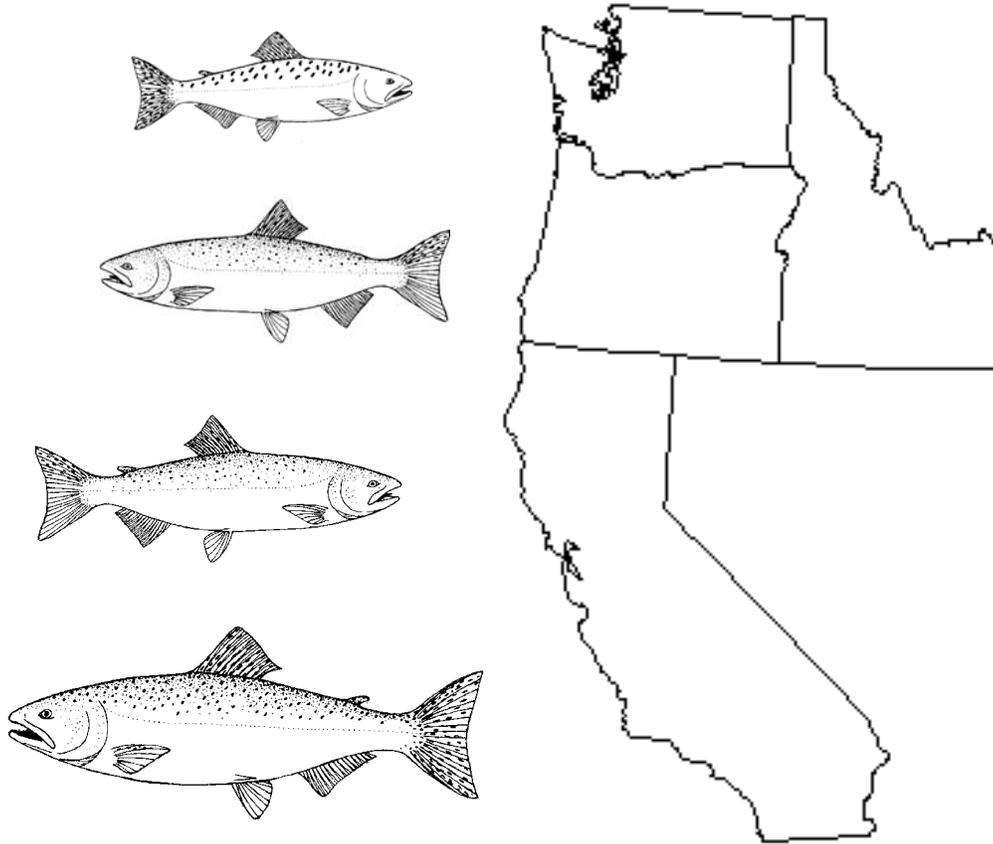


# REVIEW OF 2003 OCEAN SALMON FISHERIES



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# ACKNOWLEDGMENTS

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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
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 coast (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

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## INTRODUCTION

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The Salmon Technical Team (STT) and staff of the Pacific Fishery Management Council (Council) have prepared this postseason review of the 2003 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 2004 management measures. The STT and Council staff will provide three additional reports prior to the beginning of the ocean salmon season to 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 the achievement of pertinent management objectives by salmon stock (including those listed under the Endangered Species Act), outline the 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, respectively.

The annual review of ocean salmon fisheries is drafted as early as landings and escapement information is available, and consequently, updated information may become available at a later date. Most recent entries are, therefore, noted as preliminary, and in subsequent years, the preliminary information is generally updated to final status. 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 2003 data provided in this report are preliminary. The following conventions apply to all tables in this report:

1. Totals may not precisely equal the sum of individual years, due to rounding of numbers.
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.
4. "NA" indicates data are not available at the time of publication.

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# CHAPTER I

## COASTWIDE OCEAN FISHING SUMMARY

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Chapter I contains, or references, tables which summarize 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 2003 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 the 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 2003 season.

Catch, quota, and fishing effort statistics are presented in a series of tables as listed below:

- % 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 2003 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 2003. (Page 1 of 2)

Area and Season	Salmon Species	Actual Quota (Guideline*)		Special Restrictions <sup>af</sup>
		Chinook	Coho	
U.S./Canada border to Cape Falcon, Oregon				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 that 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 Oregon Department of Fish and Wildlife (ODFW) before transiting the Cape Falcon line (45°46'00" N latitude) Cape Flattery and Columbia River Control Zones closed; Grays Harbor Control Zone closed beginning August 16.
May 1-June 6; June 26-30 (Season total of 42 days)	All except coho	40,000	-	- Landing limit of no more than 50 chinook per 5-day open period.
July 3-Sept. 14, open Thursdays through Sundays (54 Days)		32,400 <sup>bf</sup>	75,000	Landing limit of no more than 75 chinook for the first 5-day open period, then 150 chinook per 5-day open period thereafter.
Cape Falcon to Florence south jetty, Oregon Mar. 15-July 16, Aug. 1-19; 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-July 16, Aug. 1-19; Sept. 1-Nov. 14 (218 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-June 30, July 17-31 Aug. 11-29; Sept. 1-Oct. 31 (203 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. Landings restricted to Port Orford.
Humbug Mt. to Oregon/California border Mar. 15- May 31	All except coho	None	-	-
Jun. 1-30		2,500	-	Landing limit of 50 fish per trip June 1 through Aug. 29, and 65 fish per trip
July 1-31		1,200	-	Sept. 1 through 30. All fish must be landed and delivered to Gold Beach,
Aug. 1-29		2,500	-	Port Orford, or Brookings within 24 hours of closure. Chinook 26 inch
Sept. 1-30 (season total of 198 days)		3,000	-	minimum size limit prior to Sept. 1 and 28 inches in September.
Twin Rocks (42°05'36" N) to Oregon/California border (off Chetco R.) Oct. 13-Nov. 3 (22 days)	Chinook only	1,000	-	Open 0-3 nautical miles. Landings restricted to the Port of Brookings. Daily landing limit of 25 chinook.
Oregon/California border to Humboldt south jetty, California Sept. 1-30 (30 days)	All except coho	10,000	-	Landing limit of 40 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 May 1-31 (31 days)	All except coho	None	-	
July 3-14 (12 days)	All except coho	None	-	Possession and landing limit of 150 fish per day per vessel and all fish must be landed within the area and within 24 hours of closure.
July 18-Sept. 30 (75 days)	All except coho	None	-	

TABLE I-1. Summary of actual ocean **non-Indian commercial troll** salmon fishing regulations for 2003. (Page 14 of 2)

Area and Season	Salmon Species	Actual Quota (Guideline*)		Special Restrictions <sup>a/</sup>
		Chinook	Coho	
Pt. Arena to U.S./Mexico Border May 1-Sept. 30 (153 days)	All except coho	None	-	-
Pt. Reyes to Pt. San Pedro Oct 1-3; Oct 6-10; Oct 13-17 (13 days)	All except coho	None	-	-

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/ The 32,400 quota includes the preseason quota of 24,400 plus 3,000 remaining from the May/June opening and 5,000 chinook transferred from the recreational guideline for the Cape Falcon to Leadbetter Point area.

TABLE I-2. Summary of actual **treaty Indian commercial ocean and Area 4B troll** salmon seasons for 2003. (Page 1 of 1)

Tribe and Area	Salmon Species	Seasons <sup>a/</sup>			Minimum Size Limit (Inches)	
		Dates	Days	Chinook	Coho	
<b>Quinault</b>						
Areas 2 and 3	Chinook Only	May 1-June 30	61	24	-	
	All	Jul. 1- Sept. 15	77	24	16	
<b>Hoh</b>						
Area 2-3	Chinook Only	May 1-June 30	61	24	-	
	All	Jul. 1-Sept. 15	77	24	16	
<b>Quileute</b>						
Area 3	Chinook Only	May 1-June 30	61	24	-	
	All	Jul. 1-Sept. 15, Sept. 16-Oct. 15	107	24	16	
<b>Makah</b>						
Areas 3N, 4, and 4A	Chinook Only	May 1-June 30	61	24	-	
	All	Jul. 1- Sept. 15	77	24	16	
Area 4B	Chinook Only	Jan. 1-Apr. 15; May 1-June 30; Sept. 16-Dec. 31	273	24 <sup>b/</sup>	-	
	All	Jul. 1-Sept. 15	77	24	16	
<b>S'Klallam</b>						
Area 4B	Chinook Only	May 1-June 30	61	24	-	
	All <sup>c/</sup>	Jan. 1-Apr. 15, Jul. 1-Dec. 31	289	24 <sup>b/</sup>	16	

a/ The overall quotas for these fisheries during the May 1-Sept. 15 ocean salmon management period were 60,000 chinook and 90,000 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 to provide 30,000 chinook for the May 1-Jun. 30 chinook-directed season and 30,000 chinook for the Jul.-Sept. all-salmon season. Transfer of any unused chinook quota from the May-June season to the Jul.-Sept. season was not allowed. 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 2003. (Page 1 of 2)

Area and Season	Salmon Species	Actual Quota (*Guideline)		Daily Limit and Special Restrictions <sup>a/</sup>
		Chinook	Coho	
U.S./Canada Border to Cape Alava, Washington (Neah Bay subarea) 7 days per week June 22-Sept. 14 (85 days)	All Salmon		23,400	2 salmon daily plus one additional pink salmon, only one of which may be a chinook; all retained coho must have a healed adipose fin clip.
Cape Alava to Queets River, Washington (LaPush subarea) 7 days per week June 22-Sept. 14 (85 days)	All salmon	The chinook quota for all subareas between the U.S./Canada border and Cape Falcon, Oregon combined was 54,600 <sup>b/</sup>	5,750	2 salmon daily plus one additional pink salmon, only one of which may be a chinook; all retained coho must have a healed adipose fin clip.
Teahwhit Head to "Q" buoy to Cake Rock east to the shoreline Sept. 20-Oct. 56 (16 days)	All Salmon		100	2 salmon daily plus one additional pink salmon, 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 14 -July 24 7 days per week July 25-Sept. 14 (Season total of 77 days)	All salmon		83,250	2 salmon daily, only one of which may be a chinook; all retained coho must have a healed adipose fin clip. Grays Harbor Control Zone closed beginning August 16.
Leadbetter Pt. to Cape Falcon, Oregon (Columbia River subarea) Sun.-Thurs.: June 14 -July 24 7 days per week July 25 -Sep. 30 (Season Total of 93 days)	All salmon		112,500	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 beginning Aug. 1. Columbia Control Zone closed.
Cape Falcon to Humbug Mt., Oregon (except as listed for Twin Rocks to Pyramid Rock subarea below) Mar. 15-June 20; Aug.20-Oct. 31 (171 days) June 21-Aug. 19 (60 days)	All except coho All salmon	None None	- 88,000	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 20 (98 days)	Chinook only	None	-	Barbed hooks allowed; 2 adult and 5 jack salmon daily.
Aug. 20-Nov. 15 (88 days)	Chinook only	None	-	Barbed hooks allowed; 2 adult and 5 jack salmon daily; no more than 4 adults in 7 consecutive days.
June 21-Aug. 19 (60 days)	All salmon	None	-	Barbless hooks required; 2 salmon daily, all retained coho must have a healed adipose fin clip.
Cape Blanco to Humbug Mt., Oregon (off Elk River inside 3 nm) Nov. 1-Dec. 15 (45 days)	Chinook only	None	-	2 salmon daily.

TABLE I-3. Summary of actual ocean **recreational** salmon fishing regulations for 2003. (Page 2 of 2)

Area and Season	Salmon Species	Actual Quota (*Guideline)		Daily Limit and Special Restrictions <sup>a/</sup>
		Chinook	Coho	
Humbug Mt., Oregon to Horse Mt., California May 17-Sept. 14 (121 days)	All except coho	None	-	2 salmon daily. Klamath Control Zone closed. Special gear restriction. <sup>c/</sup>
Twin Rocks, Oregon (42°05'36" N latitude) 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. 15-Nov. 16 (275 days)	All except coho	None	-	2 salmon daily. Minimum size 24 in. prior to May 1. Special gear restrictions. <sup>c/d/</sup>
Pt. Arena to Pigeon Pt. Apr. 12-Nov. 9 (212 days)	All except coho	None	-	2 salmon daily. Minimum size 24 in. prior to May 1. Special gear restrictions. <sup>c/h/</sup>
Pigeon Pt. to U.S./Mexico Border Mar. 29-Sept. 28 (184 days)	All except coho	None	-	2 salmon daily. Minimum size 24 in. prior to May 1. Special gear restrictions. <sup>c/h/</sup>

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/ 54,600 quota includes 59,600 preseason quota minus 5,000 traded to the north of Cape Falcon non-Indian commercial troll fishery.

c/ 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.

d/ 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
		Thousands of Fish	Chinook	Coho	Pink	Chinook	Coho		Pink	Chinook	Coho	Pink	
<b>WASHINGTON<sup>a/</sup></b>													
1966-70	NA	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	205.8	753.1	171.1	2,363.8	3,674.8	788.8	429.8	114.1	511.8	9.5	635.5	1.5
1981-85 <sup>b/</sup>	13.4	72.6	226.9	90.4	776.4	1,059.2	357.7	163.3	54.7	172.4	3.6	230.6	1.4
1986-90	8.1	73.2	139.5	13.5	719.1	610.1	48.6	119.4	26.1	165.1	0.8	191.9	1.6
1991	7.6	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	6.4	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	6.7	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	0.3	5.2	-	0.0	52.8	-	0.0	-	-	-	-	-	-
1995	1.2	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	1.0	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	21.8	15.7	1.8	80.9	94.0	--	29.7	4.0	26.8	1.4	32.1	1.1
1998	0.3	20.3	7.9	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	37.3	1.6	417.8	137.9	5.2	50.8	9.9	40.1	2.2	52.2	1.0
2000	0.7	17.9	27.4	0.0	191.2	141.0	0.0	48.9	8.5	68.2	0.0	76.7	1.6
2001	1.1	49.3	65.6	1.0	518.0	375.6	9.6	126.6	23.0	168.3	3.9	195.2	1.5
2002	1.3	92.9	17.7	0.0	1,134.6	101.0	0.0	95.2	57.8	74.1	0.0	131.9	1.4
2003 <sup>c/</sup>	2.0	90.9	19.9	0.5	1,257.8	116.3	2.0	119.2	34.2	139.1	13.4	186.7	1.6

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
		Thousands of Fish	Chinook	Coho	Pink	Chinook	Coho		Pink	Chinook	Coho	Pink	
<b>OREGON<sup>d/</sup></b>													
1966-70	NA	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	320.8	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	241.1	35.8	220.0	0.5	256.3	1.1
1991	14.9	74.8	306.9	1.8	694.7	1,411.0	7.6	190.1	14.4	259.1	0.3	273.8	1.4
1992	9.2	110.5	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	214.8	-	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	149.7	-	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	63.5	0.2	0.1	720.6	-	0.2	49.4	7.7	13.6	0.0	21.4	0.4
2000	7.5	136.4	12.0	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 <sup>d/</sup>	12.4	327.9	6.4	0.0	3,621.7	42.7	0.2	144.5	40.7	113.7	0.0	154.3	1.1

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
		Thousands of Fish	Chinook	Coho	Pink	Chinook	Coho		Pink	Chinook	Coho	Pink	
<b>CALIFORNIA</b>													
1966-70	NA	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	193.0	-	0.0	2,408.3	-	0.0	165.1	98.8	1.3	0.0	100.1	0.6
2002	17.3	391.7	-	0.0	5,007.5	-	0.0	210.1	182.0	0.8	0.0	182.8	0.9
2003 <sup>d</sup>	15.6	488.8	-	0.0	6,356.3	-	0.0	132.3	93.1	0.6	0.0	93.7	0.7

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
		Thousands of Fish	Chinook	Coho	Pink	Chinook	Coho		Pink	Chinook	Coho	Pink	
<b>COUNCIL AREA<sup>a/b/d/</sup></b>													
1966-70	--	780.8	1,841.4	--	7,893.1	12,266.9	--	--	--	--	--	--	--
1971-75	--	1,046.6	2,211.1	--	10,796.4	13,027.5	--	--	--	--	--	--	--
1976-80	182.9	1,058.6	1,793.1	292.0	10,637.2	9,110.3	--	981.0	246.5	832.2	9.6	1,088.2	1.1
1981-85	99.2	685.9	606.4	113.9	6,661.6	2,940.9	488.5	544.1	196.6	357.6	5.2	559.4	1.0
1986-90	104.9	1,265.5	585.4	18.1	12,547.4	2,829.4	71.2	601.8	228.4	425.4	1.2	655.1	1.1
1991	57.8	420.6	525.4	49.9	4,415.5	2,504.5	168.2	513.8	107.9	536.1	2.5	646.5	1.3
1992	35.9	340.7	145.9	0.0	3,322.5	552.7	0.0	402.1	104.6	320.9	0.0	425.5	1.1
1993	42.1	416.9	74.8	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	34.9	905.4	56.2	41.8	8,659.2	254.8	137.1	469.1	404.4	81.1	2.9	488.3	1.0
1996	30.6	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	659.2	15.7	1.9	6,868.6	94.0	--	294.1	240.6	33.2	1.4	275.3	0.9
1998	22.0	372.5	7.9	0.0	3,472.5	43.0	0.0	197.4	128.3	23.1	0.0	151.4	0.8
1999	22.7	399.4	37.4	1.7	4,984.1	137.9	5.4	247.3	105.4	54.4	2.2	162.0	0.7
2000	28.3	633.4	39.4	0.0	6,802.8	212.4	0.0	341.9	219.9	101.8	0.0	321.7	0.9
2001	26.2	519.0	75.0	1.3	5,825.4	428.0	10.8	412.2	149.0	263.9	3.9	416.8	1.0
2002	30.6	803.9	19.2	0.0	9,630.8	111.7	0.0	412.9	287.3	111.4	0.0	398.7	1.0
2003 <sup>d/</sup>	30.0	907.6	25.9	0.5	11,235.8	159.0	2.2	396.0	168.0	253.4	13.4	434.7	3.4

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; and (3) catch off Alaska landed in Washington. 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 outside the Council management area (i.e., Alaska) prior to 1990. Oregon recreational effort data are total angler trips prior to 1979 and salmon trips beginning in 1979. Significantly reduced salmon per angler trip beginning in 1994 reflects regulations requiring nonretention of coho in the recreational fishery south of Cape Falcon.

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				total	Salmon Per Angler Trip
	Effort (thousands of boat days fished)	Catch (thousands of fish)			Effort (thousands of salmon angler trips)	Catch (thousands of fish)				
		Chinook	Coho	Pink		Chinook	Coho	Pink		
<b>----- U.S./CANADA BORDER TO CAPE FALCON -----</b>										
<b>Treaty Indian (U.S./Canada Border to Leadbetter Point):<sup>a/</sup></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 <sup>b/</sup>	0.330	34.674	10.912	0.243	-	-	-	-	-	-
<b>Non-Indian:</b>										
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 <sup>b/</sup>	2.212	69.775	15.668	0.258	144.093	36.536	168.846	13.400	218.782	1.518
<b>----- CAPE FALCON TO HUMBURG MOUNTAIN -----</b>										
1997	7.428	145.929	-	0.048	9.962	2.408	0.038	0.000	2.446	0.246
1998	6.960	123.468	-	0.001	9.743	2.019	0.093	0.000	2.112	0.217
1999	4.826	60.987	-	0.055	26.217	3.340	6.046	0.000	9.386	0.358
2000	6.927	130.164	-	0.003	48.111	12.878	19.401	0.000	32.279	0.671
2001	10.424	266.981	-	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 <sup>b/</sup>	11.442	312.408	-	0.023	110.403	32.858	83.843	0.000	116.701	1.057
<b>----- HUMBURG MOUNTAIN TO HORSE MOUNTAIN TO (KMZ) -----</b>										
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	0.794	9.123	-	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 <sup>b/</sup>	0.664	9.289	-	0.000	30.561	14.203	0.189	0.000	14.392	0.471
<b>----- HORSE MOUNTAIN TO U.S./MEXICO BORDER -----</b>										
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	13.610	187.521	-	0.007	140.442	85.959	1.143	0.000	87.102	0.620
2002	16.715	378.188	-	0.000	188.509	165.913	0.533	0.000	166.446	0.883
2003 <sup>b/</sup>	15.463	484.615	-	0.000	116.548	84.327	0.449	0.000	84.776	0.727

a/ May through September.

b/ Preliminary.

TABLE I-6. **Coho and chinook harvest quotas** and guidelines (\*) for 2003 compared with actual harvest by management area and fishery. (Page 1 of 1)

Fishery Governed by Quota	Chinook			Coho		
	Quota or Guideline <sup>a/</sup>	Catch	Catch/ Quota	Quota	Catch	Catch/ Quota
<b>NORTH OF CAPE FALCON</b>						
TREATY INDIAN COMMERCIAL TROLL	60.0	34.8	0.6	90.0	10.9	0.1
NON-INDIAN COMMERCIAL TROLL						
Canada to Cape Falcon (May-June)	40.0	36.4	0.9	-	-	-
Canada to Cape Falcon (July-Sept.)	29.4	33.4	1.1	75.0	15.7	0.2
Subtotal Non-Indian Commercial Troll	69.4	69.8	1.0	75.0	15.7	0.2
RECREATIONAL (selective coho fisheries)						
U.S./Canada Border to Cape Alava	3.9	4.7	1.2	23.4	19.7	0.8
Cape Alava to Queets River	2.3	1.9	0.8	5.7	3.4	0.6
Queets River to Leadbetter Pt.	40.6	21.8	0.5	83.3	39.3	0.5
Leadbetter Pt. to Cape Falcon	12.7	8.1	0.6	112.5	106.4	0.9
Subtotal Recreational	59.5	36.5	0.6	224.9	168.8	0.8
<b>TOTAL NORTH OF CAPE FALCON</b>	<b>188.9</b>	<b>141.1</b>	<b>0.7</b>	<b>389.9</b>	<b>195.4</b>	<b>0.5</b>
<b>SOUTH OF CAPE FALCON</b>						
COMMERCIAL TROLL (all except coho)						
Humbug Mt. to Oregon/California border (June-Sept.)	9.2	3.8	0.4			
Oregon/California Border to Humboldt S. Jetty (Sept.)	10.0	2.2	0.2			
Subtotal Troll	19.2	6.0	0.3	-	-	-
RECREATIONAL						
Cape Falcon to Humbug Mt.	-	-	-	88.0	83.8	1.0
<b>TOTAL SOUTH OF CAPE FALCON</b>	<b>19.2</b>	<b>6.0</b>	<b>0.3</b>	<b>88.0</b>	<b>83.8</b>	<b>1.0</b>

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

## REGULATORY OBJECTIVES BY MANAGEMENT AREA

The sections below provide a brief outline of the regulatory objectives that shaped the 2003 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

Fisheries management in this area is guided by conservation objectives for Klamath River and Sacramento River fall chinook, Oregon Coast coho, and by National Marine Fisheries Service (NMFS) Endangered Species Act (ESA) consultation standards for California Coastal chinook, Sacramento River winter chinook, and Southern Oregon / Northern California Coastal coho.

#### Chinook Fisheries

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 Sacramento River winter chinook NMFS ESA consultation standard requirement that the duration and timing of the 2003 commercial and recreational fisheries south of Point Arena not change substantially relative to the 2000 and 2001 seasons.
2. The California Coastal chinook NMFS ESA consultation standard requirement of no greater than a 16% age-four ocean harvest rate on Klamath River fall chinook.
3. 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.
4. The Oregon Coast Natural (OCN) coho maximum allowable exploitation rate (marine and freshwater combined) of 15% under Amendment 13 of the Salmon Fishery Management Plan (FMP), and the exploitation rate matrix recommended by the Oregon Coast Natural (OCN) Coho Work Group, which was adopted by the Council as expert biological advice.
5. The Southern Oregon/Northern California Coastal (SONCC) coho NMFS 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 range of 122,000 to 180,000 hatchery and natural adults.

Objectives 1, 2, and 3 listed above were the constraining factors for 2003 chinook fisheries management in this area. Under the adopted regulations, total harvest south of Horse Mountain was projected to be 613,300 chinook, the coastwide ocean harvest rate on age-four Klamath River fall chinook was projected to be 16.0% (for fisheries from September 1, 2002 through August 31, 2003), 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 standard for Central California Coast coho (CCC) coho, which has prohibited retention of coho in this area. 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 2.9% and 4.8%, respectively. Coho are managed as a unit south of Cape Falcon, and details of the Council's management objectives shaping the 2003 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). Fisheries 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, and Oregon Coast and Southern Oregon/Northern California Coastal coho.

## **Chinook Fisheries**

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 California Coastal chinook NMFS ESA consultation standard requirement of no greater than a 16% age-four ocean harvest rate on Klamath River fall chinook.
2. 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.
3. The Oregon Coast Natural (OCN) coho maximum allowable exploitation rate (marine and freshwater combined) of 15% under Amendment 13 of the Salmon Fishery Management Plan (FMP), and the exploitation rate matrix recommended by the Oregon Coastal Natural (OCN) Coho Work Group, which was adopted by the Council as expert biological advice.
4. The Southern Oregon/Northern California Coastal coho ESA consultation standard requirement of no greater than a 13% marine exploitation rate on Rogue/Klamath (RK) hatchery coho.

Objectives 1 and 2 listed above were the constraining factors on 2003 chinook fisheries management in the KMZ. Under the adopted regulations, total harvest in the KMZ was projected to be 59,200 chinook, the coastwide ocean harvest rate on age-four Klamath River fall chinook was projected to be 16.0% (for fisheries from September 1, 2002 through August 31, 2003), 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 in this area. 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 1.8% and 4.1%, respectively. Retention of coho has been prohibited in this area since 1994. Coho

are managed as a unit south of Cape Falcon, and details of the Council's management objectives shaping the 2003 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 California coastal chinook NMFS ESA consultation standard of no greater than a 16% age-four ocean harvest rate on Klamath River fall chinook.
2. The Oregon Coast Natural (OCN) coho maximum allowable exploitation rate (marine and freshwater combined) of 15% under Amendment 13 of the Salmon Fishery Management Plan (FMP), and the exploitation rate matrix recommended by the Oregon Coastal Natural (OCN) Coho Work Group, which was adopted by the Council as expert biological advice.
3. 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.
4. The index escapement goal range for Oregon coastal chinook of 150,000 to 200,000 adult chinook.

Given the adopted regulations, the STT projected a total harvest of 148,300 chinook in this area, a coastwide ocean fishery exploitation rate of 16.0% on age-four Klamath River fall chinook (for fisheries from September 1, 2002 through August 31, 2003), and sufficient escapement to meet the escapement goal for Oregon coastal chinook. Nonretention mortality on coho resulting from commercial chinook fisheries in this area was projected to be equivalent to exploitation rates of 1.5% for OCN coho and 0.1% for RK coho.

### **Coho Fisheries**

The Council structured 2003 coho salmon fisheries between Cape Falcon and Humbug Mountain 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 14.4%.
2. A coastwide marine exploitation rate for RK coho of 9.6%.

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.

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 0.2% for RK hatchery coho and 3.9% 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 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. A 49% total (ocean and inriver) exploitation rate on the naturally spawning tule portion of the threatened lower Columbia River chinook evolutionarily significant unit (ESU) (NMFS ESA consultation standard).
2. At least a 30% reduction in the total ocean age 3 and 4 adult equivalent (AEQ) exploitation rate from the 1988-1993 average on threatened Snake River Fall chinook.
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 64,400 chinook for commercial non-Indian troll, 60,000 chinook for commercial treaty Indian troll, and 59,600 chinook for 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, 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 Oregon Coast Natural (OCN) coho maximum allowable exploitation rate (marine and freshwater combined) is 15% under Amendment 13 of the Salmon Fishery Management Plan (FMP), as well as the exploitation rate matrix recommended by the Oregon Coastal Natural (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 fishery management plan (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 225,000 coho, with the requirement that all retained coho must have be marked with healed adipose fin clip (marked). The Council adopted commercial harvest quotas of 75,000 marked coho for the non-Indian commercial troll mark-selective fishery and 90,000 coho for the non-mark-selective treaty Indian troll fishery. The total allowable harvest by the non-Indian commercial and recreational fisheries for coho in 2003 was 300,000, compared to 140,000 in 2002.

## 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 coast-wide are based on pre-season 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, but incidental mortality resulting from the non-retention recreational fisheries is not.

### Selective Coho Fisheries

Recreational fisheries selective for marked coho were planned for the area between Cape Falcon and Humbug Mt., 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). Pre-season and in-season 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 2003, 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 5 through August 3. 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 5 through August 3, follow.

Areas 5 Preliminary Recreational Salmon Catch Estimate, 2003

Fishery	Boats	Anglers	Catch			Total	Release		
			Chinook	Coho	Pink		Chinook	Coho	Pink
Area 5: 7/1-9/30	26,193	65,177	3,052	38,673	46,779	145,610	18,461	101,706	24,235

Areas 5 and 6 Preliminary Recreational Salmon Catch Estimate during the Chinook Selective Fishery July 5 - August 3, 2003.

Fishery	Boats	Anglers	Catch			Total	Release		
			Chinook	Coho	Pink		Chinook	Coho	Pink
Area 5: 7/5-8/3	8,026	19,444	2,623	5,230	5,210	39,729	13,466	22,310	3,209
Area 6: 7/5-8/3	2,646	5,174	962	105	440	2,383	1,707	455	183
Total	10,672	24,618	3,586	5,335	5,650	42,112	15,173	22,765	3,391

TABLE I-7. Estimated **incidental mortality of chinook and coho** in 2003 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	2003 Catch Projection	2003 Bycatch Mortality <sup>a/</sup> Projection	Observed in 2003	
			Catch	Bycatch Mortality
<b>OCEAN FISHERIES:<sup>b/</sup></b>				
<b>CHINOOK (thousands of fish)</b>				
NORTH OF CAPE FALCON				
Treaty Commercial Troll	60.0	8.9	34.7	5.1
Non-Indian Commercial Troll	64.4	24.5	69.8	26.6
Recreational	59.6	10.6	36.5	6.5
CAPE FALCON TO HUMBUG MT.				
Commercial Troll	120.7	14.7	312.4	38.0
Recreational	27.6	2.8	32.9	3.3
HUMBUG MT. TO HORSE MT.				
Commercial Troll	21.1	2.1	9.3	0.8
Recreational	38.1	3.8	14.2	1.6
SOUTH OF HORSE MT.				
Commercial	460.1	46.0	484.6	43.6
Recreational	153.2	15.3	84.3	9.3
TOTAL OCEAN FISHERIES				
Commercial Troll	726.3	96.2	910.8	114.1
Recreational	278.5	32.5	167.9	20.7
<b>INSIDE FISHERIES:</b>				
Buoy 10	21.2	NA	19.4	N/A
<b>OCEAN FISHERIES:</b>				
<b>COHO (thousands of fish)</b>				
NORTH OF CAPE FALCON				
Treaty Commercial Troll	90.0	5.3	11.0	0.6
Non-Indian Commercial Troll <sup>c/</sup>	75.0	26.6	15.7	5.6
Recreational <sup>c/</sup>	225.0	31.4	186.8	23.6
SOUTH OF CAPE FALCON				
Commercial Troll	0.0	16.7	-	43.2
Recreational <sup>c/</sup>	88.0	22.7	83.8	21.6
TOTAL OCEAN FISHERIES				
Commercial Troll	165.0	48.6	26.7	49.4
Recreational	313.0	54.1	270.6	45.2
<b>INSIDE FISHERIES:</b>				
Area 4B	-	-	-	-
Buoy 10 <sup>c/</sup>	35.0	4.0	54.3	6.2

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, and the HRMs of 42.2% and 14% for these two respective gear types).

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

c/ Coho retention limited to fish with a healed adipose fin clip.

TABLE I-8. Summary of 2003 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 <sup>a/</sup>	Landed Coho Catch			Unmarked Coho Released <sup>b/</sup>	Estimated Nonretention Mortality <sup>a/</sup>	Effort <sup>c/</sup>
					Total	Marked	Unmarked			
<b>Recreational</b>										
Ocean Fisheries										
Neah Bay	51%	39%	23,400	5,900	19,749	19,258	491	9,630	6,686	20,449
La Push	59%	31%	5,750	2,219	3,407	372	35	470	1,590	4,369
Westport	74%	53%	83,250	6,639	39,267	8,948	319	4,220	8,465	48,049
Columbia River	85%	57%	112,500	4,099	106,423	5,743	680	9,091	20,348	71,226
Cape Falcon to Humbug Mt.	72%	44%	88,000	6,061	83,831	83,255	576	16,460	26,319	90,191
Inside Fisheries										
Strait of Juan de Fuca <sup>d/</sup>	40%	27%	36,793 <sup>d/</sup>	7,270	38,673	37,745	928	1,706	12,205	5,177
Buoy 10	81%	61%	35,000 <sup>d/</sup>	1,956	54,301	53,736	565	3,791	9,135	611
Commercial										
Neah Bay	47%	NA	-	-	NA	A	NA	NA	NA	NA
La Push	53%	NA	-	-	NA	A	NA	NA	NA	NA
Westport	65%	NA	-	-	NA	A	NA	NA	NA	NA
Columbia River	77%	NA	-	-	NA	A	NA	NA	NA	NA
Commercial Total	NA	48%	75,000	19,552	15,668	15,668	0	16,974	6,045	1,685

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 U.S. 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 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), or 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 originating in 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 U.S. and Canada reached agreement on a framework for chinook fishing regimes for 1999 through 2008. Under this agreement, Southeast Alaskan (all gear), Northern British Columbia (troll and recreational), and WCVI (troll and outside recreational) fisheries are to be regulated under aggregate abundance-based management (AABM) regimes. These fishery regimes establish catch ceilings that are derived from estimates of indices for total aggregate abundance of all stocks contributing to specific components of the fisheries and target fishery harvest rates. For example, the regime for WCVI troll and outside sport fisheries is determined by the abundance index estimated for the WCVI troll fishery; the allowable catch for the WCVI AABM fisheries was designed to reduce harvest rate for the combined troll and outside sport fisheries by approximately 35% from levels observed during 1985 through 1996. The U.S. and Canada are exploring the development of 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 by 36.5% for Canadian fisheries and 40% for U.S. 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 2003, AABM fisheries were conducted in accordance with the obligations set forth in the June 1999 PST agreement. Southeast Alaska (SEAK) fisheries were constrained by an all gear catch ceiling of 366,100 "treaty" chinook in 2003. "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 2003 total catch of chinook by Southeast Alaska fisheries was 443,100, while the catch of "treaty" chinook was 383,500.

The allowable 2003 catch for the North Coast British Columbia AABM fisheries (Northern B.C. troll plus Queen Charlotte Islands sport) was 197,100 chinook. The estimated actual catch was 191,400 (137,100 troll plus 54,300 sport).

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

Year	Total Catches			Treaty Chinook			Additional Catch	
	Troll	Net	Sport	Troll	Net	Sport	Terminal Exclusion <sup>a/</sup>	Hatchery Add-On <sup>b/</sup>
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 <sup>c/</sup>	330.7	39.4	73.0	307.3	23.3	52.9	2.3	57.2

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	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 <sup>a/</sup>	North	South	Troll	Net	Sport
	<b>CHINOOK</b>															
1985	186.7	70.7	28.8	27.3	9.9	74.3	279.8	22.0	10.2	55.7	51.0	127.8	79.2	0.0	44.6	27.8
1986	153.0	42.7	52.6	55.3	12.6	81.0	261.1	5.9	4.1	43.9	26.2	100.4	47.1	0.3	59.9	34.4
1987	177.5	41.2	64.0	21.4	13.8	113.1	265.8	0.6	26.5	38.7	21.1	52.7	43.5	0.0	11.3	24.9
1988	152.4	40.4	31.1	21.8	19.3	171.3	237.4	16.5	24.3	19.6	12.1	56.5	31.4	0.0	11.8	31.2
1989	207.7	48.9	19.1	7.5	35.7	71.5	132.2	40.8	38.0	28.5	36.6	72.1	28.2	0.0	32.0	32.5
1990	154.1	39.0	27.3	30.3	32.0	114.8	183.1	29.6	50.2	34.4	23.7	58.6	23.2	0.0	12.8	30.1
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 <sup>b/</sup>	137.1	10.2	0.7	2.7	54.3	58.0	93.8	9.0	24.0	0.0	6.1	14.0	6.2	0.0	0.0	27.1
<b>COHO</b>																
1985	527.8	176.4	135.2	96.9	18.0	377.0	1,012.0	7.5	1.6	191.2	179.0	569.7	133.2	0.3	224.7	25.3
1986	1,089.5	212.6	593.4	277.5	20.2	610.5	1,546.3	10.6	1.1	181.4	144.6	442.4	94.8	2.9	202.5	34.7
1987	595.7	100.3	214.5	93.3	24.4	525.1	1,295.9	7.2	24.6	217.5	74.8	472.1	107.9	0.2	216.4	61.6
1988	348.0	61.7	183.9	107.8	23.1	555.9	1,039.9	11.0	5.3	256.5	90.7	824.3	184.6	0.2	56.7	75.9
1989	573.4	161.4	123.2	28.9	26.3	578.8	1,373.2	39.7	44.5	73.3	121.4	332.6	75.1	0.1	342.1	89.4
1990	974.8	163.7	261.2	153.5	46.0	729.5	1,134.1	2.7	19.8	163.2	114.7	493.1	67.5	0.1	154.1	69.4
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 <sup>b/</sup>	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

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

b/ Preliminary

Canada's principal management objective for the 2003 WCVI chinook troll fishery was to address concerns for Fraser spring chinook, interior B.C. coho (Upper Fraser and Thompson), and WCVI chinook stocks. The chinook fishery was closed from early March to late April to protect Fraser spring chinook. 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 late June through late September. The accounting period for the 2003 WCVI fishery was October 1, 2002 through September 30, 2003. There were nine troll openings in the 2003 fishery, all operating under a 55 cm minimum size limit. Total troll harvest was 151,800 chinook. The majority of the catch (136,300) occurred from April 17 through June 5, slightly above the level observed during the same period in 2002. The WCVI outside (the area where non-local stocks predominate) sport fishery operated under a 45 cm minimum size limit and harvested 24,000 chinook, approximately 26% below the level observed in 2002. The total of approximately 175,800 chinook taken by 2003 WCVI AABM fisheries was below the allowable catch ceiling of 181,825 established under the 1999 PST agreement.

Canadian southern ISBM fisheries including southern B.C. commercial troll and net fisheries harvested a total of 16,700 chinook in 2003. ISBM sport fisheries harvested 117,500 chinook (WCVI "inside" 51,600; Juan de Fuca Strait 26,600; Strait of Georgia 20,200; Johnstone Strait 7,700).

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.

### **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 that 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 2003, 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. Only terminal areas along WCVI were permitted to retain unmarked coho. 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. Estimated coho encounters in commercial fisheries in Southern B.C. where retention of unmarked coho was prohibited were 8,980 seine; 4,988 gillnet; and 15,808 troll.

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 from July 1

through December 31). The estimated catch of coho in Southern British Columbia recreational fisheries in 2003 is summarized in the following table.

	Marked Retained	Marked Released	Unmarked Retained	Unmarked Released (estimated mortality)
Total	44,987	6,512	33,675	87,677 (8,770)

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## **CHAPTER II**

# **CHINOOK SALMON MANAGEMENT**

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### **CENTRAL VALLEY CHINOOK STOCKS**

Central Valley chinook salmon 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 2003 fisheries: (1) for fall chinook in the Sacramento River system, a spawner escapement goal of 122,000 to 180,000 hatchery and natural adults combined; and (2) for listed Sacramento River winter and Central Valley spring chinook, the NMFS 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 2003, no specific restrictions were required for ocean salmon fisheries to meet the conservation objective for Sacramento River fall chinook. Under the 2003 regulations, the projected escapement to the Sacramento River was 517,000 fall chinook adults, exceeding the upper end of the conservation objective range.

To meet the Sacramento River winter and Central Valley spring chinook NMFS 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 12, and between Pigeon Point and the U.S.-Mexico border until March 29; 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 2003 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 the recreational catch averaged 25% of the river run, as did an additional survey conducted from 1998 through 2000. The Sacramento River was closed to the retention of salmon from January 1 to July 15, 2003, for the protection of winter chinook. In response to the low escapements of recent years, the San Joaquin River and its tributaries (Stanislaus, Toulumne, and Merced) were closed to recreational salmon fishing in 2003.

