and plugs. Landing ratio of at least 1 chinook/2 coho July 10-19.
	All except coho	May 1-June 30	61	Chinook 26 in. Barbless hooks required except on whole bait and plugs.
1990	All	July 15-Aug. 8; Aug. 30-Sept. 5	32	Chinook 26 in., coho 16 in. Barbless hooks required except on whole bait and plugs.
	All except coho	May 1-June 30	61	Chinook 26 in. Barbless hooks required except on whole bait and plugs.
1991	All	July 10-27; Aug. 12-31; Sept. 4-7	42	Chinook 26 in., coho 16 in. Barbless hooks required except on whole bait and plugs. Landing ratio of at least 1 chinook/15 coho Aug. 12-31.
	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
1992	All	July 7-19; Aug. 3-8, 10-13, and 19	24	Chinook 24 in., coho 16. Barbless hooks. Part day fishery on Aug. 19.
	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
1993	All	July 15-21; Aug. 1-5	12	Chinook 24 in., coho 16. Barbless hooks.
	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
1994	All	July 1-Sept. 30	92	Chinook 24 in., coho 16. Barbless hooks.
	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
1995	All	May 1-31	31	Chinook 24 in. Barbless hooks.
	All	Aug. 1-24	24	Chinook 24 in., coho 16 in. Barbless hooks.
1996	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	Aug. 5-13; Sept. 1-11	20	Chinook 24 in., coho 16 in. Barbless hooks.

TABLE C-7. Summary of actual **treaty Indian ocean and Area 4B troll** regulations. (Page 3 of 5)

Year	Species	Season	Days	Minimum Size, Area, Gear, and Other Restrictions ^{a/}
1997	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	Aug. 4-31; Sept. 3-6	32	Chinook 24 in., coho 16 in. Barbless hooks.
1998	All except coho	May 1-June 6	37	Chinook 24 in. Barbless hooks.
	All	Aug. 3-21; Sept. 1-4; 6-9; 11-12; 14-15 ^{b/}	28	Chinook 24 in., coho 16 in. Barbless hooks.
1999	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	Aug. 1-6; Aug. 10- Sept. 15	43	Chinook 24 in., coho 16 in. Barbless hooks.
2000	Chinook only	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	Aug. 1-11	11	Chinook 24 in., coho 16 in. Barbless hooks.
2001	Chinook only	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	July 2-Sept. 15	76	Chinook 24 in., coho 16 in. Barbless hooks.
2002	Chinook only	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	July 1-Sept. 15	77	Chinook 24 in., coho 16 in. Barbless hooks.
2003	Chinook only	May 1-June 30	61	Chinook 24 in. Barbless hooks. ^{d/}
	All	July 1-Sept. 15	77	Chinook 24 in., coho 16 in. Barbless hooks. ^{d/}
2004	Chinook only	May 1-June 17	48	Chinook 24 in. Barbless hooks.
	All	July 1-Sep. 10	72	Chinook 24 in., coho 16 in. Barbless hooks.
<u>Statistical Area 4B (Inside Waters) Makah Fishery</u>				
1977-1981	All	Jan. 1-Dec. 31	365	Chinook 22 in., coho 20 in.; except May 1-Sept. 15 chinook 24 in., coho 16 in.
1982	All	Jan. 1-Dec. 31	365	Chinook 22 in., coho 20 in.; except May 1-Sept. 15 chinook 24 in., coho 16 in. Maximum 30 in. chinook size limit Apr. 15-June 15 to protect Puget Sound spring chinook.
1983	All	Jan. 1-Dec. 31	365	Chinook 22 in. except 24 in. May 1-Sept. 15. Coho 20 in. except 16 in. May 1-10 and July 26-Sept. 15; 22 in. June 6-July 25. Maximum 30 in. chinook size limit Apr. 15-June 15 to protect Puget Sound spring chinook.
1984	All	Jan. 1-Dec. 31	366	Chinook 22 in., coho 20 in.; except chinook 24 in., coho 16 in. May 1-Sept. 15. Maximum 30 in. chinook size limit Apr. 15-June 15 to protect Puget Sound spring chinook.
1985	Chinook	May 1-20	20	Chinook 24 in.
	All	June 15-July 20; Aug. 1-10; Sept. 1-4; Sept. 10-11; Oct. 1-31	83	Chinook 28 in. except 24 in. July 1-20; 22 in. Oct. 1-31. Coho 20 in. Maximum 30 in. chinook size limit Apr. 15-June 15. Landing ratios of at least 1 chinook/13 coho Aug. 1-10 and at least 1 chinook/20 coho Sept. 10-11.
1986	Pink	Aug. 15-31	17	
	Coho	Sept. 7-10; Sept. 11-30	24	Ceremonial and subsistence fishery.
	All	Jan. 1-Apr. 30; June 1-Aug. 9; Nov. 1-Dec. 31	251	Chinook 24 in. prior to May; 26 in. June 1-Aug. 9; 22 in. Nov. 1-Dec. 31. Coho 16 in. prior to May and 20 in. thereafter. Landing ratio of at least 1 chinook/10 coho on Aug. 9.
1987	Chinook	May 1-31	31	Chinook 26 in.
	Coho	Aug. 10-12	3	Coho 20 in.
1987	All	Jan. 1-Apr. 30; July 19-Aug. 9; Aug. 17-26; Nov. 1-Dec. 31	213	Chinook 22 in., coho 20 in.; except chinook 26 in., coho 16 in. May-Sept. Landing ratios of at least 1 chinook: per 19 coho in July; per 10 coho Aug. 1-9; and per 5 coho Aug. 17-25.
	Chinook	May 1-26	26	Chinook 26 in.
1988	All	Jan. 1-Apr. 30; July 10-Aug. 21; Sept. 1-3; Nov. 1-Dec. 31	228	Chinook 22 in. prior to Apr. 15 and after Sept. 30; 24 in. Apr. 15-30; 26 in. May-Sept. Coho 20 in. prior to Apr. 15 and after Sept. 30; 22 in. Apr. 15-30; 16 in. July-Sept. Landing ratio of at least 1 chinook/2 coho July 10-19.
	Chinook	May 1-July 9	70	Chinook 26 in.
1989	All	Jan. 1-Apr. 30; July 15-Aug. 8; Aug. 30-Sept. 5; Nov. 1-Dec. 23	205	Chinook 24 in. except 26 in. May-Sept. Coho 22 in. except 16 in. July-Sept.
	Chinook	May 1-June 30	61	Chinook 26 in.
1990	All	Jan. 1-Apr. 30; July 10-27; Aug. 12-31; Sept. 4-7; Nov. 1-Dec. 31	223	Chinook 24 in. prior to May and 26 in. after May. Coho 22 in. except 16 in. July-Sept. Landing ratio of at least 1 chinook/15 coho in Aug.
	Chinook	May 1-June 30	61	Chinook 26 in.

TABLE C-7. Summary of actual **treaty Indian ocean and Area 4B troll** regulations. (Page 4 of 5)

Year	Species	Season	Days	Minimum Size, Area, Gear, and Other Restrictions ^{d/}
1991	All	Jan. 1-Apr. 30; July 7-19; Aug. 3-8; Aug. 10-13; Aug. 19; Oct. 7-Dec. 31	230	Chinook 24 in., coho 22 in. except 16 in. July-Sept. Part day fishery on Aug. 19.
	Chinook	May 1-June 30	61	Chinook 24 in.
1992	All	Jan. 1-Apr. 30; July 15-21; Aug. 1-5; Nov. 1- Dec. 1-31	194	Chinook 22 in. except 24 in. July and Aug. Coho 22 in. except 16 in. July and Aug.
	Chinook	May 1-June 30	61	Chinook 24 in.
1993	All	Jan. 1-Apr. 15; July 1-Oct. 31	228	Chinook 22 in., coho 22 in. except 16 in. July-Oct.
	Chinook	May 1-June 30; Nov. 1-Dec. 31	122	Chinook 24 in. May-June, 22 in. Nov.-Dec.
1994	Chinook	Jan. 1-Apr. 15; May 1-June 30; Nov. 15- Dec. 31	213	Chinook 22 in. except 24 in. May-June.
1995	Chinook	Jan. 1-Apr. 15; May 1-31; Nov. 1-30	166	Chinook 22 in. except 24 in. in May.
	All	Aug. 1-24; Dec. 1-31	55	Chinook 22 in. except 24 in. in Aug. Coho 16 in.
1996	Chinook	Jan. 1-Apr. 15; May 1-June 30; Nov. 1-30	197	Chinook 22 in. except 24 in. May-June.
	All	Aug. 5-13; Sept. 1-11; Dec. 1-31	51	Chinook 22 in. except 24 in. Aug.-Sept. Coho 16 in.
1997	Chinook	Jan. 1-Apr. 15; May 1-June 30; Nov. 1-30	196	Chinook 22 in. except 24 in. May-June.
	All	Aug. 4-31; Sept. 3-6; Dec. 1-31	63	Chinook 22 in. except 24 in. Aug.-Sept. Coho 16 in.
1998	Chinook	Jan. 1-Apr. 15; May 1-June 6; Nov. 1-30	172	Chinook 22 in. except 24 in. May-June.
	All	Aug. 3-21; Sept. 1-4, 6-9, 11-12, 14-15; ^{c/} Dec. 1-31	59	Chinook 22 in. except 24 in. Aug.-Sept. Coho 16 in.
1999	Chinook	Jan. 1-Apr. 15; May 1-June 30; Nov. 1-30	196	Chinook 22 in. except 24 in. May-June.
	All	Aug. 1-Sept. 15; Dec. 1-31	77	Chinook 22 in. except 24 in. Aug.-Sept. Coho 16 in.
2000	Chinook	Jan. 1-Apr. 15; May 1-June 30;	197	Chinook 22 in. except 24 in. May-June.
	All	Nov. 1-Dec. 31 Aug. 1-11	11	Chinook 24 in. Coho 16 in.
2001	Chinook only	Jan. 1-Apr. 15; May 1-June 30;	243	Chinook 22 in. except 24 in. May-June.
	All	Nov. 1-Dec. 31 July 2-Sept. 15	76	Chinook 24 in. Coho 16 in.
2002	Chinook only	Jan. 1-Apr. 15; May 1-June 30; Sept. 16-Dec. 31	273	Chinook 22 in. except 24 in. May-Oct.
	All	July 2-Sept. 15	76	Chinook 24 in. Coho 16 in.
2003	Chinook only	Jan. 1-Apr. 15; May 1-June 30; Sept. 16-Dec. 31	273	Chinook 22 in. except 24 in. May-Oct. ^{d/}
	All	July 1-Sept. 15	77	Chinook 24 in. Coho 16 in. ^{d/}
2004	Chinook only	Jan. 1-Apr. 15; May 1-Jun. 17; Sept. 16- Dec. 31	261	Chinook 22 in., except 24 in. May-Oct.
	All	Jul. 1-Sept. 10	72	Chinook 24 in. Coho 16 in.
JAMESTOWN S'KLALLAM TRIBE				
<u>Statistical Area 4B (Inside Waters) S'Klallam Fishery</u>				
1977- 1979	All	Jan. 1-Dec. 20	354	Chinook 24 in., coho 16 in. except chinook 26 in. during 1979.
1980	All	Jan. 1-Dec. 31	366	Chinook 28 in. coho 20 in. except 16 in. early June to first week in Sept.
1981	All	Jan. 1-Dec. 31	365	Chinook 20 in. except 28 in. early May to first week in Sept. Coho 20 in. except 16 in. early June to first week in Sept.
1982	All	Jan. 1-Dec. 31	365	Chinook 22 in. except 24 in. early May to first week in Sept. Coho 20 in. except 16 in. early June to first week in Sept. Maximum 30 in. chinook size limit Apr. 15-June 15 to protect Puget Sound spring chinook.
1983	All	Jan. 1-Apr. 14; June 16-Dec. 31	303	Chinook 22 in., coho 20 in; except June 16 to first week in Sept. chinook 24 in., coho 16 in. Apr. 15-June 15 closure to protect Puget Sound spring chinook.
1984	All	Jan. 1-Apr. 14; June 17-Dec. 31	303	Chinook 22 in. except 24 in. June 17-Sept. 3. Coho 16 in.
1985	All	Jan. 1-Dec. 31	365	Chinook 22 in. Coho 16 in. Maximum 30 in. chinook size limit Apr. 14-June 15.

TABLE C-7. Summary of actual **treaty Indian ocean and Area 4B troll** regulations. (Page 5 of 5)