## **Escapement and Management Performance**

### **Sacramento River Fall Chinook**

In 2003, a total of 519,600 natural and hatchery fall chinook adults were estimated to have returned to the Sacramento River basin for spawning, which nearly matched the preseason expectation of 517,000 adults and exceeded the Council's conservation objective of 122,000 to 180,000 adult spawners. Fall chinook returns to Sacramento River hatcheries totaled 108,500 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. All numbers provided in Tables B-1 and B-2 were reviewed and updated by CDFG in 2003 to reflect CDFG final project reports.

### **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. All numbers provided in Table B-3 were reviewed and updated by CDFG in 2003 to reflect CDFG final project reports on the subject.

Spawner escapement of endangered winter chinook salmon in 2003 was estimated to be approximately 6,200 adults, 10.3 times the 600 adult escapement observed three years earlier based on expanded Red Bluff Diversion Dam (RBDD) counts. 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 has in most cases yielded higher estimates of spawning escapement than the expansion of RBDD 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 2003 were incurred primarily during the 2002 season and in the early 2003 recreational season south of Point Arena California.

Returns of spring chinook to the Sacramento River totaled approximately 30,500 fish (jacks and adults), of which approximately 21,800 fish returned to the upper river (above the mouth of the Feather River). The 2003 return could not be partitioned into adults and jacks due to a lack of age composition data.

### **San Joaquin River Fall Chinook**

San Joaquin River spawning areas are used primarily by fall chinook. The estimated San Joaquin River fall chinook spawning escapement in 2003 totaled 16,700 jacks and adults in natural areas and 8,700 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 <sup>a/</sup>			Lower River			Total		Grand Total
	Hatchery	Natural <sup>b/</sup>	Subtotal	Hatchery	Natural <sup>b/</sup>	Subtotal	Hatchery	Natural <sup>b/</sup>	
1970	3.0	59.0	62.0	10.3	82.7	93.0	13.3	141.7	155.0
1971	1.7	62.7	64.4	11.0	74.6	85.6	12.7	137.3	150.0
1972	1.3	35.4	36.7	6.8	47.6	54.4	8.0	83.1	91.1
1973	1.7	46.7	48.3	18.0	151.4	169.4	19.7	198.1	217.8
1974	2.0	63.4	65.3	11.8	121.9	133.7	13.8	185.3	199.1
1975	3.3	70.8	74.1	10.8	68.6	79.3	14.1	139.4	153.5
1976	3.0	76.8	79.8	8.6	76.0	84.6	11.6	152.8	164.4
1977	6.1	58.1	64.2	14.9	82.1	97.0	21.0	140.2	161.2
1978	2.7	65.3	68.1	9.9	47.3	57.2	12.7	112.6	125.3
1979	6.4	81.3	87.7	9.4	72.3	81.7	15.8	153.6	169.4
1980	10.3	45.4	55.6	14.6	71.6	86.3	24.9	117.0	141.9
1981	5.9	50.0	55.9	25.0	92.1	117.2	30.9	142.2	173.1
1982	17.1	39.5	56.6	14.5	92.6	107.1	31.7	132.1	163.8
1983	6.1	42.0	48.1	12.5	48.8	61.3	18.6	90.8	109.4
1984	19.6	51.7	71.3	19.1	67.7 <sup>c/</sup>	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	197.9	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	55.3	62.4	17.6	55.4	73.0	24.6	110.7	135.4
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 <sup>d/</sup>	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	263.6 <sup>d/</sup>	286.7	17.3	82.7	100.0	40.5	346.3	386.8
2000	20.8	153.6	174.4	31.3	208.0	239.3	52.1	361.6	413.8
2001	23.7	130.4	154.1	33.5	357.3	390.8	57.2	487.7	544.9
2002	62.2	481.9 <sup>e/</sup>	544.1	23.7	207.9	231.6	85.9	689.8	775.7
2003 <sup>f/</sup>	83.0	162.9	245.9	25.5	248.2	273.7	108.5	411.1	519.6

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.

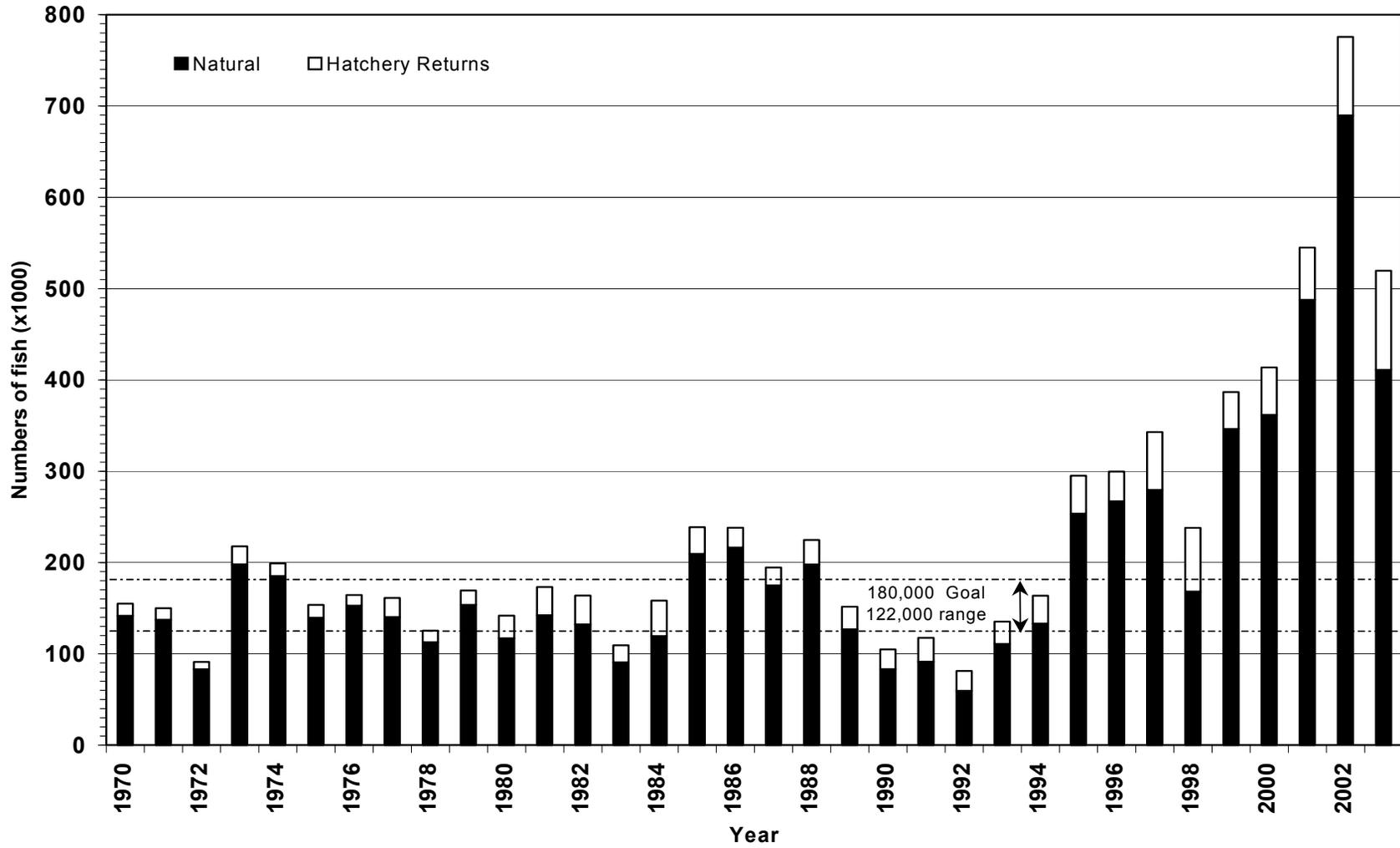


Figure II-1. Sacramento River adult fall chinook spawning escapements, 1970-2003.

## 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 2003 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, 2002, through August 31, 2003); (2) a Klamath River run target of 113,200 fall chinook adults resulting in a spawner escapement of 35,000 fish in natural areas, taking into account a projected inriver harvest impact of 52,200 adults and returns to basin hatcheries; (3) 50% (41,400) of the allowable adult harvest for tribal subsistence and commercial fisheries; (4) 26.1% (10,800) of the non-tribal harvest to the Klamath River recreational fishery; and (5) 14.8% (4,500) of the ocean harvest to the KMZ recreational fishery. These harvest allocations were expected to result in a 50.9%/49.1% California/Oregon sharing of Klamath River fall chinook ocean troll harvest.

A moderate abundance of Klamath River fall chinook and an increase in the acceptable exploitation rate on OCN coho over that permitted in 2002 allowed for an expansion of commercial fishing opportunity in the Fort Bragg (Horse Mt. to Pt. Arena) area, including a full month of opportunity in May, August, and September, and twenty-six days in July. In addition, recreational fishing opportunity was expanded in the KMZ and Fort Bragg (Horse Mt. to Pt. Arena) areas, including a full month of opportunity in July.

### 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% (41,400) of the available harvest surplus of adult Klamath fall chinook. The State of California managed the river recreational fishery under a 10,800 adult fall chinook quota. Adult fall chinook landings totaled 29,900 fish (72% of the quota) in the tribal fishery and 9,700 fish (90% 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 net 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	1000	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 <sup>a/</sup>
2003 <sup>b/</sup>	149,200	78	9,700	5	29,900	16	2,800	1	191,600

a/ Inriver run size includes an estimated 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 2003 preliminary postseason estimate of the Klamath River fall chinook age-4 ocean harvest rate is 20.6%, which exceeds the preseason forecast of 16.0% , and the 16% NMFS ESA consultation standard for California Coastal chinook.

### **Klamath River Fall Chinook**

The 2003 postseason river run size estimate (preliminary) for Klamath River fall chinook salmon is 191,600 adults compared to the preseason predicted ocean escapement (river run size) of 113,200 adults. The escapement to natural spawning areas of 87,400 adults substantially exceeded the preseason prediction of 35,000 adults. The estimated number of hatchery returns is 61,800 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 19,400 adults, exceeding the 2003 escapement of 13,400 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 2003 was 4,100 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.

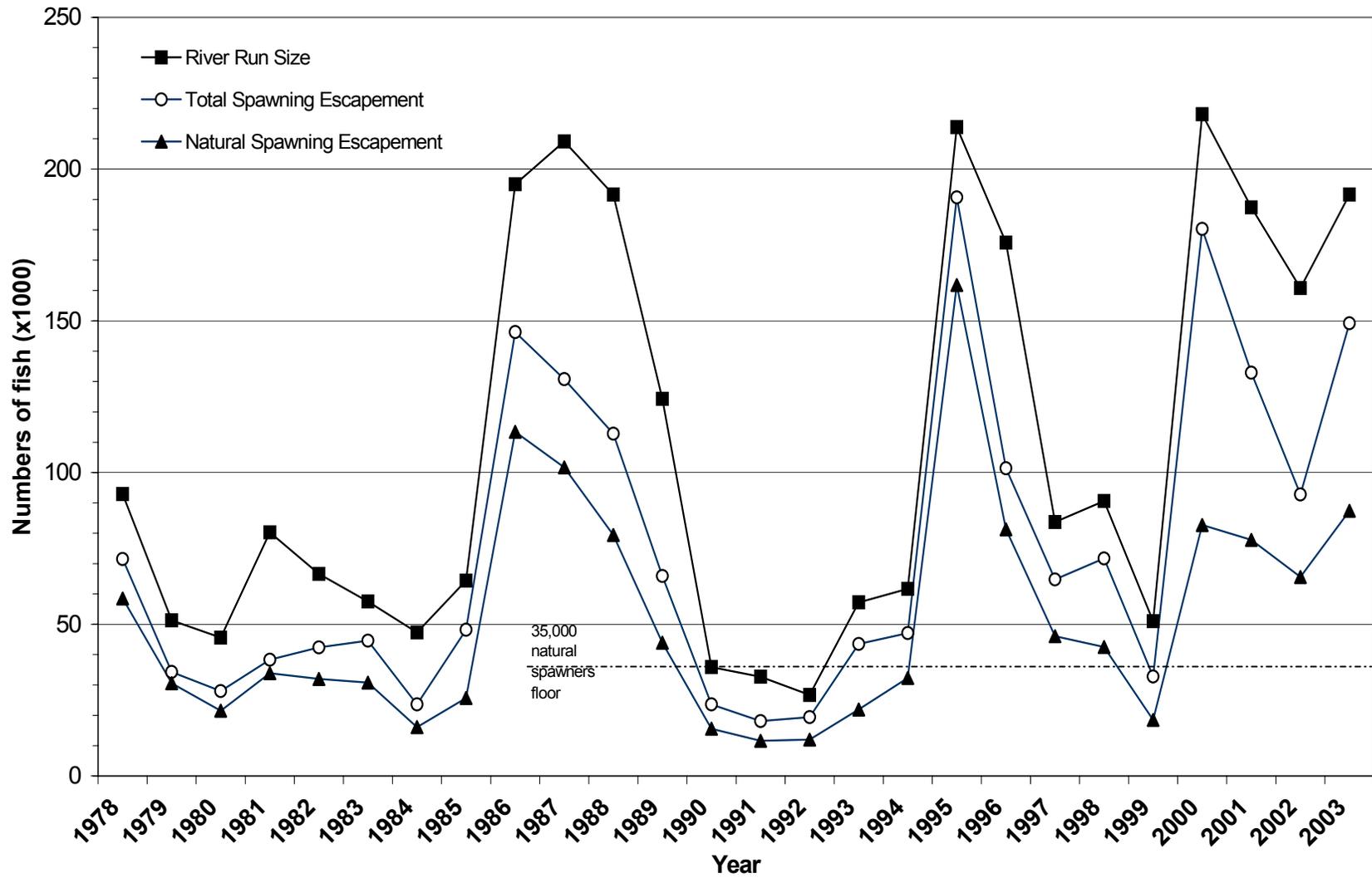


Figure II-2. Klamath River adult fall chinook salmon river return and spawning escapements, 1978-2003.

## **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, north California coast 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 available for Oregon coast chinook, however, based on postseason abundance indicators, impacts from Council-area fisheries on this stock have not been critical at the harvest levels of recent years. Under the 2003 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 2003 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 2003 are preliminarily estimated at 297 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 2003.

### Coastal Hatchery Chinook

Preliminary estimates of total fall and spring chinook returns to Oregon coastal hatcheries in 2003 are 3,800 and 17,100 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 <sup>b/</sup>	
	Public Hatchery <sup>a/</sup>		Private	Spring	Fall
	Spring	Fall	All		
<b>THOUSANDS OF CHINOOK</b>					
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	-	NA	NA
2001	26.8	5.7	-	NA	NA
2002	24.7	2.9	-	NA	NA
2003 <sup>c/</sup>	17.1	3.8	-	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.<sup>d/</sup>  
 (Page 1 of 2)

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)
1942	-	-	41.8	-
1943	-	-	36.1	-
1944	-	-	30.6	-
1945	-	-	32.0	-
1946	-	-	28.4	2.5
1947	-	-	22.6	3.8
1948	-	-	27.0	2.5
1949	-	-	18.8	2.6
1950	-	-	15.5	2.3
1951	-	-	19.4	3.6
1952	-	-	15.9	5.2
1953	-	-	31.5	3.9
1954	-	-	24.7	1.5
1955	-	-	15.7	6.6
1956	-	-	28.1	8.0
1957	-	-	17.7	4.0
1958	-	-	15.0	3.6
1959	-	-	14.0	3.1
1960	-	-	24.4	3.4
1961	51	-	31.8	4.4
1962	42	-	31.4	3.3
1963	56	-	40.6	8.7
1964	63	-	37.3	6.6
1965	59	-	47.6	9.0
1966	62	-	31.4	6.7
1967	50	-	14.7	6.5
1968	33	-	19.5	6.2
1969	37	-	59.0	10.7
1970	80	-	45.1	6.1
1971	43	-	28.3	6.0
1972	41	-	30.0	7.9
1973	52	-	34.7	11.4
1974	59	-	16.5	5.8
1975	55	-	20.4	5.4
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

TABLE II-4. **Spawner indices** for naturally produced **Oregon coastal fall chinook** and south migrating/localized spring chinook.<sup>d/</sup>  
(Page 2 of 2)

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)
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 <sup>e/</sup>	297	16.5	18.9	7.9

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.

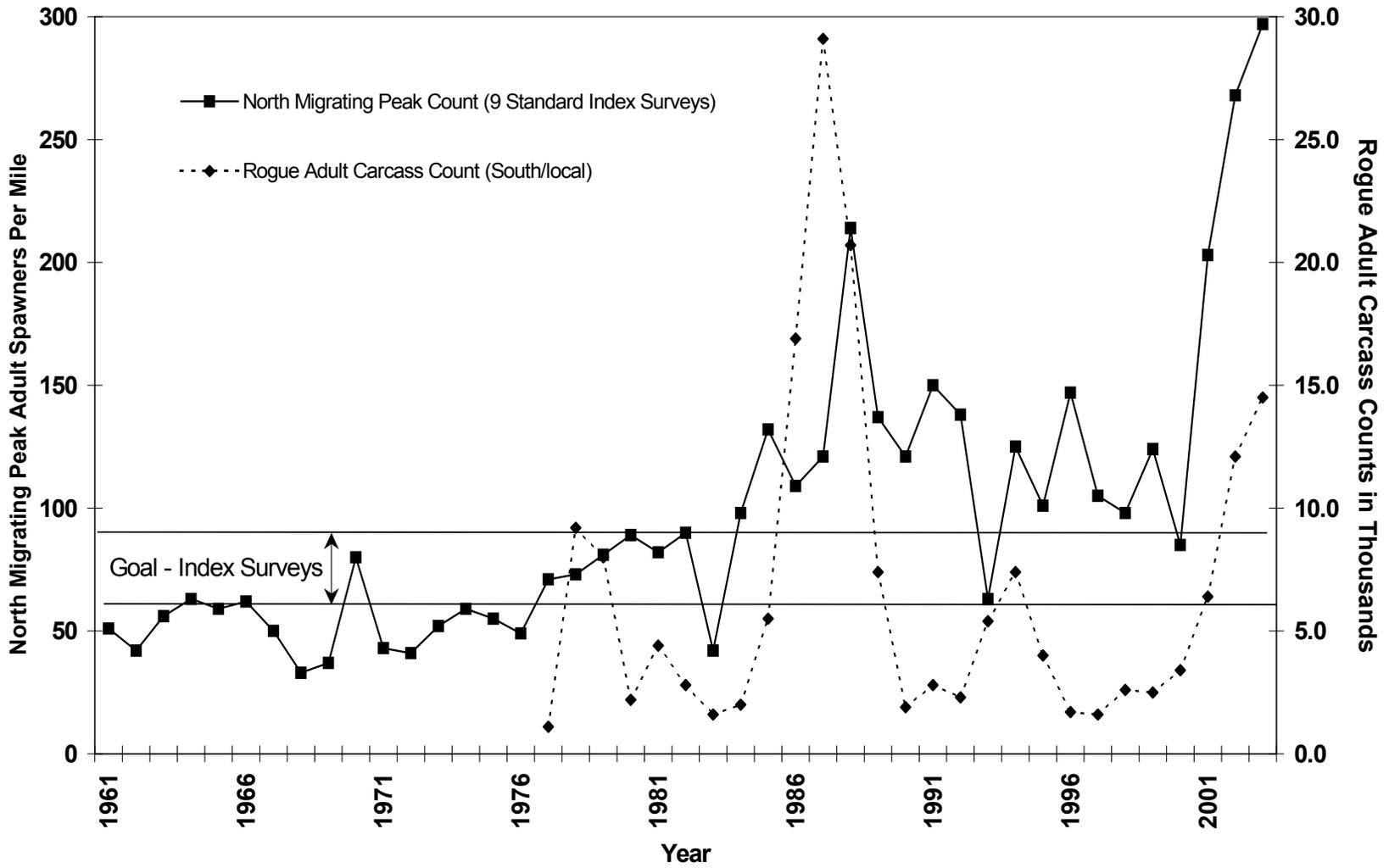


Figure II-3. Spawner indices for naturally produced Oregon coastal fall chinook.

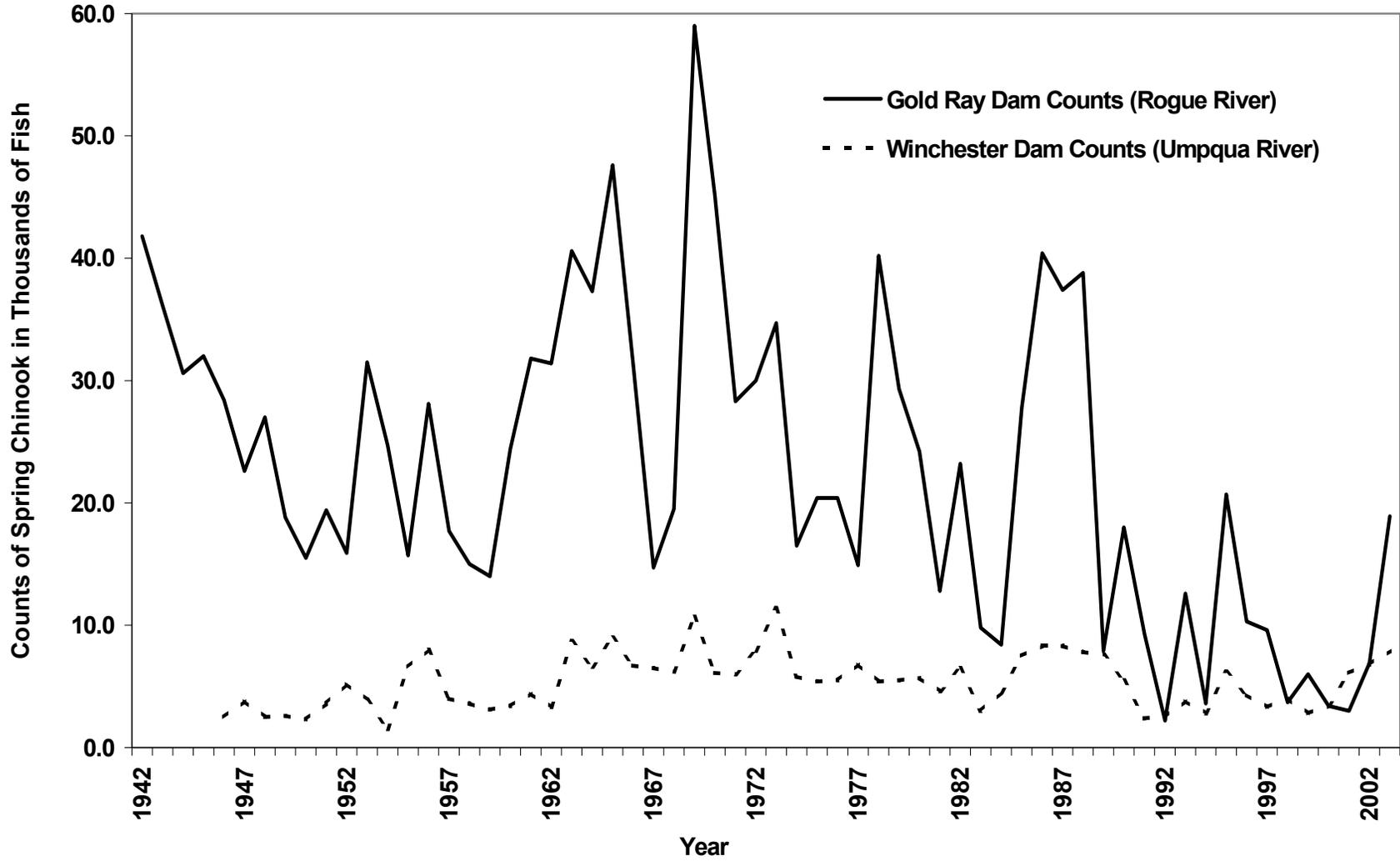


Figure II-4. Escapement indices for naturally produced Oregon coastal south/local migrating spring chinook, 1942-2003.

## COLUMBIA RIVER BASIN CHINOOK STOCKS

Columbia River Basin chinook salmon stocks include all fall, summer, and spring stocks of the Columbia River and its tributaries. NMFS has listed five 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 2003 were managed to access abundant Columbia River hatchery tule stocks while maintaining a total (ocean plus inriver) AEQ exploitation rate on ESA-listed natural tules of no more than 49%. For pre-season modeling, the estimated total exploitation rate on Coweeman natural tules was used as a surrogate for the rate on all naturally spawning tules. The NMFS ESA consultation standard for Snake River fall chinook (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) did not constrain Council-area fisheries, primarily due to restrictions in other fisheries (especially ocean troll fisheries in Canada). Constraints on OCN and other depressed natural coho stocks, including Columbia River and Canadian stocks, also limited chinook harvest opportunity north of Cape Falcon.

### 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 2003, 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 2003. Total catch of fall chinook in all non-Indian commercial fisheries was 123,700 fish including 9,700 fish in Select Area (terminal) fisheries. The total catch of fall chinook in 2003 treaty Indian fisheries was 127,000 fish. Total recreational catch of fall chinook in mainstem Columbia River fisheries was 58,600 fish, including 16,300 fish in the Buoy 10 fishery and 13,100 above Bonneville Dam (primarily in the Hanford Reach above McNary dam.)

## Escapement and Management Performance

All Columbia River fall chinook met 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.

Preliminary estimates of adult ocean escapement for the five fall stock groups, based upon preliminary CWT readings, catch estimates, dam counts, hatchery returns, and estimates of natural spawners are 190,000 LRH; 23,000 LRW; 194,000 SCH; 380,000 URB; and 118,000 MCB, which were all greater than forecast. The total ocean escapement of the five stocks was 905,000 fish, which was the largest escapement since 1942. Figure II-5 shows the river mouth return of these stock groups from 1976-2003.

Columbia River mainstem fisheries for fall chinook in 2003 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 21.8%, 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 2002 is 942. The total adult fall chinook count at Lower Granite Dam in 2003 was 11,100 compared to 12,300 fish in 2002, although a significant portion are returns from recent supplementation programs. An estimate of wild Snake River fall chinook escapement in 2003 is not yet available. 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 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 2003 conservation objectives (preliminary data). (Page 1 of 2)

System and Stock	2003 FMP Conservation Objective	Achievement
<b>Sacramento River Chinook</b>		
Fall	122,000-180,000 natural and hatchery adults.	519,600 adult fall chinook, 289% 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 12, and between Pigeon Point and the U.S./Mexico border until March 29.
Spring (Threatened)	Same objective as for winter chinook.	Objective met-see winter chinook achievement.
<b>California North Coast Chinook</b>		
Klamath River Fall	Inriver run size target of 113,200 adults to provide an expected escapement of 35,000 natural adult spawners, the floor level.	Run size 191,600 adults, 169% of target; 87,400 natural area spawners, 250% of target.
California Coastal (Threatened)	No greater than 16% ocean harvest rate on age-4 Klamath River fall chinook.	20.6% ocean harvest rate on age-4 Klamath River fall chinook; objective not met.
<b>Oregon Coast Chinook</b>		
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).	297 natural adult spawners per mile, more than three times the upper end of the aggregate stock index range.
<b>Columbia River Basin Fall Chinook</b>		
LRW (Component of threatened lower Columbia River chinook ESU)	MSY objective of 5,700 natural North Lewis River adult spawners (jeopardy standard not defined).	19.0 adult escapement, 333% of the 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 47%. No postseason estimate can be made at this time.
LRH	14,000 adult hatchery spawners.	57.0 adult hatchery spawners. 411% of goal.
SCH	7,000 adult hatchery spawners.	58,000 adult hatchery spawners, 829% of target.
MCB	No FMP objective; CRFMP target of 7,750 hatchery adults.	24,200 adult hatchery spawners, 312% of CRFMP target.
URB	40,000 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.	173,700 natural and hatchery adults over McNary Dam, 378% 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.
<b>Washington Coastal Chinook</b>		
Fall	Natural spawner escapement objectives as provided in state-tribal agreements; meet hatchery egg-take goals and meet treaty Indian obligations.	Escapement objectives met for Willapa Bay hatchery; Queets natural, Hoh natural, and Quillayute natural; spawning escapements estimates for Willapa natural and Grays Harbor natural not available.
Spring/Summer	Natural spawner escapement objectives as provided in state-tribal agreements; meet hatchery egg-take goals and meet treaty Indian obligations.	Escapement objectives met for Queets spring hatchery, Queets summer natural, Hoh spring/summer natural; not met for Quillayute spring/summer natural; spawning escapements estimates for Grays Harbor spring natural not available.

TABLE II-5. Performance of chinook salmon stocks in relation to 2003 conservation objectives (preliminary data). (Page 2 of 2)

System and Stock	2003 FMP Conservation Objective		Achievement	
<b>Puget Sound Chinook</b>				
(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
CNooksack spring	C7% So U.S.		7%	399
CSkagit summer/fall	C49% Total		50%	11,639
CSkagit spring	C30% Total		24%	1,135
CStillaguamish summer/fall	C24% Total		18%	2,322
C Snohomish summer/fall	C24% Total		21%	5,072
CLake Wash. summer/fall	C31% Total		31%	311
CWhite River spring	C20% Total		19%	1,501
CGreen River summer/fall	C53% Total	5,500	56%	6,884
CPuyallup summer/fall	C55% Total		50%	2,433
CNisqually summer/fall	CNA	1,100		1,107
C Skokomish summer/fall	CNA	1,200		1,349
CMid-Hood Canal fall	C29% So U.S.		29%	531
CDungeness spring	C23% Total		23%	351
CElwha summer/fall	C23% Total		23%	

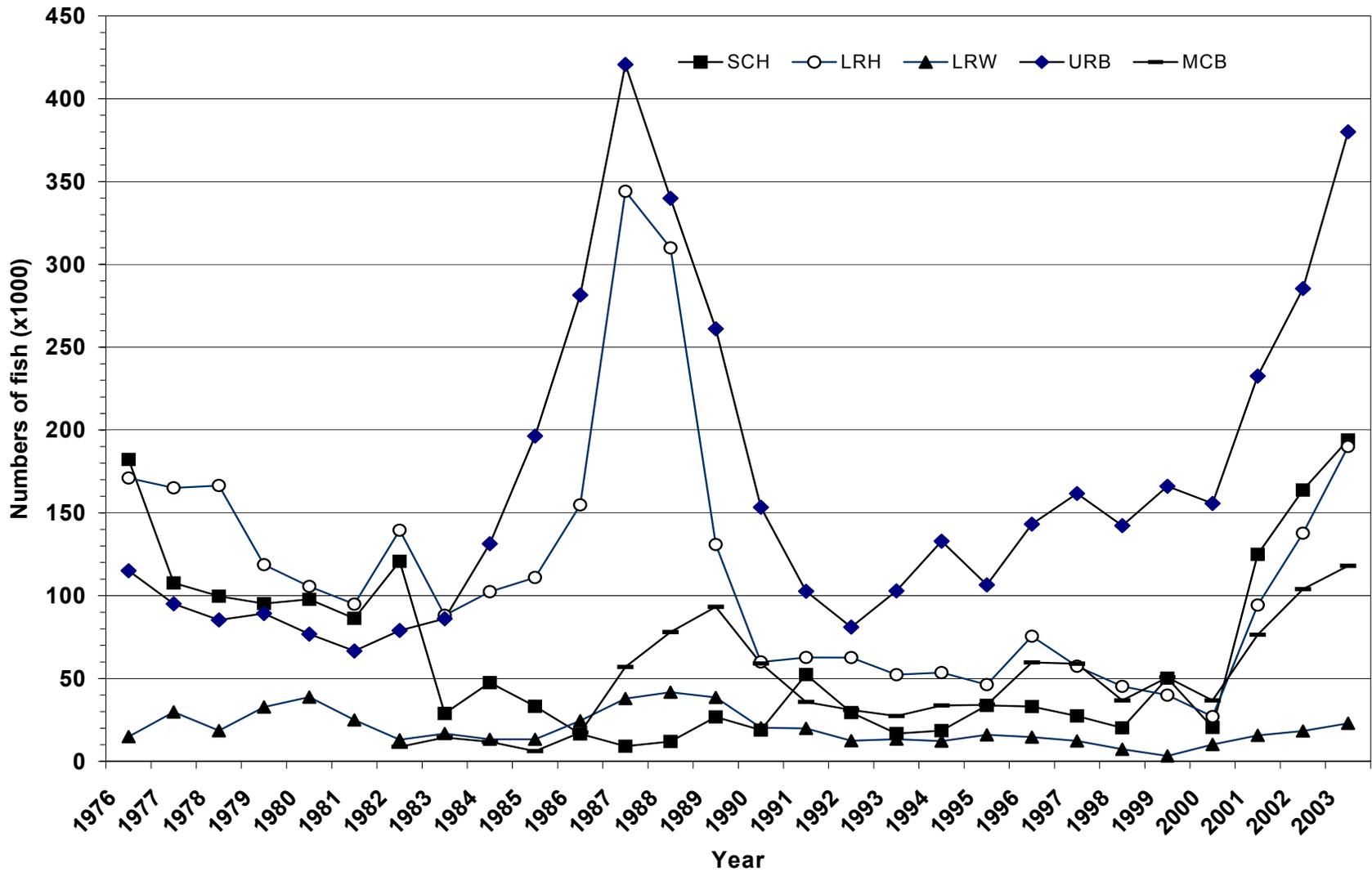


Figure II-5. Columbia River mouth adult returns of the five major fall chinook stock groups, 1976-2003.

## **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. However, in 2003, the Council established a Conservation Area around the mouth of Grays Harbor that was in effect beginning August 16 to provide additional protection for Grays Harbor natural fall chinook, which have not met their escapement goal since 1997.

### **Willapa Bay Chinook**

#### **Inside Harvest**

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

A chinook non-Indian gillnet fishery during July and the first half of August was conducted in 2003 for only the second time since 1993, 215 chinook were harvested. This fishery is commonly referred to as the "summer dip-in" fishery; it occurs with such irregularity because it is dependent on Columbia River tule abundance. This fishery generally harvests Columbia river tule stocks in a mix similar to adjacent ocean area catches.

Preseason forecast of chinook returning to Willapa Bay was 16,664 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 2003 totaled 7,445 fish based on Quick Reporting data. Recreational harvest estimates are not yet available for 2003. Recreational fisheries in the marine waters of Willapa Bay were open July 22, 2003 through January 31, 2004. Recreational salmon fishery in freshwater tributaries to Willapa Bay varied in duration but were generally open August 1 through January 31. Two adult chinook were allowed to be harvested daily and single point barbless hooks were required in all areas.

#### **Escapement and Management Performance**

During 2003, chinook returning to hatcheries in the Willapa Bay watershed totaled 7,403 fish. Based on current hatchery production, this return was not sufficient to achieve the goal of 9,825 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 2003 natural spawning escapement is not yet available.

### **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 66 spring chinook in 2003. 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 2003. No retention of fall chinook was allowed during the coho directed non-Indian net fisheries in 2003 and only 93 were harvested during the chum directed fishery. Terminal marine and freshwater recreational fisheries were scheduled on all area waters except the Humptulips River. Recreational harvest estimates are not yet available. The treaty Indian fishery harvested a total of 851 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 2003 terminal run forecast for spring chinook was 2,398 adult fish, exceeding the escapement goal. An escapement estimate for 2003 is not currently available.

Grays Harbor fall chinook are managed for a natural spawning escapement goal of 14,600 adults. The 2003 Grays Harbor fall chinook forecast was 11,486 wild and 2,221 hatchery adults. An escapement estimate for 2003 is not currently available. 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 92 spring/summer chinook were harvested in 2003.

The 2003 harvest of Quinault River fall chinook was mostly hatchery origin fish taken in September and October. The treaty Indian net catch totaled 7,433 fall chinook.

### **Escapement and Management Performance**

The estimated 2003 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 fish was limited to a one (1) day ceremonial and subsistence fishery that harvested six fish. This fishery used small mesh gear to target summer steelhead. 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 1 and followed a schedule set in a preseason management agreement between the Quinault Indian Nation and WDFW. The treaty Indian gillnet fishery harvested 1,342 fall chinook, including 20 fish taken for ceremonial and subsistence use. The 2003 catch estimate of 473 for the inriver recreational fishery is preliminary.

### **Escapement and Management Performance**

The preliminary 2003 spawning escapement estimate for Queets River spring/summer chinook is 189 adults, substantially below the floor escapement goal of 700.

The preliminary spawning escapement estimate for Queets River natural fall chinook is 4,993 adults, well above the minimum goal of 2,500 adult spawners established for this stock. The preliminary hatchery escapement estimate is 203.

## **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 pre-season forecast was for a wild run size of 1,870. The Hoh Tribe and 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 1,290 wild chinook. The tribal fishery operated at one day per week from week 19 (week of May 5) to week 35 (week of August 25). The fishery took 316 chinook with 11 estimated taken during separately scheduled ceremonial fishing. Results of scale analyses indicate that 107 of these were of hatchery origin. 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 3,264, which allowed for a harvest rate of 40%. The tribal fishery targeted 25.5% of the terminal run while requiring 6" maximum stretch mesh restrictions from weeks 43 to 46 to focus catch on coho. The tribal gill net fishery was scheduled for 2 days per week from weeks 36 (week of September 1) through 48 (week of November 24). In mid-October, a record high flow occurred, causing flooding and significant bank erosion. Fluctuating flows caused the re-scheduling of one day of fishing in weeks 43 and 47. The days were made up in weeks 44 and 48. The tribal fishery caught approximately 547 chinook. (501 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 6 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 fishing for salmon. A catch estimate is not yet available for the recreational fishery.

### **Escapement and Management Performance**

The spring/summer chinook run returned in numbers approximating the preseason forecast. The preliminary spawning estimate for Hoh spring/summer chinook is 1,200 adults, above the 900 fish escapement floor for this stock.

Based on the treaty gill net catch and expected harvest rate, the fall chinook terminal run size appears to be below the level anticipated preseason. Large freshets during the season created difficult fishing conditions, and may have reduced the tribal harvest rate. The preliminary spawning escapement estimate for Hoh fall chinook is 1,400, 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 2003 was 188 spring and 46 summer chinook. Estimates of recreational spring and summer chinook harvest are not yet available.

The total 2003 Quileute Tribal harvest of fall chinook was 1,445. An estimate of 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 Goal Assessment**

The management agreement called for an escapement goal of 200 hatchery spring chinook. The actual rack return was 1,250, which exceeded hatchery requirements.

The summer chinook run is managed to achieve an escapement of 1,200 (adults, jacks, and broodstock collection combined). The estimated natural spawning summer chinook escapement of 1,065 is slightly under the escapement goal.

Terminal area fisheries on fall chinook are managed for a target 40% harvest rate, with a minimum escapement goal of 3,000 adults. The preliminary escapement estimate of 4,578 fall chinook exceeds the 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 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 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 chinook harvest in Puget Sound in 2003 was 73,600 fish, compared to 86,000 chinook caught in 2002. The non-Indian net catch was 8,600 chinook, compared to 17,600 chinook caught in 2002. The treaty Indian net and troll harvest was 65,000 chinook, compared to 68,400 chinook caught in 2002.

Recreational chinook catches in the Puget Sound recreational fishery for years from 1971 through 2002 are presented in Appendix B, Table B-39. Catch estimates for the 2003 Puget Sound recreational fishery are not yet available.

## **Escapement and Management Performance**

Puget Sound chinook management goals for fishery planning processes in 2003 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 2003. Preliminary data suggest the Puget Sound spring chinook natural stocks did not meet their escapement goals. Preliminary estimates of 2003 natural spawning escapements for summer/fall chinook stocks indicate escapement goals were met in some areas, but not in Stillaguamish, Cedar, and Dungeness.

## **COASTWIDE GOAL ASSESSMENT SUMMARY**

Information to assess conservation objectives was unavailable for 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.

A summary of 2003 performance for chinook salmon stocks in relation to Council conservation objectives is presented in Table II-5.

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## **CHAPTER III**

# **COHO SALMON MANAGEMENT**

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### **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: central California coast (CCC) coho listed October 1996, Southern Oregon/Northern California coastal SONCC coho listed May 1997, and Oregon Coastal (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 stock (earlies), a north migrating Columbia River stock (lates), 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 2003).

The Council was also guided by the OCN Work Group recommended 15% exploitation rate on OCN coho, which resulted from the 2000 review of Amendment 13, and which the Council accepted as expert biological advice at the November 2000 Council meeting.

#### **Regulations to Achieve Objectives**

Historically, OPI area coho stocks contributed primarily to ocean fisheries off Oregon and northern California and, to a lesser degree, to ocean fisheries off Washington and British Columbia. The Council prohibited retention of coho in all fisheries south of Humbug Mt., Oregon and adopted seasons that the STT projected would result in exploitation rates of 9.6% for RK coho in marine fisheries and an overall 14.4% 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 (4-spread requirement) were also used to reduce OCN impacts.

Non-Indian commercial troll fisheries allowing mark-selective coho retention occurred in 2003 from Cape Falcon to the U.S./Canada border with a 75,000 coho quota.

All species treaty Indian fisheries north of Cape Falcon were not restricted to mark-selective retention of coho, and operated on a quota of 90,000 coho.

### **Recreational**

Retention of coho has been limited in the recreational fisheries south of Cape Falcon since 1993. All coho directed fisheries in the OPI area have been mark-selective since 1998. Increased abundance of marked coho in the OPI area has resulted in larger allowable harvests of marked coho within constraints for ESA listed OCN coho.

### **Inside Harvest**

Inside harvest estimates of coho are not available for river systems in California.

The 2003 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 2003 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 first 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 occurred from December 11-31, 2003. Due to this seasons late start the total catch was less than 20 fish.

The 2003 Columbia River non-Indian commercial gillnet fishery harvested 225,700 adult coho, compared to 163,000 coho in 2002. Select Area fisheries in both Oregon and Washington accounted for 111,800 of the total 2003 Columbia River commercial coho catch. The treaty Indian mainstem commercial gillnet coho catch was 2,600 fish, compared to the 2002 catch of 1600 coho. All Columbia River commercial fisheries are non-mark-selective. Coho harvest statistics for Columbia River commercial and recreational fisheries are presented in Appendix B, Table B-21.

The total mainstem and Buoy 10 recreational fisheries below Bonneville Dam harvested 84,200 adult coho compared to 41,700 adult coho in 2002. In 2003, Columbia River managers opened the Buoy 10 fishery August 1 through December 31 for both chinook and coho. The upriver boundary at the Tongue Point, Oregon to Rocky Point, Washington line has been in effect since 2000. The 2003 Buoy 10 harvest and effort totaled 54,300 coho and 88,600 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 2003 was 1,234,900, down from 967,600 in 2002 and greater than the ten-year average of 522,000 (Figure III-1).

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 <sup>a/</sup>			Inside Harvest Impacts <sup>b/</sup>	Ocean Escapement to Oregon Coast <sup>a/</sup>
	Private	Public	STEP <sup>c/</sup>		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	37.7	39.7	19.3	88.9
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	37.9	43.7	2.4	74.1
1995	-	25.2	0.4	4.2	11.2	41.2	52.4	3.6	85.8
1996	-	23.8	1.0	6.2	13.5	59.5	73.0	4	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	63.1	75.8	4.5	106.9
2001	-	38.1	1.2	24.9	19.7	149.8	169.5	10.0	243.7
2002	-	30.9	2.6	11.2	22.1	242.2	264.3	8.1	317.1
2003 <sup>d/</sup>	-	15.9	3.6	13.7	25.1	213.2	238.3	6.7	278.2

a/ Does not include estimates for the southern OCN component (Rogue River). Spawner escapements to rivers have historically been 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.

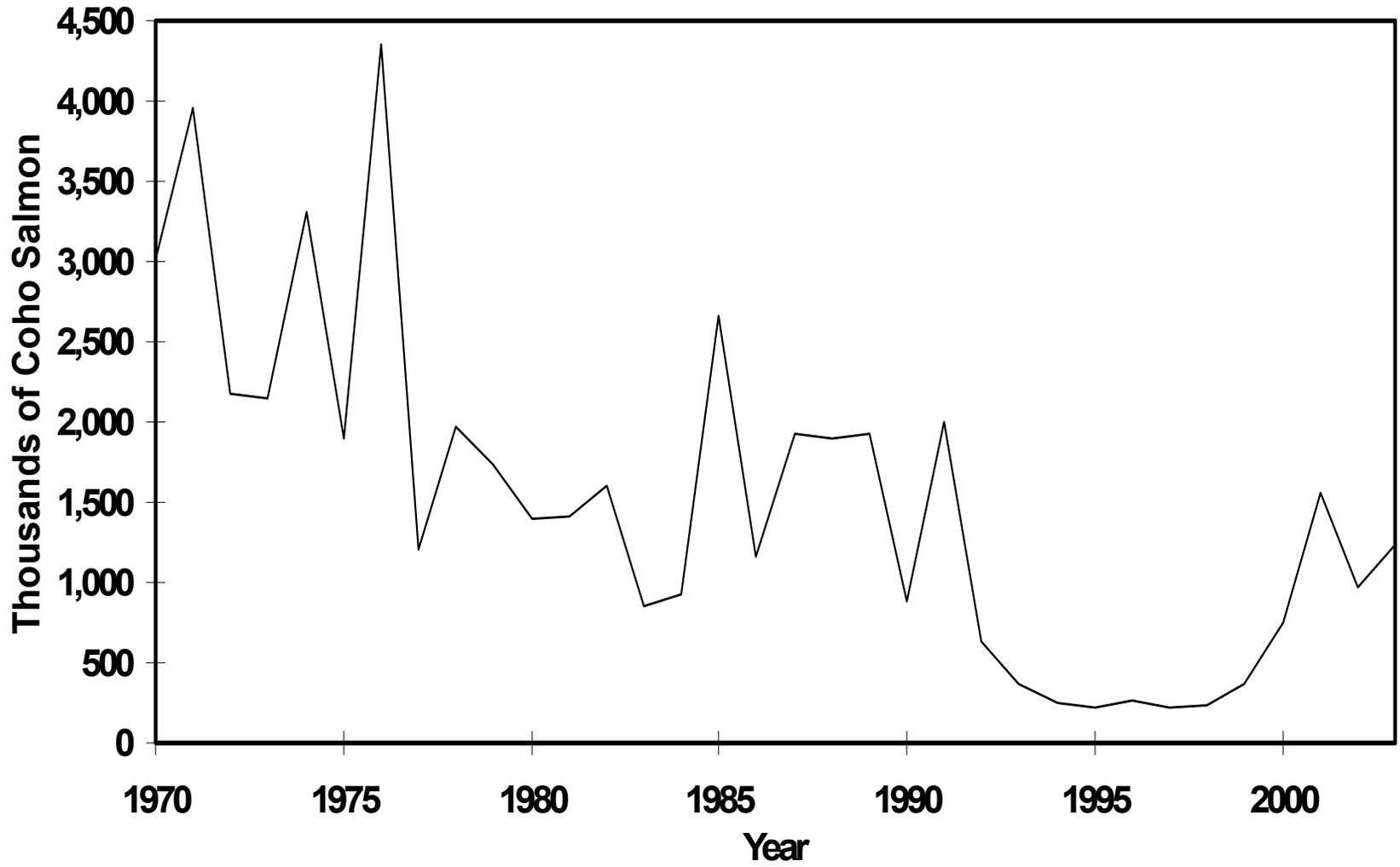


Figure III-1. Oregon production area (OPI) salmon abundance estimates by stratified random survey (SRS) accounting methods, 1970-2003.

TABLE III-2. Estimated weekly **effort** (in angler trips) and **catches** of chinook and coho in the 2003 **Buoy 10 recreational** fisheries (all data are preliminary).<sup>a/</sup> (Page 1 of 1)

Week Number	Ending Date of Period	Angler Trips	Catch		Catch Per Trip
			Chinook	Coho	
31	Aug.-3	2,238	113	191	0.14
32	Aug.-10	3,772	323	332	0.17
33	Aug.-17	11,119	2,045	3,028	0.46
34	Aug.-24	24,593	6,633	13,239	0.81
35	Sept.-1	20,238	4,372	16,620	1.04
36	Sept.-7	14,899	2,236	15,016	1.16
37	Sept.-14	7,419	500	4,809	0.72
38	Sept.-21	3,382	63	979	0.31
39	Sept.-28	951	9	87	0.10
40-44	Nov.-2	0	0	0	0.00
<b>Total</b>		<b>88,611</b>	<b>16,294</b>	<b>54,301</b>	<b>0.80</b>

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 coho and steelhead without healed adipose fin clips.

## **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 2003, coho returns to Iron Gate and Trinity River hatcheries totaled 11,742 adults (10,425 coho to Trinity River and 1,317 coho to Iron Gate), compared to a combined goal of 2,000 adult coho.

## **Oregon Coast Natural Coho**

Preliminary estimates of natural spawner escapement in 2003 to Oregon coastal river and lake systems from the Coquille River north is 238,300 adult coho by SRS accounting. This compares to 264,300 adults in 2002. 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 second best 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 2003 was 240,000 (Table III-3, Figure III-2). Natural spawning populations were at or near record highs for all basins except the southern basin.

Preliminary estimates of total coho returns to Oregon coastal public hatcheries and Salmon Trout Enhancement Program (STEP) smolt production facilities were 15,900 and 3,600 adults, respectively (Table III-1). Hatchery egg-take goals are expected to be met at all public hatchery stations.

## **Columbia River Coho**

The 2003 ocean escapement of adult early and late Columbia River coho stocks was 694,800 fish, compared to 511,600 adults in 2002 (Appendix B, Table B-21). The 2003 Columbia River coho abundance was sufficient to meet all hatchery brood stock escapement needs.

Preseason, the STT (using the coho FRAM) predicted the mark rate for the Buoy 10 fishery would be 81%. From dockside interviews, the mark rate for the Buoy 10 fishery was estimated at 61%.

## **WASHINGTON COASTAL COHO STOCKS**

Washington coastal 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, Quinalt (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 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 natural spawning escapement targets and total escapement objectives are established by WDFW and treaty Indian tribes under the provisions of *U.S. versus Washington* and subsequent U.S. District Court orders. After an agreement to annual targets is reached by the parties in this litigation, ocean fishery escapement objectives are established for each river, or region of origin, which include provisions for treaty Indian allocation requirements and inside non-Indian fishery needs. The conservation objectives for the Queets, Hoh, and Quillayute rivers were

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 <sup>a/</sup>					Adult Coho Spawners Per Spawner Habitat Mile				
	Conservation Objective <sup>b/</sup>	Preseason Projection	Postseason Estimate <sup>c/</sup>	Northern <sup>d/</sup>	North Central <sup>e/</sup>	South Central <sup>f/</sup>	Southern <sup>g/</sup>	Coastwide	Northern <sup>d/</sup>	North Central <sup>e/</sup>	South Central <sup>f/</sup>	Southern <sup>g/</sup>	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 <sup>h/</sup>	54.8	5	7	26	1 <sup>h/</sup>	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	101.0	7.8	261.2	55	88	62	19	64
2003 <sup>i/</sup>	#0.15	0.144	NA	56.8	68.8	112.4	2.0	240.0	63	59	69	5	59

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.

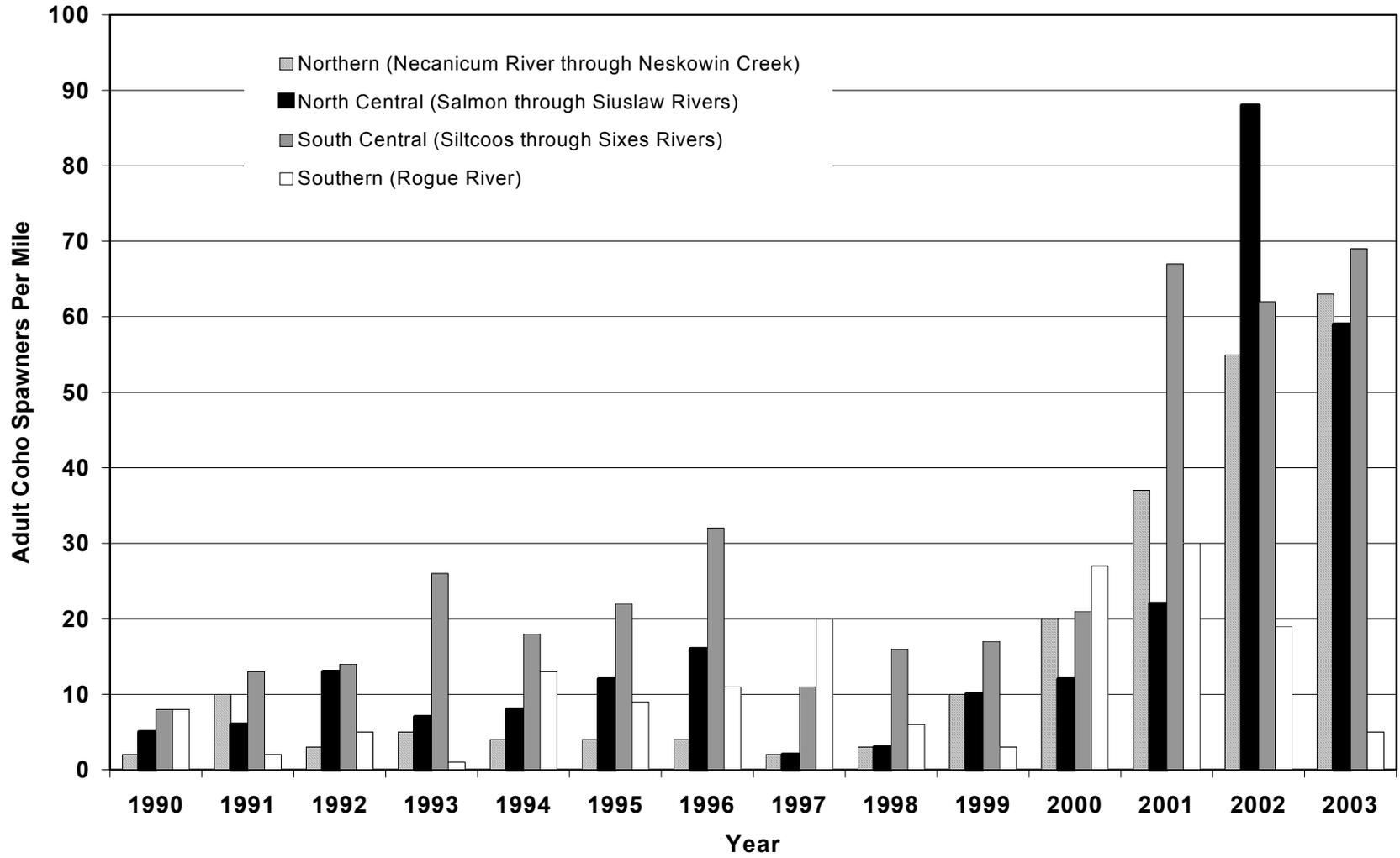


Figure III-2. Oregon coastal natural (OCN) adult coho salmon spawners per spawner habitat mile by coastal region based on SRS accounting methods, 1990-2003.

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 2003 Council area ocean fishery management because of impact constraints on OCN stocks. 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, but 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 2003 totaled 64,429 fish (wild 13,625 and hatchery 50,804). Based on the preseason forecast for a terminal run of 68,758 fish, the scheduled commercial fisheries were expected to harvest approximately 30,464 total coho.

Marine and freshwater recreational harvest estimates are not yet available for 2003. Expected harvest in recreational fisheries based on preseason forecast abundance was 2,758. Willapa Bay was open to recreational fishing from August 16, 2003 through January 31, 2004 with a daily-bag-limit of six salmon, no more than two adults. Single point barbless hook were required when fishing for salmon. Freshwater recreational fisheries in the Willapa Bay watershed were open for salmon fishing from August 16, 2003 through January 31, 2004 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 2003 are not yet available. Escapement to Willapa Bay hatcheries in 2003 numbered 55,717 coho, which met the egg take goal.

### **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 93,700 fish (51,200 wild and 42,500 hatchery). More than 18,000 coho (wild, hatchery, and net-pen origin) were harvested in treaty and non-treaty net fisheries. This included 12,048 coho in the Quinault Indian Nation fisheries, 6,330 in the non-Indian gillnet fishery, and small numbers in the Chehalis tribal fishery.

Recreational harvest estimates for 2003 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 were open to non-mark-selective harvest of up to two adult coho April 16 through July 31 and October 1 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.

### **Escapement and Management Performance**

Grays Harbor coho are managed for natural production with a spawning escapement goal of 35,400. Natural spawning escapement estimates are not yet available.

The preliminary estimates of the total return to Grays Harbor hatcheries is 64,510 coho, which met egg take needs. Net pen reared coho also returned to Grays Harbor in 2003 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 22,558 coho were harvested by the gillnet fishery in 2003.

### **Escapement and Management Performance**

Quinault River coho are managed for hatchery production. Escapement estimates for Quinault River coho in 2003 are not yet available. Hatchery production objectives were 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 established by 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 by the net fishery was 12,722, 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 and schedules, in the Queets, Clearwater, and Salmon Rivers, and were not mark-selective for coho. The 2003 catch estimate for the inriver recreational fishery of 1,901 is preliminary.

### **Escapement and Management Performance**

The preliminary spawning escapement estimate for Queets wild (including supplemental) coho is 16,686 adults, exceeding the upper end of 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 10,394, based on both strong freshwater and saltwater survival expectations. The fall fishing schedule was set as described in the Chapter II section on Hoh River fall chinook in order to stay within more stringent chinook harvest limitations. The tribal fishery took approximately 1,892 coho, with approximately 1,584 estimated to be wild coho, including dip-in wild fish. This was far below the preseason expected catch of approximately 3,381 wild Hoh and dip-in coho. The non-Indian recreational fishery operated as anticipated preseason, without a mark-selective coho restriction, and as described in the Chapter II section on Hoh River fall chinook.

### Escapement and Management Performance

Though the overall preliminary run size estimate was less than expected preseason, escapement appears to be strong. Escapement surveys are still incomplete, but preliminary information indicate that the spawning escapement for Hoh coho should exceed the upper end of the escapement range established for this stock (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 WDFW and the Quileute Tribe. A total of 2,462 (962 wild) summer coho were harvested in the Quileute Tribes commercial and ceremonial and subsistence fisheries. An estimate of the 2003 recreational catch is not yet available.

The Quileute Tribal harvest of fall coho for 2003 was 13,999 (13,949 commercial, 50 ceremonial and subsistence). Approximately 7,698 wild coho were harvested by tribal net fisheries. An estimate of the 2003 recreational catch is not yet available.

WDFW reduced the impacts of the recreational fishery on naturally produced summer coho by requiring the 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 6,539. This is well above the goal of 300. The preliminary estimate for natural summer coho escapement is 505.

The preliminary 2003 escapement estimate for natural fall coho is 14,370. This is near the upper range of the escapement goal of 6,300 to 15,800 established for this stock. The hatchery rack return of 13,799 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 are currently 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 2003 ocean fishery management considerations since the needs of OCN 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 and Thompson River coho (Canada).

### **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 2002 total Puget Sound commercial catch of coho was 244,300 fish, compared to a catch of 287,100 coho in 2002. Non-Indian harvest was 17,700 coho, compared to a catch of 24,200 coho in 2002. Treaty Indian net and troll fisheries harvested 226,600 coho, compared to a catch of 262,900 coho in 2002.

Historic coho recreational catches in the Puget Sound recreational fishery for the years from 1971 through 2002 are listed in Appendix B, Table B-39.

### **Escapement and Management Performance**

Estimates of 2003 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 met in all regions 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 2003 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 2003 conservation objectives (preliminary data). (Page 1 of 1)

System and Stock	2003 FMP Conservation Objective	Achievement
<b>Puget Sound Coho</b>		
	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 6 management units.	Data not available for 2003 natural spawner escapements, but all are expected to be better than preseason expectations. Hatchery egg-take goals met, except for South Puget Sound. No information available on catch allocation.
Strait of Juan de Fuca	#40% total exploitation rate. 12,800 adult spawners.	Preseason expected ocean escapement of 18,00 adult fish for eastern and western Strait of Juan de Fuca combined. 14.0% total exploitation rate.
Hood Canal	#45% total exploitation rate. 21,500 natural adult spawners.	Preseason expected ocean escapement of 25,800 adult fish. 41.0% total exploitation rate.
Skagit	#60% total exploitation rate. 30,000 natural adult spawners.	Preseason expected ocean escapement of 97,900 adult fish. 37.0% total exploitation rate.
Stillaguamish	#50% total exploitation rate. 17,000 natural adult spawners.	Preseason expected ocean escapement of 27,700 adult fish. 37.0% total exploitation rate.
Snohomish	#60% total exploitation rate. 70,000 natural adult spawners.	Preseason expected ocean escapement of 147,600 adult fish. 33.0% total exploitation rate.
<b>Washington Coast Coho</b>		
	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.
Quillayute Fall	6,300 to 15,800 natural adult spawners.	14,400 natural adult spawners.
Hoh	2,000 to 5,000 natural adult spawners.	5,115 natural adult spawners.
Queets	5,800 to 14,500 natural adult spawners.	16,000 natural adult spawners.
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 52,300 adult fish.
<b>OPI Area Coho</b>		
(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.
OCN (Threatened)	Combined marine and freshwater exploitation rate #15.0% for the 4 stock components. Council adopted a projected exploitation rate of 14.4%, 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 238,300 adult spawners (SRS of rivers and lakes from the Coquille River north).
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.

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## CHAPTER IV

# SOCIOECONOMIC ASSESSMENT OF THE 2003 OCEAN SALMON FISHERIES

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Total 2003 exvessel value for the Council-managed non-Indian commercial salmon fishery was \$20.3 million. In real (inflation-adjusted) 2003 dollars, exvessel value was 43% above its 2002 level, but was 45% below the 1976 through 2002 average (including pinks). The number of vessel-based ocean salmon recreational angler trips taken on the West Coast in 2003 (396,800 angler trips) decreased 4% from 2002 and was 27% less than the 1976 through 2002 average. The total state level income impact associated with the recreational and commercial ocean salmon fisheries for all three states combined was \$80.5 million in 2003. These impacts were 14% above the 2002 level and well over twice the 1998 historic low of \$32.5 million, but 36% below the 1976 through 2002 average in real dollars.

### ALLOCATION OF THE SALMON RESOURCE

Salmon management by the Council involves numerous allocation issues including:

- % Determination of the amount of salmon available for ocean harvest after consideration of expected abundances, harvests by inside fisheries, and spawning escapement goals.
- % Allocation of harvest among broad management areas and among port areas within the management areas.
- % Allocation of harvest between Indian and non-Indian harvesters.
- % 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 stock conservation objectives which shaped the 2003 season is provided in Chapter I; assessments of success in meeting the objectives are provided in Chapters II and III.

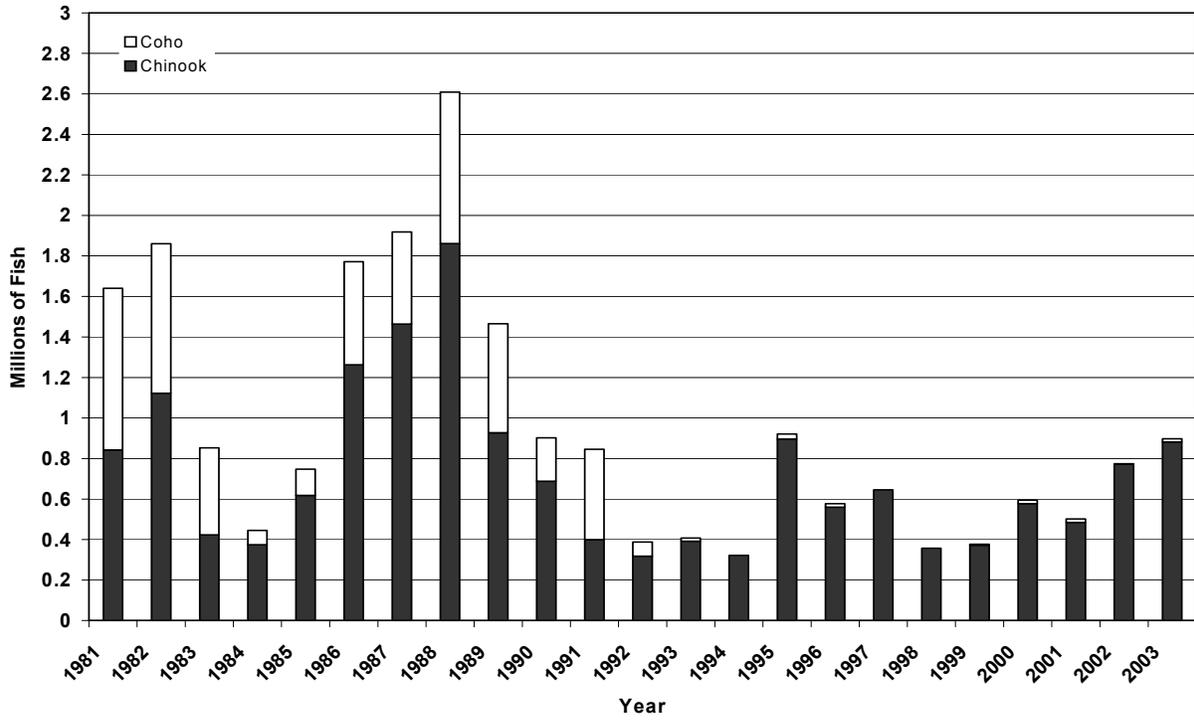


Figure IV-1. West Coast ocean non-Indian commercial chinook and coho harvest.

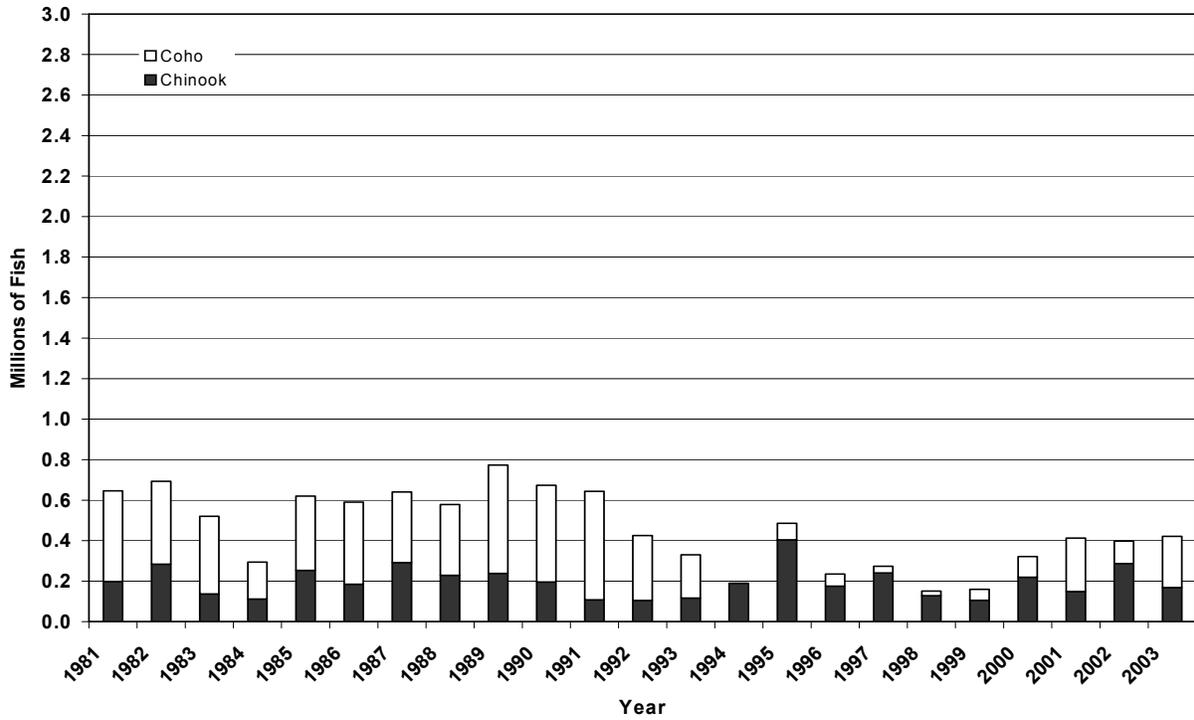


Figure IV-2. West Coast ocean recreational chinook and coho harvest.

## 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 breakdown of price by size category for California salmon landings makes it difficult to tell whether price changes are a function of seasonal changes in market conditions or a shift in the size category of fish landed. In general, 2003 prices were lower mid-season than at the start or end of the season.

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

Total 2003 exvessel value for the Council-managed non-Indian commercial salmon fishery was \$20.3 million. In real (inflation-adjusted) dollars, exvessel value was 43% above its 2002 level, but was 45% below the 1976 through 2002 average (including pinks). 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 real (inflation adjusted) 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 to real values (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.

The 2003 exvessel value of the California commercial ocean salmon catch (\$12.1 million) was 53% above the 2002 value, but 34% below the 1976 through 2001 average, in real 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 2003 exvessel value for the Oregon commercial catch (\$7.2 million) was up 32% from 2002, but still 37% below the 1976 through 2002 average, in real dollars. The 2003 exvessel value for the Washington non-Indian ocean commercial catch (\$991,000) was 29% above the 2002 value. While the exvessel value of Washington landings was highest since the 1992 value of \$1.5 million, it was still 85% below the 1976 through 2002 average, in real dollars.

In 2003, average West Coast ocean harvest chinook price (\$1.87 per pound) increased by \$0.33 per pound (21%) from the 2002 price and was \$0.05 per pound above the 2001 price (inflation adjusted, Figure IV-3). If an estimate of postseason settlement payments for some California fishers is included, the average prices would be higher. Coho prices declined to \$0.79 per pound in 2003 from \$0.89 per pound (16%) compared to 2002.

Coastwide, the non-Indian commercial chinook harvest (881,500 fish) increased by 14% in terms of number of fish compared to 2002 (Figure IV-1). Compared to 2001, coastwide non-Indian chinook harvest was up 82%. Since 1989, the only year with a greater chinook harvest was 1995 (895,900 fish). Average weight per chinook also increased by 3% compared to 2002 (Appendix D, Tables D-1, D-2, and D-3). Coho catch in 2003 was nine times that observed in 2002, increasing from about 1,700 fish in 2002 to 15,700 fish in 2003 while average weights declined 10%. Overall, the 2003 exvessel value of the Council-managed salmon harvest was the highest since 1990 (Figure IV-4). In 2003, about 30% of the coastwide chinook harvest (by weight) was taken in California from the San Francisco area south, compared to 43% in 2002 and 72% in 2000 (Table IV-6, IV-7, and IV-8). Overall, 2003 chinook harvest (in weight) in California was up 27% compared to 2002, while weight of the chinook harvest was up 4% in Oregon and 21% in Washington.

TABLE IV-1. Average monthly **exvessel** troll salmon **price** in dollars per dressed pound for **California, Oregon, and Washington** in 2003. (Page 1 of 1)

Species/Grade	March	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
<b>CALIFORNIA</b>											
Chinook <sup>a/</sup>	-	-	1.90	1.77	1.60	1.93	2.60	3.54	-	-	1.90
Coho	-	-	-	-	-	-	-	-	-	-	-
<b>OREGON</b>											
Chinook											
Large (>11 Pounds)	3.47	2.50	1.81	2.04	1.58	1.85	2.09	2.89	3.64	4.14	2.10
Medium (7-11 Pounds)	3.02	2.06	1.40	1.76	1.38	1.60	1.88	2.62	3.37	3.96	1.85
Small (<7 Pounds)	2.20	1.63	1.18	1.58	1.40	1.44	1.61	2.53	3.00	3.50	1.58
Ungraded Chinook	3.32	2.55	1.67	2.07	1.81	1.81	1.70	1.98	3.42	-	1.94
Weighted Average	3.18	2.24	1.66	1.97	1.59	1.76	1.93	2.61	3.60	4.13	1.98
Mixed Coho	-	-	-	0.79	0.87	0.85	-	-	-	-	0.85
<b>WASHINGTON<sup>b/</sup></b>											
Chinook											
Large (>11 Pounds)	-	-	1.38	1.47	1.00	1.05	1.26	-	-	-	1.18
Medium (8-11 Pounds)	-	-	1.09	1.10	1.05	1.12	1.11	-	-	-	1.09
Small (<8 Pounds)	-	-	0.94	0.64	0.59	0.79	1.79	-	-	-	0.94
Ungraded Chinook	-	-	1.78	-	0.59	1.27	1.31	-	-	-	1.10
Weighted Average	-	-	1.29	1.35	1.00	1.06	1.24	-	-	-	1.15
Mixed Coho	-	-	-	-	0.67	0.74	0.91	-	-	-	0.74

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

Year or Ave.	Chinook				Coho				Total <sup>b/</sup>	
	Nominal Value (thousands of dollars)	Real Value <sup>c/</sup> (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound <sup>c/</sup> (dollars)	Nominal Value (thousands of dollars)	Real Value <sup>c/</sup> (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound <sup>c/</sup> (dollars)	Nominal Value (thousands of dollars)	Real Value <sup>c/</sup> (thousands of dollars)
1979	17,356	37,004	2.53	5.39	2,303	4,910	2.19	4.67	19,659	41,914
1980	12,741	24,905	2.27	4.44	408	798	1.36	2.66	13,149	25,703
1981-1985	13,417	18,101	2.25	4.00	905	926	1.94	3.00	14,322	19,027
1986-1990	18,754	29,653	2.55	4.00	735	676	1.36	3.00	19,489	30,329
1991	8,351	10,447	2.58	3.23	696	871	1.52	1.90	9,047	11,318
1992	4,487	5,487	2.74	3.35	18	22	1.63	1.99	4,505	5,509
1993	5,707	6,821	2.25	2.69	-	-	-	-	5,707	6,821
1994	6,437	7,534	2.07	2.42	-	-	-	-	6,437	7,534
1995	11,693	13,411	1.76	2.02	-	-	-	-	11,693	13,411
1996	5,984	6,736	1.44	1.62	-	-	-	-	5,984	6,736
1997	7,288	8,069	1.38	1.53	-	-	-	-	7,288	8,069
1998	3,060	3,351	1.66	1.82	-	-	-	-	3,060	3,351
1999	7,429	7,774	1.93	2.08	-	-	-	-	7,429	8,019
2000	10,303	10,884	2.01	2.12	-	-	-	-	10,303	10,884
2001	4,761	4,913	1.98	2.04	-	-	-	-	4,761	4,913
2002	7,776	7,902	1.55	1.58	-	-	-	-	7,776	7,902
2003 <sup>d/</sup>	12,089	12,089	1.90	1.90	-	-	-	-	12,089	12,089

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/ Expressed in 2003 dollars.

d/ Preliminary.

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

Year or Average	Chinook				Coho				Total <sup>a/</sup>	
	Nominal Value (thousands of dollars)	Real Value <sup>b/</sup> (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound <sup>b/</sup> (dollars)	Nominal Value (thousands of dollars)	Real Value <sup>b/</sup> (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound <sup>b/</sup> (dollars)	Nominal Value (thousands of dollars)	Real Value <sup>b/</sup> (thousands of dollars)
1971-1975	2,036	6,409	0.89	2.85	3,658	11,797	0.64	2.03	5,694	18,206
1976-1980	5,366	12,067	2.16	4.93	6,407	15,019	1.51	5.51	11,773	27,086
1981-1988	4,039	5,893	2.57	4.02	5,534	3,858	1.66	2.38	9,573	9,751
1986-1990	6,094	13,130	2.59	3.43	3,801	2,467	1.40	2.09	9,895	8,689
1991	1,721	2,153	2.47	3.09	1,399	1,750	0.99	1.24	3,120	3,903
1992	2,490	3,045	2.46	3.01	222	271	1.08	1.32	2,712	3,316
1993	1,661	1,985	2.18	2.61	10	12	1.13	1.35	1,671	1,997
1994	690	808	2.40	2.81	-	-	-	-	690	808
1995	3,294	3,778	1.70	1.95	-	-	-	-	3,294	3,778
1996	3,007	3,385	1.56	1.76	-	-	-	-	3,007	3,385
1997	2,469	2,734	1.60	1.77	-	-	-	-	2,469	2,734
1998	2,297	2,516	1.64	1.80	-	-	-	-	2,297	2,516
1999	1,400	1,511	1.94	2.09	1	1	1.03	1.11	1,401	1,512
2000	2,988	3,156	2.02	2.13	75	79	1.06	1.12	3,064	3,237
2001	4,680	4,829	1.61	1.66	41	43	0.79	0.82	4,721	4,872
2002 <sup>c/</sup>	5,377	5,465	1.54	1.57	8	8	0.75	0.76	5,385	5,473
2003 <sup>c/</sup>	7,173	7,173	1.98	1.98	36	36	0.85	0.85	7,209	7,209

a/ Does not include pink salmon landings.

b/ Expressed in 2003 dollars.

c/ Preliminary.

TABLE IV-4. **Non-Indian troll chinook and coho landed in Washington, estimates of exvessel value, and average price (dollars per dressed pound).**<sup>a/</sup> (Page 1 of 1)

Year or Average	Chinook				Coho				Total <sup>b/</sup>	
	Nominal Value (thousands of dollars)	Real Value <sup>c/</sup> (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound <sup>c/</sup> (dollars)	Nominal Value (thousands of dollars)	Real Value <sup>c/</sup> (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound <sup>c/</sup> (dollars)	Nominal Value (thousands of dollars)	Real Value <sup>c/</sup> (thousands of dollars)
1971-1975	2,714	8,654	0.89	2.86	3,060	9,781	0.66	2.12	5,775	18,436
1976-1980	5,313	12,376	2.39	5.40	6,086	14,142	1.67	3.78	11,399	26,518
1981-1985	3,279	3,309	2.66	4.02	2,642	2,162	1.52	2.16	5,921	5,471
1986-1990	4,246	1,829	2.57	3.64	2,484 <sup>d/</sup>	1,327	1.34	1.96	6,730	3,703
1991	783	980	2.54	3.18	343	429	1.13	1.41	1,126	1,409
1992	1,200	1,467	2.41	2.95	99	121	1.33	1.62	1,299	1,589
1993	728	870	2.21	2.64	67	80	1.01	1.21	795	950
1994	e/	e/	e/	e/	-	-	-	-	e/	e/
1995	e/	e/	e/	e/	91	104	0.83	0.95	91	104
1996	e/	e/	e/	e/	59	66	0.86	0.97	e/	94
1997	125	138	1.55	1.72	-	-	-	-	125	138
1998	123	135	1.51	1.65	-	-	-	-	123	135
1999	377	407	1.90	2.05	19	21	0.88	0.95	396	427
2000	224	237	1.71	1.81	34	36	1.09	1.15	258	273
2001	349	360	1.44	1.49	34	35	0.69	0.71	383	395
2002	756	768	1.11	1.13	2	2	1.58	1.61	758	770
2003 <sup>f/</sup>	951	951	1.15	1.15	40	40	0.74	0.74	991	991

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/ Expressed in 2003 dollars.

d/ 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.

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

f/ 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). (Page 1 of 1)

Year or Ave. <sup>a/</sup>	Oregon				Washington				Total	
	Nominal Value (thousands of dollars)	Real Value <sup>b/</sup> (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound <sup>b/</sup> (dollars)	Nominal Value (thousands of dollars)	Real Value <sup>b/</sup> (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound <sup>b/</sup> (dollars)	Nominal Value (thousands of dollars)	Real Value <sup>b/</sup> (thousands of dollars)
1976-1980	167	3,982	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	c/	c/	0.62	0.74	5	6	0.54	0.64	5	6
1995	c/	c/	0.60	0.69	30	34	0.26	0.30	30	34
1997	c/	c/	0.56	0.62	c/	c/	0.20	0.22	c/	c/
1999	c/	c/	0.67	0.72	c/	c/	0.38	0.41	c/	c/
2001	1	1	0.58	0.60	c/	c/	0.22	0.23	1	1
2003 <sup>d/</sup>	c/	c/	0.85	0.85	c/	c/	0.30	0.30	c/	c/

a/ Odd-year averages.

b/ Expressed in 2003 dollars.

c/ Less than \$500.

d/ Preliminary.