Year	Species	Season	Days	Minimum Size, Area, Gear, and Other Restrictions ^{a/}
1986	All	Jan. 1-Aug. 8; Oct. 1-Dec. 31	312	Chinook 22 in. except 30 in. Apr. 14-June 15. Coho 16 in. Closed within 600 ft. of stream mouths.
1987	All	Jan. 1-Aug. 31; Sept. 27-Oct. 6; Nov. 29-Dec. 31	286	Chinook 22 in. except 24 in. after Apr. 11; maximum size limit 30 in. Apr. 12-June 15. Coho 16 in.
	Chinook	Nov. 1-28	28	Chinook 24 in.
1988	All	Jan 1-Sept. 3; Nov. 1-Dec. 31	307	Chinook 24 in. except 22 in. after Sept. Coho 16 in. except 20 in. May-Sept.
1989	All	Jan. 1-Sept. 6; Nov. 1-Dec. 31	310	Chinook 24 in., coho 16 in.
1990	All	Jan. 1-Sept. 7; Nov. 1-Dec. 31	311	Chinook 24 in., coho 16 in.
1991	All	Jan. 1-Apr. 30; July 1-Aug. 13; Nov. 1-Dec. 31	225	Chinook 24 in., coho 16 in.
	Chinook	May 1-June 30	61	Chinook 24 in.
1992	All	Jan. 1-Apr. 30; July 1-Aug. 6; Nov. 1-30; Dec. 7-31	213	Chinook 22 in. except 24 in. July-Aug. Coho 16 in.
	Chinook	May 1-June 30	61	Chinook 24 in.
1993	All	Jan. 1-Apr. 15; July 1-Sept. 30; Nov. 1-Dec. 31	258	Chinook 22 in. except 24 in. July-Sept. Coho 16 in.
	Chinook	May 1-June 30	61	Chinook 24 in.
1994	All	Jan. 1-Apr. 15; Nov. 15-Dec. 31	152	Chinook 22 in., coho 16 in.
	Chinook	May 1-June 30	61	Chinook 24 in.
1995	Chinook	Jan. 1-Apr. 15; May 1-31; Nov. 1-30	166	Chinook 22 in. except 24 in. in May.
	All	Aug. 1-24; Dec. 1-31	55	Chinook 22 in. except 24 in. in Aug. Coho 16 in.
1996	Chinook	Jan. 1-Apr. 15; May 1-June 30; Nov. 1-30	197	Chinook 22 in. except 24 in. May-June.
	All	Aug. 5-13; Sept. 1-11; Dec. 1-31	51	Chinook 22 in. except 24 in. Aug.-Sept. Coho 16 in.
1997	Chinook	Jan. 1-Apr. 15; May 1-June 30; Nov. 1-30	196	Chinook 22 in. except 24 in. May-June.
	All	Aug. 4-29; Sept. 3-7; Dec. 1-31	62	Chinook 22 in. except 24 in. Aug.-Sept. Coho 16 in.
1998	Chinook	Jan. 1-Apr. 15; May 1-June 6; Nov. 1-30	172	Chinook 22 in. except 24 in. May-June.
	All	Aug. 3-Sept. 4; Dec. 1-31	64	Chinook 22 in. except 24 in. Aug.-Sept. Coho 16 in.
1999	Chinook	Jan. 1-Apr. 15; May 1-June 30; Nov. 1-30	196	Chinook 22 in. except 24 in. May-June.
	All	Aug. 1-Sept. 15; Dec. 1-31	77	Chinook 22 in. except 24 in. Aug.-Sept. Coho 16 in.
2000	Chinook	May 1-June 30	61	Chinook 24 in.
	All	Jan. 1-Apr. 15; Aug. 1-16; Nov. 1-Dec. 31 ^{c/}	183	Chinook 22 in. except 24 in. Aug. Coho 16 in.
2001	Chinook	May 1-June 30	61	Chinook 24 in.
	All	Jan. 1-Apr. 15, July 1-Sept. 15; Nov. 1-Dec. 31 ^{c/}	243	Chinook 22 in. except 24 in. Jul.-Sept. Coho 16 in.
2002	Chinook	May 1-June 30	61	Chinook 24 in.
	All	Jan. 1-Apr. 15, July 1-Dec. 31	289	Chinook 22 in. except 24 in. July-Oct. Coho 16 in.
2003	Chinook	May 1-June 30	61	Chinook 24 in. ^{d/}
	All	Jan. 1-Apr. 15, July 1-Dec. 31	289	Chinook 22 in. except 24 in. July-Oct. Coho 16 in. ^{d/}
2004	Chinook	May 1-June 17	48	Chinook 24 in.
	All	Jan. 1-Apr. 15; July 1-Sept. 10; Sept. 16-Dec. 31	285	Chinook 22 in. except 24 in. July-Oct., Coho 16 in.

a/ Ceremonial and subsistence harvest restrictions for ocean fisheries are as follows. Makah Tribe: none. Quinault, Quileute and Hoh tribes: none. 1983-1988, no more than 2 chinook between 24-26 in. per day; beginning in 1989, no restriction on chinook less than 24 in., but no more than 2 chinook longer than 24 in. per day. Beginning in 1985, restrictions on fishing lines have been: no more than 8 fixed lines per boat for Quinault, Quileute, and Hoh tribes; no more than 8 fixed lines per boat or no more than 4 hand-held lines per person for the Makah Tribe. Beginning in 1985, the following closure has been in effect for Quinault, Quileute, and Hoh fisheries: the area within a 6-mile radius of the mouths of the Hoh, Queets, and Quillayute rivers is closed. In 2002, the Quileute ceremonial and subsistence fishery was open from July 1 through October 15.

b/ The specific openings after Sept. 4 were: noon on Sept. 6 through noon on Sept. 9; 6 a.m. on Sept. 11 through noon on Sept. 12; and noon on Sept. 14 through midnight on Sept. 15.

c/ Coho non-retention Nov. 1 through Dec. 31.

d/ No minimum size limit or retention limits for Ceremonial and Subsistence fisheries in 2003.

TABLE C-8. Council preseason adopted **catch quotas** (thousands of fish) for ocean fisheries north of Cape Falcon and **critical stocks** driving management. (Page 1 of 1)

Year	Chinook				Coho			
	Critical Stocks	Treaty Troll	Non-Indian Troll	Sport	Critical Stocks	Treaty Troll	Non-Indian Troll	Sport
1979	None	-	-	-	None	-	-	-
1980	None	-	-	-	Washington coastal coho	-	-	-
1981	None	-	-	-	Hoh and Skagit ^{a/}	-	372.0	248.0
1982	None	-	-	-	Washington coastal coho	-	293.0	215.0
1983	Columbia River hatchery and depressed upriver stocks	-	114.0	88.0	Queets and Skagit ^{b/}	-	164.0	318.0
1984	LRH and SCH	8.3	16.7	10.3	Grays Harbor	38.5	24.8	50.2
1985	SCH	10.5	47.5 ^{c/}	37.2	Skagit	75.0	91.5	198.4
1986	SCH	12.5	51.0	37.1	Quillayute and Queets	86.0	140.6	207.5
1987	SCH	15.8	58.2 ^{d/}	44.6	Skagit	86.0	141.2	200.9
1988	Columbia River upriver stocks	60.0	73.7	29.8	Washington coastal and Puget Sound	68.0	0.0 ^{e/}	100.0
1989	Columbia River upriver stocks	32.0	47.5	47.5	Queets and Skagit	77.0	75.0	225.0
1990	Columbia River LRH	31.2	37.5	37.5	Queets and Skagit	90.0	105.0	245.0
1991	Columbia River LRH	33.0	40.0	40.0	Hood Canal and Skagit	80.0	87.0	233.0
1992	Columbia River tules and Snake River falls	33.0	47.0	33.0	Hood Canal and Stillaguamish	68.0	19.0	141.0
1993	Columbia River tules and Snake River falls	33.0	35.0	25.0	Skagit	90.0	47.5	202.5
1994	Columbia River LRH and Snake River falls	16.4	0.0	0.0	Washington coastal and Puget Sound	0.0	0.0	0.0
1995	Columbia River LRH and Snake River falls	12.0	0.0	0.0	Washington coastal and Puget Sound	30.0	25.0	75.0
1996	Columbia River LRH and Snake River falls	11.0	0.0	0.0	Washington coastal and Puget Sound	30.0	20.8	62.2
1997	Snake River falls	15.0	11.5	5.2	Washington coastal and Puget Sound	12.4	0.0	32.3 ^{f/}
1998	Columbia River LRH	15.0	6.5	3.5	Washington coastal and OCN	10.0	0.0	16.0
1999	Columbia River LRW (Lewis River)	30.0	28.5	21.5	Queets, Strait of Juan de Fuca, and OCN	38.5	20.0	110.0 ^{g/}
2000	Columbia River tules and LRW (Lewis River)	25.5	12.5	12.5	Queets, Skagit, Stillaguamish, Snohomish, Strait of Juan de Fuca, and OCN	20.0	25.0 ^{g/}	75.0 ^{g/}
2001 ^{h/}	Columbia River tules (Coweeman)	37.0	30.0	30.0	OCN	90.0	75.0 ^{g/}	225.0 ^{g/}
2002	Columbia River tules (Coweeman)	60.0	82.5	67.5	OCN ^{i/}	60.0	5.0 ^{g/}	115.0 ^{g/}
2003	Columbia River tules (Coweeman) and Snake River falls	60.0	64.4	59.6	OCN	90.0	75.0 ^{g/}	225.0 ^{g/}
2004	Snake River falls and Columbia River tules (Coweeman)	49.0	44.5	44.5	Interior Fraser (B.C.), OCN, and upper Columbia River escapement	75.0	67.5 ^{g/}	202.5 ^{g/}

a/ Although the Skagit River escapement goal would not be achieved, management was based on meeting WDFW's escapement goal for Hoh River coho and allocation based on aggregation to Washington coastal tribes.

b/ The Council management regime was not expected to meet equitable adjustment requirements for Skagit River coho.

c/ Plus 7,430 hooking mortality for pink fishery.

d/ Plus 3,250 hooking mortality for pink fishery.

e/ Hooking mortality of 2,800 coho for June 1-15 fishery not included.

f/ Plus 1,200 hook-and-release mortality for the Neah Bay all-salmon-except-coho fishery.

g/ Marked hatchery coho only (healed adipose fin clip). Except 2004 non-Indian troll Sept. 1-5 between Queets River and Cape Falcon, and sport Aug. 29-Sept. 6 between Queets River and Leadbetter Point.

h/ Sharing of impacts on ESA listed Puget Sound chinook also affected the shaping of ocean and inside fisheries.

i/ For 2002, the Council elected to constrain fishing so that the OCN exploitation rate would not exceed 12.5% per ODFW's recommendation to provide additional protection for lower Columbia River natural coho, which are listed as endangered under the Oregon State-ESA. The FMP objective for OCN coho was 15%.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2004.^{a/} (Page 1 of 6)

GENERAL MANAGEMENT ACTIONS AND INSEASON CONFERENCES

Mar. 5	National Marine Fisheries Service (NMFS) provides the Council with a letter outlining the 2004 management guidance for stocks listed under the Endangered Species Act (ESA).
Mar. 12	Council adopts three troll and three recreational ocean salmon fishery management options for public review.
Mar. 17	North of Cape Falcon Salmon Forum meets in Lynwood, Washington to initiate consideration of recommendations for treaty Indian and non-Indian salmon management options.
Mar. 29-30	Council holds public hearings on proposed 2004 management options in three locations within the three Pacific Coast states.
Mar. 30	North of Cape Falcon Salmon Forum meets in Seattle, Washington to further consider recommendations for treaty Indian and non-Indian salmon management options.
Apr. 8	Council adopts final ocean salmon fishery management recommendations for approval and implementation by the U.S. Secretary of Commerce. The proposed measures comply with the salmon fishery management plan (FMP) and the current biological opinions for listed species. An emergency rule is not required for implementation.
May 5	Ocean salmon seasons implemented as recommended by the Council and published in the <i>Federal Register</i> on May 5 (69 FR 25026). NMFS inseason conference number one results in closure of the U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery effective midnight, May 5, 2004 as the 29,800 chinook quota was approached, and the preseason intent to reserve at least 500 chinook for the June 26-30 opening was in jeopardy.
May 14	NMFS inseason conference number two results in reopening of the U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery effective midnight, May 15, 2004 through May 18, 2004 with a 125 chinook per vessel landing limit for the five-day open period.
May 21	NMFS inseason conference number three results in reopening of the U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery effective midnight, May 24, 2004 through May 26, 2004 with a 70 chinook per vessel landing limit for the three-day open period.
June 18	NMFS inseason conference number four results in closure of the Humbug Mt., Oregon to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery effective midnight, June 19, 2004 as the 2,600 chinook quota was reached.
July 2	NMFS inseason conference number five results in changing the landing and possession limit in the U.S./Canada border to Cape Falcon, non-Indian commercial salmon fishery from 125 chinook to 100 chinook, for the first two open periods, and changing the second open period from July 15-19 to July 16-19.
July 14	NMFS inseason conference number six results in changing the landing and possession limit in the U.S./Canada border to Cape Falcon, non-Indian commercial salmon fishery from 100 chinook to 125 chinook for the July 16-19 period.
July 16	NMFS inseason conference number seven results in changing Queets River to Cape Falcon recreational fishery bag limit to allow retention of two chinook and open seven days per week beginning July 23.
July 18	NMFS inseason conference number eight results in closure of the Humbug Mt., Oregon to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery effective midnight, July 19, 2004 as the 1,600 chinook quota was reached.
Aug. 3	NMFS inseason conference number nine results in closure of the Humbug Mt., Oregon to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery effective midnight, August 4, 2004 as the 2,500 chinook quota was reached.
Aug. 10	NMFS inseason conference number ten results in two actions: <ol style="list-style-type: none"> 1. Reducing the coho quota in the Queets River to Leadbetter Pt. recreational fishery from 74,900 to 34,900 and increasing the coho quota in the U.S./Canada border to Cape Alava recreational fishery from 21,050 to 27,650 in order to extend the latter fishery into September and maintain impacts on Interior Fraser coho at or below preseason expectations. 2. Effective August 13, the Cape Alava to Cape Falcon all-salmon recreational fishery chinook minimum size limit is reduced from 26 inches total length to 24 inches total length, and the bag limit in the Cape Alava to Queets River subarea is modified to allow retention of two chinook.

GENERAL MANAGEMENT ACTIONS AND INSEASON CONFERENCES (continued)

Aug. 18	NMFS inseason conference number eleven results in four actions: <ol style="list-style-type: none"> 1. Trading 5,000 chinook from the recreational fishery north of Cape Falcon to the non-Indian commercial fishery north of Cape Falcon for 20,000 adipose fin clipped coho from the non-Indian commercial fishery north of Cape Falcon to the recreational fishery north of Cape Falcon. This would allow the commercial fishery to continue through the scheduled closure of September 15. 2. Allowing retention of unmarked coho in the Queets River to Cape Falcon non-Indian commercial fishery beginning September 1 with a landing limit of 500 coho per five-day open period and restricting the fishery to a subarea quota of 10,000 non-mark-selective coho. Unmarked coho must be landed in the area (or in Garibaldi as per the preseason regulations) and may not be possessed in areas north of the Queets River. 3. Allowing retention of unmarked coho in the Queets River to Leadbetter Pt. recreational fishery beginning August 29 under a 10,000 coho subarea quota. Possession and landing of unmarked coho was allowed in the Queets River to Leadbetter Pt. subarea only. 4. The September Humbug, Mt., Oregon to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery was restricted to open dates of September 1-3, 8-10, and 15-30 with a 50 fish per day possession and landing limit.
Aug. 26	NMFS inseason conference number twelve results in adding 3,100 marked coho to the U.S./Canada border to Cape Alava recreational fishery quota from the August 18 trade for 20,000 marked coho from the commercial fishery in order to extend the recreational fishery for another week and maintain impacts on Interior Fraser coho at or below preseason expectations. The 20,000 coho originated from the Queets River to Cape Falcon component of the commercial fishery, and were modeled with 7,100 from the Queets River to Leadbetter Pt. sub area and 12,900 from the Leadbetter Pt. to Cape Falcon sub area. Reducing the coho quota in the Queets River to Leadbetter Pt. recreational fishery from by 7,100 and increasing the coho quota in the U.S./Canada border to Cape Alava recreational fishery by 3,100 maintained impacts on Interior Fraser coho at or below preseason expectations. The new quota in the U.S./Canada border to Cape Alava recreational fishery is 30,750 marked coho. The recreational fishery closing date was set at September 2.
Sept. 2	NMFS inseason conference number thirteen results in closing the Queets River to Leadbetter Pt. recreational fishery effective September 6 as the non-mark selective coho quota of 10,000 was reached. The area between Cape Falcon and Tillamook Head was opened for recreational salmon fishing effective September 4 to increase opportunity after recreational groundfish fishing was closed in Oregon.
Sept. 7	NMFS inseason conference number fourteen results in closing the non-Indian commercial fishery between Queets River and Cape Falcon effective September 7 as the 10,000 non-mark selective coho quota was reached. The fishery north of Queets River was opened from September 8-15 with a 125 chinook per vessel landing limit for the final eight-day open period.
Sept. 9	NMFS inseason conference number fifteen results in reopening the U.S./Canada border to Cape Alava recreational fishery effective September 10 through the earlier of September 19 or the remaining coho quota of 30,750 marked coho.
Sept. 16	NMFS inseason conference number sixteen results in closure of the Oregon/California border to Humboldt south jetty, non-Indian commercial all-salmon-except-coho fishery effective midnight, September 17, 2004 as the 6,000 chinook quota was reached.

NON-INDIAN COMMERCIAL TROLL SEASONS

Mar. 15	<p>Cape Falcon to Florence south jetty, non-Indian commercial all-salmon-except-coho fishery opens through June 30. The fishery reopens July 7 through 12; July 19 through 27; August 1 through 14; August 19 through 24; and September 1 through October 31.</p> <p>Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery opens through July 6. The fishery reopens July 13 through 18; July 26 through 29; August 1 through 8; August 15 through 22; August 26 through 29; and September 1 through October 31.</p> <p>Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery opens through May 31. The fishery is scheduled to reopen June 1 through the earlier of June 30 or a 2,600 chinook quota; July 1 through the earlier of July 31 or a 1,600 chinook quota; August 1 through the earlier of August 29 or a 2,500 chinook quota; and September 1 through the earlier of September 30 or a 3,000 chinook quota.</p>
May 1	<p>U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery opens through the earlier of June 30 or a 29,800 chinook quota.</p> <p>Pt. Arena to U.S./Mexico border, non-Indian commercial all-salmon-except-coho fishery opens through August 29. The fishery reopens September 1 through September 30.</p>
May 5	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery closes to ensure the 29,800 chinook quota was not exceeded and at least 500 chinook remain on the quota for the June 26-30 opener.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2004.^{af} (Page 3 of 6)

NON-INDIAN COMMERCIAL TROLL SEASONS (continued)

May 15-18	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery reopens with a 125 chinook per vessel landing limit for the five-day open period.
May 24-26	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery reopens with a 70 chinook per vessel landing limit for the three-day open period.
May 31	Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery closes.
June 1	Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery opens through the earlier of June 30 or a 2,600 chinook quota. The fishery reopens July 1 through the earlier of July 31 or a 1,600 chinook quota; August 1 through the earlier of August 29 or a 2,500 chinook quota; and September 1 through the earlier of September 30 or a 3,000 chinook quota.
June 19	Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery closes as the 2,600 chinook quota is reached.
June 26	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery reopens through June 30 with a 50 chinook per vessel landing limit for the five-day open period.
June 30	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery closes as scheduled. Cape Falcon to Florence south jetty, non-Indian commercial all-salmon-except-coho fishery closes.
July 1	Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery reopens through the earlier of July 31 or a 1,600 chinook quota. The fishery reopens August 1 through the earlier of August 29 or a 2,500 chinook quota; and September 1 through the earlier of September 30 or a 3,000 chinook quota.
July 6	Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery closes.
July 7-12	Cape Falcon to Florence south jetty, non-Indian commercial all-salmon-except-coho fishery reopens.
July 8-12	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery opens with a 100 chinook per vessel landing limit for the five-day open period. The fishery is scheduled to run through earlier of September 15 or 17,801 chinook quota (14,700 preseason plus 3,101 rollover from the May/June season) or a 67,500 mark-selective coho quota. The 67,500 coho quota includes a subarea quota of 8,000 marked coho for the area between the U.S./Canada border and the Queets River.
July 10	Horse Mt. to Pt. Arena, non-Indian commercial all-salmon-except-coho fishery opens through August 29. The fishery reopens September 1-30.
July 13-18 July 16-19	Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery reopens. U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery opens with a 125 chinook per vessel landing limit for the four-day open period.
July 19	Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery closes as the 1,600 chinook quota is reached.
July 19-27	Cape Falcon to Florence south jetty, non-Indian commercial all-salmon-except-coho fishery reopens.
July 22-26	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery opens with a 125 chinook per vessel landing limit for the five-day open period.
July 26-29	Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery reopens.
July 29-Aug. 2	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery opens with a 125 chinook per vessel landing limit for the five-day open period.
Aug. 1	Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery reopens through the earlier of August 29 or a 2,500 chinook quota. The fishery reopens September 1 through the earlier of September 30 or a 3,000 chinook quota.
Aug. 1-8	Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery reopens.
Aug. 1-14	Cape Falcon to Florence south jetty, non-Indian commercial all-salmon-except-coho fishery reopens.
Aug. 4	Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery closes as the 2,500 chinook quota is reached.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2004.^{a/} (Page 4 of 6)

NON-INDIAN COMMERCIAL TROLL SEASONS (continued)

Aug. 5-9	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery opens with a 125 chinook per vessel landing limit for the five-day open period.
Aug. 11-15	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery opens with a 125 chinook per vessel landing limit for the five-day open period.
Aug. 15-22	Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery reopens.
Aug. 18-22	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery opens with a 125 chinook per vessel landing limit for the five-day open period.
Aug. 19-24	Cape Falcon to Florence south jetty, non-Indian commercial all-salmon-except-coho fishery reopens with an overall quota of 22,801 chinook and 47,500 marked coho after trading 20,000 coho to the recreational fishery in exchange for 5,000 chinook .
Aug. 25-29	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery opens with a 125 chinook per vessel landing limit for the five-day open period.
Aug. 26-29	Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery reopens.
Aug. 29	Horse Mt. to Pt. Arena, non-Indian commercial all-salmon-except-coho fishery closes. Pt. Arena to U.S./Mexico border, non-Indian commercial all-salmon-except-coho fishery closes.
Sept. 1	Cape Falcon to Florence south jetty, non-Indian commercial all-salmon-except-coho fishery reopens through October 31. Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery reopens through October 31. Oregon/California border to Humboldt south jetty, non-Indian commercial all-salmon-except-coho fishery opens through the earlier of September 30 or a quota of 6,000 chinook with a 30 fish per vessel per day possession and landing limit. Horse Mt. to Pt. Arena, non-Indian commercial all-salmon-except-coho fishery reopens through September 30. Pt. Arena to U.S./Mexico border, non-Indian commercial all-salmon-except-coho fishery reopens through September 30
Sept. 1-3	The Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery reopens with a 50 fish per vessel per day possession and landing limit.
Sept. 1-5	The U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery opens with a 125 chinook per vessel landing limit for the five-day open period. The coho quotas were modified to 10,000 non-mark-selective coho for the subarea between the Queets River and Cape Falcon; and 8,000 mark-selective coho for the subarea between the U.S./Canada border and the Queets River.
Sept. 7	The Queets River to Cape Falcon, non-Indian commercial all-salmon fishery closes as the 10,000 non-mark selective coho quota is reached.
Sept. 8-10	The Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery reopens with a 50 fish per vessel per day possession and landing limit.
Sept. 8-15	The U.S./Canada border to Queets River, non-Indian commercial all-salmon fishery opens with a 125 chinook per vessel landing limit for the final eight-day open period.
Sept. 15-30	The Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery reopens with a 50 fish per vessel per day possession and landing limit.
Sept. 17	The Oregon/California border to Humboldt south jetty, non-Indian commercial all-salmon-except-coho fishery closes as the 6,000 chinook quota is reached.
Sept. 30	Horse Mt. to Pt. Arena, non-Indian commercial all-salmon-except-coho fishery closes. Pt. Arena to U.S./Mexico border, non-Indian commercial all-salmon-except-coho fishery closes.
Oct. 1	Pt. Reyes to Pt. San Pedro, non-Indian commercial all-salmon-except-coho fishery opens Monday to Friday through October 15.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2004.^{af} (Page 5 of 6)

NON-INDIAN COMMERCIAL TROLL SEASONS (continued)

- Oct. 15 Pt. Reyes to Pt. San Pedro, non-Indian commercial all-salmon-except-coho fishery closes.
- Oct. 31 Cape Falcon to Florence south jetty non-Indian commercial all-salmon-except-coho fishery closes.
 Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery closes.

TREATY INDIAN COMMERCIAL TROLL SEASONS

- May 1 All-salmon-except-coho fisheries open through the earlier of June 30 or a 22,500 chinook quota for the May through June season (any remainder of the quota is not transferable to the July 1 through September 15 season, but overages to be deducted from the July 1 through September 30 quota).
- June 17 All-salmon-except-coho fisheries close as the 22,500 quota was reached.
- July 1 All-salmon fisheries open through the earlier of September 15, a 22,223 chinook quota (26,500 preseason minus 4,277 overage from the May/June fishery), or a 75,000 non-mark-selective coho quota, and a management trigger of 55,000 coho for the Area 4/4B subarea.
- Sept. 10 The all-salmon commercial fisheries close as the chinook quota is reached.

RECREATIONAL SEASONS

- Feb. 14 Horse Mt. to Pt. Arena, all-salmon-except-coho fishery opens through November 14.
- Mar. 15 Cape Falcon to Humbug Mt., all-salmon-except-coho fishery opens through October 31. The fishery (along with the area between Humbug Mt. and the Oregon/California border) allows mark-selective coho retention beginning June 19 through the earlier of August 31 or a 75,000 coho quota, then reverts back to all-salmon-except-coho for the remainder of the season.
- Apr. 3 Pigeon Pt. to the U.S./Mexico border, all-salmon-except-coho fishery opens through October 3.
- Apr. 17 Pt. Arena to Pigeon Pt., all-salmon-except-coho fishery opens through November 14.
- May 15 Humbug Mt. to Horse Mt., all-salmon-except-coho fishery opens through September 12. The fishery in the area north of the Oregon/California border (including the area between Humbug Mt. and Cape Falcon) allows retention of adipose fin clipped coho beginning June 19 through the earlier of August 31 or a 75,000 coho quota, then reverts back to all-salmon-except-coho for the remainder of the season.
- June 19 Cape Falcon to Oregon/California border, all-salmon mark-selective coho fishery opens through the earlier of August 31 or a quota of 75,000 coho; all coho must have a healed adipose fin clip. The fishery reopens for all-salmon-except-coho the earlier of September 1 or the attainment of the coho quota, and continues through October 31 for the area north of Humbug Mt., and through September 12 for the areas south of Humbug Mt.
- June 27 U.S./Canada border to Cape Alava, all-salmon mark-selective coho fishery opens seven days per week through the earlier of September 19 or a 21,050 coho quota, with a 3,700 chinook guideline. Daily-bag-limit is two fish, only one of which can be a chinook; all coho must have a healed adipose fin clip.
- Cape Alava to Queets River, all-salmon mark-selective coho fishery opens seven days per week though the earlier of September 19 or a 5,200 coho quota, with a 1,900 chinook guideline. Daily-bag-limit is two fish, only one of which can be a chinook; all coho must have a healed adipose fin clip.
- Queets River to Leadbetter Pt., all-salmon mark-selective coho fishery opens though the earlier of September 19 or a 74,900 coho quota, with a 30,800 chinook guideline. Fishery runs Sunday to Thursday through July 22, then seven days per week thereafter. Daily-bag-limit is two fish, only one of which can be a chinook; all coho must have a healed adipose fin clip.
- Leadbetter Pt. to Cape Falcon, all-salmon mark-selective coho fishery opens though the earlier of September 30 or a 101,250 coho quota, with a 8,000 chinook guideline. Fishery runs Sunday to Thursday through July 22, then seven days per week thereafter. Daily-bag-limit is two fish, only one of which can be a chinook; all coho must have a healed adipose fin clip. Closed between Tillamook Head and Cape Falcon beginning August 1.
- July 23 Queets River to Cape Falcon, all-salmon recreational fishery is opened seven days per week, and the bag limit is modified to allow retention of two chinook.
- Aug. 1 The area between Cape Falcon and Tillamook Head, Oregon closes as scheduled.
- Aug. 13 Cape Alava to Cape Falcon all-salmon recreational fishery chinook minimum size limit is reduced from 26 inches total length to 24 inches total length, and the bag limit in the Cape Alava to Queets River subarea is modified to allow retention of two chinook.
- Queets River to Leadbetter Pt. all-salmon recreational fishery mark-selective coho quota is reduced from 74,900 to 34,900 to allow the U.S./Canada border to Cape Alava coho quota to be increased by 6,600 to 27,650, and remain impact neutral with respect to Interior Fraser (Thompson River, British Columbia) coho.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2004.^{a/} (Page 6 of 6)

RECREATIONAL SEASONS (continued)

Aug. 13	
Aug. 29	Queets River to Leadbetter Pt. all-salmon recreational fishery coho regulations were modified to allow non-mark-selective retention of all legal sized coho, and the fishery is scheduled to run through the earlier of September 19 or a non-mark-selective coho quota of 10,000, with a chinook guideline of 25,800 (30,800 preseason minus 5,000 for the trade to the commercial fishery).
Aug. 31	Cape Falcon to Oregon/California border, all-salmon mark-selective coho fishery closes as scheduled.
Sept. 1	Cape Falcon to Oregon/California border, all-salmon-except-coho fishery reopens through October 31.
Sept. 2	U.S./Canada border to Cape Alava, all-salmon mark-selective coho fishery closes as the 30,750 coho quota is approached.
Sept. 4	The area between Cape Falcon and Tillamook Head, Oregon is reopened to salmon retention under the Leadbetter Pt. to Cape Falcon recreational salmon fishery.
Sept. 6	Queets River to Leadbetter Pt., all-salmon coho fishery closes as the 10,000 non-mark selective coho quota is reached.
Sept. 10	U.S./Canada border to Cape Alava, all-salmon mark-selective coho fishery reopens through the earlier of September 19 or the 30,750 mark selective coho quota.
Sept. 12	Humbug Mt. to Horse Mt., all-salmon-except-coho fishery closes.
Sept. 19	The U.S./Canada border to Cape Alava, all-salmon mark-selective coho fishery closes as scheduled. The Cape Alava to Queets River, all-salmon mark-selective coho fishery closes as scheduled.
Sept. 25	La Push area (47°58'00" to 47°50'00" inside 3 nm), all-salmon mark-selective coho fishery reopens through the earlier of October 10, a 100 chinook quota, or a 100 coho quota.
Sept. 30	The Leadbetter Pt. to Cape Falcon, all-salmon mark-selective coho fishery closes as scheduled.
Oct. 3	Pigeon Pt. to U.S./Mexico border, all-salmon-except-coho fishery closes.
Oct. 10	The La Push area, all-salmon mark-selective coho fishery closes as scheduled.
Oct. 31	Cape Falcon to Humbug Mt., all-salmon-except-coho fishery closes.
Nov. 14	Horse Mt. to Pt. Arena, all-salmon-except-coho fishery closes.
Nov. 14	Pt. Arena to Pigeon Pt., all-salmon-except-coho fishery closes.

a/ Unless stated otherwise, season openings or modifications of restrictions are effective at 0001 hours of the listed date. Closures are effective at midnight.