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

Year or Average	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	State Total
<b>CHINOOK (thousands of dressed pounds)</b>						
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	417	2,408
2002	54	108	872	3,060	912	5,008
2003 <sup>c/</sup>	39	7	3,057	2,754	499	6,356
<b>COHO (thousands of dressed pounds)</b>						
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 <sup>c/</sup>	-	-	-	-	-	-

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

Year or Average	Astoria	Tillamook	Newport	Coos Bay	Brookings	State Total
<b>CHINOOK (thousands of dressed pounds)</b>						
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	86	460	182	28	761
1994	b/	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 <sup>c/</sup>	265	154	1,618	1,353	142	3,623
<b>COHO (thousands of dressed pounds)</b>						
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 <sup>c/</sup>	32	11	-	-	-	43

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

Year	Neah Bay	La Push	Westport	Ilwaco	Coastal Community Total	Puget Sound	State Total <sup>c/</sup>
<b>CHINOOK (thousands of dressed pounds)</b>							
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 <sup>d/</sup>	-	-	-	-	-	7	7
1995 <sup>d/</sup>	-	-	3	-	3	12	15
1996 <sup>d/</sup>	-	-	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 <sup>e/</sup>	199
2000	85	1	38	8	131		131
2001	97	0	138	6	241	0	241
2002	262	53	322	61	678	0	678
2003 <sup>f/</sup>	470	67	243	29	810	12	821
<b>COHO (thousands of dressed pounds)</b>							
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 <sup>f/</sup>	11	12	21	8	52	2	54

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.

f/ Preliminary

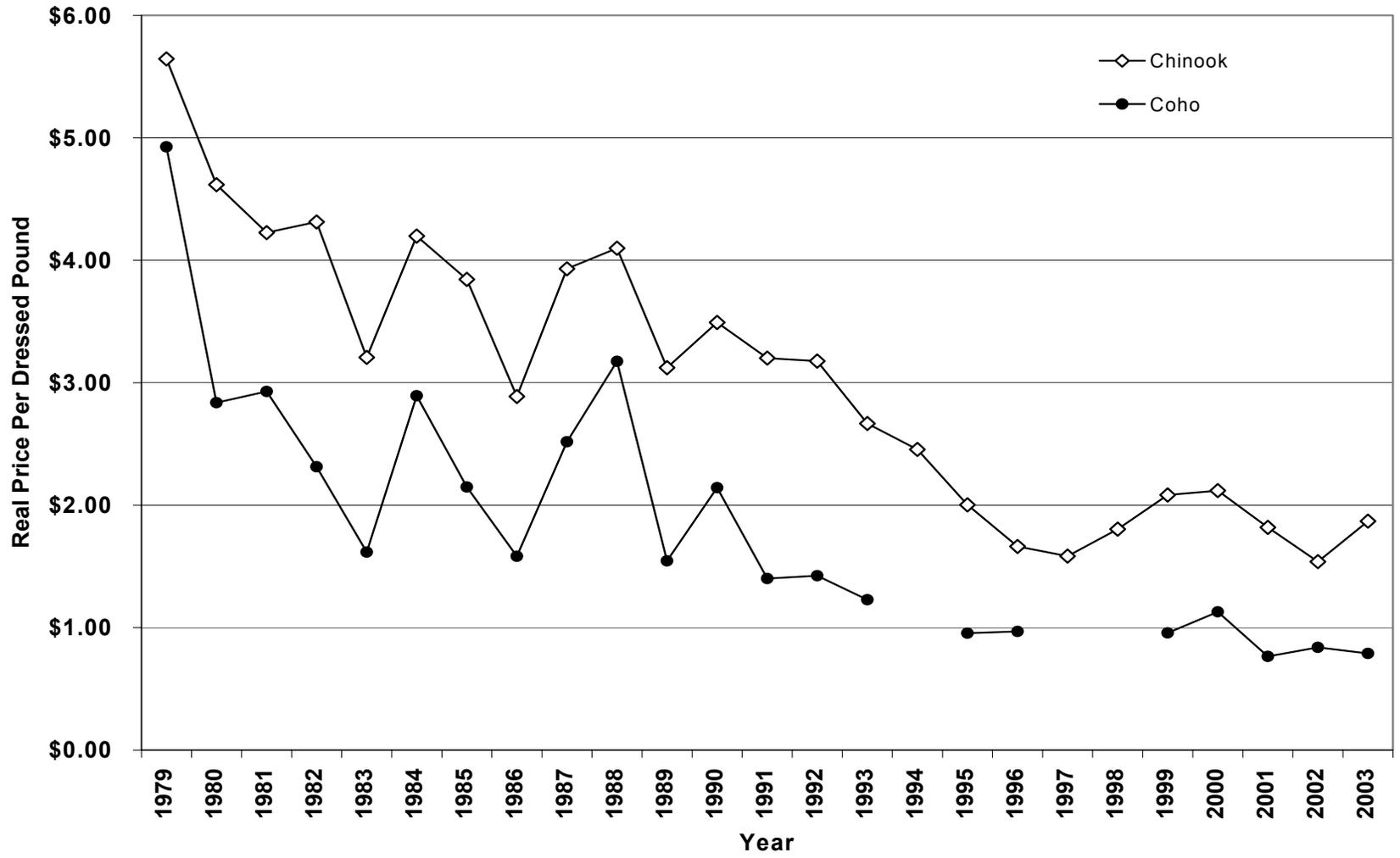


Figure IV-3. West Coast non-Indian ocean commercial salmon annual exvessel price trends (2003 dollars).

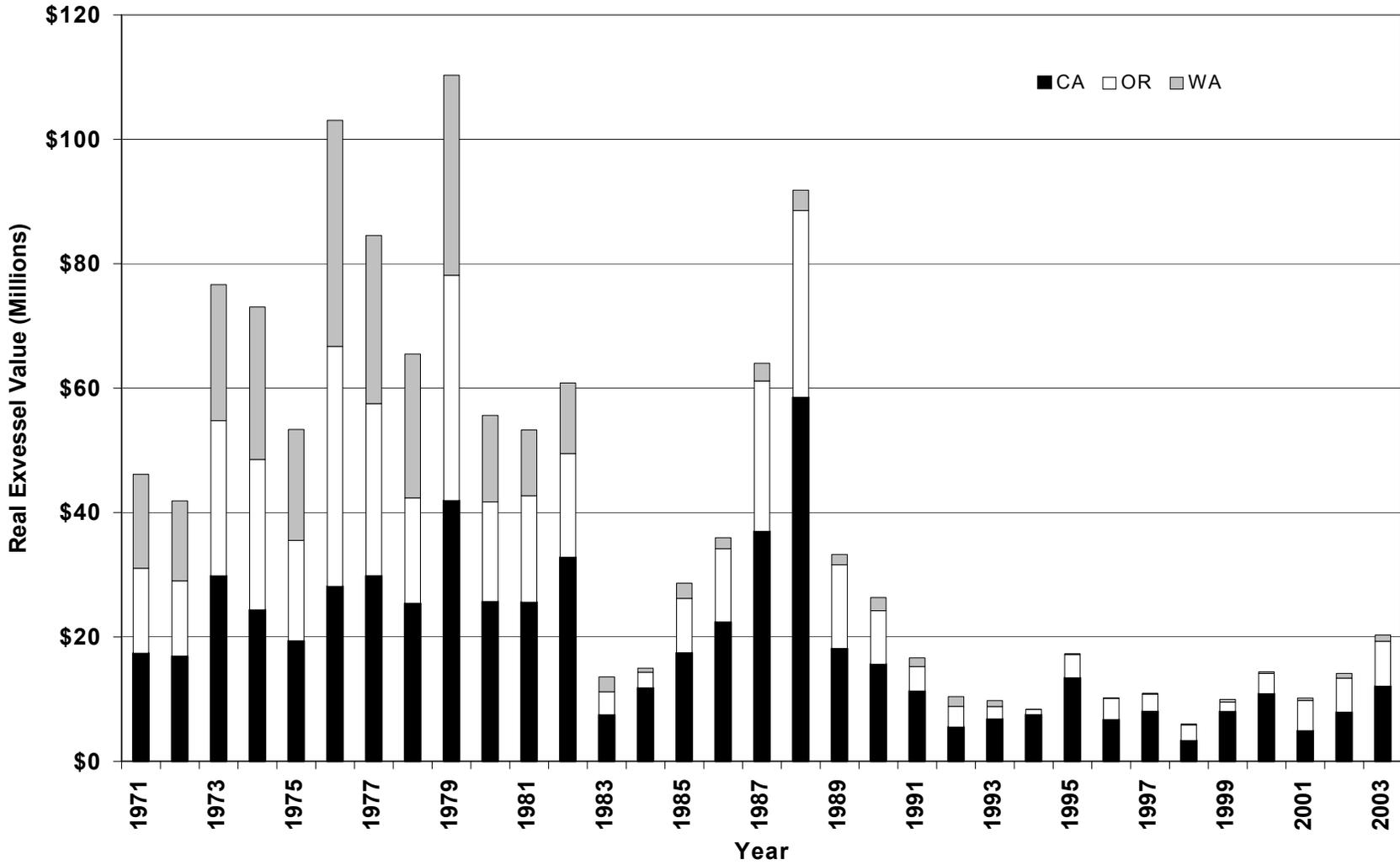


Figure IV-4. Exvessel value of West Coast non-Indian ocean commercial chinook and coho landings by state of landing (2003 dollars).

## **Ocean Commercial Salmon Harvesters**

Based on Pacific Coast Fisheries Information Network (PacFIN) data 1,120 vessels participated in the West Coast commercial salmon fishery in 2003, down 6% from the 2002 count of 1,187 vessels. The coastwide vessel counts from PacFIN are less than the totals derived from summing 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 catching salmon from the individual state tables in Appendix D results in counts of vessels of 1,155 for 2003 and 1,250 for 2002. The following information is based on the state specific data reported in Appendix D. Compared to 2002, the active fleet in California decreased by 126 vessels (18%) to 582 vessels (Table D-4). The active fleet in Oregon increased by 24 vessels (5%) to 491 vessels (Table D-5). The active fleet in Washington increased by 7 vessels (9%) to 82 vessels (Table D-6).

Coastwide, the number of limited entry salmon permits issued decreased by 64 (3%), to 2,840 permits. Landings were made on 41% of all permits in 2003, approximately the same proportion as in the previous three years. 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. During the first ten years in which there was a moratorium on the issuance of salmon permits in all three West Coast states (1982 through 1991) there was an average of 8,419 permits of which an average of 5,765 (68%) were used on an annual basis.

Coastwide in 2003, average per vessel exvessel value of salmon landings increased 55% compared to 2002 (adjusted for inflation), to \$17,567 per vessel. This was the highest average per vessel for the time series, which begins in 1978 (adjusted for inflation). Compared to 2002, per vessel, average exvessel values per vessel increased in all three states, California (up 86%), Oregon (up 25%), and Washington (up 18%). 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 as by change in the average revenues of those remaining in the fishery from one year to the next.

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.

### **West Coast Treaty Indian Commercial Ocean Fishery**

Treaty Indian commercial ocean fisheries off Washington are allocated a share of the total ocean salmon harvest. Some of the treaty Indian harvest is for ceremonial and subsistence purposes; however, there is also a 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 34,800 chinook (435,500 pounds) and 11,100 coho (63,400 pounds) in 2003, compared to 39,400 chinook (445,100 pounds) and 17,700 coho (101,700 pounds) in 2002 (Tables A-15 and D-3). In PacFIN, the preliminary exvessel value for chinook and coho in 2003 is \$508,500 and the real (inflation adjusted) exvessel value for 2002 is \$443,000.

### **Columbia River Commercial Fishery**

Harvest in the ocean salmon fisheries impact inriver fisheries by its effect on the amount of fish available for inside treaty Indian and non-Indian harvest. Information is presented in Table IV-9 on the exvessel value of Columbia River commercial harvest of chinook, coho, and chum. All prices and values in the table and the

TABLE IV-9. **Exvessel values** (expressed in 2003 dollars) of inriver **commercial** harvest of **Columbia River** salmon.<sup>g/</sup> (Page 1 of 1)

Fishery	Species	Average Price Per Landed Pound <sup>h/</sup> (dollars)						Exvessel Value (thousands of dollars)						Pounds (thousands)					
		1988- 1998	1999	2000	2001	2002 <sup>cl</sup>	2003 <sup>cl</sup>	1988- 1998	1999	2000	2001	2002 <sup>cl</sup>	2003 <sup>cl</sup>	1988- 1998	1999	2000	2001	2002 <sup>cl</sup>	2003 <sup>cl</sup>
<b>OREGON</b>																			
Non-Indian <sup>j/</sup>	Chinook																		
Gillnet	Spring	3.84	3.03	2.85	2.72	3.00	2.56	411	86	241	606	948	378	97	28	85	222	316	147
	Fall	1.35	1.33	1.15	0.71	0.55	0.70	1,996	95	114	120	193	402	955	72	100	169	349	574
	Tules	0.41	0.21	0.20	0.13	0.11	0.10	117	3	3	14	27	17	174	17	16	104	255	174
	Coho	1.29	0.91	0.56	0.29	0.33	0.51	1,118	425	534	382	379	776	661	469	949	1,323	1,148	1,522
	Chum	0.42	0.25	0.32	0.30	0.35	0.00	0	<sup>k/</sup>	1	<sup>e/</sup>	<sup>e/</sup>	0	2	<sup>e/</sup>	4	<sup>e/</sup>	<sup>e/</sup>	0
	TOTAL							3,642	609	894	1,122	1,547	1,573	1,889	586	1,154	1,819	2,069	2,417
Treaty <sup>l/</sup>	Chinook																		
All Gears	Spring	3.09	0.00	2.98	1.41	1.23	4.00	2	0	2	35	17	5	<sup>e/</sup>	0	1	25	14	1
	Fall	1.27	0.91	0.87	1.03	0.84	0.68	835	69	102	7	4	13	459	76	117	7	5	19
	Tules	0.32	0.11	0.12	0.41	0.21	0.00	21	6	6	<sup>e/</sup>	<sup>e/</sup>	0	80	51	49	1	1	0
	Coho	0.86	0.77	0.65	0.41	0.00	0.00	6	3	5	<sup>e/</sup>	0	0	5	4	8	1	0	0
	TOTAL							865	77	115	42	21	18	545	131	175	32	20	20
<b>WASHINGTON<sup>m/</sup></b>																			
Non-Indian	Chinook																		
Gillnet	Spring	4.09	3.04	5.12	3.92	4.30	4.09	228	<sup>e/</sup>	16	138	300	80	51	<sup>e/</sup>	3	35	70	20
	Fall <sup>n/</sup>	1.29	1.11	0.99	0.56	0.47	0.58	747	91	138	68	101	258	388	82	138	122	215	448
	Coho	1.30	0.91	0.53	0.27	0.33	0.56	440	195	270	251	179	449	274	215	504	934	538	799
	Chum	0.39	0.25	0.12	0.19	0.19	0.15	1	<sup>e/</sup>	<sup>e/</sup>	<sup>e/</sup>	<sup>e/</sup>	<sup>e/</sup>	1	1	3	1	<sup>e/</sup>	<sup>e/</sup>
	TOTAL							1,416	287	424	457	579	787	715	298	648	1,093	823	1,267
Treaty Indian	Chinook																		
All Gears <sup>f/o/</sup>	Spring	4.28	4.32	2.02	1.31	1.20	1.07	6	<sup>e/</sup>	54	289	222	142	2	<sup>e/</sup>	27	221	185	133
	Fall <sup>h/</sup>	0.98	0.58	0.61	0.25	0.18	0.18	1,174	357	314	323	286	292	826	613	509	1,306	1,587	1,607
	Coho	0.94	0.77	0.44	0.10	0.13	0.11	16	8	13	7	3	2	12	11	30	68	22	23
	TOTAL							1,196	365	381	620	511	437	840	623	566	1,594	1,794	1,762
Columbia River Total								7,119	1,338	1,814	2,242	2,658	2,815	3,989	1,638	2,543	4,538	4,706	5,466

g/ Excluding pink and sockeye salmon, and steelhead.

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

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

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

k/ Less than \$500 or 500 pounds.

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

m/ 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.

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

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

following discussion are in real (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.

The total 2003 exvessel value for commercial salmon harvested in the Columbia River was \$2.8 million, 6% above the 2002 level. The total 2003 exvessel value for non-Indian commercial salmon harvested in the Columbia River was \$2.4 million. This value is 11% above the 2002 level, but was still 53% below the value of the 1987 through 1998 average harvest. The total 2003 exvessel value for treaty Indian salmon harvested in the Columbia River and sold on fish tickets was \$455,000. This value is 14% below the 2002 value, and 78% below the value of the 1987 through 1998 average harvest. These values represent 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. The volume of sales to the public has increased substantially in recent years.

### **Other Inside Commercial Fisheries**

#### **Puget Sound and Washington Coastal Inside Fisheries**

Information on 2003 values for Puget Sound and Washington coastal inside fisheries is incomplete. Based on PacFIN data, the 1981 through 2002 real (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 \$17.8 million. Of this, an average of \$4.6 million was for chinook and coho. For 2002, the total real exvessel values for the commercial non-Indian salmon fisheries in these areas were \$3.3 million for all salmon species and \$0.5 million for chinook and coho. The preliminary values for 2003 are: \$2.0 million for all salmon species and \$0.6 million for chinook and coho.

The 1981 through 2002 real (inflation adjusted) average exvessel value reported for all salmon species taken in the commercial treaty Indian fisheries in these areas was \$21.4 million. Of this, an average of \$7.6 million was for chinook and coho. For 2002, the total real exvessel values for the commercial non-Indian fisheries in these areas were \$7.4 million for all salmon species and \$2.3 million for chinook and coho. The preliminary values for 2003 are \$4.7 million for all salmon species and \$1.8 million for chinook and coho.

#### **Klamath River Fisheries**

From 1987 through 1989, 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, Table B-5). 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, \$1.1 million adjusted to 2003 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, \$590,900 adjusted to 2003 dollars). The average per fish weight 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 on their own. The commercial harvest was 2,100 chinook in 1999, 4,100 chinook in 2000 and over 10,000 chinook in 2001 and 2002.

### **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. The amounts 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 number of vessel-based ocean salmon recreational angler trips taken on the West Coast in 2003 (396,800 angler trips) decreased 4% from 2002, and was 27% less than the 1976 through 2002 average. The preliminary estimate of the number of 2003 trips decreased by 37% in California, increased by 34% in Oregon, and increased by 27% in Washington compared to 2002 (Figure IV-5).

Recreational salmon fishing takes place primarily in one of 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. In 2003, the proportion of angler trips taken on charter vessels was generally stable and comparable to recent years with slight increases in California and Oregon and a slight decrease in Washington compared to 2002 (Figure IV-5 and Table IV-10). Tables IV-11, IV-12, and IV-13 break out effort by port area and mode for each state.

#### California

The preliminary estimate of ocean salmon angler effort in California (132,300 angler trips) decreased 37% in 2003 compared to 2002 (Table IV-10) and was 31% below the 1976 through 2002 average. Effort decreased in all areas and most dramatically in Monterey where effort was down 59%. From 1997 through 2003, the share of trips on charter vessels ranged between 40% and 44%.

Angler success rates, measured in retained salmon per angler trip, decreased 19% to 0.70 salmon per day in 2003, compared to 0.87 salmon per day in 2002. In 2002 and 2003, anglers on charter vessels landed about 0.20 salmon more per day than anglers fishing from private vessels (the difference in 2001 was 0.03 fish). The average differential between charter and private boat angler success rates from 1976 through 2000 was 0.46 salmon per day.

#### Oregon

Ocean recreational salmon based angler trips in Oregon (144,500 angler trips) was up 34% in 2003, as compared to 2002 levels. Increases occurred in all ports areas except Brookings. The charter industry share of the Oregon recreational fishery increased slightly to 16% (Figure IV-5 and Table IV-12).

Over the ten years 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 lower-than-average angler success rates. With the opportunity to retain coho in mark-selective fisheries south of Cape Falcon starting in 1999, retained salmon per angler day increased to 0.43 (in 1999), up from 0.25 in 1998. From 2000 through 2003, retained salmon per angler day ran between 0.75 and 1.1 salmon per angler day. Retained chinook per angler day declined in 2003 compared to 2002; however, there was an increase in the retained coho rate bringing the overall success rate up from 0.77 retained salmon per angler day in 2002 to 1.07 retained salmon per angler day in 2003 (1.39 salmon per day in the charter sector, and 1.01 salmon per day in the private vessel sector).

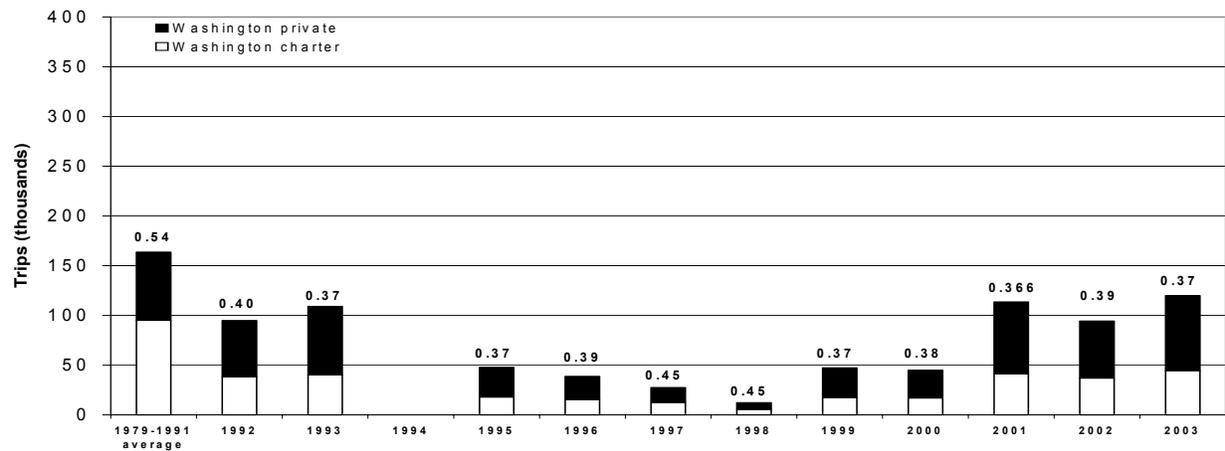
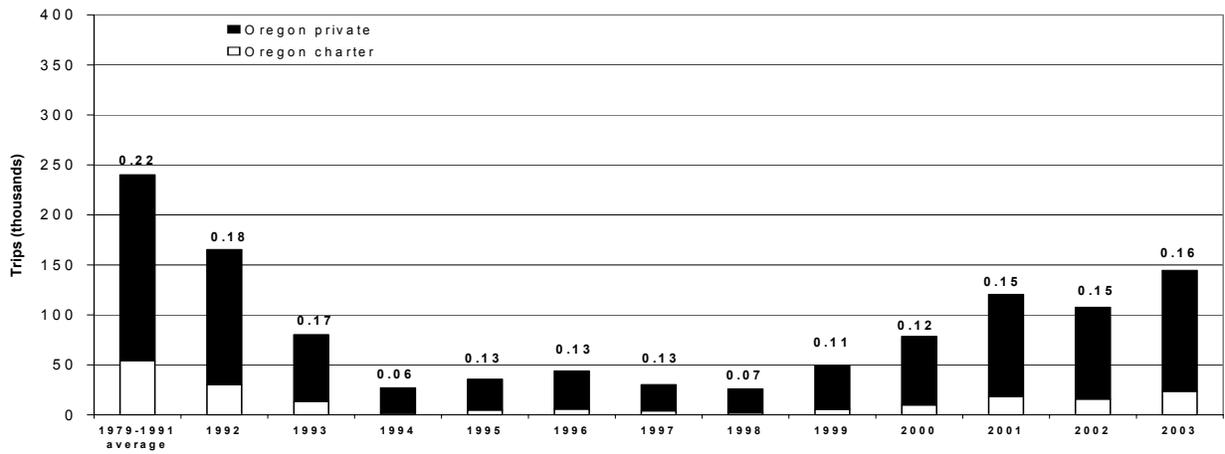
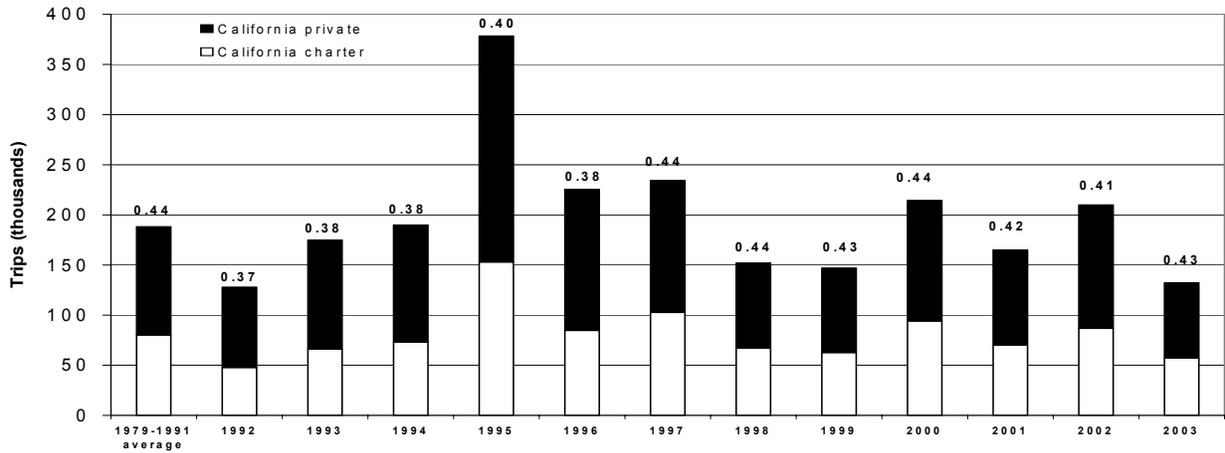


Figure IV-5. Total recreational ocean salmon trips for California, Oregon, and Washington, with proportion of charter trips shown above each bar.

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 <sup>IV</sup>		Coho Catch <sup>aV</sup>	
	Charter	Private	Charter	Private	Charter	Private
<b>CALIFORNIA</b>						
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 <sup>d/</sup>	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 <sup>d/</sup>	57.0	75.3	46.7	46.4	b/	0.6
<b>OREGON<sup>a/r/</sup></b>						
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	8.0	39.0	9.0	27.0
2003 <sup>c/</sup>	23.4	121.1	8.8	31.8	23.7	90.0

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 <sup>n/</sup>		Coho Catch <sup>o/</sup>	
	Charter	Private	Charter	Private	Charter	Private
<b>WASHINGTON<sup>s/t/</sup></b>						
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 <sup>c/</sup>	44.5	75.5	16.0	18.1	53.4	84.9

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
<b>CHARTER TRIPS (thousands)</b>						
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	43.3	15.4	69.9
2002	-	1.6	10.7	54.9	19.4	86.6
2003 <sup>b/</sup>	-	1.0	7.8	37.6	10.6	57.0
<b>PRIVATE TRIPS (thousands)</b>						
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 <sup>b/</sup>	2.2	12.5	15.5	27.9	17.1	75.3
<b>TOTAL TRIPS (thousands)</b>						
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 <sup>b/</sup>	2.2	13.6	23.3	65.5	27.7	132.3

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
<b>CHARTER TRIPS (thousands)</b>						
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 <sup>a/</sup>	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 <sup>c/</sup>	3.9	2.0	13.0	4.0	0.5	23.4
<b>PRIVATE TRIPS (thousands)</b>						
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 <sup>a/</sup>	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 <sup>c/</sup>	15.4	26.0	26.5	38.9	14.3	121.1
<b>TOTAL TRIPS (thousands)</b>						
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 <sup>a/</sup>	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 <sup>c/</sup>	19.3	28.0	39.6	42.9	14.8	144.5

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 <sup>a/</sup>	La Push	Westport	Columbia River <sup>b/</sup>	Coastal Area Total
<b>CHARTER TRIPS (thousands)</b>					
1984 <sup>c/</sup>	0.3	0.0	11.6	18.0	29.9
1985 <sup>c/</sup>	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 <sup>e/</sup>	2.0	0.9	27.3	14.3	44.5
<b>PRIVATE TRIPS (thousands)</b>					
1984 <sup>c/</sup>	8.3	0.2	2.3	36.0	46.8
1985 <sup>c/</sup>	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 <sup>e/</sup>	18.4	3.5	20.7	32.9	75.5
<b>TOTAL TRIPS (thousands)</b>					
1984 <sup>c/</sup>	8.6	0.2	13.9	54.0	76.7
1985 <sup>c/</sup>	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 <sup>e/</sup>	20.4	4.4	48.0	47.1	120.0

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.

## **Washington**

In 2003, 120,000 ocean angler trips were taken on vessels on the Washington coast, an increase of 27% from 2002, and well above effort levels generally observed since 1990. The high level of activity over the last five years, as compared to the mid-1990s, is primarily related to management under mark-selective fishery regulations for coho. The proportion of angler trips made from charter vessels was relatively stable, decreasing slightly from 39% in 2002 to 37% in 2003 (Figure IV-5 and Table IV-13).

The angler success rates (in terms of retained fish per angler trip) increased to 1.44 retained salmon per angler day, compared to 1.40 retained salmon per angler day in 2002. The 1979 through 2002 average is 1.42 salmon per trip. Not included in these figures is angler effort which occurs from the ocean side of the Columbia River jetty and angler effort in the state managed Area 4B add-on fishery (which has not occurred since 2000).

Partial week closures were used in the recreational fishery north of Cape Falcon beginning in 1985 in an attempt to encourage increased angler participation in non-salmon recreational fishing and to extend the salmon season. Beginning in 1996, the Sunday through Thursday openings were used only in the Westport and Columbia River port areas, and the fishery has been open seven days a week in the Neah Bay and La Push areas. Bottomfish effort in the Neah Bay and La Push area did not drop when the salmon fishery for these port areas switched from partial week openings to seven-day-a-week openings (Table IV-14). In 2003, Westport and Columbia River areas switched from partial week openings to seven-day-a-week openings beginning on July 24th. Relative to 2002, bottomfish trips in 2003 increased in these ports as well as other port areas on the Washington coast (bottomfish trips are reported for Washington only).

### **Buoy 10 and Area 4B Add-On Fisheries**

Angler retention rates in the Buoy 10 fishery increased from 0.31 salmon per day in 2002 to 0.80 salmon per day in 2003. Effort in 2003 was up 5%, compared to 2002, to 88,800 trips (including trips made from the jetty by bank anglers when the ocean fishery was closed, Table IV-15).

In 2000, 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 which are not addressed in this chapter of the review; see Appendix B for some indication of harvest in these other fisheries.

## **SALMON FISHERY INCOME IMPACTS AND COMMUNITY DEPENDENCE**

Coastal community impacts are presented to provide information on the effects of regulations on local economies and small businesses. Income impact estimates per commercial pound and per recreational day were generated using the Fishery Economic Assessment Model. Reference information on the model is available from the Council.

### **Interpretation of State and Coastal Community Income Impacts**

Estimated state and community income impacts of commercial and recreational ocean salmon fisheries and selected state-managed fisheries are shown in Tables IV-16 through IV-20. The impacts presented are estimates of total personal income associated with activity in the commercial and recreational salmon fisheries in counties and states. Income impact estimates are based on the landings in the area, an inventory of the fleet

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
<b>SALMON EFFORT (thousands)</b>														
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 <sup>9/</sup>	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

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
<b>BOTTOMFISH EFFORT (thousands)<sup>h/</sup></b>														
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	a/	1.6	1.6	4.1	19.2	23.3
1996 <sup>ij/</sup>	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 <sup>b/</sup>	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

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
<b>STURGEON EFFORT (thousands of trips)<sup>k/</sup></b>														
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 <sup>b/</sup>	6.6	38.1	44.7	-	44.7	-	-	-	-	-	-	-	-	-

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.<sup>a/</sup> (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
<b>OREGON BUOY 10</b>											
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 <sup>b/</sup>	836	27,492	2,129	26	3,083	4	297	7,523	295	0	0
2001 <sup>b/</sup>	1,616	54,444	4,115	47	5,578	10	1,481	56,403	523	0	0
2002 <sup>b/</sup>	512	39,943	1,589	31	10,759	0	2	3,060	52	0	0
2003 <sup>c/</sup>	991	45,461	2,315	47	7,903	0	624	28,518	526	0	0
<b>WASHINGTON BUOY 10</b>											
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 <sup>b/</sup>	3,685	36,268	2,108	286	2,626	60	2,123	11,033	207	0	0
2001 <sup>b/</sup>	2,765	62,944	0	283	6,791	0	3,282	70,349	0	0	0
2002 <sup>b/</sup>	1,001	40,927	485	232	8,424	26	98	3,023	0	0	0
2003 <sup>b/c/</sup>	216	39,844	0	22	8,322	0	139	8,466	0	0	0

TABLE IV-15. Buoy 10 and Area 4B add-on recreational salmon angler trips and catch by boat type.<sup>a/</sup> (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
<b>TOTAL BUOY 10</b>											
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 <sup>b/</sup>	4,521	63,760	4,237	312	5,709	64	2,420	18,556	502	0	0
2001 <sup>b/</sup>	4,381	117,388	4,115	330	12,369	10	4,763	126,752	523	0	0
2002 <sup>b/</sup>	1,513	80,870	2,074	263	19,152	26	100	6,081	52	0	0
2003 <sup>b/c/</sup>	1,207	85,305	2,315	69	16,225	0	763	36,984	526	0	0
<b>TOTAL AREA 4B ADD-ON<sup>d/</sup></b>											
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 <sup>e/</sup>	-	-	-	-	-	-	-	-	-	-	-
2000 <sup>c/</sup>	373	3,046	-	0	8	-	614	3,796	-	0	0
2001 <sup>f/</sup>	-	-	-	-	-	-	-	-	-	-	-
2002 <sup>f/</sup>	-	-	-	-	-	-	-	-	-	-	-
2003 <sup>c/</sup>	-	-	-	-	-	-	-	-	-	-	-

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.

TABLE IV-16. Estimates of **California coastal community and state personal income** impacts of the troll and recreational ocean salmon fishery for major port areas.<sup>a/</sup> (Page 1 of 1)

Year or Average	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	Coastal Community Total <sup>b/</sup>	State Total
<b>OCEAN TROLL (thousands of dollars)<sup>c/</sup></b>							
1976-1980	5,590	14,200	13,924	18,266	7,840	59,821	76,907
1981-1985	2,832	3,417	7,997	15,095	5,144	34,485	42,935
1986-1990	1,067	2,640	14,047	27,276	10,199	55,229	67,781
1991-1995	9	125	883	10,271	5,852	17,140	20,655
1996-2000	8	143	393	10,328	6,510	17,382	18,371
2001	12	255	838	8,639	1,866	11,611	12,060
2002	222	425	3,027	12,591	3,391	19,656	20,881
2003 <sup>d/</sup>	185	31	12,151	12,840	2,029	27,236	30,272
<b>RECREATIONAL (thousands of dollars)</b>							
1976-1980	1,087	1,260	734	11,029	739	14,848	16,655
1981-1985	1,191	1,227	588	9,767	780	13,553	15,255
1996-1990	2,017	2,102	1,025	11,937	3,207	20,288	23,644
1991-1995	731	788	1,189	10,097	4,835	17,640	20,713
1996-2000	340	624	1,215	10,123	4,447	16,749	19,480
2001	428	886	2,148	7,800	2,820	14,082	16,557
2002	191	976	2,263	9,788	4,514	17,732	20,865
2003 <sup>d/</sup>	108	737	1,652	6,992	2,015	11,503	13,338

a/ Expressed in 2003 dollars. 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 of the troll and recreational ocean salmon fishery for major port areas.<sup>a/</sup> (Page 1 of 1)

Year or Average	Astoria	Tillamook	Newport	Coos Bay	Brookings <sup>b/</sup>	Coastal Community Total <sup>c/</sup>	State Total
<b>OCEAN TROLL (thousands of dollars)<sup>d/</sup></b>							
1976-1980	3,589	4,620	10,839	16,674	6,935	42,656	57,839
1981-1985	1,162	1,498	3,509	6,183	2,686	15,037	20,436
1986-1990	538	3,137	6,980	13,499	2,549	26,704	35,990
1991-1995	75	585	2,398	1,164	119	4,341	5,854
1996-2000	122	244	2,538	1,454	347	4,706	5,761
2001	312	638	4,777	2,510	515	8,752	10,653
2002	894	750	4,090	3,616	654	10,004	12,126
2003 <sup>e/</sup>	879	797	5,263	4,832	569	12,340	14,927
<b>RECREATIONAL (thousands of dollars)</b>							
1976-1980	3,057	2,277	4,225	5,599	3,689	18,846	24,932
1981-1985	1,777	1,397	3,336	3,402	3,689	12,279	16,297
1986-1990	1,216	1,483	4,616	3,362	3,689	13,143	17,515
1991-1995	826	648	1,468	1,310	3,689	5,178	6,862
1996-2000	320	364	359	397	3,689	2,197	2,917
2001	1,298	774	1,504	1,540	1,083	6,198	8,013
2002	722	1,120	1,174	1,672	807	5,496	7,118
2003 <sup>e/</sup>	1,092	1,290	2,423	2,116	620	7,540	9,722

a/ Expressed in 2003 dollars. 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.<sup>a/</sup> (Page 1 of 1)

Year or Average	Neah Bay	La Push	Westport	Columbia River <sup>b/</sup>	Coastal Community Total <sup>c/d/</sup>	Puget Sound	State Total
<b>OCEAN TROLL (thousands of dollars)<sup>e/f/</sup></b>							
1976-1980	5,182	7,076	15,615	5,024	32,897	6,974	49,950
1981-1985	1,019	413	4,290	920	6,641	1,488	9,740
1986-1990	564	148	1,975	385	3,073	863	4,697
1991-1995 <sup>g/</sup>	416	92	660	42	1,211	167	1,683
1996-2000	140	3	140	16	299	86	453
2001	244	0	442	36	721	0	892
2002	529	69	770	155	1,522	0	1,852
2003 <sup>h/</sup>	964	163	661	117	1,904	37	2,365
<b>RECREATIONAL (thousands of dollars)</b>							
1976-1980	2,068	1,097	11,853	4,649	19,667	-	26,712
1981-1985	1,908	224	8,316	3,893	14,341	-	19,517
1986-1990	888	101	4,250	2,291	7,530	-	10,199
1991-1995	472	92	2,623	1,330	4,517	-	6,107
1996-2000	250	68	1,228	601	2,147	-	2,894
2001	814	158	3,567	2,311	6,851	-	9,319
2002	646	163	3,154	1,895	5,857	-	7,953
2003 <sup>h/</sup>	956	228	3,595	2,506	7,285	-	9,922

a/ Expressed in 2003 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 fishery was closed north of Cape Falcon. Some commercial catch taken south of Cape Falcon was landed in the Puget Sound area.

h/ Preliminary.

TABLE IV-19. Local **personal income impacts** of the **commercial** salmon gillnet fishery on **Oregon and Washington Columbia River** communities.<sup>a/</sup> (Page 1 of 1)

Species <sup>b/</sup>		1988-1998	1999	2000	2001	2002	2003 <sup>c/</sup>
<b>OREGON</b>							
Non-Indian	Chinook						
Gillnet	Spring	741	165	457	1,181	1,835	753
	Fall Brights	3,668	219	277	263	481	887
	Tules	217	21	19	115	273	182
	Coho	2,034	980	1,584	1,765	1,592	2,408
	Chum	1	d/	5	d/	d/	0
	<b>TOTAL</b>	<b>6,662</b>	<b>1,386</b>	<b>2,342</b>	<b>3,324</b>	<b>4,181</b>	<b>4,230</b>
Treaty Indian	Chinook						
All Gears	Spring	3	0	6	81	42	9
	Fall Brights	1,533	185	275	10	7	29
	Tules	81	57	54	1	1	0
	Coho	13	8	14	1	0	0
	<b>TOTAL</b>	<b>1,630</b>	<b>250</b>	<b>349</b>	<b>93</b>	<b>51</b>	<b>38</b>
<b>WASHINGTON</b>							
Non-Indian	Chinook						
Gillnet	Spring	409	d/	29	247	547	147
	Fall	1,472	216	360	168	247	624
	Coho	799	449	823	1,223	747	1,313
	Chum	2	1	3	1	d/	d/
	<b>TOTAL</b>	<b>2,682</b>	<b>667</b>	<b>1,215</b>	<b>1,639</b>	<b>1,568</b>	<b>2,084</b>
Treaty Indian	Chinook						
All Gears	Spring	10	d/	113	689	551	359
	Fall	2,403	1,196	1,005	1,305	1,462	1,467
	Coho	31	21	46	76	26	25
	<b>TOTAL</b>	<b>2,444</b>	<b>1,217</b>	<b>1,164</b>	<b>2,069</b>	<b>2,038</b>	<b>1,852</b>
<b>GRAND TOTAL</b>							
Non-Indian		9,344	2,053	3,557	4,963	5,749	6,314
Treaty Indian		4,074	1,467	1,513	2,162	2,089	1,890
Columbia River		13,418	3,520	5,070	7,125	7,838	8,204

a/ Expressed in 2003 dollars. 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.