APPENDIX D

HISTORICAL ECONOMIC DATA

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TABLE D-1. California monthly troll chinook and coho average dressed weights (pounds) by area of landing. (Page 1 of 3)

Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Season ^{a/}	May	June	July	Aug.	Sept.	Season
	CHINOOK								COHO					
<u>Crescent City</u>														
1976-1980	9.1	8.5	8.6	9.1	9.8	8.9	-	8.9	3.9	4.3	6.4	7.1	7.1	5.0
1981-1985		7.7	8.3	8.6	8.7	9.2	-	8.5	3.9	4.6	5.4	6.4	6.8	5.9
1986-1990		10.0	9.6	9.7	9.2	9.4	-	9.6	-	5.0	5.3	4.5	5.6	5.1
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	8.3	10.6	-	9.6	-	-	-	-	-	-
1997	-	-	-	-	-	10.0	-	10.0	-	-	-	-	-	-
1998	-	-	-	-	-	8.9	-	8.9	-	-	-	-	-	-
1999	-	-	-	-	-	10.6	-	10.6	-	-	-	-	-	-
2000	-	-	-	-	-	10.7	-	10.7	-	-	-	-	-	-
2001	-	-	-	-	-	13.8	-	13.8	-	-	-	-	-	-
2002	-	-	-	-	13.4	12.0	-	12.3	-	-	-	-	-	-
2003	12.0	12.0	12.0	-	-	10.3	9.1	11.2 ^{a/}	-	-	-	-	-	-
2004 ^{b/}	10.1	-	9.8	11.6	11.9	10.8	-	10.8 ^{a/}	-	-	-	-	-	-
<u>Eureka</u>														
1976-1980	7.8	8.1	8.4	8.6	9.8	9.5	-	8.4	3.1	4.3	6.2	7.1	6.8	4.3
1981-1985		7.5	8.2	9.0	9.2	9.6	-	8.3	4.6	4.7	5.9	6.2	6.6	5.7
1986-1990		-	9.0	10.1	10.2	9.2	9.6	9.3	-	5.2	5.6	5.5	6.2	5.3
1991	-	-	-	-	-	9.5	17.7	10.1	-	-	-	-	6.2	6.2
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	11.9	10.3	-	10.7	-	-	-	-	-	-
1997	-	-	-	-	-	10.0	-	10.0	-	-	-	-	-	-
1998	-	-	-	-	-	8.9	-	8.9	-	-	-	-	-	-
1999	-	-	-	-	-	10.4	-	10.4	-	-	-	-	-	-
2000	-	-	-	-	-	10.9	-	10.9	-	-	-	-	-	-
2001	-	-	-	-	-	11.5	-	11.5	-	-	-	-	-	-
2002	-	-	-	-	11.4	12.1	-	12.0	-	-	-	-	-	-
2003	-	-	-	-	-	9.9	-	9.9	-	-	-	-	-	-
2004 ^{b/}	-	-	-	-	-	11.5	-	11.5	-	-	-	-	-	-

TABLE D-1. California monthly troll chinook and coho average dressed weights (pounds) by area of landing. (Page 2 of 3)

Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Season ^{a/}	May	June	July	Aug.	Sept.	Season
	CHINOOK								COHO					
Fort Bragg														
1976-1980	9.1	8.6	9.4	10.8	10.2	10.5	-	10.1	3.9	4.9	6.7	6.9	7.6	5.4
1981-1985		9.0	10.4	9.6	10.3	10.1	-	9.8	4.6	6.0	6.3	6.6	7.3	6.3
1986-1990		9.3	10.2	9.3	10.1	10.1	-	9.6	-	5.3	5.8	6.4	6.2	5.7
1991	-	-	-	-	10.5	9.5	-	10.5	-	-	-	6.4	-	6.4
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	-	8.2	-	-	-	9.4	-	9.4	-	-	-	-	-	-
1994	-	-	-	-	-	11.0	-	11.0	-	-	-	-	-	-
1995	-	-	-	-	-	11.7	-	11.7	-	-	-	-	-	-
1996	-	-	-	-	11.0	11.7	-	11.2	-	-	-	-	-	-
1997	-	-	-	-	-	9.3	-	9.3	-	-	-	-	-	-
1998	-	-	-	-	-	12.2	-	12.2	-	-	-	-	-	-
1999	-	-	-	-	-	12.2	-	12.2	-	-	-	-	-	-
2000	-	-	-	-	-	11.5	-	11.5	-	-	-	-	-	-
2001	-	12.3	-	-	-	13.0	-	12.8	-	-	-	-	-	-
2002	-	-	-	11.7	13.8	15.3	-	13.4	-	-	-	-	-	-
2003	-	14.9	-	12.7	12.1	11.4	-	12.4	-	-	-	-	-	-
2004 ^{b/}	-	-	-	12.1	11.8	13.1	-	12.1	-	-	-	-	-	-
San Francisco														
1976-1980	8.5	8.9	9.9	10.8	11.4	11.6	-	9.9	4.2	5	6.8	6.8	7.7	5.2
1981-1985		8.6	9.4	10.5	10.5	10.1	-	9.7	4.6	5.9	6.7	6.6	7.8	6.3
1986-1990		9.2	10.2	10.9	12.4	12.1	-	10.1	-	5.6	6.1	6.7	6.2	5.9
1991	-	9.4	10.4	10.8	11.8	10.8	-	10.4	-	5.3	5.9	6.4	-	5.6
1992	-	8.2	-	-	11.0	12.4	-	11.5	-	-	-	4.8	-	4.8
1993	-	7.7	7.8	9.8	9.7	11.3	-	8.8	-	-	-	-	-	-
1994	-	9.1	10.1	10.5	10.4	11.7	-	10.1	-	-	-	-	-	-
1995	-	8.4	8.8	9.8	13.5	12.8	-	9.3	-	-	-	-	-	-
1996	-	9.4	9.4	10.8	12.5	12.9	-	10.3	-	-	-	-	-	-
1997	-	10.0	10.2	11.1	12.4	12.3	-	10.7	-	-	-	-	-	-
1998	-	7.1	7.5	7.9	10.8	11.7	-	8.5	-	-	-	-	-	-
1999	9.9	12.0	12.4	13.7	14.1	13.7	-	13.1	-	-	-	-	-	-
2000	-	8.7	9.6	11.8	12.6	14.1	-	10.4	-	-	-	-	-	-
2001	-	10.9	12.9	12.8	14.2	14.8	16.8	12.7	-	-	-	-	-	-
2002	-	11.4	12.9	12.7	14.7	15.1	14.9	12.6	-	-	-	-	-	-
2003	-	12.0	15.0	12.3	12.7	13.2	11.2	13.6	-	-	-	-	-	-
2004 ^{b/}	-	13.4	11.8	12.0	15.0	13.9	12.9	12.4	-	-	-	-	-	-

TABLE D-1. California monthly troll chinook and coho average dressed weights (pounds) by area of landing. (Page 3 of 3)

Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Season ^{a/}	May	June	July	Aug.	Sept.	Season
	CHINOOK								COHO					
<u>Monterey</u>														
1976-1980	8.5	9.3	9.2	10.9	13.2	10.0	-	9.9	4.4	4.9	6.7	7.2	5.6	5.1
1981-1985		8.6	9.6	10.4	11.1	10.2	-	9.3	5.4	5.2	6.5	7.6	8.3	6.1
1986-1990		10.3	11.3	12.2	12.3	11.8	-	11.1	-	5.6	6.1	6.5	6.4	5.9
1991	-	9.7	14.2	13.0	12.1	13.0	-	12.6	-	5.2	6.0	6.6	-	5.4
1992	-	8.6	9.3	9.1	9.9	9.7	-	9.0	-	4.3	5.2	4.4	-	4.5
1993	-	8.7	9.2	11.0	10.7	10.9	-	9.4	-	-	-	-	-	-
1994	-	10.9	11.6	12.5	12.8	10.0	-	11.8	-	-	-	-	-	-
1995	-	9.2	10.2	11.0	12.9	12.0	-	10.2	-	-	-	-	-	-
1996	-	10.4	11.3	12.6	11.7	11.2	-	11.3	-	-	-	-	-	-
1997	10.6	10.6	10.5	11.9	-	10.0	-	10.9	-	-	-	-	-	-
1998	-	7.5	7.2	7.4	11.1	8.1	-	7.4	-	-	-	-	-	-
1999	11.5	13.6	13.3	15.7	12.6	11.0	-	13.6	-	-	-	-	-	-
2000	-	9.6	13.0	14.4	12.1	-	-	10.9	-	-	-	-	-	-
2001	-	11.5	11.9	12.6	11.0	14.7	-	11.6	-	-	-	-	-	-
2002	-	11.1	13.5	14.4	13.2	13.9	-	13.0	-	-	-	-	-	-
2003	-	13.0	14.4	14.0	14.7	13.8	-	13.8	-	-	-	-	-	-
2004 ^{b/}	-	13.9	12.5	13.3	15.0	13.7	-	13.2	-	-	-	-	-	-
<u>Total Statewide</u>														
1976-1980	8.4	8.6	9.1	10.3	10.7	10.5	-	9.5	3.5	4.5	6.5	7.0	7.1	4.9
1981-1985		8.5	9.7	10.0	10.2	10.0		-	4.6	5.6	6.3	6.6	7.0	6.2
1986-1990		9.5	10.1	10.3	11.1	10.8	9.6	10.1	-	5.2	5.9	6.5	6.0	5.6
1991	-	9.5	11.9	11.6	11.2	10.4	17.7	11.0	-	5.3	5.9	6.4	6.2	5.6
1992	-	8.6	9.3	9.1	10.9	12.1	-	10.0	-	4.3	5.2	4.8	-	4.5
1993	-	8.2	8.7	10.2	9.9	9.7	-	9.1	-	-	-	-	-	-
1994	-	9.7	10.3	11.2	10.5	11.4	-	10.5	-	-	-	-	-	-
1995	-	8.8	9.5	10.5	13.2	12.4	-	9.8	-	-	-	-	-	-
1996	-	10.2	10.2	11.8	11.7	11.9	-	10.8	-	-	-	-	-	-
1997	10.6	10.3	10.4	11.5	12.4	11.7	-	10.8	-	-	-	-	-	-
1998	-	7.4	7.3	7.9	10.8	11.3	-	8.1	-	-	-	-	-	-
1999	9.9	12.8	12.8	14.0	14.1	12.8	-	13.2	-	-	-	-	-	-
2000	-	9.2	11.1	12.4	12.6	12.7	-	10.7	-	-	-	-	-	-
2001	-	11.2	12.6	12.8	14.1	13.5	16.8	12.5	-	-	-	-	-	-
2002	-	11.3	13.1	12.8	13.9	13.8	13.3	12.8	-	-	-	-	-	-
2003	12.0	13.4	14.9	12.7	12.2	11.7	11.1	13.0 ^{a/}	-	-	-	-	-	-
2004 ^{b/}	10.1	13.6	11.9	12.2	12.5	12.8	12.9	12.4 ^{a/}	-	-	-	-	-	-

a/ Season total and average includes minor landings in March and October from Oregon.

b/ Preliminary.

TABLE D-2. Oregon monthly troll chinook and coho salmon average dressed weights (pounds). (Page 1 of 1)

Year or Average	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
CHINOOK										
1971-1975	-	9.4	10.8	10.4	10.1	9.2	11.0	16.3	-	10.2
1976-1980	-	10.2	10.2	10.6	10.0	9.9	10.5	15.4	-	10.3
1981-1985	-	9.0	9.1	9.5	9.0	8.8	11.5	14.7	-	9.2
1986-1990	-	9.3	9.5	9.6	9.0	9.3	10.4	13.8	-	9.5
1991	-	10.4	9.9	9.7	8.3	8.9	10.4	-	-	9.3
1992	-	9.7	10.3	8.7	8.5	9.7	9.9	-	-	9.2
1993	-	9.5	8.9	9.5	8.2	9.2	10.9	12.5	-	9.3
1994	-	10.6	10.6	8.7	13.0	9.6	13.3	15.6	-	11.3
1995	-	9.5	9.3	9.5	9.1	8.7	8.9	8.9	-	9.0
1996	-	9.8	11.3	12.3	11.2	10.5	10.2	11.1	-	10.9
1997	11.8	11.3	11.0	11.9	9.3	9.1	12.4	15.8	-	10.3
1998	11.1	10.8	11.5	12.7	10.8	10.0	14.4	15.6	-	11.2
1999	9.1	10.8	11.7	11.1	10.2	11.8	15.7	16.3	15.2	11.3
2000	13.0	12.9	12.9	11.9	10.9	9.3	10.0	14.2	13.4	10.9
2001	10.3	10.8	10.3	10.5	10.7	9.8	10.3	13.8	13.2	10.5
2002	9.9	10.2	10.5	11.2	10.9	11.4	11.1	15.1	14.1	10.9
2003	9.9	11.6	11.2	11.8	11.3	10.5	10.4	15.6	15.0	10.9
2004 ^{a/}	10.1	10.9	11.5	11.5	11.4	9.8	12.3	14.4	12.6	10.9
COHO										
1971-1975	-	-	5.1	6.1	7.0	7.2	7.9	-	-	6.2
1976-1980	-	-	4.4	5.5	6.1	5.9	6.3	-	-	5.5
1981-1985	-	-	-	4.8	5.3	3.6	-	-	-	5.0
1986-1990	-	-	4.8	4.8	5.1	5.4	7.2	-	-	4.9
1991	-	-	4.2	4.8	5.1	4.8	-	-	-	4.6
1992	-	-	-	4.0	4.2	-	-	-	-	4.2
1993	-	-	-	3.3	5.2	6.0	-	-	-	5.4
1994	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	5.9	6.6	-	-	-	5.9
2001	-	-	-	5.0	6.2	6.0	-	-	-	5.6
2002	-	-	-	-	7.0	-	-	-	-	7.0
2003	-	-	-	5.2	6.7	6.7	-	-	-	6.4
2004 ^{a/}	-	-	-	5.6	6.8	7.9	-	-	-	7.5

a/ Preliminary.

TABLE D-3. Washington monthly troll chinook and coho salmon average dressed weights (pounds).^{a/b/} (Page 1 of 2)

Year	May		June		July		Aug.		Sept.		Oct.		Season ^{c/}	
	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian
CHINOOK														
1980	10.9	12.0	12.6	-	12.5	13.2	14.2	13.5	10.9	13.1	6.7	-	7.3	13.0
1981	7.3	10.2	9.8	-	10.4	12.8	11.0	13.0	8.1	-	5.7	-	6.7	11.4
1982	8.9	9.7	8.0	-	10.2	12.9	8.4	14.0	5.9	13.6	5.5	-	7.0	11.2
1983	7.1	9.9	8.5	-	9.6	11.8	7.8	12.3	7.2	11.7	5.1	-	6.1	10.5
1984	6.6	9.1	8.8	-	8.1	-	8.6	10.7	8.0	-	4.4	-	5.3	9.4
1985	6.5	9.7	8.9	-	9.8	11.5	10.8	11.1	9.5	-	4.9	-	6.9	10.4
1986	8.3	10.1	7.3	-	8.8	-	8.3	10.3	5.9	-	4.5	-	6.0	10.2
1987	8.2	9.0	6.0	-	10.1	10.6	10.0	-	6.1	-	-	-	6.3	9.5
1988	8.2	10.3	9.6	11.1	10.1	-	9.8	-	8.4	-	5.1	-	7.0	10.6
1989	8.8	10.1	7.7	10.1	9.0	-	9.3	13.2	7.8	12.6	5.1	-	7.1	10.6
1990	7.0	8.0	9.7	12.0	10.1	13.6	8.2	12.7	6.0	11.7	6.2	12.6	7.0	11.1
1991	7.4	10.1	7.9	10.9	8.9	-	8.7	12.7	4.3	12.0	7.9	-	6.5	10.6
1992	6.4	11.3	7.3	12.3	8.3	12.1	8.4	11.5	7.5	-	4.8	-	6.1	11.6
1993	6.3	10.7	7.3	10.8	8.5	12.0	8.3	11.4	8.4	12.1	8.5	-	7.0	11.0
1994	9.6	-	9.9	9.3 ^{d/}	11.9	-	-	-	-	-	-	-	8.1	9.3 ^{d/}
1995	5.7	-	6.7	-	6.0	-	7.7	9.1 ^{d/}	6.2	9.4 ^{d/}	4.2	8.3 ^{d/}	6.9	8.4 ^{d/}
1996	5.8	-	6.2	12.9 ^{d/}	-	12.6 ^{d/}	7.8	-	6.7	-	-	-	6.9	12.4 ^{d/}
1997	7.3	10.4	6.7	10.9	-	-	8.4	-	9.3	-	-	-	7.4	10.6
1998	11.1	11.4	11.7	12.9	7.4	-	11.0	-	8.2	-	-	-	10.8	11.4
1999	7.1	11.0	8.8	11.1	-	11.9	7.7	11.0	5.6	-	-	-	8.1	11.2
2000	10.6	12.0	9.2	12.0	6.7	-	7.3	10.9	-	10.7	-	-	9.2	11.9
2001	7.4	10.3	9.5	11.7	12.1	12.6	9.7	10.9	8.7	10.1	-	-	9.5	11.4
2002	9.5	11.4	12.9	12.2	11.5	13.1	11.8	14.5	8.3	NA	-	-	11.3	12.6
2003	11.2	12.4	9.3	12.9	13.9	16.0	18.0	17.4	13.4	13.9	-	-	12.5	14.6
2004	10.2	11.6	12.1	14.4	13.7	16.2	13.0	16.5	17.3	16.8	5.0	-	11.8	14.2

TABLE D-3. Washington monthly troll chinook and coho salmon average dressed weights (pounds).^{a/b/} (Page 2 of 2)

Year	May		June		July		Aug.		Sept.		Oct.		Season ^{c/}	
	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian
COHO														
1980	2.5	-	3.4	-	4.3	4.8	5.7	6.0	6.9	5.7	-	-	3.7	5.2
1981	1.7	-	2.9	-	3.9	4.2	4.7	4.7	5.9	5.9	-	5.8	4.5	4.3
1982	2.2	-	3.5	-	4.2	4.7	5.3	4.1	6.5	4.9	-	-	5.3	5.0
1983	3.0	-	3.4	-	3.6	5.0	4.0	4.0	4.8	-	-	-	4.1	4.2
1984	-	-	-	-	3.1	-	5.0	4.5	5.1	-	6.5	-	4.2	4.5
1985	-	-	3.1	-	4.4	4.5	5.5	5.8	5.7	-	-	-	5.0	4.6
1986	-	-	3.0	-	3.5	-	3.9	4.2	-	-	5.8	-	3.4	4.1
1987	-	-	-	-	3.9	4.3	4.3	-	4.6	-	4.6	-	4.1	4.3
1988	-	-	2.6	-	4.1	-	3.9	-	4.4	-	5.0	-	4.0	-
1989	-	-	-	-	4.0	-	4.2	3.8	4.6	4.9	5.0	-	4.3	3.9
1990	-	-	2.9	-	4.6	5.5	4.8	5.2	5.8	6.0	6.2	7.0	4.8	5.6
1991	-	-	-	-	4.1	-	4.8	5.0	3.9	5.6	6.0	-	4.4	5.1
1992	-	-	2.7	-	3.5	3.8	3.4	4.5	2.9	-	3.9	-	3.5	4.1
1993	-	-	-	-	3.4	3.6	4.6	5.0	4.9	5.8	5.7	-	4.6	4.8
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	3.8	-	4.6	4.2	3.9	4.7	8.0	-	4.6	4.4
1996	-	-	-	-	-	3.8	3.5	4.0	5.3	-	-	-	5.0	4.0
1997	-	-	-	-	-	-	3.4	-	3.9	-	-	-	3.6	-
1998	-	-	-	-	-	-	5.0	-	5.8	-	-	-	5.4	-
1999	-	-	-	-	5.0	4.6	5.0	5.7	-	5.9	-	-	5.0	5.5
2000	-	-	4.0	-	-	-	5.0	5.8	-	6.7	-	-	5.0	5.9
2001	-	-	5.2	-	4.8	5.0	5.6	6.1	6.0	6.8	-	-	5.6	6.0
2002	12.0	-	5.0	-	5.4	10.0	6.6	5.9	5.4	-	-	-	5.8	6.0
2003	7.3	-	-	-	5.3	5.1	6.2	6.4	5.8	7.1	-	-	5.7	6.0
2004	5.0	-	5.0	-	5.5	5.9	6.0	6.7	7.9	7.3	7.4	-	6.2	6.8

a/ Split between treaty Indian and non-Indian beginning in 1979. Treaty Indian statistics include landings from Puget Sound.

b/ All values in this table are based on preliminary information available at the start of each year's review.

c/ Season totals include additional winter treaty Indian troll.

d/ The fishery for chinook was closed north of Cape Falcon, however, chinook were caught off Oregon and landed in Washington.

TABLE D-4. **California troll** combined chinook and coho salmon **landings** in dressed weight, value of landings and **number of registered vessels** making commercial salmon landings.^{a/} (Page 1 of 1)

Year	Dressed Pounds Landed (thousands)	Nominal Exvessel Value (\$ thousands)	Vessels Landing Salmon	Vessels with Permits	Nominal Average Exvessel Value/Vessel (dollars)	Real Average Exvessel Value/Vessel (2004 dollars)
1960	6,221	3,339	1,365	-	2,446	12,589
1961	8,638	4,698	1,615	-	2,909	14,804
1962	6,673	4,023	1,563	-	2,574	12,922
1963	7,849	3,959	1,611	-	2,457	12,208
1964	9,481	5,013	1,774	-	2,826	13,827
1965	9,674	4,989	2,001	-	2,493	11,981
1966	9,447	4,845	1,929	-	2,512	11,736
1967	7,402	3,945	2,137	-	1,846	8,367
1968	6,952	4,014	2,249	-	1,785	7,758
1969	6,151	3,843	2,125	-	1,808	7,489
1970	6,629	5,101	2,065	-	2,470	9,715
1971	8,117	4,757	2,221	-	2,142	8,022
1972	6,423	4,830	2,392	-	2,019	7,249
1973	9,669	8,991	2,848	-	3,157	10,734
1974	8,749	8,013	3,185	-	2,516	7,846
1975	6,925	6,972	3,150	-	2,213	6,307
1976	7,788	10,707	3,526	-	3,037	8,181
1977	5,920	12,074	3,797	-	3,180	8,054
1978	6,788	11,001	4,919	-	2,236	5,293
1979	8,746	19,659	4,593	-	4,280	9,354
1980	6,017	13,149	4,738	-	2,775	5,561
1981	6,012	14,322	4,102	-	3,491	6,395
1982	8,000	19,489	4,013	5,964	4,856	8,384
1983	2,411	4,608	3,223	4,617	1,430	2,374
1984	2,970	7,562	2,569	4,180	2,944	4,711
1985	4,600	11,515	2,308	3,869	4,989	7,750
1986	7,598	15,112	2,582	3,753	5,853	8,895
1987	9,293	25,623	2,442	3,533	10,493	15,523
1988	14,750	41,927	2,571	3,493	16,308	23,330
1989	5,720	13,485	2,534	3,464	5,322	7,336
1990	4,436	12,056	2,115	3,372	5,700	7,565
1991	3,697	9,047	1,769	3,242	5,114	6,558
1992	1,643	4,505	1,085	2,974	4,152	5,205
1993	2,537	5,707	1,240	2,741	4,602	5,639
1994	3,103	6,437	1,024	2,470	6,286	7,542
1995	6,633	11,693	1,104	2,344	10,591	12,452
1996	4,113	5,984	985	2,221	6,075	7,010
1997	5,247	7,288	835	2,076	8,728	9,906
1998	1,847	3,060	670	1,899	4,567	5,127
1999	3,846	7,429	666	1,788	11,155	12,342
2000	5,131	10,303	757	1,725	13,611	14,738
2001	2,409	4,773	689	1,653	6,927	7,328
2002	5,008	7,776	708	1,581	10,983	11,441
2003	6,392	12,181	584	1,518	20,857	21,381
2004 ^{b/}	6,226	17,883	738	1,508	24,232	24,232

a/ Derived from vessel registrations and fish landing tickets.

b/ Preliminary.

TABLE D-5. **Oregon troll** combined chinook and coho salmon **landings** in dressed weight, value of landings and number of registered vessels making commercial salmon landings.^{a/} (Page 1 of 1)

Year	Dressed Pounds Landed (thousands)	Nominal Exvessel Value (\$ thousands)	Vessels Landing Salmon	Vessels with Permits	Nominal Average Exvessel Value/Vessel (dollars)	Real Average Exvessel Value/Vessel (2004 dollars)
1974	-	7,937	2,253	-	3,523	10,986
1975	-	5,808	2,304	-	2,521	7,183
1976	10,983	14,868	2,770	-	5,368	14,278
1977	6,209	11,484	3,108	-	3,695	9,129
1978	4,673	7,340	3,158	-	2,324	5,501
1979	7,166	16,989	3,114	-	5,456	11,923
1980	4,362	8,185	3,875 ^{b/}	4,314	2,112	4,232
1981	4,897	9,573	3,615	3,926	2,648	4,851
1982	5,060	9,895	3,269	3,646	3,027	5,226
1983	1,753	2,296	2,951	3,439	778	1,292
1984	621	1,595	771 ^{c/}	3,203	2,069	3,345
1985	2,514	5,774	2,050 ^{d/}	2,993	2,817	4,375
1986	5,275	7,954	2,288	2,739	3,476	5,284
1987	7,098	16,763	2,111	2,626	7,941	11,748
1988	7,723	21,536	2,061	2,597	10,449	14,949
1989	5,528	10,025	1,937	2,569	5,176	7,134
1990	2,815	6,641	1,557	2,528	4,265	5,661
1991	2,106	3,120	1,217	2,044 ^{e/}	2,564	3,288
1992	1,219	2,712	649	2,111	4,179	5,238
1993	770	1,671	612	1,814	2,735	3,345
1994	287	690	371	1,569	1,859	2,231
1995	1,941	3,294	476	1,465	6,920	8,136
1996	1,926	3,007	455	1,377	6,609	7,625
1997	1,542	2,469	433	1,295	5,702	6,471
1998	1,398	2,297	373	1,201	6,159	6,913
1999	722	1,401	328	1,111	4,271	4,726
2000	1,552	3,064	399	1,062	7,679	8,316
2001 ^{f/}	2,949	4,721	449	1,175	10,511	11,122
2002 ^{f/}	3,498	5,391	468	1,175	11,519	12,001
2003 ^{f/}	3,681	7,222	494	1,178	14,619	14,987
2004 ^{f/}	2,909	9,893	595	1,181	16,627	16,627

a/ Derived from vessel registrations and fish landing tickets.

b/ The establishment of a restricted vessel permit system drew a number of historically active vessels back into the fishery in 1980.

c/ Vessels were not required to land at least one salmon in 1984 to be eligible for a permit in 1985. The Oregon Fish and Wildlife Commission waived this requirement because of the elimination of the coho fishery south of Cape Falcon.

d/ Vessels traditionally landing salmon south of Cape Blanco and north of Cape Falcon were not required to land at least one salmon in 1985 to be eligible for a permit in 1986. The Oregon Fish and Wildlife Commission waived this requirement because of the complete salmon closure south of Cape Blanco and a limited one-day coho season between the Columbia River and Cape Blanco.

e/ Legislation passed during the 1991 season of the Oregon Legislature waived the requirement that troll permit holders must buy a 1991 permit to be able to renew for 1992. This was a one-time exemption for 1991 only.

f/ Permits were reissued in a lottery, because the total number of permits had fallen below 1,200.