TABLE IV-20. Local personal income impacts of the **Buoy 10 recreational** fishery in **Oregon and Washington** and the **Area 4B add-on** fishery in Washington. (Page 1 of 1)

Year	Total Angler Trips (thousands)	Income Impacts (thousands of dollars) <sup>e/</sup>		
		Oregon	Washington	Total
<b>BUOY 10 (including bank fishing)</b>				
1987-1990	136	2,248	4,488	6,736
1991-1995	79	1,279	2,481	3,759
1996-2000	45	819	1,277	2,096
2001	126	2,677	2,986	5,664
2002	84	1,832	1,878	3,710
2003 <sup>f/</sup>	89	2,150	1,728	3,878
<b>AREA 4B ADD-ON<sup>g/</sup></b>				
1989-1990	12		555	555
1991-1995 <sup>d/</sup>	6		259	259
1996-2000	3		116	116
2001 <sup>h/</sup>	-		-	-
2002 <sup>d/</sup>	-		-	-
2003 <sup>b/d/</sup>	-		-	-

e/ Expressed in 2003 dollars.

f/ Preliminary.

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

h/ There was no Area 4B add-on fishery in 1994, 2001, 2002, or 2003.

and processors, estimates of fleet and processor expenditures, surveys of the expenditure patterns of recreational fishers, and income coefficients from the U.S. Forest Service IMPLAN model. 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 estimate of state impacts.

The numbers presented here are estimates of annual trends and the possible redirection of money between nonfishing-dependent and fishing-dependent sectors; they are likely an upper bounds on the local community and state income impacts which may have been generated by West Coast ocean salmon fisheries. Income impact estimates for some inside fisheries are also presented. All income impact estimates in this review are reported in real (inflation adjusted) 2003 dollars.

### **West Coast Ocean Fishery Income Impacts**

The total state level income impact associated with the recreational and commercial ocean salmon fisheries for all three states combined was \$80.5 million in 2003. These impacts were 14% above the 2002 level and well over twice the 1998 historic low of \$32.5 million, but 36% below the 1976 through 2002 average in real dollars (Tables IV-16 through IV-20). State level income impacts related to the 2003 non-Indian commercial ocean fishery (\$47.6 million) were up 36% compared to 2002, but were 40% below the 1976 through 2002 average.<sup>1/</sup> Impacts related to the 2003 ocean recreational fishery (\$33.0 million) were down 8% compared to 2002, and were 27% below the 1976 through 2002 average (all comparisons are adjusted for inflation). These coastwide values, while low compared to historic averages, do not reveal the greater reductions that have occurred in particular communities.

### **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 2003, income impacts associated with the Columbia River commercial catch are estimated to be \$8.2 million, compared to \$7.8 million in 2002, and a 1987 through 1998 average of \$13.4 million (inflation adjusted, Table IV-19).

#### **Buoy 10 and Area 4B Add-On**

Estimated local community income impacts associated with the 2003 Buoy 10 fishery (\$3.9 million) were 5% above 2002 levels and 5% below the 1987 through 2002 real (inflation adjusted) average of \$4.1 million (Table IV-20). There has not been a late season Area 4B add-on fishery since after 2000 because there was substantial fishing opportunity in the ocean areas. In 2000, the state level income impacts associated with the Area 4B add-on fishery was \$161,000, adjusted for inflation (Table IV-20).

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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.

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# 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
<b>DAYS FISHED (thousands)</b>							
1978-1980 <sup>a/</sup>	17.0	18.4	21.9	21.1	16.5	-	95.0
1981-1985	5.9	6.4	13.8	22.1	11.5	-	59.8
1986-1990	0.6	1.6	16.4	25.6	14.4	b/	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/	17.3
2003 <sup>c/</sup>	0.1	0.1	6.1	6.6	2.7	b/	15.6
<b>CHINOOK (thousands)</b>							
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	-	193.0
2002	3.7	9.0	65.3	242.9	70.0	0.8	391.7
2003 <sup>c/</sup>	1.5	0.7	245.4	203.0	36.2	2.0	488.8
<b>COHO (thousands)</b>							
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 <sup>c/</sup>	-	-	-	-	-	-	-

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
<b>DAYS FISHED (thousands)</b>								
<u>Crescent City<sup>a/</sup></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 <sup>d/</sup>	c/	c/	c/	-	-	0.1	c/	0.1
<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 <sup>d/</sup>	-	-	-	-	-	0.1	-	0.1
<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 <sup>d/</sup>	-	1.0	-	1.4	2.3	1.3	-	6.1

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
<b>DAYS FISHED (thousands)</b>								
<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	2.8	1.2	1.1	0.1	9.1
2003 <sup>d/</sup>	-	1.1	2.2	1.4	1.2	0.7	0.1	6.6
<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 <sup>d/</sup>	-	1.0	0.5	0.8	0.2	0.3	-	2.7
<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	1.5	3.1	1.4	2.6	0.5	13.9
2002	-	4.2	3.2	4.6	2.9	2.2	0.1	17.3
2003 <sup>d/</sup>	c/	3.1	2.6	3.6	3.7	2.5	0.1	15.6

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
<b>CHINOOK (thousands)</b>									<b>COHO (thousands)</b>							
<b>Monterey</b>																
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 <sup>d/</sup>	-	11.1	9.5	13.7	0.8	1.1	-	36.2	-	-	-	-	-	-	-	-
<b>Total Statewide</b>																
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	193.0	-	-	-	-	-	-	-	-
2002	-	86.1	93.2	128.0	59.0	24.4	0.9	391.7	-	-	-	-	-	-	-	-
2003 <sup>d/</sup>	1.6 <sup>c/</sup>	73.2	104.0	123.5	110.6	73.7	2.1	488.8	-	-	-	-	-	-	-	-

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
<b>ANGLER TRIPS (thousands)</b>											
<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 <sup>b/</sup>	-	-	-	0.3	0.5	0.5	0.5	0.3	-	-	2.2
<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 <sup>b/</sup>	-	-	-	2.2	3.1	2.9	4.2	1.2	-	-	13.6
<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 <sup>b/</sup>	0.6	1.2	0.9	2.6	5.7	8.1	3.4	0.8	a/	-	23.3

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
<b>ANGLER TRIPS (thousands)</b>											
<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 <sup>b/</sup>	-	-	3.9	8.5	11.6	22.1	10.9	5.7	2.6	0.3	65.5
<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 <sup>b/</sup>	-	5.1	9.8	5.8	3.1	3.7	0.2	-	-	-	27.7
<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 <sup>b/</sup>	0.6	6.3	14.7	19.4	24.0	37.4	19.2	7.9	2.6	0.3	132.3

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 Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>CHINOOK (thousands)</b>												<b>COHO (thousands)</b>										
<b>Crescent City</b>																						
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 <sup>b/</sup>	-	-	-	0.1	0.1	0.1	0.1	0.1	-	-	0.4	-	-	-	-	a/	-	a/	-	-	-	a/
<b>Eureka</b>																						
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 <sup>b/</sup>	-	-	-	2.9	1.8	1.4	1.7	0.7	-	-	8.3	-	-	-	a/	a/	a/	a/	-	-	-	0.1

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

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>CHINOOK (thousands)</b>												<b>COHO (thousands)</b>										
<b>Fort Bragg</b>																						
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 <sup>b/</sup>	0.4	0.8	0.4	1.2	5.0	6.2	1.4	0.4	a/	-	15.9	-	-	-	a/	a/	a/	a/	a/	-	-	0.1
<b>San Francisco</b>																						
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 <sup>b/</sup>	-	-	4.6	9.3	12.8	19.9	5.0	3.1	1.0	-	55.7	-	-	-	a/	0.1	0.1	-	a/	-	-	0.2

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

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>CHINOOK (thousands)</b>												<b>COHO (thousands)</b>										
<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/	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/	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 <sup>b/</sup>	-	3.1	4.4	1.6	0.8	2.8	a/	-	-	-	12.7	-	-	-	a/	0.1	a/	-	-	-	-	0.1
<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 <sup>b/</sup>	0.4	4.0	9.4	15.1	20.4	30.4	8.2	4.3	1.0	-	93.1	-	-	-	0.1	0.2	0.2	0.1	a/	-	-	0.6

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.<sup>af</sup> (Page 1 of 2)

Year or Average	Columbia River <sup>b/</sup>	Tillamook	Newport	Coos Bay	Brookings	Oregon Subtotal	Alaska	Washington	California	Total
<b>DAYS FISHED (thousands)</b>										
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	c/	0.3	0.2	26.0
1986-1990	0.7	6.9	8.7	20.3	1.6	38.2	c/	0.1	c/	38.3
1991	0.7	3.5	5.1	5.6	c/	14.9	0.0	c/	c/	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	c/	c/	9.5
1994	-	0.5	2.1	0.8	0.3	3.8	0.0	-	c/	3.8
1995	-	1.3	4.7	1.6	0.3	7.9	0.0	0.0	c/	7.9
1996	-	1.4	4.8	1.8	0.5	8.4	0.0	0.0	0.1	8.5
1997	c/	0.7	5.2	1.6	0.4	7.8	0.0	0.0	c/	7.8
1998	0.0	1.0	4.5	1.4	0.2	7.2	0.0	0.0	0.0	7.2
1999	c/	0.7	1.5	2.6	0.2	5.1	0.0	c/	c/	5.1
2000	0.3	0.9	2.7	3.3	0.3	7.5	0.0	c/	c/	7.5
2001	0.2	1.4	5.2	3.8	0.5	11.1	0.0	c/	c/	11.2
2002	0.4	1.6	4.4	4.8	0.4	11.7	0.0	0.3	c/	12.0
2003 <sup>d/</sup>	0.4	1.9	4.5	5.0	0.5	12.4	0.0	0.1	c/	12.5
<b>CHINOOK LANDINGS (thousands)</b>										
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	c/	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	c/	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	c/	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	c/	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 <sup>d/</sup>	10.4	33.5	147.4	131.5	5.1	327.9	0.0	3.2	0.8	331.9

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

Year or Average	Columbia River <sup>b/</sup>	Tillamook	Newport	Coos Bay	Brookings	Oregon Subtotal	Alaska	Washington	California	Total
<b>COHO LANDINGS (thousands)</b>										
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	c/	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	-	c/	c/	-	1.7	0.0	c/	-	1.7
1994	-	-	-	-	-	-	0.0	-	-	-
1995	-	-	-	-	-	-	0.0	0.0	-	-
1996	-	-	-	c/	-	-	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	c/	-	9.4
2002	1.5	-	-	-	-	1.5	0.0	0.0	-	1.5
2003 <sup>d/</sup>	6.4	-	-	-	-	6.4	0.0	0.3	-	6.7

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

b/ Oregon ports only.

c/ Fewer than 50 fish.

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

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>DAYS FISHED (thousands)</b>										
<u>Columbia River</u>										
1976-1980	-	-	0.2	0.3	1.3	0.8	0.2	0.1	b/	2.9
1981-1985	-	-	0.4	-	0.3	0.3	b/	b/	-	1.1
1986-1990	-	-	0.1	b/	b/	0.3	0.1	b/	-	0.7
1991	-	-	0.1	b/	-	0.4	0.2	-	-	0.7
1992	-	-	0.1	0.1	b/	b/	-	-	-	0.3
1993	-	-	b/	b/	0.1	0.1	0.1	-	-	0.2
1994	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	b/	b/	-	-	-	-	-	b/
1998	-	-	0.0	0.0	-	-	-	-	-	0.0
1999	-	-	0.0	b/	-	-	-	-	-	-
2000	-	-	b/	b/	-	0.2	b/	-	-	0.3
2001	-	-	b/	b/	0.1	0.1	b/	-	-	0.2
2002	-	-	b/	0.1	0.2	0.2	-	-	-	0.4
2003 <sup>d/</sup>	-	-	0.1	b/	0.1	0.1	b/	-	-	0.4
<u>Tillamook Area</u>										
1976-1980	-	-	b/	1.0	3.6	2.4	0.2	0.1	-	7.3
1981-1985	-	-	0.1	b/	2.0	1.0	0.1	0.1	b/	3.4
1986-1990	-	-	0.2	0.3	3.0	1.7	1.0	0.7	b/	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	-	-	b/	0.1	-	-	-	0.4	b/	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	-	b/	0.1	0.1	-	0.1	0.2	0.2	b/	0.7
1998	-	b/	0.1	0.1	-	0.2	0.3	0.3	b/	1.0
1999	-	b/	0.1	b/	0.2	0.1	0.2	0.1	0.0	0.7
2000	-	b/	0.1	0.3	0.1	0.2	0.2	0.1	b/	0.9
2001	-	b/	0.1	0.2	0.3	0.3	0.2	0.1	b/	1.4
2002	b/	b/	0.1	0.2	0.1	0.3	0.4	0.4	b/	1.6
2003 <sup>d/</sup>	b/	b/	0.5	0.5	0.2	0.1	0.3	0.3	b/	1.9
<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	b/	6.0
1986-1990	-	-	0.8	1.2	3.8	1.6	0.6	0.6	b/	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	b/	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 <sup>d/</sup>	b/	0.3	0.9	0.5	0.5	0.6	0.9	0.8	-	4.5

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).<sup>a/</sup> (Page 2 of 3)

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>DAYS FISHED (thousands)</b>										
<u>Coos Bay Area</u>										
1976-1980	-	-	0.6	2.7	10.3	6.0	1.6	0.4	b/	21.5
1981-1985	-	-	0.7	0.7	5.2	2.6	0.6	0.2	b/	10.0
1986-1990	-	-	2.7	3.0	7.3	4.7	1.5	1.0	0.1	20.3
1991	-	-	b/	1.8	1.5	1.0	0.8	0.5	-	5.6
1992	-	-	0.1	-	0.1	0.2	b/	0.1	-	0.4
1993	-	-	0.6	0.2	b/	b/	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	-	b/	0.2	0.8	0.4	0.7	0.2	0.2	0.1 <sup>d/</sup>	2.6
2000	-	0.1	0.2	0.2	0.7	1.1	0.5	0.3	0.3 <sup>d/</sup>	3.3
2001	-	0.4	0.6	0.7	0.6	0.7	0.4	0.3	0.1 <sup>d/</sup>	3.8
2002	0.2	0.5	0.8	1.3	0.3	0.6	0.5	0.6	0.2 <sup>d/</sup>	4.8
2003 <sup>c/</sup>	0.1	1.1	1.4	0.6	0.3	0.6	0.4	0.4	0.1 <sup>d/</sup>	5.0
<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	-	-	-	-	-	-	b/	-	-	b/
1992	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-
1994	-	-	b/	-	-	0.1	-	0.2	-	0.3
1995	-	-	b/	-	b/	-	-	0.2	-	0.3
1996	-	-	0.1	b/	-	0.2	-	0.2	-	0.5
1997	-	b/	0.1	-	-	b/	-	0.2	-	0.4
1998	-	0.0	b/	-	-	b/	-	0.2	-	0.2
1999	-	-	b/	-	-	0.1	b/	0.1	-	0.2
2000	-	-	b/	-	-	0.1	0.1	0.1	-	0.3
2001	-	-	b/	b/	-	0.2	0.1	0.2	-	0.5
2002	b/	b/	b/	0.1	0.1	0.1	0.1	0.1	-	0.4
2003 <sup>c/</sup>	-	b/	b/	0.1	0.1	0.1	0.1	0.1	b/	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	b/	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 <sup>d/</sup>	5.1
2000	-	0.3	0.7	1.0	1.2	1.9	1.3	0.8	0.3 <sup>d/</sup>	7.2
2001	-	0.9	2.0	2.0	1.4	2.2	1.3	0.9	0.1 <sup>d/</sup>	10.9
2002	0.4	0.9	1.7	2.0	0.8	1.4	1.7	2.3	0.2 <sup>d/</sup>	11.3
2003 <sup>c/</sup>	0.2	1.4	2.9	1.6	1.0	1.4	1.7	1.5	0.2 <sup>d/</sup>	12.0

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

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>DAYS FISHED (thousands)</b>										
<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	b/	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 <sup>d/</sup>	5.1
2000	-	0.2	0.7	1.0	1.2	2.1	1.3	0.8	0.3 <sup>d/</sup>	7.5
2001	-	0.9	2.0	2.0	1.4	2.3	1.3	0.9	0.1 <sup>d/</sup>	11.1
2002	0.4	0.9	1.8	2.1	0.9	1.6	1.7	2.3	0.2 <sup>d/</sup>	11.7
2003 <sup>c/</sup>	0.2	1.4	3.0	1.6	1.1	1.6	1.8	1.5	0.1 <sup>d/</sup>	12.4

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/ Fewer than 50 days fished.

c/ Preliminary.

d/ 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)<sup>a/</sup> (Page 1 of 4)

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	June	July	Aug.	Sept.	Oct.	Season
	<b>CHINOOK (thousands)</b>										<b>COHO (thousands)</b>					
<u>Columbia River</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 <sup>d/</sup>	-	-	4.9	1.2	1.3	2.4	0.6	-	-	10.4	-	1.5	3.7	1.3	-	6.4
<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 <sup>d/</sup>	0.3	0.1	14.0	11.7	1.2	1.5	2.6	2.1	b/	33.5	-	-	-	-	-	-

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)<sup>ai</sup> (Page 2 of 4)

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	June	July	Aug.	Sept.	Oct.	Season
	<b>CHINOOK (thousands)</b>										<b>COHO (thousands)</b>					
<u>Newport Area</u>																
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 <sup>ci</sup>	0.7	8.9	24.8	12.2	12.7	22.1	36.1	29.8	-	147.4	-	-	-	-	-	-
<u>Coos Bay Area</u>																
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 <sup>di</sup>	42.4	-	-	-	-	-	-
2000	-	0.6	1.5	1.9	14.8	27.2	13.9	3.4	1.9 <sup>di</sup>	65.1	-	-	-	-	-	-
2001	-	9.2	14.3	10.1	14.2	13.2	6.2	3.7	1.3 <sup>di</sup>	72.3	-	-	-	-	-	-
2002	2.6	6.2	9.9	47.8	5.5	15.3	16.9	16.6	1.3 <sup>di</sup>	122.2	-	-	-	-	-	-
2003 <sup>ci</sup>	2.2	49.9	34.8	7.9	5.6	13.0	10.3	6.8	1.1 <sup>di</sup>	131.5	-	-	-	-	-	-

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)<sup>a/</sup> (Page 3 of 4)

Year or Average	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	June	July	Aug.	Sept.	Oct.	Season
	<b>CHINOOK (thousands)</b>										<b>COHO (thousands)</b>					
<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 <sup>d/</sup>	-	0.1	0.6	0.5	1.1	1.1	1.1	0.6	b/	5.1	-	-	-	-	-	-
<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 <sup>d/</sup>	62.4	-	-	-	-	-	-
2000	-	1.2	6.0	11.4	19.8	48.7	31.6	13.1	2.0 <sup>d/</sup>	133.6	-	-	-	-	-	-
2001	-	18.5	60.8	43.3	37.5	62.0	31.5	15.8	1.4 <sup>d/</sup>	270.9	-	-	-	-	-	-
2002	6.7	10.7	23.6	60.8	13.8	29.6	61.2	83.7	1.3 <sup>d/</sup>	291.4	-	-	-	-	-	-
2003 <sup>d/</sup>	3.2	59.0	74.1	32.3	20.6	37.7	50.2	39.3	1.1 <sup>d/</sup>	317.5	-	-	-	-	-	-

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)<sup>a/</sup> (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)					
<b>Total All Areas</b>																
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 <sup>d/</sup>	62.4	-	-	-	-	-	-
2000	-	1.2	6.1	11.7	19.8	50.6	31.6	13.1	2.0 <sup>d/</sup>	135.9	-	-	11.4	0.6	-	-
2001	-	18.5	61.2	45.0	38.5	62.8	31.8	15.8	1.4 <sup>d/</sup>	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 <sup>d/</sup>	304.2	-	-	1.5	-	-	1.5
2003 <sup>c/</sup>	3.2	59.0	79.0	33.4	21.9	40.1	50.8	39.3	1.1 <sup>d/</sup>	327.9	-	1.5	3.7	1.3	-	6.4

a/ Excludes harvests off Alaska, Washington, 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.<sup>a/</sup> (Page 1 of 3)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>ANGLER TRIPS (thousands)</b>										
<u>Columbia River</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 <sup>c/</sup>	-	-	-	0.2	5.3	12.6	1.3	b/	-	19.3
<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	-	3.6
1998	-	0.0	0.6	0.1	b/	0.3	2.3	2.9	-	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 <sup>c/</sup>	b/	b/	0.4	1.9	12.0	5.5	4.8	3.0	0.4	28.0
<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 <sup>c/</sup>	b/	b/	0.3	3.8	20.8	12.8	1.4	0.5	-	39.6

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

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>ANGLER TRIPS (thousands)</b>										
<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 <sup>c/</sup>	b/	0.1	1.0	5.3	21.3	12.9	2.2	0.1	d/	42.9
<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 <sup>c/</sup>	-	-	1.1	1.5	3.9	4.1	1.5	2.6	-	14.8
<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 <sup>c/</sup>	0.1	0.1	2.8	12.4	58.0	35.2	10.0	6.2	0.4	125.2

TABLE A-9. Oregon ocean recreational effort in salmon angler trips by port area and month.<sup>a/</sup> (Page 3 of 3)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>ANGLER TRIPS (thousands)</b>										
<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 <sup>c/</sup>	0.1	0.1	2.8	12.5	63.3	47.7	11.2	6.3	0.4	144.5

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.<sup>a/</sup> (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>Columbia River</u>																
1976-1980 <sup>b/</sup>	-	-	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 <sup>d/</sup>	-	-	-	c/	0.5	1.7	0.1	c/	-	2.3	-	0.1	8.2	19.9	1.6	29.8
<u>Tillamook Area</u>																
1976-1980 <sup>b/</sup>	-	-	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	837	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 <sup>d/</sup>	-	-	0.1	0.4	1.7	0.7	1.5	0.9	0.1	5.4	-	1.4	14.1	5.7	c/	21.2

TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish by port area and month.<sup>a/</sup> (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)					
<b>Newport Area</b>																
1976-1980 <sup>b/</sup>	-	-	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 <sup>d/</sup>	e/	c/	0.1	0.9	6.9	3.1	1.1	0.3	-	12.4	-	2.7	21.4	14.4	-	38.5
<b>Coos Bay Area</b>																
1976-1980 <sup>b/</sup>	-	-	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 <sup>d/</sup>	e/	c/	0.1	1.6	6.5	5.5	1.4	c/	e/	15.0	-	3.5	15.4	5.2	c/	24.1

TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish by port area and month.<sup>a/</sup> (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 <sup>f/</sup>	-	-	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 <sup>d/</sup>	-	-	0.4	0.3	1.2	1.4	1.6	0.6	-	5.5	-	c/	c/	c/	c/	0.1
<u>South of Cape Falcon</u>																
1976-1980 <sup>f/</sup>	-	-	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	e/	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	/f	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 <sup>d/</sup>	e/	c/	0.7	3.2	16.3	10.6	55.1	1.8	0.1	38.3	-	7.6	50.9	25.3	0.1	83.9

TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish by port area and month.<sup>a/</sup> (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)					
<b>Total All Areas</b>																
1976-1980 <sup>b/</sup>	-	-	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 <sup>d/</sup>	e/	c/	0.7	3.3	16.9	12.3	5.7	1.8	0.1	40.7	-	7.6	59.1	45.2	1.7	113.7

- 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 <sup>a/</sup>	Washington	Oregon	California	Alaska	Total
	River	Westport			Subtotal				
<b>DAYS FISHED (thousands)</b>									
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 <sup>b/</sup>	0.114	0.603	0.313	0.668	1.698	0.188	0.000	0.000	1.886
<b>CHINOOK (thousands)</b>									
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 <sup>b/</sup>	1.920	16.773	6.995	30.514	56.202	4.599	0.000	0.000	60.801

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 <sup>a/</sup>	Washington	Oregon	California	Alaska	Total
	River	Westport			Subtotal				
<b>COHO (thousands)</b>									
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 <sup>c/</sup>	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 <sup>b/</sup>	1.290	3.200	2.784	1.683	8.957	0.007	0.000	0.000	8.964
<b>PINK (thousands)<sup>d/</sup></b>									
1976-1980 <sup>e/</sup>	3.598	27.218	143.276	238.787	412.878	1.829	0.000	2.380	417.087
1981-1985 <sup>e/</sup>	1.272	7.589	22.914	107.620	139.394	0.342	0.001	0.263	140.000
1986-1990 <sup>e/</sup>	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 <sup>b/</sup>	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.<sup>a/</sup> (Page 1 of 2)

Year or Average	May	June	July	Aug.	Sept. <sup>b/</sup>	Total
<b>DAYS FISHED (thousands)</b>						
<u>Neah Bay<sup>d/</sup></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 <sup>d/</sup>	0.280	0.092	0.150	0.132	0.014	0.668
<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 <sup>d/</sup>	0.042	0.024	0.148	0.091	0.008	0.313
<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 <sup>d/</sup>	0.099	0.079	0.178	0.192	0.055	0.603

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

Year or Average	May	June	July	Aug.	Sept. <sup>b/</sup>	Total
<b>DAYS FISHED (thousands)</b>						
<u>Columbia River</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 <sup>d/</sup>	0.018	0.004	0.041	0.032	0.019	0.114
<u>Total All Areas</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 <sup>d/</sup>	0.439	0.199	0.517	0.447	0.096	1.698

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

Year or Average	May	June	July	Aug.	Sept. <sup>b/</sup>	Total	May	June	July	Aug.	Sept. <sup>b/</sup>	Total	May	June	July	Aug.	Sept. <sup>b/</sup>	Total	
CHINOOK (thousands)						COHO (thousands)						PINKS (thousands in odd years)							
<u>Neah Bay<sup>c/</sup></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	155.83	0.044	0.235	42.00	192.1	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	12.11	95.10	0.277		107.620
1986-	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	18.50	0.000		18.893
1991 <sup>d/</sup>	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	40.63	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	27.42	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 <sup>e/</sup>	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
<u>La Push</u>																			
1976-1980	6.487	5.777	19.674	10.996	2.038	44.971	0.003	9.374	112.61	63.373	17.961	203.32	0.280	0.432	39.29	102.9	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	15.72	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 <sup>f/</sup>	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

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

Year or Average	May	June	July	Aug.	Sept. <sup>b/</sup>	Total	May	June	July	Aug.	Sept. <sup>b/</sup>	Total	May	June	July	Aug.	Sept. <sup>b/</sup>	Total
CHINOOK (thousands)						COHO (thousands)						PINKS (thousands in odd years)						
<u>Westport</u>																		
1976-1980	28.493	15.087	18.923	13.306	5.274	81.083	0.020	13.962	123.24	52.640	17.592	207.45	0.239	0.053	13.29	13.51	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	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	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 <sup>ff</sup>	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 <sup>ff</sup>	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
<u>Columbia River</u>																		
1976-1980	7.990	5.095	3.933	3.312	3.187	23.517	0.002	18.977	71.700	28.995	17.249	136.92	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	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	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	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 <sup>ff</sup>	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

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

Year or Average	May	June	July	Aug.	Sept. <sup>b/</sup>	Total	May	June	July	Aug.	Sept. <sup>b/</sup>	Total	May	June	July	Aug.	Sept. <sup>b/</sup>	Total
CHINOOK (thousands)						COHO (thousands)						PINKS (thousands in odd years)						
Total All Areas																		
1976-1980	49.751	29.764	54.970	36.395	12.624	183.50	0.026	46.163	374.51	203.60	79.236	703.54	0.568	0.726	96.41	310.0	5.169	412.878
1981-1985	31.659	3.511	20.890	5.151	0.091	61.303	0.000	0.000	112.24	37.153	3.089	152.48	0.234	0.033	24.85	113.9	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	18.51	0.000	19.714
1991	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	43.26	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	30.06	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 <sup>f/</sup>	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

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 100 coho landed illegally.

e/ Preliminary.

f/ 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.-	May	June	July	Aug.	Sept.	Oct.	Nov. -Dec.	Total	Year Total
	Apr.							May-Sept.		
<b>DELIVERIES</b>										
<b>Area 4B</b>										
1976-1980	619	54	61	40	61	26	5	92	243	958
1981-1985	1056	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 <sup>2/</sup>	69	25	29	6	0	0	0	0	60	129
2003 <sup>2/</sup>	69	3	2	1	0	0	1	2	6	78
<b>Neah Bay</b>										
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 <sup>2/</sup>	0	32	73	66	51	47	0	0	269	269
2003 <sup>2/</sup>	0	41	94	90	44	33	1	0	302	303
<b>La Push</b>										
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 <sup>2/</sup>	0	0	0	0	1	0	0	0	1	1
2003 <sup>2/</sup>	0	0	2	3	1	0	0	0	6	6

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.-	May	June	July	Aug.	Sept.	Oct.	Nov. -Dec.	Total	Year Total
	Apr.								May-Sept.	
<b>DELIVERIES</b>										
<b>Westport</b>										
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 <sup>a/</sup>	0	0	0	1	2	0	0	0	3	3
2003 <sup>a/</sup>	0	0	1	1	10	4	0	0	16	16
<b>Total Treaty Troll</b>										
1976-1980	665	35	149	152	75	20	7	122	431	1,225
1981-1985	1056	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 <sup>a/</sup>	69	57	102	73	54	47	0	1	333	403
2003 <sup>a/</sup>	69	44	99	95	55	37	1	2	330	402

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	Jan. to	May	June	July	Aug.	Sept.	Oct.	Nov.	Total May to Sept.	Year Total	Jan.	May	June	July	Aug.	Sept.	Oct.	Nov.	Total May to Sept.	Year Total
	Apr.							to Dec.			to Apr.							to Dec.		
<b>CHINOOK</b>											<b>COHO</b>									
<b>Area 4B</b>																				
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	167	498	594	207	0	0	0	19	1,299	1,485	0	0	0	0	0	0	0	0	0	0
2003 <sup>al</sup>	164	25	74	14	0	0	0	3	113	114	3	0	0	4	0	0	0	0	4	7
<b>Neah Bay</b>																				
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	13,40	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	16,82	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	29,19	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	30,71	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	24,38	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	12,05	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	16,78	0	3,887	3,619	0	0	26,429	26,429	0	0	0	0	11,932	20,19	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	10,29	4,404	2,435	2,610	0	0	20,886	20,886	0	0	0	5,845	24,710	20,11	0	0	50,671	50,671
2002	0	4,798	10,27	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 <sup>al</sup>	0	2,608	12,87	12,753	4,943	1,041	2	0	34,218	34,220	0	0	0	4,319	4,220	2,216	0	0	10,755	10,755

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 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
<b>CHINOOK</b>											<b>COHO</b>									
<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 <sup>a/b</sup>	0	0	0	0	23	0	50	0	23	73	0	0	0	0	14	0	200	0	14	214
2003 <sup>a/</sup>	0	0	67	27	9	0	75	0	103	178	0	0	0	0	0	0	200	0	0	200
<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 <sup>a/</sup>	0	0	0	140	34	0	0	0	174	174	0	0	0	0	27	0	0	0	27	27
2003 <sup>a/</sup>	0	0	10	10	143	77	0	0	240	240	0	0	0	0	92	61	0	0	153	153

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
<b>Total Treaty Troll</b>																				
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	16,38	24,473	16,68	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	38,94	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	40,21	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	26,67	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	13,88	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	17,15	0	4,101	3,619	0	15	27,412	27,664	0	0	0	0	13,151	20,19	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	14,67	5,340	3,034	2,694	0	0	28,100	28,100	0	0	0	8,434	28,335	20,75	0	0	57,520	57,520
2002 <sup>a/b/</sup>	167	5,296	10,86	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 <sup>a/</sup>	164	2,633	13,02	12,804	5,095	1,041	78	3	34,674	34,842	3	0	0	4,323	4,312	2,277	200	0	10,912	11,115

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
<b>PINKS</b>										
<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
<b>PINKS</b>										
<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 month.<sup>a/</sup> (Page 1 of 3)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
<b>ANGLER TRIPS (thousands)</b>								
<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	-	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 <sup>b/</sup>	-	-	1.4	10.1	8.1	0.9	-	19.1
<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 <sup>c/</sup>	-	-	0.2	1.8	1.6	0.6	0.1	4.4

TABLE A-17. Washington ocean recreational salmon fishing effort in angler trips by port and month.<sup>a/</sup> (Page 2 of 3)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
<b>ANGLER TRIPS (thousands)</b>								
<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 <sup>d/</sup>	-	-	4.3	20.7	18.3	4.7	-	43.8
<u>Columbia River<sup>d/</sup></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 <sup>d/</sup>	-	-	0.5	15.0	29.6	6.9	-	52.0

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
<b>ANGLER TRIPS (thousands)</b>								
<u>Total All Areas</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 <sup>c/</sup>	-	-	6.3	47.7	57.5	13.2	0.1	119.2

a/ Summary of effort is by statistical month.

b/ Preliminary.

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
	<b>CHINOOK (thousands)</b>								<b>COHO (thousands)</b>							
<b>Neah Bay</b>																
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 <sup>b/c/</sup>	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 <sup>d/</sup>	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 <sup>d/</sup>	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 <sup>d/</sup>	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 <sup>d/</sup>	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 <sup>d/</sup>	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 <sup>d/</sup>	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 <sup>d/</sup>	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
<b>La Push</b>																
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 <sup>b/</sup>	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 <sup>d/</sup>	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

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
	<b>CHINOOK (thousands)</b>								<b>COHO (thousands)</b>							
<b>Westport</b>																
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 <sup>d/</sup>	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
<b>Columbia River<sup>e/</sup></b>																
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 <sup>d/</sup>	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

TABLE A-18. Washington ocean recreational chinook and coho salmon landings in numbers of fish by port and month.<sup>a/</sup> (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)							
<b>Total All Areas</b>																
1976-1980	1.946	8.334	31.259	28.901	34.363	8.801	1.028	114.633	0.638	18.611	89.239	178.59	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 <sup>b/c/</sup>	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 <sup>d/</sup>	0.000	0.000	2.084	7.740	2.586	0.261	0.000	12.671	0.000	0.000	12.247	134.88	46.057	14.503	0.000	207.693
1992 <sup>d/</sup>	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 <sup>d/</sup>	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 <sup>d/</sup>	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 <sup>d/</sup>	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 <sup>d/</sup>	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 <sup>d/</sup>	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

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 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.<sup>a/</sup>  
(Page 1 of 2)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
<b>PINKS (thousands)</b>								
<u>Neah Bay<sup>b/</sup></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 <sup>c/</sup>	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 <sup>c/</sup>	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 <sup>c/</sup>	0.000	0.000	0.012	3.559	0.756	0.032	0.000	4.359
<u>Columbia River<sup>d/</sup></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 <sup>c/</sup>	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.<sup>a/</sup>  
(Page 2 of 2)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
<b>PINKS (thousands)</b>								
<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 <sup>c/</sup>	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.

d/ Ilwaco statistics do not include catch reported as occurring inside the Columbia River mouth.

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

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
<b>DAYS FISHED (thousands)</b>											
<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 <sup>d/</sup>	0.2	1.4	2.9	1.5	0.9	1.3	1.7	1.4	0.1	b/	11.4
<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 <sup>d/</sup>	b/	b/	b/	0.1	0.1	0.1	0.2	0.1	b/	-	0.7

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

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
<b>DAYS FISHED (thousands)</b>											
<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	1.5	3.1	1.4	2.2	0.5	-	-	13.6
2002	-	-	4.2	3.2	4.6	2.8	1.7	0.1	-	-	16.7
2003 <sup>c/</sup>	-	-	3.1	2.6	3.6	3.7	2.3	0.1	-	-	15.5
<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	3.9	1.4	0.1	b/	24.8
2002	0.4	0.9	6.0	5.3	5.4	4.3	3.8	2.4	0.2	b/	28.6
2003 <sup>c/</sup>	0.2	1.4	6.0	4.2	4.6	5.1	4.2	1.7	0.1	b/	27.6

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.<sup>a/</sup> (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
<b>CHINOOK (thousands)</b>												<b>COHO (thousands)</b>										
<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	-	-	187.5	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	86.1	93.2	128.0	56.9	13.5	0.5	-	-	378.2	-	-	-	-	-	-	-	-	-	-	-
2003 <sup>c/</sup>	-	-	73.1	103.9	123.5	110.6	71.4	2.0	-	-	484.6	-	-	-	-	-	-	-	-	-	-	-
<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 <sup>c/</sup>	3.2	60.7	147.3	136.3	144.1	148.4	123.9	41.4	1.0	0.1	806.3	-	-	-	-	-	-	-	-	-	-	-

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.<sup>a/</sup>  
(Page 1 of 2)

Year or Average	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>ANGLER TRIPS (thousands)</b>											
<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 <sup>d/</sup>	-	0.1	0.1	1.7	10.9	54.1	31.1	8.4	3.6	0.4	110.4
<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 <sup>d/</sup>	-	-	-	3.7	5.1	7.4	8.8	3.0	2.6	-	30.6
<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 <sup>d/</sup>	0.6	6.3	14.7	16.9	20.4	34.0	14.5	6.4	2.6	0.3	116.5

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

Year or Average	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>ANGLER TRIPS (thousands)</b>											
<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 <sup>c/</sup>	0.6	6.4	14.8	22.3	36.3	95.4	54.4	17.9	8.8	0.6	257.5

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 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.<sup>a/</sup> (Page 1 of 2)

Year or Average	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>CHINOOK (thousands)</b>												<b>COHO (thousands)</b>										
<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/	-	-	b/
1998	-	-	0.0	0.1	0.1	0.2	0.6	0.5	0.5	-	2.0	-	-	-	-	-	0.1	b/	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/	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 <sup>d/</sup>	-	-	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
<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 <sup>d/</sup>	-	-	-	3.4	2.1	2.6	3.1	2.3	0.6	-	14.2	-	-	-	b/	0.1	b/	0.1	b/	-	-	0.2

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

Year or Average	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>CHINOOK (thousands)</b>												<b>COHO (thousands)</b>										
<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 <sup>d/</sup>	0.4	4.0	9.4	12.1	18.6	28.9	6.4	3.5	1.0	-	84.3	-	-	-	0.1	0.2	0.2	b/	b/	-	-	0.4
<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 <sup>d/</sup>	0.4	4.0	9.4	15.8	23.6	46.7	18.8	9.8	2.8	0.1	131.4	-	-	-	0.1	7.8	51.1	25.4	0.1	b/	b/	84.5

TABLE A-24. U.S./Canada border to Cape Falcon commercial troll salmon fishing effort in days fished by area and month.<sup>d/</sup> (Page 1 of 3)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
<b>DAYS FISHED (thousands)</b>							
<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	<sup>e/</sup>	-	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 <sup>c/</sup>	0.5	0.2	0.5	0.4	0.1	-	1.7
<u>U.S./Canada Border to Leadbetter Pt. - Treaty Indian<sup>d/</sup></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	0.0	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 <sup>c/</sup>	b/	0.1	0.1	0.1	b/	-	0.3
<u>U.S./Canada Border to Leadbetter Pt. - Total<sup>d/</sup></u>							
1976-1980	3.8	2.5	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 <sup>c/</sup>	0.5	0.3	0.6	0.5	0.1	-	2.0

TABLE A-24. U.S./Canada border to Cape Falcon commercial troll salmon fishing effort in days fished by area and month.<sup>d/</sup> (Page 2 of 3)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
<b>DAYS FISHED (thousands)</b>							
<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 <sup>d/</sup>	0.1	b/	0.2	0.2	0.1	-	0.5
<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 <sup>d/</sup>	0.6	0.2	0.7	0.6	0.1	-	2.2
<u>U.S./Canada Border to Cape Falcon - Treaty Indian<sup>d/</sup></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 <sup>d/</sup>	b/	0.1	0.1	0.1	b/	-	0.3

TABLE A-24. U.S./Canada border to Cape Falcon commercial troll salmon fishing effort in days fished by area and month.<sup>d/</sup> (Page 3 of 3)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
<b>DAYS FISHED (thousands)</b>							
<u>U.S./Canada Border to Cape Falcon - Total<sup>d/</sup></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 <sup>c/</sup>	0.6	0.3	0.7	0.6	0.2	-	2.5

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.

d/ 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.

e/ 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.<sup>a/</sup> (Page 1 of 4)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
<b>CHINOOK (thousands)</b>								<b>COHO (thousands)</b>						
<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 <sup>d/</sup>	27.8	9.1	4.0	1.3	b/	-	42.3	b/	-	10.5	26.5	b/	-	37.0
1991 <sup>d/</sup>	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 <sup>e/</sup>	19.6	9.7	14.8	12.1	1.2	-	57.5	-	-	3.4	3.8	0.8	-	7.9
<u>U.S./Canada Border to Leadbetter Pt. - Treaty Indian<sup>f/</sup></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	12.5
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 <sup>e/</sup>	2.6	13.0	12.8	5.1	1.1	-	34.7	-	-	4.3	4.3	2.3	-	10.9

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.<sup>a/</sup> (Page 2 of 4)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
<b>CHINOOK (thousands)</b>							<b>COHO (thousands)</b>							
<u>U.S./Canada Border to Leadbetter Pt. - Total<sup>f/</sup></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	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 <sup>e/</sup>	22.3	22.8	27.7	17.2	2.3	-	92.1	-	-	7.7	8.1	3.1	-	18.8
<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 <sup>e/</sup>	5.7	1.3	1.8	2.8	0.8	-	12.3	-	-	1.9	4.2	1.7	-	7.7

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.<sup>a/</sup> (Page 3 of 4)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
<b>CHINOOK (thousands)</b>							<b>COHO (thousands)</b>							
<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 <sup>c/</sup>	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 <sup>d/</sup>	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 <sup>e/</sup>	25.3	11.0	16.6	14.8	2.0	-	69.8	-	-	5.3	7.9	2.5	-	15.7
<u>U.S./Canada Border to Cape Falcon - Treaty Indian<sup>f/</sup></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	12.5
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 <sup>e/</sup>	2.6	13.0	12.8	5.1	1.1	-	34.7	-	-	4.3	4.3	2.3	-	10.9

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.<sup>a/</sup> (Page 4 of 4)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
<b>CHINOOK (thousands)</b>							<b>COHO (thousands)</b>							
U.S./Canada Border to Cape Falcon - Total Treaty Indian and Non-Indian <sup>f/</sup>														
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	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 <sup>e/</sup>	28.0	24.0	29.4	19.9	3.1	-	104.4	-	-	9.6	12.2	4.7	-	26.6

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),<sup>af</sup> (Page 1 of 2)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
<b>PINKS (thousands)</b>							
<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 <sup>cf</sup>	-	-	0.1	0.1	b/	-	0.2
<u>Treaty Indian<sup>df</sup></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 <sup>cf</sup>	-	-	0.2	b/	b/	-	0.2
<u>Total<sup>df</sup></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 <sup>cf</sup>	-	-	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 <sup>cf</sup>	-	-	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).<sup>a/</sup> (Page 2 of 2)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
<b>PINKS (thousands)</b>							
<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 <sup>c/</sup>	-	-	0.2	0.1	b/	-	0.3
<u>Treaty Indian Total<sup>d/</sup></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 <sup>c/</sup>	-	-	0.2	b/	b/	-	0.2
<u>Grand Total<sup>d/</sup></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 <sup>c/</sup>	-	-	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.<sup>a/</sup>  
(Page 1 of 1)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
<b>ANGLER TRIPS (thousands)</b>								
<u>U.S./Canada Border to Leadbetter Pt.<sup>b/</sup></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 <sup>d/</sup>	-	-	5.9	32.6	28.0	6.2	0.1	72.9
<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 <sup>d/</sup>	-	-	0.6	20.3	42.1	8.2	-	71.2
<u>U.S./Canada Border to Cape Falcon<sup>b/</sup></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 <sup>d/</sup>	-	-	6.5	52.9	70.1	14.4	0.1	144.1

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 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.<sup>a/</sup> (Page 1 of 2)

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
<b>CHINOOK (thousands)</b>									<b>COHO (thousands)</b>							
<u>U.S./Canada Border to Leadbetter Pt.<sup>b/</sup></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/	-	c/	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	0.2	-	-	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 <sup>d/</sup>	-	-	2.7	13.0	10.8	1.9	0.1	28.4	-	-	3.6	25.6	27.6	5.7	c/	62.4
<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/	0.0	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 <sup>d/</sup>	-	-	0.1	2.0	5.2	0.8	-	8.1	-	-	0.7	32.6	63.6	9.5	-	106.4

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.<sup>a/</sup> (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)							
<u>North of Cape Falcon</u>																
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	89.7	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	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 <sup>d/</sup>	-	-	2.7	15.0	16.0	2.7	0.1	36.5	-	-	4.3	58.1	91.2	15.2	c/	168.8

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
<b>PINKS (thousands)</b>								
<u>U.S./Canada border to Leadbetter Pt.<sup>b/</sup></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 <sup>d/</sup>	-	-	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 <sup>d/</sup>	-	-	-	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 <sup>d/</sup>	-	-	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.