TABLE D-6. **Washington non-Indian troll** combined chinook and coho salmon **landings** in dressed weight, value of landings, and number of registered vessels making commercial salmon landings.^{a/} (Page 1 of 1)

Year	Dressed Pounds Landed (thousands)	Nominal Exvessel Value (thousands of dollars)	Vessels Landing Salmon	Vessels with Permits	Nominal Average Exvessel Value/Vessel (thousands of dollars)	Real Average Exvessel Value/Vessel (2004 thousands of dollars)
1978	4,746	10,025	3,041	3,291	3,297	7,802
1979	5,262	15,091	2,778	3,068	5,432	11,872
1980	3,398	7,114	2,626	2,797	2,709	5,428
1981	2,678	5,921	2,439	2,603	2,428	4,447
1982	2,671	6,730	2,253	2,512	2,987	5,157
1983	653	1,465	2,045	2,328	716	1,190
1984	197	410	381	2,071 ^{b/}	1,076	1,722
1985	964	1,601	1,259	1,650 ^{c/}	1,272	1,975
1986	659	1,175	1,252	1,531	938	1,426
1987	758	1,960	883	1,401	2,220	3,283
1988	798	2,337	650	1,337	3,596	5,144
1989	696	1,230	883	1,306	1,393	1,920
1990	850	1,648	897	1,170	1,837	2,438
1991	612	1,126	811	1,013	1,388	1,780
1992	583	1,299	604	806	2,151	2,696
1993	398	795	474	668	1,677	2,055
1994	7 ^{d/}	e/	1	7 ^{f/}	e/	17,996
1995	126	91	96	435 ^{g/}	948	1,114
1996	87	85	90	333	924	1,067
1997	81	126	51	324 ^{h/}	2,450	2,781
1998	82	123	23	299 ^{i/}	5,345	5,999
1999	220	396	57	214	6,947	7,687
2000	162	258	49	179 ^{j/}	5,283	5,711
2001	290	383	57	169	6,718	7,106
2002	679	758	75	165	10,102	10,524
2003	875	991	82	163	12,087	12,390
2004	594	1,185	86	160	13,779	13,779

a/ Derived from vessel registrations and fish landing tickets. All values in this table are based on preliminary information available at the start of each year's salmon review.

b/ 312 licenses and delivery permits purchased by buyback program.

c/ 118 licenses and delivery permits purchased by buyback program.

d/ Chinook were caught off Oregon and landed in Puget Sound.

e/ Value information is not provided in order to preserve confidentiality.

f/ Vessels were not required to purchase a permit in 1994 to maintain their eligibility for a permit in 1995.

g/ 190 licenses and delivery permits purchased by buyback program.

h/ 72 licenses and delivery permits purchased by buyback program at the end of 1996 and early 1997.

i/ 100 licenses and delivery permits purchased by buyback program at the end of 1997 and early 1998.

j/ 41 licenses purchased by buyback program at the end of 2000.

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon.^{a/} (Page 1 of 3)

Year	Vessels			Catch ^{b/}		
	Length Category (feet)	Number ^{c/}	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2004 ^{d/}	≤20	39	5	1,117	43,580	1
	21-25	117	16	2,195	256,856	4
	26-30	112	15	3,288	368,200	6
	31-35	142	19	7,291	1,035,303	17
	36-40	141	19	9,860	1,390,309	22
	41-45	84	11	16,214	1,361,934	22
	46-50	66	9	17,837	1,177,254	19
	51-55	18	2	21,536	387,642	6
	>56	19	3	10,764	204,515	3
TOTAL	738		8,436	6,225,593		
2003	≤20	22	4	1,966	43,251	1
	21-25	104	18	2,665	277,192	4
	26-30	94	16	4,208	395,574	6
	31-35	111	19	8,288	919,974	14
	36-40	113	19	14,938	1,687,971	26
	41-45	68	12	20,592	1,400,250	22
	46-50	48	8	24,450	1,173,576	18
	51-55	12	2	24,685	296,220	5
	>56	12	2	16,468	197,613	3
TOTAL	584		10,945	6,391,621		
2002	≤20	34	5	1,314	44,687	1
	21-25	123	17	2,211	271,972	5
	26-30	111	16	3,137	348,249	7
	31-35	122	17	5,760	702,716	14
	36-40	147	21	9,090	1,336,204	27
	41-45	79	11	13,411	1,059,442	21
	46-50	64	9	11,734	750,989	15
	51-55	15	2	19,988	299,817	6
	>56	13	2	14,880	193,446	4
TOTAL	708		7,073	5,007,523		
2001	≤20	26	4	559	14,529	1
	21-25	117	17	1,117	130,707	5
	26-30	105	15	2,212	232,279	10
	31-35	124	18	3,308	410,150	17
	36-40	145	21	4,627	670,878	28
	41-45	76	11	6,087	462,586	19
	46-50	64	9	5,245	335,652	14
	51-55	18	3	5,324	95,824	4
	>56	14	2	4,000	56,006	2
TOTAL	689		3,496	2,408,609		
2000	≤20	40	5	1,382	55,282	1
	21-25	139	18	2,502	347,743	7
	26-30	115	15	3,881	446,283	9
	31-35	129	17	6,438	830,552	16
	36-40	166	22	8,136	1,350,574	26
	41-45	73	10	11,447	835,622	16
	46-50	66	9	12,811	845,530	17
	51-55	17	2	17,942	305,017	6
	>56	12	2	9,500	113,994	2
TOTAL	757		6,778	5,130,597		

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon.^{a/} (Page 2 of 3)

Year	Vessels			Catch ^{b/}		
	Length Category (feet)	Number ^{c/}	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
1999	≤20	41	6	891	36,524	1
	21-25	125	19	2,259	282,366	7
	26-30	88	13	3,712	326,697	8
	31-35	131	20	5,196	680,635	18
	36-40	139	21	7,867	1,093,568	28
	41-45	65	10	10,422	677,411	18
	46-50	55	8	10,202	561,119	15
	51-55	15	2	9,101	136,509	4
	>56	7	1	7,275	50,928	1
TOTAL	645		5,400	3,845,762		
1998	≤20	45	7	934	42,044	2
	21-25	154	23	1,406	216,593	12
	26-30	101	15	2,277	229,951	12
	31-35	119	18	2,604	309,870	17
	36-40	129	19	4,040	521,184	28
	41-45	64	10	4,514	288,916	16
	46-50	40	6	4,648	190,579	10
	51-55	11	2	3,256	35,821	2
	>56	6	1	4,048	12,105	1
TOTAL	670		2,757	1,847,102		
1997	≤20	54	6	1,482	80,022	2
	21-25	197	24	2,791	549,756	10
	26-30	126	15	4,462	562,213	11
	31-35	144	17	6,358	915,510	17
	36-40	157	19	8,500	1,334,555	25
	41-45	78	9	11,281	879,913	17
	46-50	54	6	13,156	710,418	14
	51-55	13	2	11,806	153,476	3
	>56	12	1	11,118	61,929	1
TOTAL	835		6,285	5,247,792		
1996	≤20	66	7	1,500	99,021	2
	21-25	221	22	1,793	396,205	10
	26-30	163	16	2,648	431,620	11
	31-35	161	16	4,315	694,793	17
	36-40	176	18	5,945	1,046,274	25
	41-45	97	10	7,311	709,120	17
	46-50	73	7	7,984	582,826	14
	51-55	14	2	7,751	108,511	3
	>56	14	2	5,508	45,032	1
TOTAL	985		4,176	4,113,403		
1995	≤20	88	7	1,478	130,074	2
	21-25	295	25	2,905	856,987	13
	26-30	188	16	4,542	853,887	13
	31-35	176	15	6,636	1,167,899	18
	36-40	210	18	8,147	1,710,765	26
	41-45	105	9	8,748	918,546	14
	46-50	82	7	8,480	695,374	10
	51-55	21	2	10,708	224,861	3
	>56	14	1	10,724	75,068	1
TOTAL	1,179		5,626	6,633,463		

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon.^{a/} (Page 3 of 3)

Year	Vessels			Catch ^{b/}		
	Length Category (feet)	Number ^{c/}	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
1994	≤20	78	8	584	45,530	1
	21-25	254	25	1,425	362,007	12
	26-30	170	17	2,085	354,515	11
	31-35	151	15	3,340	504,287	16
	36-40	188	18	4,719	887,232	29
	41-45	94	9	5,878	552,514	18
	46-50	69	7	4,001	276,100	9
	51-55	13	1	8,541	111,033	4
	>56	7	1	1,704	9,887	e/
TOTAL	1,024		3,030	3,103,104		
1993	≤20	101	8	447	45,103	2
	21-25	321	26	1,028	330,110	13
	26-30	218	18	1,538	335,333	13
	31-35	167	13	2,467	411,989	16
	36-40	216	17	3,103	670,209	26
	41-45	103	8	3,859	397,525	16
	46-50	78	6	3,050	237,930	9
	51-55	22	2	4,205	92,500	4
	>56	14	1	1,156	16,185	1
TOTAL	1,240		2,046	2,536,884		
1992	≤20	98	9	347	33,962	2
	21-25	279	26	838	233,894	14
	26-30	190	18	1,178	223,847	14
	31-35	158	15	1,535	242,532	15
	36-40	180	17	2,579	464,288	28
	41-45	87	8	2,842	247,249	15
	46-50	64	6	1,720	110,058	7
	51-55	19	2	3,719	70,668	4
	>56	10	1	2,194	16,906	1
TOTAL	1,085		1,515	1,643,403		
1991	≤20	196	11	540	105,895	3
	21-25	427	24	944	403,026	11
	26-30	300	17	1,489	446,841	12
	31-35	219	12	2,284	500,112	14
	36-40	309	17	3,194	987,011	27
	41-45	148	8	4,315	638,649	17
	46-50	118	7	3,814	450,025	12
	51-55	27	2	4,852	130,991	4
	56-60	13	1	1,514	19,681	1
	>60	9	1	1,594	14,349	e/
	Unknown	3	e/	226	677	e/
TOTAL	1,769		24,766	3,697,257		

a/ Derived from vessel registrations and fish landing tickets.

b/ Excludes pink salmon landings.

c/ Number of boats includes only those recording pounds greater than 0.

d/ Preliminary.

e/ Less than 0.5%.

TABLE D-8. Oregon salmon troll boat-size catch statistics in pounds of dressed salmon. (Page 1 of 2)

Year	Vessels			Catch		
	Length Category (Feet)	Number ^{a/}	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2004 ^{b/}	<20	4	0.7%	721	2,883	0.1%
	20-29	120	20.2%	2,266	271,944	9.3%
	30-39	205	34.5%	5,149	1,055,574	36.3%
	40-49	199	33.4%	6,360	1,265,683	43.5%
	≥50	67	11.3%	4,668	312,752	10.8%
	TOTAL	595		4,889	2,908,836	
2003	<20	4	0.8%	957	3829	0.1%
	20-29	120	24.4%	2,425	291,051	7.9%
	30-39	167	34.0%	7,702	1,286,218	35.1%
	40-49	152	31.0%	10,170	1,545,898	42.2%
	≥50	48	9.8%	11,220	538,580	14.7%
	TOTAL	491		7,466	3,665,576	
2002	<20	3	0.6%	1,760	5,281	0.2%
	20-29	103	22.1%	3,488	359,299	10.3%
	30-39	179	38.3%	7,931	1,419,713	40.6%
	40-49	140	30.0%	10,092	1,412,864	40.4%
	≥50	42	9.0%	7,173	301,280	8.6%
	TOTAL	467		7,491	3,498,437	
2001	<20	6	1.3%	1,271	7,626	0.3%
	20-29	102	22.7%	2,768	282,386	9.6%
	30-39	170	37.9%	6,894	1,172,058	39.7%
	40-49	141	31.4%	9,175	1,293,723	43.8%
	≥50	30	6.7%	6,488	194,652	6.6%
	TOTAL	449		6,571	2,950,445	
2000	<20	3	1.0%	2,056	6,169	0.0%
	20-29	100	25.0%	1,933	193,346	13.0%
	30-39	157	39.0%	4,726	741,968	48.0%
	40-49	111	28.0%	4,594	509,986	33.0%
	≥50	28	7.0%	3,606	100,965	7.0%
	TOTAL	399		3,891	1,552,434	
1999	<20	6	2.0%	1,131	6,783	1.0%
	20-29	68	21.0%	1,205	81,964	11.0%
	30-39	140	43.0%	2,517	352,355	49.0%
	40-49	93	28.0%	2,499	232,418	32.0%
	≥50	21	6.0%	2,298	48,263	7.0%
	TOTAL	328		2,201	721,783	
1998	<20	5	1.0%	1,536	7,679	1.0%
	20-29	65	17.0%	1,036	67,332	5.0%
	30-39	163	44.0%	3,673	598,702	43.0%
	40-49	110	30.0%	5,395	593,433	43.0%
	≥50	30	8.0%	4,351	130,537	9.0%
	TOTAL	373		3,747	1,397,683	
1997	<20	5	1.0%	1,149	5,743	d/
	20-29	98	23.0%	838	82,089	5.0%
	30-39	185	43.0%	3,976	735,478	48.0%
	40-49	114	26.0%	5,401	615,756	40.0%
	≥50	31	7.0%	3,322	102,982	7.0%
	TOTAL	433		2,937	1,542,048	

TABLE D-8. Oregon salmon troll boat-size catch statistics in pounds of dressed salmon. (Page 2 of 2)

Year	Vessels			Catch		
	Length Category (Feet)	Number ^{a/}	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
1996	<20	6	1.0%	2,088	12,530	1.0%
	20-29	117	26.0%	1,009	118,069	6.0%
	30-39	186	41.0%	5,010	931,895	48.0%
	40-49	115	25.0%	6,466	743,584	39.0%
	≥50	32	7.0%	3,720	119,048	6.0%
	TOTAL	456		4,222	1,925,126	
1995	<20	8	2.0%	1,561	12,486	1.0%
	20-29	142	30.0%	1,190	168,999	9.0%
	30-39	185	39.0%	4,573	845,647	44.0%
	40-49	111	23.0%	6,884	764,118	39.0%
	≥50	30	6.0%	4,995	149,846	8.0%
	TOTAL	476		4,078	1,941,096	
1994	<20	7	2.0%	968	6,776	2.0%
	20-29	114	31.0%	435	49,573	17.0%
	30-39	153	41.0%	824	126,188	44.0%
	40-49	85	23.0%	1,080	91,834	32.0%
	≥50	12	3.0%	1,032	12,382	4.0%
	TOTAL	371		773	286,753	
1993	<20	10	2.0%	662	6,619	1.0%
	20-29	206	34.0%	558	115,029	15.0%
	30-39	236	39.0%	1,549	365,597	48.0%
	40-49	128	21.0%	1,888	241,663	31.0%
	≥50	32	5.0%	1,282	41,029	5.0%
	TOTAL	612		1,258	769,937	
1992	<20	7	1.0%	706	4,945	c/
	20-29	242	37.0%	849	205,466	17.0%
	30-39	245	38.0%	2,384	584,162	48.0%
	40-49	134	21.0%	2,911	390,040	32.0%
	≥50	21	3.0%	1,630	34,231	3.0%
	TOTAL	649		1,878	1,218,844	
1991	<20	22	2.0%	622	13,672	1.0%
	20-29	568	47.0%	1,266	719,071	34.0%
	30-39	365	30.0%	2,138	780,386	37.0%
	40-49	209	17.0%	2,468	515,790	24.0%
	≥50	53	4.0%	1,583	84,279	4.0%
	TOTAL	1,217		1,736	2,113,198	

a/ Number of boats includes only those recording pounds greater than 0.

b/ Preliminary.