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## APPENDIX B

# HISTORICAL RECORD OF ESCAPEMENTS TO INLAND FISHERIES AND SPAWNING AREAS

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

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

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

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

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

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

e/ Preliminary.

TABLE B-2. California Central Valley hatchery fall Chinook salmon spawning escapements in thousands of fish.<sup>a/</sup> (Page 1 of 1)

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

a/ Counts of fewer than 50 fish are shown as 0. For years prior to 2004, all numbers in this table were reviewed and updated by CDFG in 2003 to reflect CDFG final project reports.

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

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

d/ Preliminary.

e/ Hatchery specific goals, not PFMC goals.

TABLE B-3. Sacramento River late-fall, winter, and spring Chinook salmon spawning escapement estimates in thousands of fish. (Page 1 of 1)

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

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

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

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

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

e/ Primarily fish spawned at Feather River Hatchery.

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

g/ Fewer than 50 fish.

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

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

j/ Includes Butte Creek spring run estimates.

k/ Jack proportion could not be determined.

l/ Preliminary.

m/ Estimates from mainstem Sacramento River not available.

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

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

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

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

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

b/ Preliminary.

TABLE B-5. Estimates of Yurok and Hoopa Valley reservation Indian gillnet harvest.<sup>a/</sup> (Page 1 of 3)

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

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

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

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

		Chinook Salmon (numbers of fish)						
		Spring Run			Fall Run			
Year	Area	Jack	Adult	Total	Jack	Adult	Total	
2000	Commercial:	Estuary	-	33	33	-	4,104	4,104
		Middle Klamath	-	2	2	-	186	186
		Upper Klamath	-	1	1	-	813	813
	Subsistence:	Estuary	5	1,739	1,744	35	13,174	13,209
		Middle Klamath	0	509	509	29	1,049	1,078
		Upper Klamath	8	909	917	111	4,127	4,238
		Trinity River	<u>29</u>	<u>1,325</u>	<u>1,354</u>	<u>128</u>	<u>5,962</u>	<u>6,090</u>
Total	42	4,518	4,560	303	29,415	29,718		
2001	Commercial:	Estuary	79	4,637	4,716	63	7,011	7,074
		Upper Klamath	1	58	59	1	51	52
	Subsistence:	Estuary	152	8,846	8,998	198	21,956	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	<u>46</u>	<u>4,164</u>	<u>4,210</u>	<u>60</u>	<u>4,954</u>	<u>5,014</u>
Total	297	19,343	19,640	399	38,645	39,044		
2002	Commercial:	Estuary	7	1,852	1,859	7	8,952	8,959
		Upper Klamath	-	-	-	-	-	-
	Subsistence:	Estuary	25	6,551	6,576	10	11,197	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	<u>40</u>	<u>3,052</u>	<u>3,062</u>	<u>68</u>	<u>1,168</u>	<u>1,236</u>
Total	166	14,970	15,136	126	24,574	24,700		
2003 <sup>d/</sup>	Commercial:	Estuary	3	780	783	14	17,081	17,095
		Upper Klamath	0	0	0	0	0	0
	Subsistence:	Estuary	0	3	3	1	5,467	5,468
		Middle Klamath	0	0	0	5	1,377	1,382
		Upper Klamath	0	0	0	12	3,201	3,213
		Trinity River	<u>7</u>	<u>2,377</u>	<u>2,384</u>	<u>12</u>	<u>2,771</u>	<u>2,783</u>
Total	10	3,160	3,170	44	29,897	29,941		

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

b/ No estimate.

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

d/ Preliminary.

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

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

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

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

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

d/ Includes 276 females taken to Iron Gate Hatchery.

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

f/ Preliminary.

TABLE B-7. Summary of California North Coast salmon spawning stock surveys. (Page 1 of 1)

Year	Canon Creek (Mad River) <sup>a/b/</sup>			Sprawl Creek (Eel River) <sup>a/c/</sup>			Tomki Creek (Eel River) <sup>d/</sup>
	Number of Surveys	Chinook	Coho	Number of Surveys	Chinook	Coho	Chinook
1963-1964	12	70	55	-	-	-	-
1964-1965	NA	45	0	-	-	-	1,747
1965-1966	-	-	-	-	-	-	-
1966-1967	NA	334	3	3	1,189	6	-
1967-1968	-	-	-	-	-	-	-
1968-1969	-	-	-	-	-	-	-
1969-1970	-	-	-	-	-	-	-
1970-1971	NA	230	0	-	-	-	-
1971-1972	-	-	-	-	-	-	-
1972-1973	-	-	-	-	-	-	-
1973-1974	-	-	-	-	-	-	-
1974-1975	-	-	-	1	247	0	-
1975-1976	-	-	-	1	339	2	367
1976-1977	-	-	-	-	-	-	-
1977-1978	-	-	-	-	-	-	-
1978-1979	-	-	-	2	534	23	-
1979-1980	-	-	-	2	572	0	2,410
1980-1981	-	-	-	1	164	4	317
1981-1982	3	23	0	2	121	0	565
1982-1983	3	68	0	6	169	1	1,741
1983-1984	2	137	0	2	82	0	-
1984-1985 <sup>e/</sup>	1	16	0	6	67	13	1,292
1985-1986	10	514	14	6	320	0	3,558
1986-1987 <sup>e/</sup>	4	90	3	5	307	13	2,173
1987-1988	4	117	29	3	2,187	4	3,666
1988-1989	2	69	7	3	339	12	556
1989-1990 <sup>e/</sup>	4	9	9	5	89	14	0
1990-1991	1	0	3	2	0	0	0
1991-1992 <sup>e/</sup>	2	8	0	2	159	0	3
1992-1993 <sup>e/</sup>	3	57	1	2	142	2	15
1993-1994	3	20	0	4	171	36	5
1994-1995	3	33	3	7	52	0	22
1995-1996 <sup>e/</sup>	1	93	4	3	136	8	69
1996-1997	1	129	4	3	106	8	90
1997-1998	2	55	1	4	97	0	44
1998-1999	2	66	0	4	79	11	65
1999-2000 <sup>e/</sup>	8	162	1	7	34	1	35
2000-2001 <sup>e/</sup>	3	79	3	4	12	0	50
2001-2002	2	45	6	5	136	25	162 <sup>f/</sup>
2002-2003	3	402	1	6	267	17	5 <sup>f/</sup>
2003-2004 <sup>e/g/</sup>	2	79	1	5	106	8	137 <sup>f/</sup>

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

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

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

d/ Total run size estimate including jacks and adults.

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

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

g/ Preliminary.

TABLE B-8. **Peak spawning counts** in index areas for selected **south/local** migrating **Oregon coastal fall chinook** stocks. (Page 1 of 1)

Year	Deep Creek (Pistol River) (0.4 mile)		Big Emily Creek (Chetco River) (1.0 mile)		Bear Creek (Winchuck River) (0.8 mile)		Index (fish per mile)	
	Adults	Jack	Adults	Jacks	Adults	Jacks	Adults	Jacks
1960	1	0	-	-	-	-	-	-
1961	4	1	-	-	-	-	-	-
1962	9	2	-	-	-	-	-	-
1963	7	0	-	-	-	-	-	-
1964	12	0	-	-	30	2	-	-
1965	0	-	-	-	14	0	-	-
1966	82	6	-	-	27	3	-	-
1967	2	1	-	-	31	0	-	-
1968	8	1	-	-	57	2	-	-
1969	-	-	-	-	29	2	-	-
1970	-	-	-	-	-	-	-	-
1971	7	0	303	28	15	0	148	13
1972	7	0	344	11	-	-	251	8
1973	6	2	98	8	46	6	68	7
1974	2	0	100	0	13	0	52	0
1975	2	0	-	-	-	-	-	-
1976	-	-	41	22	0	2	23	13
1977	3	2	-	-	29	1	27	3
1978	-	-	245	36	33	0	154	20
1979	-	-	104	30	17	3	67	18
1980	0	0	107	39	13	0	55	18
1981	14	1	75	21	10	0	45	10
1982	25	1	84	12	13	1	55	6
1983	31	3	38	4	12	1	37	4
1984	11	2	23	4	15	1	22	3
1985	37	2	91	8	13	4	64	6
1986	0 <sup>a/</sup>	0 <sup>a/</sup>	73	20	12	3	39	10
1987	11	2	23	6	18	2	24	5
1988	27	3	112	25	15	1	70	13
1989	6	2	54	7	4	1	29	5
1990	1	0	26	2	2	1	13	1
1991	3	2	75	5	10	1	40	4
1992	9	0	44	13	16	1	31	6
1993	10	7	69	19	7	2	39	13
1994	29	31	71	8	30	4	59	20
1995	8	4	111	7	18	1	61	5
1996	81	9	79	7	27	5	85	10
1997	17	1	60	5	41	1	41	3
1998	46	11	52	3	19	2	53	7
1999	58	3	12	0	10	0	36	1
2000	26	3	63	6	11	1	45	5
2001	25	2	49	2	9	3	38	3
2002	62	7	70	3	15	0	67	5
2003 <sup>b/</sup>	20	7	28	5	2	1	23	6

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

b/ Preliminary.

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

Year	Gold Ray Dam, Rogue River <sup>a)</sup>				Winchester Dam, Umpqua River <sup>a)</sup>			
	Natural	Hatchery	Total	Jacks <sup>b)</sup>	Natural	Hatchery	Total	Jacks <sup>b)</sup>
1942	41.8	-	41.8	6.2	-	-	-	-
1943	36.1	-	36.1	4.5	-	-	-	-
1944	30.6	-	30.6	3.7	-	-	-	-
1945	32.0	-	32.0	5.3	-	-	-	-
1946	28.4	-	28.4	4.6	2.5	-	2.5	0.5
1947	33.6	-	33.6	3.1	3.8	-	3.8	0.8
1948	27.0	-	27.0	2.9	2.5	-	2.5	0.2
1949	18.8	-	18.8	1.8	2.6	-	2.6	0.5
1950	15.5	-	15.5	2.7	2.3	-	2.3	0.3
1951	19.4	-	19.4	4.9	3.6	-	3.6	0.7
1952	15.9	-	15.9	3.8	5.2	0.1	5.3	0.6
1953	31.5	-	31.5	4.2	3.9	0.9	4.8	0.5
1954	24.7	-	24.7	5.2	1.5	1.7	3.2	1.6
1955	15.7	-	15.7	2.8	6.6	1.0	7.6	1.4
1956	28.1	-	28.1	3.9	8.0	1.3	9.3	1.4
1957	17.7	-	17.7	3.0	4.0	1.2	5.2	0.9
1958	15.0	-	15.0	1.9	3.6	0.8	4.4	0.5
1959	14.0	-	14.0	2.6	3.1	0.7	3.8	0.3
1960	24.4	-	24.4	5.5	3.4	0.7	4.1	0.5
1961	31.8	-	31.8	5.4	4.4	0.9	5.3	0.5
1962	31.4	-	31.4	5.3	3.3	0.9	4.2	0.6
1963	40.6	-	40.6	6.9	8.7	2.3	11.0	1.8
1964	37.3	-	37.3	6.2	6.6	2.2	8.8	3.0
1965	47.6	-	47.6	8.1	9.0	2.7	11.7	3.1
1966	31.4	-	31.4	3.5	6.7	0.6	7.3	1.3
1967	14.7	-	14.7	2.4	6.5	2.6	9.1	4.9
1968	19.5	-	19.5	7.5	6.2	3.1	9.3	4.3
1969	59.0	-	59.0	6.7	10.7	9.4	20.1	3.0
1970	45.1	-	45.1	7.4	6.1	6.9	13.0	2.4
1971	28.3	1.1	29.5	6.1	6.0	3.9	9.9	2.6
1972	30.0	0.8	30.8	5.7	7.9	8.5	16.4	7.4
1973	34.7	0.6	35.3	5.0	11.4	8.2	19.7	3.2
1974	16.5	0.5	17.0	3.5	5.8	5.1	10.9	2.2
1975	20.4	1.0	21.5	4.6	5.4	5.2	10.6	3.6
1976	20.4	1.2	21.6	6.9	5.5	5.2	10.7	4.3
1977	14.9	1.5	16.4	3.0	6.8	5.5	12.3	3.5
1978	40.2	7.0	47.2	11.3	5.4	2.8	8.2	2.8
1979	29.3	8.9	38.2	5.8	5.5	4.0	9.5	3.2
1980	24.2	12.7	36.9	8.0	5.7	1.9	7.6	2.1
1981	12.8	4.4	17.2	3.0	4.6	4.1	8.7	2.0
1982	23.2	6.7	29.9	10.1	6.5	2.0	8.5	3.3
1983	9.8	2.7	12.5	4.7	3.0	2.9	5.9	1.8
1984	8.4	4.3	12.7	3.8	4.5	2.4	6.9	1.9
1985	27.8	12.7	40.5	15.0	7.5	6.1	13.5	3.6
1986	40.4	49.1	89.5	30.1	8.3	5.3	13.6	4.4
1987	37.4	44.1	81.6	16.2	8.3	7.2	15.6	3.4
1988	38.8	43.8	82.6	18.4	7.8	3.8	11.6	1.6
1989	7.9	52.4	60.3	6.6	7.6	2.2	9.8	1.7
1990	18.0	6.5	24.6	3.1	5.5	2.0	7.6	1.3
1991	9.3	3.0	12.4	2.4	2.4	1.8	4.2	0.6
1992	2.2	3.6	5.8	1.3	2.5	2.5	5.0	0.9
1993	12.6	13.5	26.1	6.8	3.8	2.1	5.9	1.2
1994	3.6	10.5	14.1	2.6	2.8	2.5	5.3	1.1

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

Year	Gold Ray Dam, Rogue River <sup>a/</sup>				Winchester Dam, Umpqua River <sup>a/</sup>			
	Natural	Hatchery	Total	Jacks <sup>b/</sup>	Natural	Hatchery	Total	Jacks <sup>b/</sup>
1995	20.7	61.2	82.0	6.2	6.2	3.6	9.8	1.9
1996	10.3	26.3	36.6	3.4	4.3	2.2	6.5	1.0
1997	9.6	32.2	41.8	2.8	3.3	2.5	5.8	1.6
1998	3.7	12.3	16.0	2.8	4.0	2.9	7.0	1.5
1999	6.0	15.0	21.0	1.9	2.8	4.6	7.4	3.1
2000	3.4	26.8	30.3	3.8	3.4	9.2	12.6	4.6
2001	3.0	30.3	33.3	2.3	6.1	14.6	20.7	4.7
2002 <sup>c/</sup>	6.9	41.2	48.1	3.1	6.8	17.3	24.1	3.1
2003 <sup>c/</sup>	18.9	22.9	41.8	3.0	7.9	12.3	20.2	4.1

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

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

c/ Preliminary.

TABLE B-10. Rogue River fall chinook carcass counts. (Page 1 of 1)

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

a/ Preliminary.

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

Year	River Tributaries																				
	Humbug (Nehalem) (1.0 mile)		Tillamook (1.8 mile)		Niagara (Nestucca) (0.4 mile)		Sunshine (Siletz) (1.2 mile)		Grant (Yaquina) (1.7 mile)		Buck (Alsea) (1.0 mile)		Siuslaw Lake (0.8 mile)		W.F. Millicoma (Coos) (0.5 mile)		Salmon (Coquille) (0.8 mile)		Index Fish Per Mile		
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults
1961	96	8	130	36	65	4	52	11	51	1	38	8	26	22	3	3	10	14	51	12	
1962	69	9	95	22	39	8	131	29	32	15	8	5	12	4	2	0	1	0	42	10	
1963	96	37	128	22	88	2	63	8	67	13	39	12	27	2	0	2	3	0	56	11	
1964	112	14	134	29	45	8	18	7	22	3	22	7	212	35	1	0	9	2	63	11	
1965	100	43	93	18	123	2	32	8	44	34	31	14	28	11	2	0	91	49	59	19	
1966	95	8	85	25	73	7	36	6	67	15	42	20	111	11	5	1	55	19	62	12	
1967	64	2	117	41	55	6	39	3	35	13	12	14	110	31	7	0	17	0	50	12	
1968	44	2	81	29	41	2	19	4	32	9	18	12	52	32	0	0	16	4	33	10	
1969	29	2	41	13	28	8	7	3	68	20	13	2	140	52	6	2	7	0	37	11	
1970	54	3	139	29	39	8	51	9	105	10	43	34	256	76	12	0	36	23	80	21	
1971	84	10	35	4	35	1	40	5	78	17	38	8	49	10	21	22	17	5	43	9	
1972	71	46	54	12	82	10	27	14	36	12	3	2	88	56	8	12	8	4	41	18	
1973	139	28	84	1	61	4	47	0	48	4	20	4	-	-	21	1	18	0	52	5	
1974	141	16	45	4	42	0	47	2	93	0	13	0	131	68	16	28	13	7	59	14	
1975	72	28	-	-	-	-	-	-	-	-	9	1	106	60	22	4	18	9	55	25	
1976	135	39	35	5	0	0	18	12	10	6	1	0	188	74	28	24	0 <sup>al</sup>	0 <sup>al</sup>	49	19	
1977	158	12	56	2	14	2	45	2	160	20	13	2	181	60	19	8	7	7	71	13	
1978	166	6	62	8	31	3	28	0	175	6	12	0	115	24	42	18	40	3	73	7	
1979	168	2	45	2	50	3	98	7	144	78	40	10	128	12	35	24	33	8	81	16	
1980	90	3	106	14	64	1	44	2	145	4	46	2	218	16	30	65	74	31	89	16	
1981	148	1	94	6	41	1	68	2	185	13	32	3	140	43	4	4	43	8	82	9	
1982	70	13	107	15	89	12	40	1	160	18	54	9	206	34	80	2	95	13	90	13	
1983	61	4	45	1	60	1	29	3	86	11	25	0	28	0	9	0	43	4	42	3	
1984	280	31	101	9	84	6	47	3	195	17	55	2	103	7	0	1	38	6	98	9	
1985	257	40	128	14	117	9	90	3	263	59	70	15	268	70	11	2	6	4	132	23	
1986	108	8	153	11	161	6	46	5	172	33	54	9	255	68	5	2	46	9	109	16	
1987	219	6	255	6	127	1	14	0	173	19	51	1	207	25	19	11	46	4	121	8	
1988	155	4	121	8	143	1	97	1	547	35	251	11	538	52	22	6	92	10	214	14	
1989	150	2	118	4	104	4	61	3	168	12	72	5	555	34	5	3	27	7	137	8	
1990	50	1	122	10	55	2	50	1	139	25	71	6	578	43	12	3	32	1	121	10	
1991	43	0	135	10	91	3	58	6	187	17	36	2	701	27	4	1	123	12	150	8	
1992	90	4	200	15	76	7	73	1	137	6	66	9	521	32	10	5	92	6	138	9	
1993	50	0	46	1	24	1	17	0	136	7	15	1	106	7	113	10	73	2	63	3	
1994	83	5	36	1	201	2	113	2	b/	b/	46	4	300	19	73	14	86	6	125	7	
1995	57	3	41	4	124	1	41	0	b/	b/	59	4	346	5	43	6	46	1	101	3	

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

Year	River Tributaries																				
	Humbug (Nehalem) (1.0 mile)		Tillamook (1.8 mile)		Niagara (Nestucca) (0.4 mile)		Sunshine (Siletz) (1.2 mile)		Grant (Yaquina) (1.7 mile)		Buck (Alsea) (1.0 mile)		Siuslaw Lake (0.8 mile)		W.F. Millicoma (Coos) (0.5 mile)		Salmon (Coquille) (0.8 mile)		Index Fish Per Mile		
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults
1996	86	2	60	0	40	0	122	0	b/	b/	62	2	614	29	92	3	29	3	147	5	
1997	162	1	47	1	24	1	60	0	b/	b/	49	3	325	9	12	0	108	3	105	2	
1998	93	2	42	1	42	0	83	3	b/	b/	78	0	176	2	29	11	191	7	98	3	
1999	116	3	38	1	60	2	36	3	b/	b/	55	5	478	14	14	3	136	8	124	6	
2000	175	3	40	3	32	2	63	1	b/	b/	38	3	205	18	5	0	83	9	85	5	
2001	220	4	62	6	53	7	195	3	b/	b/	95	6	711	49	30	5	153	22	203	14	
2002	311	1	137	3	124	1	221	1	b/	b/	114	6	834	22	51	12	218	9	268	7	
2003 <sup>c/</sup>	215	6	135	5	27	1	120	3	b/	b/	145	1	1,230	37	209	31	147	2	297	11	

a/ Flows too low to allow spawning.

b/ Survey discontinued; landowner would not allow access.

c/ Preliminary.

TABLE B-12. Estimates of minimum inriver run size, catch, and escapement in thousands of **Columbia River adult spring chinook** destined for areas **below Bonneville Dam**. (Page 1 of 1)

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

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

b/ Prior to 1988, the escapement goal at Willamette Falls was 30,000 to 35,000. Beginning in 1988, the goal is dependent on run size under the Willamette Basin Fish Management Plan. Under this plan, the escapement target is 30,000 adults above Willamette Falls at Willamette River run sizes (run entering the Columbia River) of 70,000 or less and increases linearly (500 per each 1,000 of increased run size) to 45,000 at Willamette River run sizes of 100,000 or greater.

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

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

e/ Preliminary.

TABLE B-13. Estimates of inriver run size, catch, and escapement in thousands of **Columbia River adult spring chinook** destined for areas **above Bonneville Dam**. (Page 1 of 1)

Year or Average	Inriver Run Size	Mainstem							Snake River Escapement <sup>c/</sup>		Upper Columbia River Escapement <sup>d/</sup>	Hatchery Escapement
		Lower River Catch <sup>a/</sup>		Bonneville Dam Count	Commercial Treaty Catch	Treaty Ceremonial/ Subsistence	Zone 6 Escapement <sup>b/</sup>	Total	Wild			
		Commercial	Sport									
1971-1975	167.5	31.4	16.0	120.1	21.3	NA	98.8	28.9	NA	8.2	13.4	
1976-1980	86.2	1.8	2.8	81.6	4.1	2.5	75.5	21.0	3.026	13.9	14.0	
1981-1985	65.6	1.7	0.4	63.6	1.3	2.5	60.0	13.3	5.937	14.0	18.3	
1986-1990	100.2	2.3	1.3	96.5	0.3	6.8	89.5	24.1	5.921	15.4	31.5	
1991	59.9	1.0	1.5	57.3	e/	3.9	53.5	6.6	2.206	7.7	17.5	
1992	90.0	0.4	1.2	88.4	e/	5.7	82.7	21.4	11.134	19.6	30.9	
1993	111.8	0.5	0.4	110.8	0.0	7.3	103.6	21.0	5.871	29.3	36.4	
1994	21.1	0.5	0.4	20.2	e/	1.1	19.0	3.1	1.416	3.1	7.2	
1995	10.2	e/	e/	10.2	e/	0.6	9.6	1.1	0.745	1.1	4.9	
1996	51.5	e/	e/	51.5	0.0	2.8	48.7	4.2	1.358	2.4	17.8	
1997	114.1	e/	e/	114.1	e/	8.3	105.8	33.9	2.126	6.8	29.6	
1998	38.4	e/	e/	38.3	e/	2.2	36.1	9.9	5.089	4.1	11.6	
1999	38.7	e/	e/	38.6	e/	2.0	36.7	3.3	0.594	4.1	18.2	
2000	178.6	0.1	0.1	178.3	e/	9.9	167.0	33.8	3.266	19.1	22.9	
2001	416.5	2.4	22.7	391.4	43.7	10.8	336.8	172.0	16.477	50.4	78.0	
2002	295.1	10.1	16.2	268.8	24.2	8.9	235.7	75.0	34.144	34.1	55.2	
2003 <sup>f/</sup>	209.2	2.8	9.8	195.8	8.3	8.9	177.6	78.3	38.636	18.1	49.1	
<b>GOAL</b>				<b>115.0</b>				<b>35.0</b>	<b>25.000</b>			

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

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

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

d/ Priest Rapids Dam count.

e/ Fewer than 50 fish.

f/ Preliminary.

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

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

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

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

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

d/ Priest Rapids Dam count.

e/ Fewer than 50 fish.

f/ Preliminary.

TABLE B-15. Estimates of inriver run size, catch, and escapement in thousands of **Columbia River adult Spring Creek Hatchery (SCH) stock fall chinook.**<sup>a/</sup> (Page 1 of 1)

Year or Average	Inriver Run Size	Bonneville Dam Count	Harvest				Escapement	
			Treaty Commercial and Subsistence	Non-Indian		Natural	Hatchery <sup>c/</sup>	
				Commercial <sup>b/</sup>	Sport			
1971-1975	105.7	67.6	29.0	37.9	0.3	2.9	17.0	
1976	182.2	142.1	65.6	40.0	0.2	3.1	24.6	
1977	107.7	66.1	19.4	41.5	0.1	1.3	21.5	
1978	99.7	76.2	25.5	23.4	0.2	2.4	18.0	
1979	95.2	72.8	28.8	22.3	0.1	1.9	18.8	
1980	97.8	57.8	23.4	31.8	0.1	2.6	27.0	
1981	86.3	75.6	33.1	3.4	0.0	1.5	25.1	
1982	120.7	80.7	48.9	35.7	0.3	2.5	29.4	
1983	28.9	24.6	7.9	3.6	0.1	1.0	10.1	
1984	47.5	38.1	19.2	5.9	2.3	0.7	9.6	
1985	33.2	29.9	14.1	0.1	0.2	0.5	5.6	
1986	16.6	8.7	5.7	4.1	0.4	0.9	4.1	
1987	9.1	4.5	1.7	1.6	1.2	1.3	2.7	
1988	12.0	6.0	2.9	3.2	0.3	1.6	3.7	
1989	26.8	18.3	12.7	4.6	1.8	2.7	4.3	
1990	18.9	13.5	7.4	1.1	0.4	1.0	8.2	
1991	52.4	41.6	21.0	4.3	3.3	1.3	12.4	
1992	29.5	24.7	9.7	1.0	1.5	1.3	8.8	
1993	16.8	13.4	5.1	0.9	1.0	1.4	7.9	
1994	18.5	15.8	5.0	0.0	0.2	1.9	10.3	
1995	33.8	32.3	16.0	0.0	0.4	1.4	9.1	
1996	33.1	30.3	21.1	1.7	0.9	1.3	7.7	
1997	27.4	23.3	10.3	0.0	3.0	3.2	8.7	
1998	20.2	17.1	4.8	0.0	1.4	2.7	5.4	
1999	50.2	46.8	28.2	0.3	2.6	2.4	14.5	
2000	20.5	18.4	6.4	0.7	0.5	4.1	6.3	
2001	125.0	115.8	52.3	3.6	3.4	2.9	33.7	
2002	163.8	145.2	59.7	10.2	6.6	NA	65.4	
2003 <sup>d/</sup>	194.0	174.0	49.0	14.0	6.0	NA	58.0	
GOAL							7.0 <sup>e/</sup>	

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

b/ Includes Select Area fisheries.

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

d/ Preliminary.

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

TABLE B-16. Estimates of inriver run size, catch, and escapement in thousands of **Columbia River adult lower river hatchery (LRH) stock fall chinook.**<sup>a/</sup> (Page 1 of 1)

Year or Average	Inriver Run Size	Harvest			Escapement	
		Treaty Commercial	Non-Indian		Natural	Hatchery <sup>d/</sup>
			Commercial <sup>b/</sup>	Sport <sup>c/</sup>		
1971-1975	175.9	0.0	78.1	5.4	49.2	43.2
1976	171.0	0.0	63.3	5.3	50.8	51.6
1977	165.1	0.0	74.5	3.9	44.5	42.2
1978	166.5	0.0	58.3	5.8	43.2	59.2
1979	118.7	0.0	43.9	4.0	25.3	45.5
1980	105.6	0.1	57.0	2.9	20.9	24.6
1981	94.9	1.0	21.5	2.9	26.5	42.5
1982	139.5	1.0	47.3	3.9	44.0	42.6
1983	88.1	0.8	14.9	1.5	33.7	36.5
1984	102.4	1.4	26.7	8.8	32.0	27.4
1985	111.0	0.1	17.6	5.3	52.4	35.2
1986	154.8	0.7	75.3	10.8	26.5	41.3
1987	344.1	0.6	179.8	32.6	49.6	80.5
1988	309.9	1.8	178.4	22.0	53.0	53.8
1989	130.9	0.0	31.0	15.3	45.1	39.3
1990	60.0	0.2	4.4	6.4	19.4	29.2
1991	62.7	0.4	7.0	8.3	19.0	27.7
1992	62.6	0.2	2.7	8.6	24.2	26.5
1993	52.3	0.2	4.0	6.0	19.6	22.0
1994	53.6	0.0	0.0	0.2	22.6	30.6
1995	46.3	0.4	0.0	1.8	13.8	30.3
1996	75.5	0.4	3.9	4.6	23.9	42.7
1997	57.4	0.0	2.4	5.4	22.7	24.7
1998	45.3	0.0	0.8	4.5	14.9	23.6
1999	40.0	0.0	2.3	6.1	12.6	19.0
2000	27.0	0.0	1.5	4.0	5.0	6.0
2001	94.3	0.0	4.4	7.4	39.2	43.0
2002	137.7	0.0	8.0	14.2	59.5	56.0
2003 <sup>e/</sup>	190.0	0.0	24.0	11.0	77.0	57.0
GOAL						Hatchery Production

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

b/ Includes select area fisheries.

c/ Includes tributary catches.

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

e/ Preliminary.

TABLE B-17. Estimates of inriver run size, catch, and escapement in thousands of **Columbia River adult lower river wild (LRW) stock fall chinook**. (Page 1 of 1)

Year or Average	Inriver Run Size	Harvest			Escapement	
		Treaty Commercial	Non-Indian		Natural	Hatchery
			Commercial	Sport <sup>a/</sup>		
1971-1975	59.7	0.0	27.9	2.1	29.4	0.1
1976	14.9	0.0	6.1	0.6	8.2	0.0
1977	29.8	0.0	14.4	1.1	14.2	0.1
1978	18.5	0.0	7.1	1.1	10.1	0.2
1979	32.8	0.0	12.6	2.0	17.9	0.3
1980	38.8	0.1	18.4	1.3	18.2	0.6
1981	25.0	0.0	1.4	1.1	21.5	0.9
1982	13.0	0.0	1.2	1.0	10.4	0.3
1983	16.8	0.0	0.6	1.5	14.1	0.6
1984	13.3	0.0	2.9	1.7	8.5	0.2
1985	13.3	0.0	3.6	1.3	7.9	0.4
1986	24.5	0.0	10.1	2.0	12.2	0.0
1987	37.9	0.2	16.4	3.6	17.5	0.2
1988	41.7	0.1	19.3	3.4	18.7	0.2
1989	38.6	0.0	6.7	4.9	26.7	0.3
1990	20.3	0.0	0.9	2.4	16.8	0.2
1991	19.9	0.0	6.4	2.1	11.2	0.0
1992	12.5	0.0	2.3	2.3	7.9	0.0
1993	13.4	0.0	1.6	2.8	8.9	0.1
1994	12.2	0.0	0.3	0.9	10.9	0.0
1995	16.0	0.0	0.0	4.0	11.8	0.1
1996	14.6	0.0	0.3	0.2	13.9	0.1
1997	12.3	0.0	0.0	1.0	11.2	0.0
1998	7.3	0.0	0.0	0.4	6.6	0.0
1999	3.3	0.0	0.0	0.0	3.3	0.1
2000	10.2	0.0	0.5	0.0	9.4	0.2
2001	15.7	0.0	1.4	0.7	13.6	0.0
2002	18.3	0.0	3.2	2.8	12.3	0.0
2003 <sup>b/</sup>	23.0	0.0	5.0	4.0	19.0	0.0
<b>GOAL</b>					<b>5.7<sup>c/</sup></b>	

a/ Includes tributary catches.

b/ Preliminary.

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

TABLE B-18. Estimates of inriver run size, catch, and escapement in thousands of **Columbia River adult upriver bright (URB) stock fall chinook** destined for areas above McNary Dam and the Deschutes River.<sup>a/</sup> (Page 1 of 1)

Year or Average	Inriver Run Size	Bonneville Dam Count	Harvest				Escapement					
			Treaty Commercial and Subsistence	Non-Indian		Natural <sup>c/</sup>	Total		McNary Dam Count	Ice Harbor Dam Count	Total Lower Granite Count	Wild Snake River Lower Granite Count <sup>d/</sup>
				Commercial	Sport <sup>b/</sup>		Hatchery	Deschutes				
1971-1975	110.5	80.4	35.1	29.3	3.1	36.8	2.6	-	39.5	5.6	-	-
1976-1980	92.3	72.4	32.2	19.2	1.0	29.5	2.0	-	31.0	1.2	0.532	0.532
1981-1985	111.9	94.1	26.7	13.9	3.0	46.1	8.1	-	51.0	1.6	0.586	0.450
1986-1990	291.3	222.3	102.1	61.3	12.7	90.5	13.2	-	107.2	4.4	0.691	0.289
1991	102.7	87.3	26.0	13.7	5.9	38.9	3.6	3.7	46.6	4.5	0.630	0.318
1992	81.0	74.0	13.9	5.6	4.0	38.8	9.1	2.8	51.2	4.6	0.855	0.549
1993	102.9	95.5	20.3	5.3	5.3	49.8	9.9	8.3	54.9	2.8	1.170	0.742
1994	132.9	132.8	24.1	0.0	4.8	68.5	14.2	5.5	85.9	2.1	0.791	0.406
1995	106.5	105.6	18.7	0.0	5.4	58.5	10.2	7.6	68.2	2.8	1.067	0.350
1996	143.2	135.5	29.8	3.7	8.9	59.6	15.9	8.8	73.9	3.8	1.308	0.639
1997	161.7	152.9	42.7	1.4	11.5	68.9	13.1	20.8	67.1	2.7	1.451	0.797
1998	142.3	137.5	42.4	2.3	8.1	60.5	14.0	11.4	63.8	4.2	1.909	0.306
1999	166.1	154.9	38.7	2.2	15.2	48.3	30.3	6.9	78.4	6.6	3.381	0.905
2000	155.7	143.6	23.5	4.8	10.2	69.5	10.8	4.3	66.4	6.5	3.602	1.148
2001	232.6	219.8	35.1	8.2	10.1	92.2	21.1	10.6	110.5	4.6	8.700	5.163
2002	285.4	269.8	32.2	4.9	18.1	NA	14.8	NA	141.6	15.4	12.300	2.116
2003 <sup>e/</sup>	380.0	350.0	53.0	12.0	18.0	60.0	9.0	NA	173.7	20.2	11.101	NA
GOAL									40.0 <sup>f/</sup>			

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

b/ Includes tributary and mainstem catches.

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

d/ Adjusted for stray hatchery fish.

e/ Preliminary.

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

TABLE B-19. Estimates of inriver run size, catch, and escapement in thousands of **Columbia River adult mid-Columbia bright (MCB) stock fall chinook** destined for areas below McNary Dam, not including the Deschutes River.<sup>a/</sup> (Page 1 of 1)

Year	Inriver Run Size	Bonneville Dam Count	Harvest				Escapement	
			Treaty Commercial and Subsistence	Non-Indian		Natura I	Hatchery <sup>c/</sup>	
				Commercial	Sport <sup>b/</sup>			
1982	8.8	4.8	2.0	0.7	0.0	0.0	2.9	
1983	14.4	8.1	2.7	1.1	0.1	0.0	4.9	
1984	11.8	5.1	1.6	3.2	0.2	0.0	3.2	
1985	6.1	1.7	1.2	1.7	0.1	0.0	2.8	
1986	17.4	8.4	5.9	6.5	0.4	0.3	2.3	
1987	57.0	26.1	16.0	24.4	1.4	4.7	6.5	
1988	78.0	30.9	21.9	37.9	2.8	5.9	8.5	
1989	93.3	32.0	21.9	46.2	3.7	5.0	14.1	
1990	59.1	26.5	15.4	17.7	3.1	4.8	14.6	
1991	35.9	18.3	6.0	9.1	1.1	4.0	10.3	
1992	31.1	16.8	5.1	5.5	1.8	5.8	9.6	
1993	27.4	16.7	6.8	4.8	1.4	3.1	7.9	
1994	33.7	21.5	4.4	1.2	0.9	10.5	11.4	
1995	34.1	23.5	6.2	0.1	2.8	5.6	14.0	
1996	59.7	38.1	11.9	5.3	3.4	14.0	15.9	
1997	58.9	36.6	11.3	3.3	4.8	13.8	15.8	
1998	36.8	29.9	7.8	3.0	6.1	13.1	8.8	
1999	50.7	40.4	9.6	1.6	5.9	15.7	7.3	
2000	36.8	25.6	6.5	3.1	3.4	8.3	7.8	
2001	76.4	48.1	16.6	7.0	9.4	12.7	13.7	
2002	103.9	57.6	37.1	14.1	13.2	NA	21.9	
2003 <sup>d/</sup>	118.0	80.0	25.0	16.0	2.0	NA	24.2	
GOAL							Hatchery Production	

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

b/ Includes tributary and mainstem catches.

c/ Little White Salmon and Bonneville Hatcheries.

d/ Preliminary.