TABLE D-9. Washington non-Indian salmon troll boat-size catch statistics in pounds of dressed salmon.^{a/} (Page 1 of 2)

Year	Vessels			Catch ^{b/}		
	Length Category (Feet)	Number ^{d/}	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2004	≤25	8	9	4,462	35,700	6
	26-30	20	23	5,797	115,933	20
	>36	56	65	7,749	433,952	73
	Unknown	2	2	4,464	8,927	1
	TOTAL	86		6,913	594,512	
2003	≤25	10	12	6,141	61,407	7
	26-30	19	23	7,433	141,235	16
	>36	53	65	12,715	673,876	77
	Unknown	0	-	-	-	-
	TOTAL	82		10,689	876,518	
2002	≤25	7	9	7,326	51,283	7
	26-30	17	23	6,275	106,668	16
	>36	50	67	9,931	496,565	73
	Unknown	1	1	25,133	25,133	4
	TOTAL	75		9,062	679,649	
2001	≤25	3	5	4,534	13,603	5
	26-30	15	26	3,960	59,403	20
	>36	39	69	5,576	217,467	75
	Unknown	0	-	-	-	-
	TOTAL	57		4,570	290,473	
2000	≤25	3	6	873	2,620	2
	26-30	13	27	3,401	44,218	27
	>36	29	59	3,627	105,171	65
	Unknown	4	8	2,573	10,291	6
	TOTAL	49		3,312	162,300	
1999	≤25	5	9	2,511	12,557	6
	26-36	14	25	3,731	52,237	24
	>36	35	61	4,333	151,638	69
	Unknown	3	5	1,220	3,661	2
	TOTAL	57		3,861	220,093	
1998	≤25	3	13	545	1,634	2
	26-36	6	26	2,842	17,050	21
	>36	13	57	4,799	62,385	76
	Unknown	1	4	522	522	1
	TOTAL	23		3,547	81,591	
1997	≤25	7	14	322	2,253	3
	26-36	16	31	1,468	23,491	29
	>36	26	51	2,096	54,500	67
	Unknown	2	4	352	703	1
	TOTAL	51		1,587	80,947	
1996	≤25	39	43	709	27,664	31
	26-36	24	27	868	20,826	23
	>36	20	22	1,372	27,440	31
	Unknown	7	8	1,861	13,029	15
	TOTAL	90		988	88,959	

TABLE D-9. **Washington non-Indian salmon troll boat-size** catch statistics in pounds of dressed salmon.^{a/} (Page 2 of 2)

Year	Vessels			Catch ^{b/}		
	Length Category (Feet)	Number ^{c/}	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
1995	≤25	45	47	1,864	83,901	36
	26-36	30	31	2,936	88,083	38
	>36	17	18	2,950	50,144	22
	Unknown	4	4	2,351	9,403	4
	TOTAL	96		2,412	231,531	
1994 ^{d/}	≤25	0	-	-	-	-
	26-36	0	-	-	-	-
	>36	1	100	7,263	7,263	100
	Unknown	0	-	-	-	-
	TOTAL	1		7,263	7,263	
1993	≤25	174	37	235	40,879	10
	26-36	134	28	627	84,005	21
	>36	145	31	1,832	265,684	65
	Unknown	21	4	924	19,406	5
	TOTAL	474		904	409,974	
1992	≤25	241	40	276	66,617	11
	26-36	167	28	727	121,416	21
	>36	170	28	2,176	369,833	64
	Unknown	26	4	956	24,848	4
	TOTAL	604		4,135	582,714	
1991	≤25	292	36	426	124,397	16
	26-36	204	25	729	148,643	19
	>36	212	26	1,859	394,075	51
	Unknown	103	13	1,006	103,637	14
	TOTAL	811		950	770,752	

a/ All values in this table are based on preliminary information available at the start of each year's review.

b/ Excludes pink salmon landings.

c/ Number of boats includes only those recording pounds greater than 0.

d/ The fishery was closed north of Cape Falcon, however, chinook were caught off Oregon and landed in Puget Sound.

TABLE D-10. Preliminary **California salmon landings (in pounds of dressed salmon) and exvessel values** by vessel size categories and ports from Crescent City to Morro Bay South, 2004. (Page 1 of 1)

Port	Vessel Length (feet)	Number of Deliveries	Total Dressed Pounds Landed	Total Exvessel Value (dollars)	% Total Exvessel Value Landed In Port
Crescent City ^{a/}	<26	-	-	-	-
	26-36	22	23,610	73,114	8
	>36	104	280,368	850,666	92
Eureka ^{b/}	<26	45	6,456	21,143	10
	26-36	33	6,019	19,264	9
	>36	178	51,637	165,547	80
Shelter Cove	<26	296	55,558	156,828	85
	26-36	43	6,356	17,496	10
	>36	11	3,167	10,366	6
Fort Bragg ^{c/}	<26	209	34,476	101,047	3
	26-36	632	301,913	820,051	25
	>36	884	893,123	2,409,201	72
Bodega Bay	<26	583	72,589	208,488	7
	26-36	744	271,871	733,952	25
	>36	810	701,802	1,996,020	68
San Francisco	<26	113	9,104	30,562	1
	26-36	296	243,951	706,834	16
	>36	808	1,286,977	3,741,421	84
Half Moon Bay	<26	49	8,870	26,986	1
	26-36	447	243,645	689,596	21
	>36	832	867,484	2,568,960	78
Santa Cruz	<26	85	7,111	23,266	3
	26-36	417	87,110	272,967	40
	>36	146	134,004	391,912	57
Moss Landing	<26	613	49,601	139,128	12
	26-36	570	129,647	380,834	33
	>36	265	217,566	633,758	55
Monterey	<26	513	52,780	141,348	34
	26-36	345	66,483	185,162	44
	>36	205	33,036	90,612	22
Morro Bay south	<26	58	3,890	14,316	5
	26-36	137	22,900	79,044	29
	>36	122	52,492	183,063	66

a/ Crescent City includes landings of salmon caught in Oregon waters.

b/ Eureka includes minor landings made in Trinidad port area.

c/ Fort Bragg includes minor landings made in Mendocino port area.

TABLE D-11. Preliminary 2004 **Washington non-Indian troll salmon landings** (in pounds of dressed salmon) and **exvessel value** by vessel size categories and port areas.^{a/b/} (Page 1 of 1)

Port	Vessel Length (Feet)	Number of Boats	Boat Days Fished	Total Dressed Pounds Landed	Total Exvessel Value (dollars)	% Total Exvessel Value Landed by Port
Neah Bay	≤25	2	24	5,556	10,392	2%
	26-36	5	67	35,619	58,281	13%
	>36	32	342	217,676	369,827	83%
	Unknown	0	9	3,887	9,611	2%
	TOTAL	39	442	262,738	448,111	
La Push	≤25	1	16	2,985	5,711	4%
	26-36	3	84	22,426	37,341	27%
	>36	9	104	67,949	93,677	68%
	Unknown	0	0	0	0	69%
	TOTAL	13	204	93,360	136,729	
Grays Harbor	≤25	5	110	17,619	39,156	7%
	26-36	12	208	49,734	126,757	24%
	>36	25	273	138,231	345,239	65%
	Unknown	2	18	5,040	17,984	3%
	TOTAL	44	609	210,624	529,136	
Columbia River Ports	≤25	1	5	2,410	7,205	12%
	26-36	2	53	8,154	23,955	40%
	>36	5	25	9,156	28,262	48%
	Unknown	0	0	0	0	0%
	TOTAL	8	83	19,720	59,422	
Puget Sound	≤25	1	32	7,130	10,296	87%
	26-36	0	0	0	0	0%
	>36	1	6	940	1,482	13%
	Unknown	0	0	0	0	0%
	TOTAL	2	38	8,070	11,778	

a/ Preliminary.

b/ Total pounds and exvessel values reported in this table are less than are reported in other tables of the review. The differences is 1% or less and is likely related to vessel information missing for certain landings.

TABLE D-12. **California number of vessels** landing 50% and 90% of total pounds of salmon troll catch each year. (Page 1 of 1)

Year	Total Vessels	50% of Pounds Landed		90% of Pounds Landed	
		Number of Vessels	% of Fleet	Number of Vessels	% of Fleet
1978	4,919	542	11.0	2,024	41.1
1979	4,594	373	8.1	1,641	35.7
1980	4,738	431	9.1	1,733	36.6
1981	4,102	395	9.6	1,599	39.0
1982	4,013	438	10.9	1,602	40.0
1983	3,223	353	11.0	1,268	39.4
1984	2,569	213	8.3	918	35.7
1985	2,308	241	10.4	898	38.9
1986	2,582	302	11.8	1,151	45.1
1987	2,442	320	13.2	1,080	44.5
1988	2,571	409	15.9	1,285	50.0
1989	2,534	363	14.3	1,244	49.1
1990	2,115	295	14.0	976	46.2
1991	1,769	224	12.7	791	44.7
1992	1,085	131	12.1	485	44.7
1993	1,240	163	13.1	554	44.7
1994	1,024	141	13.8	459	44.8
1995	1,179	190	16.1	581	49.3
1996	985	128	13.0	434	44.1
1997	835	117	14.0	377	45.2
1998	670	90	13.4	325	48.5
1999	666	103	15.5	316	47.4
2000	757	117	15.5	370	48.9
2001	689	90	13.1	328	47.6
2002	708	89	12.6	315	44.5
2003	584	74	12.7	237	40.6
2004 ^{a/}	738	107	14.5	343	46.5

a/ Preliminary.

TABLE D-13. **Oregon number of vessels** landing 50% and 90% of **total pounds** of salmon troll catch each year.^{a/} (Page 1 of 1)

Year	Total Vessels	50% of Pounds Landed		90% of Pounds Landed	
		Number of Vessels	% of Fleet	Number of Vessels	% of Fleet
1974	1,914	326	17.0	1,032	53.9
1975	1,979	329	16.6	1,054	53.3
1976	2,770	453	16.4	1,460	52.7
1977	3,108	473	15.2	1,597	51.4
1978	3,157	446	14.1	1,576	49.9
1979	3,114	423	13.6	1,449	46.5
1980	3,875	372	9.6	1,375	35.5
1981	3,615	420	11.6	1,391	38.5
1982	3,269	359	11.0	1,249	38.2
1983	2,951	294	10.0	1,082	36.7
1984	771	88	11.4	333	43.2
1985	2,050	132	6.4	514	25.1
1986	2,284	238	10.4	851	37.3
1987	2,111	292	13.8	928	44.0
1988	2,061	337	16.4	1,069	51.9
1989	1,937	303	15.6	959	49.5
1990	1,557	221	14.2	709	45.5
1991	1,217	206	16.9	651	53.5
1992	649	87	13.4	286	44.1
1993	612	67	10.9	235	38.4
1994	371	43	11.6	152	41.0
1995	476	52	10.9	184	38.7
1996	456	62	13.6	202	44.3
1997	433	60	13.9	184	42.5
1998	373	51	13.7	165	44.2
1999	328	47	14.3	150	45.7
2000	399	68	17.0	197	49.4
2001	449	68	15.1	221	49.2
2002	467	76	16.3	230	49.3
2003	491	83	16.9	254	51.7
2004 ^{b/}	595	110	18.5	318	53.4

a/ Includes licensed (permitted for 1980 on) and properly identified vessels only. Total poundage on which the numbers are based is not equal to total aggregate troll landings because of landings by unlicensed or misidentified vessels. Percentages of total pounds not credited to licensed (permitted) vessels were 1974-19%, 1975 - 19%, 1976 - 9.4%, 1977 - 8%, 1978 - 1.4%, 1979 - 0.2%, 1980 - 1.7%, 1981 - 0.11%, 1982-2002 - less than 0.05%, 2003 - 0.06%, and 2004 - 0.15%.

b/ Preliminary.

TABLE D-14. **Washington number of vessels** landing 50% and 90% **(by numbers of fish)** of non-Indian troll salmon catch.^{a/}
(Page 1 of 1)

Year	Total Vessels	50% of Fish Landed		90% of Fish Landed	
		Number of Vessels	% of Fleet	Number of Vessels	% of Fleet
1978	3,041	223	7.3	1,040	34.2
1979	2,778	253	9.1	946	34.1
1980	2,626	206	7.8	883	33.6
1981	2,439	214	8.8	810	33.2
1982	2,253	181	8.0	703	31.2
1983	2,056	75	3.6	409	19.9
1984	374	55	14.7	180	48.1
1985	1,259	104	8.3	443	35.2
1986	1,252	100	8.0	387	30.9
1987	883	97	11.0	385	43.6
1988	650	51	7.8	239	36.8
1989	883	70	7.9	268	30.4
1990	897	111	12.4	373	41.6
1991	811	84	10.4	344	42.4
1992	604	59	9.8	193	32.0
1993	474	47	9.9	162	34.2
1994	1	NA	NA	NA	NA
1995	96	13	13.5	41	42.7
1996	90	14	15.6	45	50.0
1997	51	7	13.7	23	45.1
1998	23	5	21.7	12	52.2
1999	57	10	17.5	32	56.1
2000	49	11	22.5	28	57.1
2001	57	12	21.1	34	59.7
2002	75	15	20.0	42	56.0
2003	82	18	22.0	47	57.3
2004	86	18	20.9	53	61.6

a/ All values in this table are based on preliminary information available at the start of each year's review and are not updated in subsequent years.

TABLE D-15. Preliminary 2004 **California, Oregon, and Washington troll fleet** by home state and salmon landings and exvessel value. (Page 1 of 1)^{a/}

Home State	Number of Vessels	Percent	Landings (Pounds)	Percent	Total Value (Dollars)	Percent
CALIFORNIA						
California	690	93.5%	5,538,989	89.0%	15,937,399	89.1%
Oregon	32	4.3%	447,482	7.2%	1,259,266	7.0%
Washington	13	1.8%	205,873	3.3%	600,593	3.4%
Unknown/Other	3	0.4%	33,248	0.5%	85,695	0.5%
TOTAL	738		6,225,593		17,882,953	
OREGON						
Oregon	430	72.3%	2,145,137	73.7%	N/A	N/A
California	61	10.3%	274,102	9.4%	N/A	N/A
Washington	94	15.8%	450,748	15.5%	N/A	N/A
Unknown/Other	10	1.7%	38,849	1.3%	N/A	N/A
TOTAL	595		2,908,836		9,893,677	
WASHINGTON						
Washington	83	96.5%	583,956	98.2%	1,153,539	97.3%
Oregon	1	1.2%	1,629	0.3%	4,042	0.3%
California	0	0.0%	0	0.0%	0	0.0%
Unknown/Other	2	2.3%	8,927	1.5%	27,595	2.3%
TOTAL	86		594,521			

a/ Pinks excluded, except Oregon.