TABLE B-20. Estimates of **minimum inriver run size and catch** in thousands of adult **spring, summer, and fall chinook** from the **Columbia River**. (Page 1 of 2)

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

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

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

- a/ For spring chinook: lower Willamette, Clackamas, Cowlitz, Kalama, and Lewis rivers (all years); upper Willamette and Sandy rivers for 1998 only. For summer chinook: all tributaries are closed. For fall chinook: all tributaries downstream from Bonneville Dam.
- b/ Includes Youngs Bay, Tongue Point, and Blind Slough/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.<sup>a/</sup> (Page 1 of 1)

Year or Average	Minimum Inriver Run Size	Below Bonneville Dam					Above Bonneville Dam			
		Lower River Catch <sup>b/</sup>			Lower River Escapement		Bonneville Dam Counts <sup>c/</sup>	Mainstem Commercial Treaty Catch	Zone 6 Escapement <sup>f/</sup>	Hatchery Escapement
		Commercial	Buoy 10	Mainstem	Hatchery <sup>d/</sup>	Tributary Dam Counts <sup>e/</sup>				
1971-1975	373.4	199.4	-	11.8	117.1	9.5	35.6	9.1	26.6	11.6
1976-1980	263.3	123.6	-	10.1	102.2	3.6	23.8	2.6	21.2	7.0
1981-1985	305.5	132.0	30.6	11.4	101.3	4.6	31.9	2.6	29.2	12.5
1986-1990	689.2	392.2	82.3	14.5	148.8	5.8	46.3	5.5	40.7	11.5
1991	954.3	407.5	208.7	31.6	243.3	5.5	58.9	6.7	52.2	18.0
1992	217.7	54.1	43.1	9.0	88.6	5.2	17.8	1.0	16.8	5.2
1993	114.2	35.6	20.9	6.9	39.4	0.8	10.6	0.9	9.7	1.7
1994	169.1	60.7	1.8	4.1	78.0	4.1	20.3	1.0	19.3	3.9
1995	75.2	21.4	5.0	3.2	32.2	2.9	10.4	0.3	10.1	1.5
1996	104.6	19.8	4.5	3.9	60.2	0.6	15.7	0.1	15.6	1.4
1997	145.3	16.4	20.4	11.6	69.9	2.8	24.2	0.6	23.6	4.4
1998	164.5	23.0	3.2	6.7	83.8	1.3	46.6	0.2	46.4	11.3
1999	273.6	79.0	8.9	18.1	123.9	1.0	40.7	1.7	39.0	10.0
2000	549.6	168.4	21.5	36.5	232.0	5.6	85.6	6.3	79.3	26.6
2001	1,108.1	253.1	132.0	76.7	378.5	8.2	259.6	5.5	254.0	80.6
2002	511.6	163.0	6.2	35.5	215.2	3.6	88.1	1.6	86.5	2.9
2003 <sup>g/</sup>	694.8	255.7	54.3	29.9	217.9	11.2	125.8	2.6	123.2	3.9
GOAL		Hatchery Production								

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

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

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

d/ Includes hatcheries operated by all agencies.

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

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

g/ Preliminary.

TABLE B-22. Estimated catch and effort in the Buoy 10 fishery.<sup>a/</sup> (Page 1 of 1)

Year	Angler Trips	Catch		Catch Per Trip
		Chinook	Coho	
1982	17,336	723	18,857	1.13
1983	7,128	604	3,574	0.59
1984	67,365	12,177	74,370	1.28
1985	32,156	2,655	25,387	0.87
1986	102,190	15,600	120,422	1.33
1987	124,594	42,100	47,170	0.72
1988	186,051	30,770	143,417	0.94
1989 <sup>b/</sup>	160,692	16,884	85,110	0.63
1990 <sup>c/</sup>	79,636	5,179	18,429	0.30
1991 <sup>d/</sup>	171,680	11,647	208,638	1.28
1992	115,481	10,655	43,082	0.47
1993	75,774	5,288	20,932	0.35
1994	9,253	0	1,795	0.19
1995	25,186	853	5,026	0.23
1996	18,034	1,409	4,537	0.33
1997	55,725	13,153	20,357	0.60
1998	29,998	5,784	3,175	0.30
1999	49,581	9,850	8,861	0.38
2000	72,578	6,085	21,478	0.38
2001 <sup>e/</sup>	125,884	12,709	132,038	1.15
2002 <sup>e/</sup>	84,457	19,438	6,205	0.30
2003 <sup>f/</sup>	88,611	16,294	54,301	0.80

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

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

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

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

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

f/ Preliminary.

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

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

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

b/ Does not include non-local stocks catch.

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

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

e/ Preliminary.

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

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

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

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

c/ Hatchery rack number includes fish released upstream.

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

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

f/ Preliminary

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

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

a/ Age-3 and older.

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

c/ Includes naturally spawning fish taken for broodstock.

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

e/ Fewer than 50 fish.

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

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

h/ Preliminary.

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

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

TABLE B-26. **Grays Harbor coho** terminal catch, spawning escapement, and run size estimates in numbers of fish. (Page 1 of 1)

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

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

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

c/ Preliminary.

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

Year or Average	Spring/Summer Chinook <sup>a/</sup>	Fall Chinook <sup>a/</sup>	Chum	Sockeye
1976-1980	149	4,320	7,960	17,560
1981-1985	114	5,100	4,720	12,600
1986-1990	338	8,822	4,686	11,218
1991	109	6,304	2,565	5,566
1992	142	7,512	2,566	8,801
1993	126	6,695	5,259	32,077
1994	85	6,878	1,449	963
1995	26	4,076	687	207
1996	41	5,221	594	1,244
1997	19	2,625	1,033	2,532
1998	75	6,124	4,700	3,440
1999	10	4,840	583	73
2000	0	3,420	755	0
2001	6	4,047	2,009	0
2002 <sup>b/</sup>	36	4,542	1,148	16,939
2003 <sup>b/</sup>	92	7,433	3,742	37,131

a/ Preliminary. Stock separation under review.

b/ Preliminary.

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

Year or Average	Terminal Catch <sup>a/</sup>			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport	Natural	Hatchery	Natural	Hatchery	Total
1977-1980	9,750	-	-	3,425	2,875	8,475	7,475	17,667
1981-1985	10,700	-	-	4,220	6,300	7,800	13,420	21,220
1986-1990	13,777	-	-	3,177	4,239	7,101	13,206	20,307
1991	21,506	-	-	9,250	22,531	13,166	38,517	51,683
1992	5,214	-	-	4,617	4,855	6,682	7,771	14,453
1993	6,020	-	-	1,940	5,688	3,077	10,057	13,134
1994	1,564	-	-	820	1,299	1,278	2,047	3,325
1995	5,513	-	-	4,969	5,858	6,824	8,970	15,794
1996	10,087	-	-	6,024	9,524	9,330	16,111	25,441
1997	365	-	-	3,150	1,054	3,339	1,118	4,457
1998	5,941	-	-	3,764	3,158	7,142	5,581	12,723
1999	15,492	-	-	12,666	14,617	19,138	23,101	42,239
2000	16,214	-	-	7,138	10,356	14,276	19,182	33,458
2001	25,355	-	-	21,565	30,689	30,016	47,115	77,131
2002 <sup>b/</sup>	19,149	-	-	57,322	16,841	60,543	32,196	92,739
2003 <sup>b/</sup>	22,558	-	-	NA	NA	NA	NA	NA
GOAL						Hatchery Production		

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

b/ Preliminary.

TABLE B-29. Estimated inriver run size, catch, and escapement of **Queets River spring/summer chinook**. (Page 1 of 1)

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

a/ Sport catch of adults.

b/ Natural escapement includes hatchery strays.

c/ Preliminary.

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

TABLE B-30. Estimated inriver run size, catch, and escapement of **Queets River fall chinook**. (Page 1 of 1)

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery	Natural	Hatchery	Total
1976-1980	1,540	100	36	2,820	0	4,320	0	4,320
1981-1985	2,104	20	135	3,720	360	5,691	591	6,282
1986-1990	2,428	20	214	8,298	619	10,677	861	11,538
1991	1,511	20	116	4,486	459	5,888	705	6,593
1992	1,693	20	106	4,695	366	6,338	542	6,880
1993	1,787	20	253	3,383	230	5,107	560	5,667
1994	2,441	20	18	3,805	578	5,866	988	6,854
1995	1,809	20	52	2,876	401	4,355	746	5,101
1996	1,308	20	238	3,441	927	4,693	1,234	5,927
1997	1,708	20	210	2,477	545	4,122	823	4,945
1998	804	20	347	3,951	58	5,009	164	5,173
1999	939	20	93	1,933	135	2,885	220	3,105
2000	262	20	NA	3,572	333	3,752	395	4,147
2001	1,366	20	306	2,859	168	4,222	528	4,750
2002	2,887	20	20	1,938	649	4,250	1,641	5,890
2003 <sup>c/</sup>	1,322	20	473	4,993	203	6,082	874	6,956
GOAL				2,500 <sup>d/</sup>				

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

b/ Includes fish taken for hatchery broodstock.

c/ Preliminary.

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

TABLE B-31. Estimated terminal run size, catch, and escapement for **Queets River coho**. (Page 1 of 1)

Year or Avg.	Terminal Catch <sup>a/</sup>			Escapement			Terminal Run Size			Total
	Gillnet	Ceremonial & Subsistence	River Sport <sup>b/</sup>	Natural <sup>c/</sup>	Supplemental	Hatchery	Natural <sup>c/</sup>	Supplemental	Hatchery	
1976-1980	2,440	60	140	3,460		1,000	5,100		1,640	6,740
1981-1985	2,385	20	104	5,457		2,654	6,414		3,794	10,208
1986-1990	8,453	18	241	4,824	2,128	3,366	6,357	2,988	9,357	17,507
1991	10,342	20	709	6,525	d/	4,129	8,574	d/	12,441	21,015
1992	2,049	20	363	6,266	922	1,402	6,999	998	2,923	10,920
1993	3,896	150	367	5,020	2,208	5,938	5,350	2,482	9,663	17,495
1994	1,611	30	18	1,105	95	2,901	1,242	176	4,222	5,640
1995	4,203	30	103	6,181	592	2,385	7,273	794	5,311	13,378
1996	16,035	30	279	8,993	3,574	5,191	10,715	5,319	17,646	33,680
1997	3,087	30	106	1,851	d/	2,137	1,970	d/	5,086	7,056
1998	7,379	30	135	4,102	1,413	3,504	4,576	1,562	10,364	16,502
1999	3,972	300	119	4,791	521	3,551	5,029	557	7,061	12,647
2000	4,984	30	259	7,939	682	3,849	8,285	698	8,782	17,765
2001	13,722	30	1,542	23,793	1,084	6,594	27,754	2,701	15,477	45,932
2002 <sup>e/</sup>	23,322	30	399	13,772	1,048	2,240	16,119	1,306	23,039	40,465
2003 <sup>e/</sup>	12,692	30	1,901	15,972	714	10,825	19,465	1,052	19,465	39,982
<b>GOAL</b>				<b>5,800-14,500</b>						

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

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

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

d/ Included in natural escapement and run size.

e/ Preliminary.

TABLE B-32. Estimated inriver run size, catch, and escapement for **Hoh River spring/summer chinook** in numbers of fish. (Page 1 of 1)

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

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

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

c/ Sport fishery closed until July 14.

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

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

f/ Preliminary estimate by Hoh Tribe.

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

TABLE B-33. Estimated inriver run size, catch, and escapement for **Hoh River fall chinook** in numbers of fish. (Page 1 of 1)

Year	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery	Natural	Hatchery	Total
1976	500	20	45	2,500	0	3,100	0	3,100
1977	1,600	20	40	2,100	0	3,800	0	3,800
1978	800	100	51	1,900	0	2,900	0	2,900
1979	400	20	28	1,700	0	2,200	0	2,200
1980	500	20	21	2,200	0	2,800	0	2,800
1981	800	20	0	3,100	0	4,000	0	4,000
1982	1,200	20	12	4,500	20	5,800	100	5,900
1983	500	20	134	2,500	20	3,300	100	3,400
1984	800	20	118	1,900	20	2,600	100	2,700
1985	946	100	30	1,725	20	2,720	100	2,820
1986	900	20	178	4,981	20	6,000	100	6,100
1987	1,800	20	299	4,006	20	6,147	89	6,236
1988	2,639	20	224	4,128	20	6,873	100	6,973
1989	2,740	50	197	5,148	60	8,682	100	8,782
1990	1,921	50	169	4,236	46	6,347	50	6,397
1991	1,076	15	130	1,420	0	2,611	13	2,624
1992	940	30	184	4,003	0	5,136	18	5,154
1993	1,148	30	416	2,280	0	3,766	91	3,857
1994	687	30	242	3,967	0	4,806	179	4,985
1995	502	30	194	2,202	0	2,898	22	2,920
1996	836	30	192	3,022	0	4,061	19	4,080
1997	1,114	35	164	1,773	0	3,034	52	3,086
1998	846	30	268	4,257	0	5,388	13	5,401
1999	597	30	413	1,924	0	2,941	22	2,963
2000	404	20	479	1,749	0	2,632	20	2,652
2001	946	40	597	2,560	0	4,113	120	4,233
2002 <sup>c/</sup>	1,461	30	134	4,415	82	5,716	406	6,122
2003 <sup>d/</sup>	517	30	NA	1,417	NA	1,888	46	1,934
GOAL				1,200 <sup>e/</sup>				

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

b/ Includes fish taken for hatchery brood stock.

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

d/ Preliminary.

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

TABLE B-34. Estimated inriver run size, catch, and escapement for **Hoh River coho** in numbers of fish. (Page 1 of 1)

Year	Terminal Catch <sup>a/</sup>			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport <sup>b/</sup>	Natural <sup>c/</sup>	Hatchery	Natural	Hatchery	Total
1976	1,800	50	44	2,300	0	4,200	0	4,200
1977	1,000	30	6	2,400	0	3,400	0	3,400
1978	2,800	125	20	2,100	0	5,100	0	5,100
1979	2,900	100	47	5,000	93	8,200	593	8,793
1980	1,300	65	23	1,700	100	2,515	700	3,215
1981	2,073	40	7	1,900	100	3,245	875	4,120
1982	2,000	100	6	3,600	100	5,351	319	5,670
1983	152	10	9	1,735	260	1,810	346	2,156
1984	351	46	9	7,400	0	7,690	116	7,806
1985	3,410	43	79	2,218	0	5,568	606	6,174
1986	2,800	42	385	4,270	0	6,400	795	7,195
1987	3,917	50	239	3,516	46	7,165	557	7,722
1988	350	20	39	2,350	611	2,639	731	3,370
1989	2,350	20	106	3,497	351	5,428	720	6,148
1990	3,119	20	42	2,094	184	4,460	999	5,459
1991	1,254	20	276	4,129	14	5,370	323	5,693
1992	1,420	30	107	4,045	594	5,007	1,189	6,196
1993	709	30	90	1,345	0	1,874	300	2,174
1994	144	20	123	1,161	0	1,404	44	1,448
1995	478	30	241	4,710	0	5,419	40	5,459
1996	972	50	102	4,858	0	5,835	146	5,981
1997 <sup>d/</sup>	85	25	4	1,386	0	1,449	51	1,500
1998	650	20	213	4,418	0	5,184	118	5,302
1999	1,706	25	256	4,594	0	6,293	308	6,601
2000	1,932	20	287	6,772	0	8,838	173	9,011
2001	3,909	40	824	10,773	840	14,839	1,547	16,386
2002 <sup>e/</sup>	3,114	30	401	9,009	1,922	11,254	3,222	14,476
2003 <sup>f/</sup>	1,872	20	NA	5,115	NA	5,403	288	5,691
GOAL				2,000 to 5,000				

a/ Includes dip-in fish from other systems.

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

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

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

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

f/ Preliminary.

TABLE B-35. Estimated inriver run size, catch, and escapement for **Quillayute River spring/summer chinook** in numbers of fish.  
(Page 1 of 1)

Year or Average	Terminal Catch			Escapement		Terminal Run Size		Total
	Gillnet	Ceremonial and Subsistence	River Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery	Natural	Hatchery <sup>c/</sup>	
1976-1980	2,520	20	380	2,093	800	NA	NA	3,698
1981-1985	700	20	48	731	260	NA	NA	1,164
1986-1990	1,631	22	258	1,602	1,003	3,085	2,503	4,341
1991	1,271	25	381	1,188	781	1,500	2,146	3,646
1992	917	25	295	1,009	1,540	1,271	2,515	3,786
1993	1,237	25	367	1,292	866	1,531	2,256	3,787
1994	570	25	79	974	537	1,187	998	2,185
1995	471	25	341	1,333	438	1,731	877	2,608
1996	136	50	257	1,170	226	1,388	426	1,814
1997	106	50	263	890	198	1,177	305	1,482
1998	199	50	128	1,599	247	1,829	369	2,198
1999	368	50	238	713	596	818	1,147	1,965
2000	254	50	307	989	227	1,149	678	1,827
2001	330	50	353	1,225	973	1,372	1,559	2,931
2002	419	50	361	1,002	836	1,064	1,603	2,667
2003 <sup>d/</sup>	184	50	NA	1,065	1,250	1,111	1,438	2,549
GOAL				1,200 <sup>e/</sup>				

a/ Recreational catch of adults.

b/ Natural escapement includes hatchery strays and broodstock fish.

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

d/ Preliminary.

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

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

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial and Subsistence	River Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery <sup>c/</sup>	Natural	Hatchery <sup>c/</sup>	Total
1976-1980	2,640	20	220	4,220	144	6,540	640	7,180
1981-1985	2,075	50	131	6,282	77	8,219	305	8,525
1986-1990	5,475	50	564	12,238	112	18,004	379	18,383
1991	951	50	376	6,292	13	7,631	51	7,682
1992	1,208	50	200	6,342	14	7,750	62	7,812
1993	407	50	26	5,254	28	5,735	30	5,765
1994	448	50	262	4,932	0	5,692	0	5,692
1995	552	50	582	5,532	0	6,716	0	6,716
1996	1,377	100	500	7,316	0	9,293	0	9,293
1997	282	50	310	5,405	0	6,047	0	6,047
1998	762	100	326	6,752	0	7,940	0	7,940
1999	1,129	100	195	3,334	0	4,758	0	4,758
2000	604	100	360	3,730	0	4,794	0	4,794
2001	1,650	100	673	5,136	0	7,559	0	7,559
2002	3,074	100	271	6,057	0	9,512	0	9,512
2003 <sup>d/e/</sup>	1,345	100	NA	4,578	0	6,023	0	6,023
GOAL				3,000 <sup>f/</sup>				

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

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

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

d/ Preliminary.

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

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

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

Year or Average	Terminal Catch <sup>a/</sup>			Escapement		Terminal Run Size		
	Gillnet	Ceremonial and Subsistence	River Sport <sup>b/</sup>	Natural <sup>c/</sup>	Hatchery <sup>d/</sup>	Natural <sup>c/</sup>	Hatchery <sup>d/</sup>	Total
<b>SUMMER COHO</b>								
1976-1980	5,038	56	266	1,192	4,565	1,962	9,154	11,116
1981-1985	4,062	50	105	946	2,744	2,106	5,802	7,908
1986-1990	3,204	50	94	723	4,001	1,643	6,430	8,072
1991	2,661	50	319	1,001	9,877	1,280	12,628	13,908
1992	1,254	50	491	921	15,376	1,022	17,070	18,092
1993	396	50	63	256	1,654	324	2,095	2,419
1994	974	50	51	683	1,643	999	2,402	3,401
1995	1,144	50	29	1,060	3,957	1,318	4,922	6,240
1996	2,552	50	189	465	3,400	801	5,855	6,656
1997	70	50	14	753	1,509	798	1,598	2,396
1998	1,310	50	93	346	1,688	593	2,894	3,487
1999	945	50	292	624	7,527	723	8,715	9,438
2000	1,188	50	278	1,001	3,745	1,237	5,025	6,262
2001	2,196	50	598	961	12,993	1,857	14,941	16,798
2002 <sup>e/</sup>	3,982	50	149	1,012	3,939	2,086	7,046	9,132
2003 <sup>e/</sup>	2,412	50	NA	505	6,539	1,467	8,039	9,506
GOAL	Hatchery Production							
<b>FALL COHO</b>								
1976-1980	5,985	53	70	9,002	2,435	13,959	3,587	17,546
1981-1985	3,789	49	164	7,464	2,102	10,988	2,580	13,568
1986-1990	5,794	100	385	8,766	1,771	14,119	2,695	16,815
1991	2,078	100	626	9,532	7,168	10,648	8,856	19,504
1992	7,069	100	841	8,170	3,858	13,623	6,415	20,038
1993	1,318	100	60	4,165	3,746	4,676	4,713	9,389
1994	2,138	100	307	4,882	3,090	6,415	4,102	10,517
1995	5,386	100	991	10,035	5,819	14,286	8,045	22,331
1996	8,419	100	1,336	11,009	11,515	14,596	17,783	32,379
1997	456	50	38 <sup>f/</sup>	4,623	2,645	5,021	2,791	7,812
1998	4,606	50	1,340	13,866	12,834	16,980	15,716	32,696
1999	22,946	50	1,054	9,365	13,528	19,524	27,515	47,039
2000	5,606	50	1,059	13,343	13,118	17,706	15,470	33,176
2001	23,991	50	2,620	18,876	23,892	36,714	32,715	69,429
2002	22,214	50	2,002	23,016	30,656	34,789	42,147	76,936
2003 <sup>e/g/</sup>	13,949	50	NA	14,370	13,799	22,068	20,100	42,168
GOAL	6,300-15,800							

a/ Includes dip-in fish from other systems.

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

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

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

e/ Preliminary.

f/ Regulations required nonretention of coho.

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

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

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

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

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

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

b/ Odd-year average.

c/ Fewer than 50 fish.

d/ Preliminary.

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

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

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

b/ Odd years only.

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

d/ Fewer than 50 fish.

e/ Preliminary.

TABLE B-40. Puget Sound **commercial net fishery catches** and **spawning escapements** in numbers of fish for hatchery and natural **Puget Sound chinook stocks.**<sup>a/</sup> (Page 1 of 3)

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

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

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

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

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

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

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

c/ Includes estimated off-station returns.

d/ Fewer than 50.

e/ Preliminary.

TABLE B-41. Puget Sound **commercial net** fishery catches and spawning escapements in numbers of fish for hatchery and natural **Puget Sound coho** stocks.<sup>a/</sup> (Page 1 of 3)

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

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

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

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

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

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

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

c/ Includes estimated off-station returns.

d/ Preliminary.

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

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

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

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

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

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

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

c/ Includes estimated off-station returns.

d/ Preliminary.

e/ Nisqually escapement estimate incomplete in 1993.

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

Year	Stock						
	Skagit Hatchery	Skagit Natural	NF Nooksack Natural <sup>a/</sup>	NF Nooksack Hatchery	SF Nooksack Hatchery/ Natural	White River Hatchery <sup>b/</sup>	Quilcene Hatchery <sup>c/</sup>
1981	9	1,250	NA	NA	NA	197	NA
1982	33	965	NA	NA	NA	43	NA
1983	14	710	NA	NA	NA	49	NA
1984	6	747	13	183	188	51	NA
1985	12	3,249	74	62	445	60	149
1986	27	1,978	65	42	170	192	197
1987	21	1,979	52	285	248	261	115
1988	120	2,064	131	837	233	631	119
1989	298	1,515	87	470	606	438	120
1990	307	1,592	3	109	142	517	76
1991	386	1,411	31	278	365	430	23
1992	249	1,001	143	1,016	103	1,156	20
1993	1,574	788	129	1,364	235	1,029	27
1994	881	899	13	549	118	1,227	10
1995	984	2,010	66	769	290	1,822	16
1996	856	1,728	156	1,070	203	1,972	12
1997	823	581	180	1,667	180	1,655	16
1998	364	1,050	157	1,280	336	1,173	5
1999	3171	471	911	4,019	213	2,789	4
2000	1,102	1,021	1,235	2,052	283	3,189	0
2001	1,566	1,856	2,185	5,363	NA	3,090	0
2002 <sup>d/</sup>	1,606	1,065	3,687	5,649	282	1,071	0
2003 <sup>d/</sup>	1537	785	NA	NA	NA	NA	NA
GOAL		3,000					

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

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

c/ Program has been discontinued.

d/ Preliminary.

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# APPENDIX C

## HISTORICAL RECORD OF OCEAN SALMON FISHERY REGULATIONS AND A CHRONOLOGY OF 2003 EVENTS

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TABLE C-1. Summary of actual **California troll** salmon seasons in state and federal (EEZ) waters. (Page 1 of 6)

Year/Area/Species <sup>a/</sup>	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions <sup>b/</sup>
<b>1971-1978 Statewide</b>			
All except coho	Apr. 15-May 14	30	
All	May 15-Sept. 30	139	
<b>1979 Statewide</b>			
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.
<b>1980 Statewide</b>			
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.
<b>1981 Statewide</b>			
All except coho	May 1-15	15	
All	June 1-30	30	State waters.
All	May 16-31; July 1-Sept. 30	108	
<b>1982 Statewide</b>			
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.
<b>1983 Oregon/California Border to Cape Vizcaino</b>			
All except coho	May 16-31	16	
All	June 1-15; July 1-Aug. 31 <sup>c/</sup>	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	
<b>1984 Oregon/California Border to Pt. Delgada</b>			
All except coho	May 16-June 6; July 16-Aug. 22 <sup>c/</sup>	60	
All	Aug. 16-22 <sup>c/</sup>	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	
<b>1985 Oregon/California Border to Pt. Delgada</b>			
All except coho	Closed		
<u>South of Pt. Delgada</u>			
All except coho	May 1-31	31	
All	June 1-Sept. 30	122	
<b>1986 Oregon/California Border to Pt. Delgada<sup>d/</sup></b>			
All	June 16-19; 23-26; June 30-July 5; July 17-24	22	No more than 2 coho per chinook.
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	

TABLE C-1. Summary of actual **California troll** salmon seasons in state and federal (EEZ) waters. (Page 2 of 6)

Year/Area/Species <sup>a/</sup>	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions <sup>b/</sup>
<b>1987</b>	<u>Oregon/California Border to Pt. Delgada<sup>d/</sup></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	
<b>1988</b>	<u>Oregon/California Border to Horse Mt.<sup>d/</sup></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	
<b>1989</b>	<u>Oregon/California Border to Punta Gorda<sup>d/</sup></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	
<b>1990</b>	<u>Oregon/California Border to Punta Gorda<sup>d/</sup></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	
<b>1991</b>	<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	

TABLE C-1. Summary of actual **California troll** salmon seasons in state and federal (EEZ) waters. (Page 3 of 6)

Year/Area/Species <sup>a/</sup>	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions <sup>b/</sup>
<b>1992</b> <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	
<b>1993</b> <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	
<b>1994</b> <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	
<b>1995</b> <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	
<b>1996</b> <u>Oregon/California Border to Humboldt South Jetty<sup>d/</sup></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 thru 6/30 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 thru 6/30 and 27 in thereafter.

TABLE C-1. Summary of actual **California troll** salmon seasons in state and federal (EEZ) waters. (Page 4 of 6)

Year/Area/Species <sup>a/</sup>	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions <sup>b/</sup>
<b>1997</b> <u>Oregon/California Border to Humboldt South Jetty<sup>d/</sup></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.
<b>1998</b> <u>Oregon/California Border to Humboldt South Jetty<sup>d/</sup></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	
<b>1999</b> <u>Oregon/California Border to Humboldt South Jetty<sup>d/</sup></u>			
All except coho	Sept. 1-30 (7,000 chinook quota, includes 1,000 chinook guideline for area north to House Rock, OR)	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.

TABLE C-1. Summary of actual **California troll** salmon seasons in state and federal (EEZ) waters. (Page 5 of 6)

Year/Area/Species <sup>a/</sup>	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions <sup>b/</sup>
<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.
<b>2000<sup>e/</sup></b>			
<u>Oregon/California Border to Humboldt South Jetty<sup>d/</sup></u>			
All except coho	Sept. 1-30 (7,000 chinook quota includes 1,000 chinook guideline for area north to House Rock, OR)	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.
<b>2001<sup>e/</sup></b>			
<u>Oregon/California Border to Humboldt South Jetty<sup>d/</sup></u>			
All except coho	Sept. 1-30 (8,000 chinook quota includes 2,000 chinook guideline for area north to Humbug Mt., OR)	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.
<b>2002<sup>e/</sup></b>			
<u>Oregon/California Border to Humboldt South Jetty<sup>d/</sup></u>			
All except coho	Aug 16-30 (3,000 chinook quota) Sept. 1-20; 26-27 (10,000 chinook quota)	15 22	Landing limit 40 fish per day; all fish must be landed in the area.
<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 6 of 6)

Year/Area/Species <sup>a/</sup>	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions <sup>b/</sup>
<b>2003<sup>e/</sup></b>			
<u>Oregon/California Border to Humboldt South Jetty<sup>d/</sup></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	

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 <sup>a/</sup>	22 <sup>a/</sup>
	South of Tomales Pt.	Feb. 12-Nov. 13	3	22 <sup>a/</sup>	22 <sup>a/</sup>
1978	North of Tomales Pt.	All Year	3	22 <sup>a/</sup>	22 <sup>a/</sup>
	South of Tomales Pt.	Feb. 18-Nov. 12	3	22 <sup>a/</sup>	22 <sup>a/</sup>
1979	Statewide	Feb. 17-Oct. 14	2	22 <sup>a/</sup>	22 <sup>a/</sup>
1980	Statewide	Feb. 17-Oct. 13	2	22 <sup>a/</sup>	22 <sup>a/</sup>
1981	Statewide	Feb. 14-Nov. 15	2	22 <sup>a/</sup>	22 <sup>a/</sup>
1982	Statewide	Feb. 13-Nov. 14	2	22 <sup>a/</sup>	22 <sup>a/</sup>
1983	Statewide	Feb. 12-Nov. 13	2	22 <sup>a/</sup>	22 <sup>a/</sup>
1984 <sup>b/</sup>	North of Cape Vizcaino	Feb. 18-June 15; July 1-Nov. 18 <sup>c/</sup>	2	20	20
	South of Cape Vizcaino	Feb. 18-Nov. 18	2	20	20
1985 <sup>b/</sup>	Statewide <sup>d/</sup>	Feb. 16-Nov. 17 <sup>c/</sup>	2	20	20
1986 <sup>b/</sup>	North of Pt. Delgada	Feb. 16-Mar. 28; May 24-Sept. 7 <sup>c/</sup>	2 <sup>e/f/</sup>	20	20
	South of Pt. Delgada	Feb. 15-Nov. 16	2	20	20
1987 <sup>g/</sup>	North of Pt. Delgada	May 23-Sept. 13 <sup>c/</sup>	2 <sup>f/</sup>	20	20
	South of Pt. Delgada	Feb. 14-Nov. 15	2	20	20
1988 <sup>g/</sup>	North of Horse Mt.	May 28-Sept. 11 <sup>c/</sup> ; Sept. 12-30 <sup>h/</sup>	2 <sup>f/</sup>	20	20
	South of Horse Mt.	Feb. 13-Nov. 13	2	20	20
1989 <sup>g/</sup>	North of Horse Mt.	May 1-Sept. 30 <sup>c/</sup>	2 <sup>f/</sup>	20	20
	South of Horse Mt.	Feb. 18-Nov. 12	2	20	20
1990 <sup>g/</sup>	North of Horse Mt.	May 1-Sept. 9 <sup>c/</sup> ; Sept. 10-Oct. 31 <sup>h/</sup>	2 <sup>f/i/</sup>	20	20
	South of Horse Mt. <sup>j/</sup>	Feb. 17-Nov. 18	2	20	20
1991 <sup>g/</sup>	North of Horse Mt.	May 25-July 28 <sup>k/</sup> ; Aug. 31-Sept. 30 <sup>c/l/</sup> Oct. 1-31 <sup>h/</sup>	2 <sup>f/m/</sup> 2 <sup>f/</sup>	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 <sup>g/n/</sup>	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 <sup>j/</sup>	Feb. 29-May 31; June 30-Nov. 1 June 1-29 <sup>o/</sup>	2	20	20
	South of Pt. San Pedro	Feb. 29-Nov. 1	2	20	20
1993 <sup>g/</sup>	North of Horse Mt.	May 1-June 19; July 14-Aug. 28 <sup>c/p/</sup> Sept. 1-6	1	20	20
	Horse Mt. to Pt. Arena	Feb. 13-Nov. 14	2	20	20
	South of Pt. Arena <sup>j/</sup>	Feb. 27-Oct. 31	2 <sup>q/</sup>	20	20
1994 <sup>g/</sup>	North of Horse Mt.	May 1-June 7; Aug. 27-31 <sup>c/</sup> ; Sept. 1-5	2 <sup>r/</sup>	20	--
	Horse Mt. to Pt. Arena	Feb. 12-June 30; Aug. 1-Nov. 13	2 <sup>s/</sup>	20	20
	South of Pt. Arena <sup>j/</sup>	Feb. 26-Oct. 30	2 <sup>s/</sup>	20	20
1995 <sup>g/</sup>	North of Horse Mt.	May 17-July 1; Aug. 16-18 <sup>c/p/</sup> ; Sept. 1-9	1 <sup>t/r/</sup>	20	--
	Horse Mt. to Pt. Arena	Feb. 18-June 30; Aug. 1-Nov. 12	2 <sup>s/</sup>	20	20
	South of Pt. Arena <sup>j/</sup>	Mar. 4-Oct. 29	2 <sup>s/</sup>	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 <sup>g/n/</sup>	North of Horse Mt.	May 12-July 7; Aug. 18-Sept. 21 <sup>cl</sup>	1 <sup>f/r/</sup>	20	--
	Horse Mt. to Pt. Arena <sup>t/</sup>	Feb. 17-July 7; Aug. 1-Nov.17	2 <sup>r/</sup>	24	--
	Pt. Arena to Pt. San Pedro <sup>i/t/</sup>	Mar. 2-Oct. 14 <sup>u/</sup>	2 <sup>r/</sup>	24 <sup>y/</sup>	--
	South of Pt. San Pedro <sup>t/</sup>	Mar. 2-Aug. 25 <sup>y/</sup>	2 <sup>r/</sup>	24 <sup>z/</sup>	--
1997 <sup>g/n/</sup>	North of Horse Mt.	May 24-30; June 17-July 6; Aug. 12-Sept. 14 <sup>cl</sup>	1 <sup>f/r/</sup>	20	--
	Horse Mt. to Pt. Arena <sup>t/</sup>	Feb. 15-July 6; Aug. 1-Nov.16	2 <sup>r/</sup>	24	--
	Pt. Arena to Pigeon Pt. <sup>i/t/</sup>	Mar. 29-Nov. 2	2 <sup>r/</sup>	24 <sup>w/</sup>	--
	South of Pigeon Pt. <sup>t/</sup>	Mar. 15-Oct. 19	2 <sup>r/</sup>	24	--
1998 <sup>g/n/</sup>	North of Horse Mt.	May 23-June 10; June 21-July 5; Aug. 11-Sept. 13 <sup>cl</sup>	1 <sup>f/r/</sup>	20	--
	Horse Mt. to Pt. Arena <sup>t/</sup>	Feb. 14-July 5; Aug. 1-Nov.15	2 <sup>r/</sup>	24	--
	Pt. Arena to Pigeon Pt. <sup>i/t/</sup>	Mar. 28-Nov. 1	2 <sup>r/</sup>	24 <sup>w/</sup>	--
	South of Pigeon Pt. <sup>t/</sup>	Mar. 14-Sept. 7	2 <sup>r/</sup>	24	--
1999 <sup>g/n/</sup>	North of Horse Mt.	May 29-July 4; July 29-Sept. 14 <sup>cl</sup>	1 <sup>f/r/</sup>	20	--
	Horse Mt. to Pt. Arena <sup>t/</sup>	Feb. 13-July 4; July 25-Nov.14	2 <sup>r/</sup>	24	--
	Pt. Arena to Pigeon Pt. <sup>i/t/</sup>	Mar. 27-Oct. 31	2 <sup>r/</sup>	24 <sup>w/</sup>	--
	South of Pigeon Pt. <sup>t/</sup>	Mar. 13-Sept. 6	2 <sup>r/</sup>	24 <sup>w/</sup>	--
2000 <sup>n/x/</sup>	North of Horse Mt.	May 27-July 6; July 29-Sept. 10 <sup>cl</sup>	1 <sup>f/r/</sup> 2 <sup>f/r/</sup>	20 20	--
	Horse Mt. to Pt. Arena <sup>t/</sup>	Feb. 12-July 6; July 22-Nov. 12	2 <sup>r/</sup>	20 <sup>y/</sup>	--
	Pt. Arena to Pigeon Pt. <sup>t/</sup>	Apr. 15-Nov. 5	2 <sup>r/</sup>	20 <sup>y/</sup>	--
	South of Pigeon Pt. <sup>t/</sup>	Apr. 1-Oct. 1	2 <sup>r/</sup>	20 <sup>y/</sup>	--
2001 <sup>n/x/</sup>	North of Horse Mt.	May 17-July 8; July 24-Sept. 3 <sup>cl</sup>	2 <sup>f/r/</sup>	20	--
	Horse Mt. to Pt. Arena <sup>t/</sup>	Feb. 17-Nov. 18	2 <sup>r/</sup>	20 <sup>y/</sup>	--
	Pt. Arena to Pigeon Pt. <sup>t/</sup>	Apr. 14-Nov.13	2 <sup>r/</sup>	20 <sup>z/</sup>	--
	South of Pigeon Pt. <sup>t/</sup>	Mar. 31-Sept. 30	2 <sup>r/</sup>	20 <sup>z/</sup>	--
2002 <sup>n/x/</sup>	North of Horse Mt.	May 15-June 30; July 3-4; Aug 1-Sept. 15 <sup>cl</sup>	2 <sup>f/r/</sup>	20	--
	Horse Mt. to Pt. Arena <sup>t/</sup>	Feb. 16-July 7; July 20-Nov. 17	2 <sup>r/</sup>	20 <sup>aa/</sup>	--
	Pt. Arena to Pigeon Pt. <sup>t/</sup>	Apr. 13-Nov.10	2 <sup>r/</sup>	20 <sup>aa/</sup>	--
	South of Pigeon Pt. <sup>t/</sup>	Mar. 30-Sept. 29	2 <sup>r/</sup>	20 <sup>aa/</sup>	--
2003 <sup>n/x/</sup>	North of Horse Mt.	May 17-Sept. 14 <sup>cl</sup>	2 <sup>r/</sup>	20	--
	Horse Mt. to Pt. Arena <sup>t/</sup>	Feb. 15-Nov. 16	2 <sup>r/</sup>	20 <sup>aa/</sup>	--
	Pt. Arena to Pigeon Pt. <sup>t/</sup>	Apr. 12-Nov.9	2 <sup>r/</sup>	20 <sup>aa/</sup>	--
	South of Pigeon Pt. <sup>t/</sup>	Mar. 29-Sept. 28	2 <sup>r/</sup>	20 <sup>aa/</sup>	--

a/ Except that 1 salmon per day could be less than 22 inches, but not less than 20 inches.