TABLE D-16. Vessels landing salmon in California by vessel length and skipper's state of residence. (Page 1 of 1)

Year	Home State ^{a/}												Total (length) ^{b/}			Grand Total ^{c/}
	California (length)				Oregon (length)				Washington (length)				<26	26-36	>36	
	<26	26-36	>36	Subtotal	<26	26-36	>36	Subtotal	<26	26-36	>36	Subtotal	<26	26-36	>36	
1978	2,325	1,165	1,006	4,496	97	176	262	535	5	16	85	106	2,462	1,365	1,378	5,205
1979	2,243	1,152	980	4,375	68	158	210	436	3	20	59	82	2,338	1,338	1,266	4,942
1980	2,069	1,248	1,138	4,455	97	163	228	488	6	25	90	121	2,189	1,447	1,478	5,114
1981	1,611	1,052	865	3,528	64	126	204	394	2	11	66	79	1,717	1,224	1,159	4,100
1982 ^{d/}	1,535	1,051	873	3,459	59	117	196	372	2	16	64	82	1,631	1,223	1,157	4,011
1983	1,223	891	733	2,847	41	82	125	248	0	13	34	47	1,292	1,020	909	3,221
1984	909	805	620	2,334	25	47	84	156	2	10	34	46	951	871	745	2,567
1985	769	731	630	2,130	6	23	66	95	2	7	15	24	795	784	726	2,305
1986	866	815	658	2,339	22	60	98	180	1	8	27	36	898	891	790	2,579
1987	831	759	641	2,231	11	42	85	138	2	4	34	40	854	816	769	2,439
1988	834	788	670	2,292	12	42	92	146	1	7	35	43	895	855	817	2,567
1989	865	771	652	2,288	11	46	94	151	4	4	42	50	880	821	788	2,489
1990	744	653	553	1,950	6	31	63	100	2	5	20	27	752	689	636	2,077
1991	615	548	465	1,628	3	34	57	94	2	6	13	21	620	588	535	1,743
1992	374	369	304	1,047	2	12	10	24	0	2	1	3	376	383	315	1,074
1993	414	422	347	1,183	2	11	22	35	0	3	4	7	421	440	379	1,240
1994	323	341	286	950	4	18	24	46	0	3	9	12	327	362	319	1,024
1995	372	395	326	1,093	4	21	38	63	0	2	8	10	376	418	372	1,179
1996	275	340	283	898	3	9	27	39	0	4	17	21	278	353	327	985
1997	245	297	242	784	1	8	19	28	1	1	4	6	250	314	271	835
1998	192	239	200	631	0	5	11	16	2	2	3	7	198	254	218	670
1999	161	209	249	619	0	6	20	26	1	0	6	7	166	219	281	666
2000	176	234	286	696	0	5	38	43	2	4	8	14	179	244	334	757
2001	142	221	286	649	0	4	23	27	1	3	7	11	143	229	317	689
2002	153	229	285	667	1	3	28	32	2	0	4	6	157	233	318	708
2003	126	201	230	557	0	2	16	18	0	0	5	5	126	205	253	584
2004 ^{e/}	154	248	288	690	1	3	28	32	0	2	11	13	156	254	328	738

a/ "Home state" refers to the declared state of residence of vessel skipper, who, in most cases, is also the vessel owner.

b/ Includes vessels with home states other than California, Oregon, and Washington.

c/ Includes vessels of unknown lengths.

d/ Length category for 1982 is ≥ 36 .

e/ Preliminary.

TABLE D-17. Percentages of **vessels landing** troll salmon in **Oregon** by license holder's state of residence. (Page 1 of 1)

Year	Oregon	California	Washington	Other/Unknown
1977	83.8	6.9	8.7	0.6
1978	83.6	5.9	10.0	0.5
1979	82.5	6.5	10.3	0.7
1980	80.4	8.5	9.6	1.5
1981	81.2	7.4	9.9	1.6
1982	82.1	6.3	10.2	1.4
1983	85.0	3.9	10.1	1.0
1984	85.2	2.9	11.0	0.9
1985	86.9	4.0	8.0	1.1
1986	84.5	5.2	9.1	1.2
1987	81.7	6.8	10.2	1.2
1988	78.7	6.4	13.5	1.3
1989	80.0	5.6	12.9	1.4
1990	81.1	6.7	10.7	1.5
1991	83.8	2.5	12.1	1.6
1992	83.4	3.4	12.5	0.8
1993	85.8	2.5	11.1	0.6
1994	86.5	1.1	12.1	0.3
1995	85.5	2.7	10.7	1.1
1996	83.5	2.0	13.8	0.7
1997	85.0	1.2	12.5	1.4
1998	82.3	0.8	16.6	0.3
1999	87.2	0.9	11.6	0.3
2000	84.4	1.8	13.3	0.5
2001	81.1	4.0	14.3	0.6
2002	79.7	3.9	15.6	9.8
2003	79.2	3.7	15.9	1.2
2004 ^{a/}	72.3	10.3	15.8	1.7

a/ Preliminary.

TABLE D-18. Percentages of **vessels landing non-Indian** troll salmon in **Washington** by license holder's state of residence.^{a/}
(Page 1 of 1)

Year	Washington	Oregon	California	Alaska	Other/Unknown
1978	90.8	4.6	0.3	0.2	4.1
1979	90.9	3.8	0.3	0.3	4.7
1980	93.7	3.6	0.3	0.3	2.1
1981	92.6	3.0	0.4	0.2	3.8
1982	92.6	4.1	0.6	0.0	2.8
1983	92.7	2.8	0.2	0.1	4.2
1984	94.8	1.6	0.0	0.0	3.7
1985	92.7	3.3	0.2	0.2	3.6
1986	93.1	1.7	0.0	0.1	5.1
1987	90.4	1.3	0.0	b/	8.0
1988	88.0	1.8	0.2	1.5	8.5
1989	92.2	0.9	0.0	1.0	5.9
1990	92.7	0.7	0.0	b/	6.5
1991	85.8	0.7	0.0	0.0	13.5
1992	92.7	2.0	0.7	0.3	4.3
1993	93.3	0.8	0.8	0.0	5.1
1994 ^{c/}	100.0	0.0	0.0	0.0	0.0
1995	95.8	0.0	0.0	0.0	4.2
1996	93.3	0.0	0.0	0.0	6.7
1997	96.1	0.0	0.0	0.0	3.9
1998	95.7	0.0	0.0	0.0	4.3
1999	94.7	0.0	0.0	0.0	5.3
2000	91.8	0.0	0.0	0.0	8.2
2001	100.0	0.0	0.0	0.0	0.0
2002	96.1	0.0	0.0	0.0	3.9
2003	100.0	0.0	0.0	0.0	0.0
2004	96.5	1.2	0.0	0.0	2.3

a/ All values in this table are based on preliminary information available at the start of each year's review.

b/ Less than 0.5%.

c/ The fishery was closed north of Cape Falcon, however, chinook were caught off Oregon and landed in Washington.

TABLE D-19. Number of **California charter boats** participating in the ocean **recreational** salmon fishery, by port area and activity level. (Page 1 of 2)

Year	Activity Level ^{a/}	Port Area					Unknown ^{b/}	Total
		Monterey	San Francisco	Fort Bragg	Eureka	Crescent City		
1987	Active	20	62	6	4	4	0	96
	Casual	11	30	1	6	1	4	53
	TOTAL	31	92	7	10	5	4	149
1988	Active	19	58	8	6	3	1	95
	Casual	13	24	4	5	1	24	71
	TOTAL	32	82	12	11	4	25	166
1989	Active	16	53	5	11	1	3	89
	Casual	31	35	18	5	0	4	93
	TOTAL	47	88	23	16	1	7	182
1990	Active	19	50	7	8	4	5	93
	Casual	26	30	3	5	0	3	67
	TOTAL	45	80	10	13	4	8	160
1991	Active	18	42	7	7	3	1	78
	Casual	71	29	1	2	1	4	108
	TOTAL	89	71	8	9	4	5	186
1992	Active	11	33	4	0	0	1	49
	Casual	42	37	4	4	2	2	91
	TOTAL	53	70	8	4	2	3	140
1993	Active	13	36	2	2	2	11	66
	Casual	37	14	3	3	0	4	61
	TOTAL	50	50	5	5	2	15	127
1994	Active	12	34	3	0	1	10	60
	Casual	17	18	3	3	1	0	42
	TOTAL	29	52	6	3	2	10	102
1995	Active	40	47	5	1	0	0	93
	Casual	51	15	0	3	1	1	71
	TOTAL	91	62	5	4	0	0	164
1996	Active	19	46	8	2	0	0	75
	Casual	27	18	3	2	1	0	51
	TOTAL	46	64	11	4	1	0	126
1997	Active	27	44	7	4	0	0	82
	Casual	18	15	2	3	0	0	38
	TOTAL	45	59	9	7	0	0	120
1998	Active	41	19	6	1	0	0	67
	Casual	16	38	2	3	0	0	59
	TOTAL	57	57	8	4	0	0	126
1999	Active	7	43	2	1	0	0	53
	Casual	14	28	11	3	0	0	56
	TOTAL	21	71	13	4	0	0	109
2000	Active	23	44	9	2	0	0	78
	Casual	22	22	1	2	2	0	49
	TOTAL	45	66	10	4	2	0	127
2001	Active	11	31	8	2	0	0	52
	Casual	7	12	3	2	1	0	25
	TOTAL	18	43	11	4	1	0	77

TABLE D-19. Number of **California charter boats** participating in the ocean **recreational** salmon fishery, by port area and activity level. (Page 2 of 2)

Year	Activity Level ^{a/}	Port Area					Unknown ^{b/}	Total
		Monterey	San Francisco	Fort Bragg	Eureka	Crescent City		
2002	Active	14	47	12	4	0	0	77
	Casual	<u>13</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>0</u>	<u>0</u>	<u>25</u>
	TOTAL	27	51	16	8	0	0	102
2003	Active	10	41	10	2	0	0	63
	Casual	<u>12</u>	<u>9</u>	<u>2</u>	<u>7</u>	<u>0</u>	<u>0</u>	<u>30</u>
	TOTAL	22	50	12	9	0	0	93
2004	Active	10	40	9	6	0	0	65
	Casual	<u>4</u>	<u>10</u>	<u>4</u>	<u>2</u>	<u>1</u>	<u>0</u>	<u>21</u>
	TOTAL	14	50	13	8	1	0	86

a/ Active vessels landed more than 100 salmon; casual vessels landed 100 salmon or less.

b/ Unknown vessels did not report port of landing or landed in two or more port areas during the season.

TABLE D-20. Number of **charter boats** licensed in **Oregon**. (Page 1 of 1)

Year	Total Number Licensed Charter Boats ^{a/}	Licensed By Oregon Residents	Licensed By Washington Residents	Licensed By Residents of Other States
1980	194	192	2	0
1981	248	213	34	1
1982	253	212	40	1
1983	255	206	47	2
1984	218	185	31	2
1985	226	198	25	3
1986	247	216	26	5
1987	254	226	23	5
1988	313	266	42	5
1989	322	273	44	5
1990 ^{b/}	170	157	9	4
1991	171	161	7	3
1992	157	150	4	3
1993	148	144	2	2
1994	145	137	6	2
1995	134	NA	NA	NA
1996	127	121	6	0
1997	122	119	3	0
1998	129	125	4	0
1999	137	133	4	0
2000	143	139	4	0
2001	172	162	10	0
2002	181	172	9	0
2003	206	186	19	1
2004 ^{c/}	203	184	18	1

a/ Legislation that created the license requirement expired in 1987. Fees were between \$25 and \$100 from 1980-1987. The license requirement was reinstated by rule in 1988 and 1989 with a \$10 fee.

b/ In 1990, responsibility for licensing of charter vessels was transferred to the Marine Board and fees for Oregon residents were increased from \$10 to between \$50 and \$100.

c/ Preliminary.

TABLE D-21. Number of salmon **charter boats** licensed in **Washington** (including Puget Sound). (Page 1 of 1)

Year	Number of Licenses Issued	Licensed by Washington Residents	Licensed by Residents of Other States	Buyback
1975	404	351	53	-
1976	427	362	65	-
1977 ^{a/}	569	NA	NA	-
1978	535	483	52	-
1979	516	473	43	-
1980	510	465	45	16
1981	478	443	35	3
1982	415	387	28	25
1983	375	354	21	19
1984	334	313	21	21
1985	288	268	20	19
1986	308	286	22	15
1987	280	269	11	-
1988	281	268	13	-
1989	276	263	13	-
1990	273	258	15	-
1991	267	251	16	-
1992	269	252	17	-
1993	265	250	15	-
1994	260	245	15	-
1995	231	217	14	23
1996	210	199	9	18
1997	210	197	13	0
1998	198	188	10	20
1999	180	172	8	0
2000	143	139	4	37
2001	142	137	5	0
2002	138	134	4	0
2003	140	137	3	0
2004 ^{b/}	143	140	3	0

a/ First year moratorium in effect.

b/ Preliminary.

TABLE D-22. Price index.^{a/} (Page 1 of 1)

Year	Price Index
1960	19.4
1961	19.6
1962	19.9
1963	20.1
1964	20.4
1965	20.8
1966	21.4
1967	22.1
1968	23.0
1969	24.1
1970	25.4
1971	26.7
1972	27.9
1973	29.4
1974	32.1
1975	35.1
1976	37.1
1977	39.5
1978	42.3
1979	45.8
1980	49.9
1981	54.6
1982	57.9
1983	60.2
1984	62.5
1985	64.4
1986	65.8
1987	67.6
1988	69.9
1989	72.5
1990	75.3
1991	78.0
1992	79.8
1993	81.6
1994	83.4
1995	85.1
1996	86.7
1997	88.1
1998	89.1
1999	90.4
2000	92.3
2001	94.5
2002	96.0
2003	97.6
2004 ^{b/}	100.0

a/ Based on gross domestic product implicit price deflator.

b/ Preliminary estimate of annual change based on the second and third quarters of the year.