TABLE C-2. Summary of actual **California recreational** ocean salmon regulations. (Page 3 of 3)

- 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.
  - 1998-2002 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 8)

Year	Area	Seasons		Number of Days		Minimum Size Limit	
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
<b>1979</b>	North of Cape Falcon	May 1-31	July 1-24; Aug. 4-31 <sup>a/</sup>	31	52	28	16
	Cape Falcon to OR/CA Border	May 1-31; Sept. 4-Oct. 31	July 1-Sept. 3 <sup>b/</sup>	89	65	26	16
	Cape Blanco to Humbug Mt. and Goat Island to OR/CA Border	Nov. 1-30 <sup>c/</sup>	-	30	-	26	-
<b>1980</b>	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 <sup>c/</sup>	-	30	-	26	-
<b>1981</b>	North of Cape Falcon	May 1-31	July 15-Aug. 21 <sup>d/e/</sup>	31	38	28	16
	Cape Falcon to OR/CA Border	May 1-31; Aug. 22-Sept. 8, <sup>f/</sup> Sept. 9-Oct. 31	July 1-Aug. 21 <sup>e/</sup>	102	52	26	16
	Cape Blanco to Humbug Mt. and Goat Island to OR/CA Border	Nov. 1-30 <sup>c/</sup>	-	30	-	26	-
<b>1982</b>	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 <sup>c/</sup>	-	30	-	26	-
<b>1983</b>	North of Cape Falcon	May 1-31	July 1-31, <sup>g/</sup> Aug. 10-Sept. 8 <sup>h/</sup>	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 <sup>i/</sup>	July 1-25	144	25	26	16
	Cape Blanco to OR/CA Border	May 16-31; June 1-15; July 26-Sept. 15; <sup>j/</sup> Oct. 1-31	July 1-25	114	25	26	16
	Cape Blanco to Humbug Mt.	Nov. 1-30 <sup>c/</sup>	-	30	-	26	-
<b>1984</b>	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 <sup>k/</sup>	-	129	-	26	-
	Manhattan Beach to Pyramid Rock	Oct. 1-31 <sup>c/</sup>	-	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 <sup>c/</sup>	-	61	-	26	-	

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 2 of 8)

Year	Area	Seasons		Number of Days		Minimum Size Limit	
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
<b>1985</b>	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 <sup>l</sup>	158	26	26	16
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 30 <sup>cl</sup>	-	61	-	26	-
	Tower Rock to Cape Blanco	Nov. 1-30 <sup>cl</sup>	-	30	-	26	-
<b>1986</b>	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 <sup>m</sup>	160	22	26	16
	Cape Perpetua to Cape Blanco	May 1-June 30; July 25-Oct. 31	July 1-20; July 23-24 <sup>nl</sup>	160	22	26	16
	Twin Rocks to Pyramid Rock	Nov. 1-15	-	15	-	26	-
	Sisters Rocks to Chetco Pt. <sup>ol</sup>	May 1-June 6	-	37	-	26	-
	Cape Blanco to OR/CA Border	July 25-Aug. 26	July 16-19; 23-26; June 30-July 5; July 17-24 <sup>p</sup>	24	22	26	22
	Sisters Rocks to Mack Arch	Aug. 29	-	1	-	26	-
Cape Blanco to Humbug Mt.	Oct. 1-Nov. 26	-	57	-	26	-	
<b>1987</b>	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 <sup>q/r</sup>	121	60	26	16
	Cascade Head to Cape Perpetua	May 1-July 14; Sept. 16-Oct. 31	July 15-28; <sup>q</sup> Aug. 1-Sept. 15 <sup>r/s</sup>	121	60	26	16
	Cape Perpetua to Cape Blanco	May 1-June 30; Sept. 16-Oct. 31 <sup>t</sup>	July 1-28; Aug. 1-Sept. 15 <sup>r/u</sup>	107	74	26	16
	Sisters Rocks to Chetco Pt. <sup>ol</sup>	May 1-14	-	14	-	26	-
	Cape Blanco to OR/CA Border	-	June 1-3; June 7-10; June 14-25 <sup>v</sup>	-	19	26	22
Cape Blanco to Humbug Mt. <sup>cl</sup>	Oct. 1-Nov. 30	-	61	-	26	-	
<b>1988</b>	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 <sup>v</sup>	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. <sup>ol</sup>	May 1-4	-	4	-	26	-
	Orford Reef Red Buoy to OR/CA Border	-	June 5-7	-	3	26	22
	Sisters Rocks to Mack Arch <sup>ol</sup>	Sept. 1-14	-	14	-	26	-
	Orford Reef Red Buoy to Humbug Mt. <sup>cl</sup>	Oct. 1-31	-	31	-	26	-
Cape Blanco to Humbug Mt. <sup>cl</sup>	Nov. 1-30	-	30	-	26	-	

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 3 of 8)

Year	Area	Seasons		Number of Days		Minimum Size Limit	
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
<b>1989</b>	North of Cape Falcon	May 1-June 8; June 13-15	Aug. 21; Aug. 24-Sept. 10 <sup>v/wl</sup>	42	19	28	16
	Cape Falcon to Cascade Head	May 1-July 11; Aug. 18-Oct. 31	July 12-14; July 18-Aug. 17 <sup>xj</sup>	147	34	26	16
	Cascade Head to Cape Arago	May 1-June 23; Aug. 18-Oct. 31	July 1-14; July 18-Aug. 17 <sup>yl</sup>	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 <sup>yl</sup>	115	31	26	16
	Orford Reef Red Buoy to Humbug Mt. <sup>cl</sup>	Oct. 1-31	-	31	-	26	-
	Cape Blanco to Humbug Mt. <sup>cl</sup>	Nov. 1-30	-	30	-	26	-
	Humbug Mt. to OR/CA Border	Aug. 18-20; Aug. 22-31 <sup>zl</sup>	June 5-8 <sup>zl</sup>	13	4	26	22
	Sisters Rocks to House Rock <sup>ol</sup>	May 1-2	-	2	-	26	-
Sisters Rocks to Mack Arch <sup>ol</sup>	Sept. 1-14	-	14	-	26	-	
<b>1990</b>	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 <sup>aa/</sup>	32	48	28	16
	Cape Falcon to Cascade Head	May 1-June 25; July 4-15; Sept. 1-Oct. 31	July 16-Aug. 31 <sup>bb/</sup>	129	47	26	16
	Cascade Head to Cape Arago	May 1-June 25; Aug. 1-Oct. 31	July 4-31 <sup>cc/</sup>	148	28	26	16
	43°30'00"N latitude to Cape Arago <sup>cl</sup>	-	Nov. 1-14 <sup>dd/</sup>	-	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 <sup>cc/</sup>	140	12	26	16
	Sisters Rocks to House Rock <sup>ol</sup>	May 1-24	-	24	-	26	-
	Sisters Rocks to OR/CA Border	Aug. 1-6; Aug. 8-31	-	30	-	26	-
Sisters Rocks to Mack Arch <sup>ol</sup>	Sept. 3-16	-	14	-	26	-	
<b>1991</b>	North of Cape Falcon	May 1-June 15	Aug. 10-11 <sup>ee/</sup> ; Sept. 1-2 <sup>ff/</sup>	46	4	28	16
	Cape Falcon to Cascade Head	May 1-June 30; <sup>gg/</sup> July 15-23; Aug. 1-Oct. 31	July 1-14	162	14	26	16
	Cascade Head to Florence South Jetty	May 1-June 23; <sup>gg/</sup> 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 <sup>cl</sup>	-	15	-	26	-
<b>1992</b>	North of Cape Falcon	May 1-June 15	July 20-21; 25-27; July 31-Aug. 2; Aug. 6-8; 12-14; Aug. 20-22 <sup>gg/hh/ii/</sup>	46	17	28	16
	Cape Falcon to Cascade Head	May 1-31; <sup>gg/</sup> Sept. 1-Oct. 31	July 22-Aug. 21; <sup>pl</sup> Aug. 22-31 <sup>jj/</sup>	92	41	26	16
	Cascade Head to Florence South Jetty	May 1-31; <sup>gg/</sup> Aug. 8-Oct. 31	July 22-Aug. 7 <sup>pl</sup>	116	17	26	16
	Cape Blanco to Humbug Mt.	Oct. 24-26 <sup>cl</sup>	-	3	-	26	-
<b>1993</b>	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 <sup>kk/</sup>	46	29	28	16
	Cape Falcon to Florence South Jetty	May 1-Oct. 31 <sup>gg/</sup>	-	184	-	26	-
	Florence South Jetty to Cape Arago	May 1-June 30; Sept. 1-Oct. 31 <sup>gg/</sup>	-	122	-	26	-
	Cape Arago to Humbug Mt.	May 1-31; Sept. 1-Oct. 31 <sup>gg/</sup>	-	92	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 <sup>cl</sup>	-	30	-	26	-

TABLE C-3. Summary of actual Oregon troll salmon seasons in state and federal (EEZ) waters. (Page 4 of 8)

Year	Area	Seasons		Number of Days		Minimum Size Limit	
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
<b>1994</b>	North of Cape Falcon	-	-	-	-	-	-
	Cape Falcon to Cascade Head	May 1-June 30; Oct. 1-31 <sup>gg/</sup>	-	92	-	26	-
	Twin Rocks to Pyramid Rock	Nov. 1-15 <sup>cl/gg/</sup>	-	15	-	26	-
	Cascade Head to Florence South Jetty	May 1-June 30; Sept. 1-Oct. 31 <sup>gg/</sup>	-	122	-	26	-
	Florence South Jetty to Humbug Mt.	May 1-June 30; Sept. 1-Oct. 31 <sup>gg/</sup>	-	122	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-7 <sup>cl/gg/</sup>	-	7	-	26	-
	Sisters Rocks to House Rock	May 1-2; 5-6; 10-11; 14-15; 18-31 <sup>ol/gg/</sup>	-	22	-	26	-
	Sisters Rocks to Mack Arch	Aug. 8-31 <sup>ol/gg/</sup>	-	24	-	26	-
	Goat Island to Red Pt.	Oct. 10-25; 30-31 <sup>cl/z/gg/</sup>	-	18	-	26	-
<b>1995</b>	North of Cape Falcon	-	-	-	-	-	-
	Cape Falcon to Cape Arago	May 1-June 30; Aug. 1-Oct. 31 <sup>gg/ll/</sup>	-	153	-	26	-
	Cape Arago to Humbug Mt.	May 1-June 30; Sept. 1-Oct. 31 <sup>gg/</sup>	-	122	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-7 <sup>mm/nn/</sup>	-	7	-	26	-
	Sisters Rocks to House Rock	May 1-2; 5-6; 10-11; 14-15; 18-31 <sup>oo/</sup>	-	22	-	26	-
	Sisters Rocks to Mack Arch	July 24-25 <sup>oo/</sup>	-	2	-	26	-
	Goat Island to 42°01'20" N latitude	Oct. 10-20 <sup>pp/nn/</sup>	-	11	-	26	-
<b>1996</b>	North of Cape Falcon	-	-	-	-	-	-
	Cape Falcon to Cape Arago	May 1-Jun. 30; Aug. 7-Oct. 31 <sup>gg/qq/</sup>	-	147	-	26	-
	Cape Arago to OR/CA Border	May 1-4; May 8-11; May 15-June 4 <sup>gg/</sup>	-	29	-	26	-
	Cape Arago to Humbug Mt.	Aug. 7-Oct. 31 <sup>gg/</sup>	-	86	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 <sup>mm/nn/</sup>	-	30	-	26	-
	Sisters Rocks to Mack Arch	Aug. 3-4; 7-8; 11-12; 15-31 <sup>rr/</sup>	-	23	-	26	-
	Goat Island to 42°01'20"N latitude	Oct. 14-31 <sup>nn/pp/</sup>	-	18	-	26	-
<b>1997</b>	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 <sup>gg/qq/</sup>	-	163	-	26	-
	Twin Rocks to Pyramid Rock	Nov. 1-15 <sup>cl/gg/</sup>	-	15	-	26	-
	Cape Arago to OR/CA Border	Apr. 15- May 28	-	44	-	26	-
	Cape Arago to Humbug Mt.	Aug. 1-Oct. 31 <sup>gg/</sup>	-	92	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 <sup>mm/nn/</sup>	-	30	-	26	-
	Sisters Rocks to Mack Arch	Aug. 1-2; 5-6; 9-10; 13-31 <sup>rr/</sup>	-	25	-	26	-
	Goat Island to 42°01'20"N latitude	Oct. 13-25; 29-30 <sup>nn/pp/</sup>	-	15	-	26	-

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 5 of 8)

Year	Area	Seasons		Number of Days		Minimum Size Limit	
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
<b>1998</b>	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 <sup>gg/qq/</sup>	-	166	-	26	-
	Twin Rocks to Pyramid Rock	Nov. 1-15 <sup>c/gg/</sup>	-	15	-	26	-
	Heceta Banks (43°58'00") to Humbug Mt.	Apr. 15-June 30; Aug. 1-26; Sept. 1-Oct 31 <sup>gg/</sup>	-	164	-	26	-
	Humbug Mt. to OR/CA Border	Apr. 15-May 31 <sup>gg/</sup>	-	47	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 <sup>mm/nn/</sup>	-	30	-	26	-
	Sisters Rocks to Mack Arch	Aug. 1-2; 5-6; 9-10; 13-31 <sup>rr/</sup>	-	25	-	26	-
	Goat Island to 42°01'20"N latitude	Oct. 15-31 <sup>nn/pp/</sup>	-	17	-	26	-
<b>1999</b>	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 <sup>gg/qq/</sup>	-	198	-	26	-
	Twin Rocks to Pyramid Rock	Nov. 1-15 <sup>c/gg/</sup>	-	15	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 <sup>mm/nn/</sup>	-	45	-	26	-
	Humbug Mt. to OR/CA Border	May 1-31 <sup>gg/</sup>	-	31	-	26	-
	Sisters Rocks to Mack Arch	Aug. 1-31 <sup>rr/</sup>	-	31	-	26	-
	Goat Island to 42°01'20"N latitude	Oct. 15-31 <sup>nn/pp/</sup>	-	17	-	26	-
	South of House Rock	Sept. 1-30 <sup>ss/</sup>	-	30	-	26	-
<b>2000</b>	North of Cape Falcon	May 1-June 15	Aug. 4-7, 11-14, 18-21, 25-28, Sept. 1-5 <sup>tt/</sup>	46	21	28	16
	Cape Falcon to Humbug Mt.	Apr. 1-July 22; Aug. 1-29; Sept. 1-Oct. 31 <sup>gg/qq/</sup>	-	203	-	26	-
	Twin Rocks to Pyramid Rock	Apr. 1-July 22; Aug. 1-29; Sept. 1-ov. 15 <sup>c/gg/</sup>	-	218	-	26	-
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 <sup>mm/nn/</sup>	-	45	-	26	-
	Humbug Mt. to OR/CA Border	May 1-31 <sup>gg/</sup>	-	31	-	26	-
	Sisters Rocks to OR/CA Border	Aug. 1-11	-	11	-	26	-
	Goat Island to 42°01'20"N latitude	Oct. 16-31 <sup>nn/pp/</sup>	-	16	-	26	-
	South of House Rock	Sept. 1-5 <sup>ss/</sup>	-	5	-	26	-

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 6 of 8)

Year	Area	Seasons		Number of Days		Minimum Size Limit		
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho	
<b>2001</b>	North of Cape Falcon	May 1-June 15	July 20-23, 27-30; Aug. 3-12, 17-27; Aug 31-Sept. 30 <sup>tt</sup>	46	60	28	16	
	Cape Falcon to Florence South Jetty	Apr. 1-July 18; July 27-Aug. 29; Sept. 1-Oct. 31 <sup>gg/qq/</sup>	-	204	-	26	-	
	Twin Rocks to Pyramid Rock (Tillamook Area)	pr. 1-July 18; July 27-Aug. 29; Sept. 1-ov. 15 <sup>c/gg/</sup>	-	219	-	26	-	
	Florence South Jetty to Humbug Mt.	Apr. 1-July 9; July 18-Aug.29; Sept. 1-Oct.31 <sup>gg/</sup>	-	204	-	26	-	
	Cape Blanco to Humbug Mtn.	Nov. 1-Dec. 15 <sup>c/gg/mm/nn/</sup>	-	45	-	26	-	
	Humbug Mt. to OR/CA Border	May 1-31 <sup>gg/</sup>	-	31	-	26	-	
		June 3-4, 7-8,11-12, 15-30 <sup>gg/</sup>	-	22	-	26	-	
		Aug. 1-31 <sup>gg/</sup>	-	31	-	26	-	
	South of Humbug Mt.	Sept. 1 - 30 <sup>gg/uu/</sup>	-	30	-	26	-	
	Twin Rocks (42°05'36"N latitude) to OR/CA Border (Chetco Area)	Oct. 13-31 <sup>c/gg/nn/pp/</sup>	-	19	-	26	-	
<b>2002</b>	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 <sup>tt</sup>	63	22	28	16	
	Cape Falcon to Florence South Jetty	Mar. 20-July 15; Aug. 1-29; Sept. 1- Oct. 31 <sup>gg/</sup>	-	208	-	26	-	
	Twin Rocks to Pyramid Rock (Tillamook Area)	Mar. 20-July 15; Aug. 1-29; Sept. 1-Nov. 14 <sup>c/gg/nn/</sup>	-	222	-	26	-	
	Florence South Jetty to Humbug Mt.	Mar. 20-June 30; July 17-Aug. 29; Sept. 1-Oct. 3 <sup>gg/</sup>	-	208	-	26	-	
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 <sup>c/gg/</sup>	-	45	-	26	-	
	Humbug Mt. to OR/CA Border	Mar. 20-May 31; June 1-30;July1-26; Aug. 1-29; Sept. 1-9 <sup>v/gg/</sup>	-	167	-	26	-	
		Twin Rocks (42°05'36"N latitude) to OR/CA Border (Chetco Area)	Oct. 14-Nov. 3 <sup>c/gg/mm/nn/pp</sup>	-	21	-	26	-

TABLE C-3. Summary of actual **Oregon troll** salmon seasons in state and federal (EEZ) waters. (Page 7 of 8)

Year	Area	Seasons		Number of Days		Minimum Size Limit	
		All-Salmon-Except-Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
<b>2003</b>	North of Cape Falcon	May 1-June 6; June 26-30;	July 3-Sept. 14, Thursday through Monday. <sup>ff</sup>	42	54	28	16
	Cape Falcon to Florence South Jetty	Mar. 15-Apr. 30 May 1-July 16; Aug. 1-19; Sept. 1-30 Oct. 1-31 <sup>gg/</sup>	-	204	-	26 27 28	- - -
	Twin Rocks to Pyramid Rock (Tillamook Area)	Mar. 15-Apr. 30 May 1-July 16; Aug. 1-19; Sept. 1-30 Oct. 1-31 Nov. 1-Nov. 14 <sup>cl/gg/nn/</sup>	-	218	-	26 27 28 26	- - - -
	Florence South Jetty to Humbug Mt.	Mar. 15-Apr. 30 May 1-June 30; July 17-31; Aug. 11-29; Sept. 1-30 Oct. 1-31 <sup>gg/</sup>	-	203	-	26 27 28	- - -
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 <sup>cl/gg/</sup>	-	45	-	26	-
	Humbug Mtn. to OR/CA Border	Mar. 15-May 31; June 1-30; July 1-31; Aug. 1-29; Sept. 1-30 <sup>gg/ww/</sup>	-	198	-	26 28	- -
	Twin Rocks (42°05'36"N latitude) to OR/CA Border (Chetco Area)	Oct. 13-Nov. 3 <sup>nn/pp</sup>	-	22	-	26	-

- 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.
- 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 ≤33 percent 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.

TABLE C-3. Summary of actual Oregon troll salmon seasons in state and federal (EEZ) waters. (Page 8 of 8)

- 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.
- 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 and 2003.
- 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.
- 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.

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 <sup>a/</sup>	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 <sup>b/</sup>	13	2 <sup>c/</sup>	24	-
	South of Cape Falcon	May 10-July 15	67	3	22	16
		July 16-Sept. 1	48	2	22	16
		Sept. 2-14 <sup>b/</sup>	13	2	22	16
	Cape Blanco to Humbug Mt. Goat Island to OR/CA Border	Sept. 15-Oct. 31	60	2 <sup>d/</sup>	22	-
		Nov. 1-30 <sup>b/</sup>	30	2 <sup>c/</sup>	22	-
		Nov. 1-30 <sup>b/</sup>	30	2 <sup>c/</sup>	22	-
1981	North of Cape Falcon	May 23-Aug. 26	108	2	24	16
		Aug. 27-Sept. 7 <sup>b/</sup>	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 <sup>b/</sup>	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 <sup>c/</sup>	22	-
		Nov. 1-30 <sup>b/</sup>	30	2 <sup>c/</sup>	22	-
		Nov. 1-30 <sup>b/</sup>	30	2 <sup>c/</sup>	22	-
		Nov. 1-30 <sup>b/</sup>	30	2 <sup>c/</sup>	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 <sup>b/</sup>	8	2 <sup>e/</sup>	24	16
	Cape Falcon to Cape Blanco	May 29-July 21	54	2 <sup>f/</sup>	None	None
		July 22-Aug. 1 <sup>b/</sup>	11	2 <sup>f/</sup>	None	None
	Cape Blanco to Humbug Mt. Goat Island to OR/CA Border	Aug. 2-Oct. 31	91	2 <sup>c/f/</sup>	None	-
		Nov. 1-30 <sup>b/</sup>	30	2 <sup>c/f/</sup>	None	-
		Nov. 1-30 <sup>b/</sup>	30	2 <sup>c/f/</sup>	None	-
	1983	Klipsan Beach to Cape Falcon	June 18-July 29 <sup>g/h/</sup>	42	2	24
July 30-Aug. 15			17	2	24	16
Columbia River South Jetty to Cape Falcon		Aug. 16-Sept. 11 <sup>i/h/</sup>	44	2	24	16
Cape Falcon to Cape Blanco		June 18-Sept. 18	93	2 <sup>f/</sup>	None	None
Twin Rocks to Pyramid Rock		Sept. 19-Oct. 31 <sup>b/</sup>	43	2 <sup>c/</sup>	24	-
South of Cape Blanco		May 28-Sept. 18	114	2 <sup>f/</sup>	None	None
		Sept. 19-Oct. 31	43	2 <sup>c/f/</sup>	None	None
Cape Blanco to Humbug Mt.		Nov. 1-30 <sup>b/</sup>	30	2 <sup>c/f/</sup>	None	-
1984	Columbia River South Jetty to Cape Falcon Cape Falcon to Cape Blanco	July 28-Aug. 8 <sup>j/h/i/</sup>	12	2 <sup>k/</sup>	None	16
		July 9-Aug. 7	30	2	20	20
	Manhattan Beach to Pyramid Rock South of Cape Blanco	Aug. 25-Sept. 3 <sup>b/</sup>	10	1	20	20
		Sept. 15-21 <sup>b/</sup>	7	2 <sup>c/</sup>	20	-
		July 9-Aug. 7	30	2	20	20
	Cape Blanco to Humbug Mt.	Aug. 8-24	17	2 <sup>c/</sup>	20	-
		Aug. 25-Sept. 3 <sup>b/l/</sup>	10	2 <sup>e/</sup>	20	20
		Sept. 4-Oct. 31	58	2 <sup>c/</sup>	20	-
		Nov. 1-30 <sup>b/</sup>	30	2 <sup>c/</sup>	20	-
1985	Leadbetter Pt. to Cape Falcon	June 30-Aug. 22 <sup>m/h/j/</sup>	40	2	24	16
	Cape Falcon to Cape Blanco	July 1-Sept. 2	64	2 <sup>n/f/</sup>	None	None
	Twin Rocks to Pyramid Rock	Sept. 15-Oct. 31 <sup>b/</sup>	47	2 <sup>c/n/</sup>	None	-
	South of Cape Blanco	May 25-31; July 1-Sept. 2	71	2 <sup>f/n/</sup>	None	None
		Sept. 3-Oct. 31	59	2 <sup>c/f/n/</sup>	None	-
Tower Rock to Humbug Mt.	Oct. 1-Nov. 30 <sup>b/</sup>	61	2 <sup>c/n/</sup>	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 <sup>a/</sup>	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
1986	Columbia River South Jetty to Cape Falcon	June 29-Aug. 19 <sup>f/m/</sup>	37	2	24	16
	Cape Falcon to Cape Blanco	May 24-26; June 28-July 26	32	2 <sup>f/n/</sup>	None	None
		July 27-Aug. 13 <sup>o/</sup>	9	2 <sup>p/f/</sup>	None	None
	Twin Rocks to Pyramid Rock	Sept. 15-Nov. 15 <sup>b/</sup>	62	2 <sup>c/n/</sup>	None	-
	South of Cape Blanco	May 24-June 22	30	2 <sup>q/n/</sup>	20	20
		June 23-Sept. 7	77	2 <sup>n/</sup>	20	20
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 26 <sup>b/</sup>	57	2 <sup>c/n/</sup>	20	-
	Bird Island to OR/CA Bdr. East of 124°20'W longitude	Oct. 1-31 <sup>b/</sup>	31	2 <sup>c/n/</sup>	20	-
1987	North of Cape Falcon	June 29-Aug. 19 <sup>r/h/j/m/</sup>	39	2	24	16
	Cape Falcon to Cape Blanco	June 13-Sept. 13	93	2 <sup>f/n/</sup>	None	None
	Twin Rocks to Pyramid Rock	Sept. 15-Oct. 31 <sup>b/</sup>	46	2 <sup>f/n/</sup>	None	-
	South of Cape Blanco	May 23-Sept. 13	114	2 <sup>n/</sup>	20	20
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 30 <sup>b/</sup>	61	2 <sup>c/n/</sup>	20	-
	Bird Isl. to OR/CA Bdr. East of 124°20'W	Oct. 1-31 <sup>b/</sup>	31	2 <sup>c/n/</sup>	20	-
1988	Klipsan Beach to Cape Falcon	July 11-24 <sup>s/h/m/</sup>	10	2 <sup>j/</sup>	24	16
	Cape Falcon to Orford Reef Red Buoy	May 1-27 <sup>b/u/</sup>	27	2 <sup>n/</sup>	20	16
		May 28-Sept. 11	107	2 <sup>n/</sup>	20	16
	Twin Rocks to Pyramid Rock	Sept. 12-Oct. 31 <sup>b/</sup>	50	2 <sup>c/n/</sup>	None	-
	South of Orford Reef Red Buoy	May 28-July 9	43	2 <sup>n/</sup>	20	20
		July 10-Sept. 11	64	1 <sup>n/</sup>	20	20
	Orford Reef Red Buoy to Humbug Mt.	Oct. 1-31 <sup>b/</sup>	31	2 <sup>c/n/</sup>	None	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 <sup>b/</sup>	30	2 <sup>c/n/</sup>	None	-
1989	North of Cape Falcon	May 28-June 12 <sup>h/v/</sup>	10	2 <sup>o/</sup>	24	-
	Leadbetter Pt. to Cape Falcon	June 26-Aug. 17 <sup>h/m/</sup>	39	2	24	16
	Cape Falcon to Orford Reef Red Buoy	May 1-26 <sup>u/</sup>	26	2 <sup>n/</sup>	20	16
		May 27-July 27	62	2 <sup>n/</sup>	20	16
		July 28-Aug. 20 <sup>m/</sup>	16	2 <sup>n/</sup>	20	16
		Sept. 2-4	3	2 <sup>n/</sup>	20	16
	Twin Rocks to Pyramid Rock	Sept. 16-Oct. 31 <sup>b/</sup>	46	2 <sup>c/n/</sup>	24	-
	South of Orford Reef Red Buoy	May 1-Sept. 30	153	2 <sup>n/</sup>	20	20
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 30 <sup>b/</sup>	61	2 <sup>c/n/</sup>	20	-
1990	Leadbetter Pt. to Cape Falcon	June 24-Aug. 30 <sup>h/m/</sup>	50	2	24	16
	Cape Falcon to Humbug Mt.	May 1-27 <sup>u/</sup>	27	2 <sup>n/</sup>	20	16
		May 28-June 22;	26	2 <sup>n/</sup>	20	16
		June 30-July 31;	32	2 <sup>n/</sup>	20	16
		Aug. 8-Sept. 16	98	2 <sup>n/</sup>	20	16
	Twin Rocks to Pyramid Rock	Sept. 17-Oct. 31 <sup>b/</sup>	45	2 <sup>c/n/</sup>	None	-
	South of Humbug Mt.	May 1-Sept. 9	132	2 <sup>w/n/</sup>	20	20
1991	North of Cape Falcon	June 24-Aug. 12 <sup>h/m/</sup>	36	2	24	16
		Sept. 15-18; Sept. 26 <sup>x/</sup>	5	2	24	16
	Cape Falcon to Humbug Mt.	May 1-26 <sup>u/</sup>	26	2 <sup>n/</sup>	20	16
		May 27-July 28	62	2 <sup>n/</sup>	20	16
	Twin Rocks to Pyramid Rock	Sept. 16-Oct. 31 <sup>b/</sup>	47	2 <sup>c/n/</sup>	None	-
	South of Humbug Mt.	May 25-July 28 <sup>y/</sup>	47	2 <sup>f/n/</sup>	20	20
		Aug. 31-Sept. 2	3	2 <sup>f/n/</sup>	20	20
	Sept. 6-29 <sup>z/</sup>	12	2 <sup>f/n/</sup>	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 <sup>a/</sup>	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
1992	North of Cape Falcon	June 29-July 30 <sup>b/</sup>	24	2 <sup>aa/</sup>	24	16
		Aug. 2-6 <sup>h/m/</sup>	5	2 <sup>aa/</sup>	24	16
		Sept. 14-17; Sept. 27 <sup>h/</sup>	5	2 <sup>aa/</sup>	24	16
	Cape Falcon to Heceta Head	May 3-June 11 <sup>m/u/</sup>	30	2 <sup>bb/aa/</sup>	20	16
		June 14-Sept. 10 <sup>m/</sup>	65	2 <sup>aa/bb/</sup>	20	16
	Twin Rocks to Pyramid Rock	Sept. 16-Oct. 31 <sup>b/</sup>	46	2 <sup>c/n/bb/</sup>	None	-
		May 3-June 11 <sup>m/u/</sup>	30	2 <sup>aa/bb/</sup>	20	16
	Heceta Head to Humbug Mt.	June 14-July 2 <sup>m/</sup>	15	2 <sup>aa/bb/</sup>	20	16
		July 5-Aug. 31 <sup>m/cc/</sup>	42	2 <sup>aa/bb/</sup>	-	16
		Sept. 1-Sept. 10 <sup>m/</sup>	8	2 <sup>aa/bb/</sup>	20	16
	Cape Blanco to Humbug Mt. South of Humbug Mt.	Oct. 24-26 <sup>b/</sup>	3	1 <sup>c/aa/bb/</sup>	20	-
		July 6-20 <sup>dd/</sup>	7	1	20	20
		Sept. 1-7	7	1	20	20
Goat Island to Red Pt.	Oct. 15-26 <sup>b/</sup>	12	1 <sup>c/n/</sup>	20	-	
1993	North of Cape Falcon	July 5-Sept. 9 <sup>h/m/</sup>	49	2 <sup>aa/</sup>	24	16
		Sept. 12-23 <sup>h/</sup>	12	2 <sup>aa/</sup>	24	16
	Cape Falcon to Humbug Mt.	May 1-June 6 <sup>m/u/</sup>	37	2 <sup>b/ff/</sup>	20	16
		July 13-Aug. 10 <sup>ee/</sup>	13	2 <sup>b/ff/</sup>	20	16
	Twin Rocks to Pyramid Rock	Sept. 16-Oct. 31 <sup>b/</sup>	46	2 <sup>c/n/ff/</sup>	None	-
	Cape Blanco to Humbug Mt.	Oct. 1 - Nov. 30 <sup>b/</sup>	61	1 <sup>c/n/ff/</sup>	20	-
	South of Humbug Mt.	May 5-June 19 <sup>gg/</sup>	28	1 <sup>n/</sup>	20	20
		July 14-Aug. 28 <sup>gg/</sup>	28	1 <sup>n/</sup>	20	20
Sept. 1-6	6	1 <sup>n/</sup>	20	20		
1994	North of Cape Falcon	-	-	-	-	
	Cape Falcon to Humbug Mt. Twin Rocks to Pyramid Rock	May 1-June 5 <sup>u/</sup>	36	2 <sup>c/p/ff/</sup>	20	-
		June 6-19 and Oct. 1-Nov. 15 <sup>b/</sup>	60	2 <sup>c/p/ff/</sup>	20	-
	Cape Blanco to Humbug Mt. South of Humbug Mt.	Oct. 1-Nov. 7 <sup>b/</sup>	38	1 <sup>d/aa/</sup>	20	-
		May 1-June 7; Aug. 27-31; Sept. 1-5	48	2 <sup>c/n/</sup>	20	-
	Goat Island to Red Pt.	Oct. 10-20 <sup>b/</sup>	11	1 <sup>d/aa/</sup>	20	-
1995	North of Cape Falcon	July 24-Sept. 5; Sept. 10-11 <sup>m/</sup>	37	2 <sup>aa/cc/hh/</sup>	-	16
	Cape Falcon to Humbug Mt.	May 1-June 30	61	2 <sup>c/ii/</sup>	20	-
	Twin Rocks to Pyramid Rock	Sept. 16-Nov. 15 <sup>b/</sup>	61	2 <sup>d/ii/</sup>	20	-
	Cape Foulweather to Seal Rock	Sept. 16-Oct. 31 <sup>b/</sup>	46	2 <sup>d/ii/</sup>	20	-
	3 Miles North of North Coos Bay Jetty to Cape Arago	Sept. 16-Oct. 31 <sup>b/</sup>	46	2 <sup>d/ii/</sup>	20	-
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 7 <sup>b/</sup>	38	2 <sup>d/aa/ii/</sup>	20	-
	South of Humbug Mt.	May 17-July 1; Aug. 16-18 <sup>gg/</sup>	31	1 <sup>c/</sup>	20	-
		Sept. 1-9	9	1 <sup>c/n/</sup>	20	-
Goat Isl. to 42°01'20" N	Oct. 10-15; 21-22 <sup>b/</sup>	8	1 <sup>d/aa/</sup>	20	-	
1996	North of Cape Falcon	July 22-Sept. 26 <sup>m/</sup>	49	2 <sup>aa/cc/</sup>	-	16
	Cape Falcon to Humbug Mt.	May 1-July 7; Aug. 16-Sep. 30	114	2 <sup>c/n/ij/</sup>	20	-
	Twin Rocks to Pyramid Rock	Oct. 1-31 <sup>b/</sup>	31	2 <sup>aa/d/ij/</sup>	20	-
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 30 <sup>b/</sup>	61	1 <sup>d/aa/</sup>	20	-
	South of Humbug Mt.	May 12-July 7; Aug. 18-Sept. 21	92	1 <sup>c/aa/</sup>	20	-
		Oct. 5-13 <sup>b/</sup>	9	1 <sup>d/aa/</sup>	20	-
1997	North of Cape Falcon	July 21-Aug. 7 <sup>m/</sup>	14	2 <sup>aa/</sup>	24	16
	Cape Falcon to Humbug Mt.	Apr. 15-July 6; Aug. 1-Oct. 31	175	2 <sup>c/n/kk/</sup>	20	-
	Twin Rocks to Pyramid Rock	Apr. 15-July 6; Aug. 1-Nov. 15 <sup>b/</sup>	190	2 <sup>aa/d/kk/</sup>	20	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 <sup>b/</sup>	30	1 <sup>d/aa/</sup>	20	-
	South of Humbug Mt.	May 24-30; June 17-July 6; Aug. 12-Sept. 14	61	1 <sup>c/aa/</sup>	20	-
		Oct. 4-12 <sup>b/</sup>	9	1 <sup>d/aa/</sup>	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 <sup>a/</sup>	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
1998	North of Cape Falcon	Aug. 3-9; Sept. 3 <sup>m/</sup>	6	2 <sup>l/</sup>	24	16
	Cape Falcon to Humbug Mt.	Apr. 15-July 5; Aug. 1-Oct. 31	174	2 <sup>mm/c/n/</sup>	20	-
	Twin Rocks to Pyramid Rock	Apr. 15-July 5; Aug. 1-Nov. 15 <sup>b/</sup>	179	2 <sup>aa/d/?/</sup>	20	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 <sup>b/</sup>	30	1 <sup>d/aa/</sup>	20	-
	South of Humbug Mt.	May 23-June 10; June 21-July 5; Aug. 11-Sept. 13	68	1 <sup>c/aa/</sup>	20	-
	Goat Isl. to 42°01'20"	Oct. 5-14 <sup>b/</sup>	10	1 <sup>d/aa/</sup>	20	-
1999	North of Cape Falcon	July 19-Sept. 30 <sup>nn/</sup>	62	2 <sup>l/</sup>	24	16
	Cape Falcon to Humbug Mt.	Apr. 1-July 9; Aug. 1-Oct. 31	207	2 <sup>c/n/mm/</sup>	20	-
		July 10-11; 14-15; 18-19; 22-23; 26-27; 30-31	12	2 <sup>n/oo/</sup>	20	16
	Twin Rocks to Pyramid Rock	Apr. 1-July 9; Aug. 1-Nov. 15 <sup>b/</sup>	222	2 <sup>d/aa/?/</sup>	20	-
		July 10-11; 14-15; 18-19; 22-23; 26-27; 30-31 <sup>b/</sup>	12	2 <sup>oo/aa/?/</sup>	20	16
	Cape Blanco to Humbug Mt. South of Humbug Mt.	Nov. 1-Dec. 15 <sup>b/</sup> May 29-July 4; July 29-Sept. 14;	45 85	1 <sup>d/aa/</sup> 1 <sup>c/aa/</sup>	20 20	- -
Goat Island to 42°01'20"	Oct. 2-11 <sup>b/</sup>	10	1 <sup>pp/d/</sup>	20	-	
2000	North of Cape Falcon	July 10-Aug. 13 <sup>m/</sup>	25	2 <sup>l/</sup>	24	16
	Cape Falcon to Humbug Mt.	Apr. 1-June 30; July 26-Oct. 31	189	2 <sup>c/n/mm/</sup>	20	-
		July 1-2; 4-6; 8-9; 11-13; 15-16; 18-20; 22-23; 25	18	2 <sup>n/oo/</sup>	20	16
	Twin Rocks to Pyramid Rock	Apr. 1-June 30 <sup>b/</sup>	91	2 <sup>d/p/?/</sup>	20	-
		July 26-Nov. 15 <sup>b/</sup>	76	2 <sup>d/aa/?/</sup>	20	-
		July 1-2; 4-6; 8-9; 11-13; 15-16; 18-20; 22-23; 25 <sup>b/</sup>	18	2 <sup>oo/aa/?/</sup>	20	16
Cape Blanco to Humbug Mt. South of Humbug Mt.	Nov. 1-Dec. 15 <sup>b/</sup> May 27-July 6; July 29-Sept. 10;	45 85	1 <sup>d/aa/</sup> 1 <sup>c/aa/qq/</sup>	20 20	- -	
Goat Isl. to 42°01'20"	Oct. 7-15 <sup>b/</sup>	9	1 <sup>d/pp/</sup>	20	-	
2001	North of Cape Falcon	July 1-Sept. 30 <sup>m/</sup>	98	2 <sup>l/</sup>	24	16
	Cape Falcon to Humbug Mt.	Apr. 1-June 21, July 20-Oct 31	186	2 <sup>c/n/mm/</sup>	20	-
		June 22-July 19	28	2 <sup>n/oo/</sup>	20	16
	Twin Rocks to Pyramid Rock (Tillamook Area)	Apr. 1-June 21 <sup>b/</sup>	82	2 <sup>d/p/?/</sup>	20	-
		July 20-Nov. 15 <sup>b/</sup>	119	2 <sup>d/aa/?/</sup>	20	-
		June 22-July 19 <sup>b/</sup>	28	2 <sup>oo/n/?/</sup>	20	16
Cape Blanco to Humbug Mt. South of Humbug Mt.	Nov. 1-Dec. 15 <sup>b/</sup> May 17-July 8; July 24-Sept. 3;	45 95	2 <sup>d/</sup> 1 <sup>c/aa/r/r/</sup>	20 20	- -	
Twin Rocks( 42°05'36"N) to OR/CA Border (Chetco Area)	Oct. 1-12 <sup>b/</sup>	12	1 <sup>d/pp/</sup>	20	-	
2002	North of Cape Falcon	May 25-June 16	23	2 <sup>c/</sup>	24	-
		July 7-Aug. 8 <sup>m/</sup>	25	2 <sup>c/oo/</sup>	24 <sup>ss/</sup>	16
		Aug. 11-Sept. 2, 6-15	32	2 <sup>tt/</sup>	-	16
	Cape Falcon to Humbug Mt.	Apr. 1-July 6; Aug. 2-Oct. 31	188	2 <sup>c/mm/</sup>	20	-
		July 7- Aug. 1	26	2 <sup>oo/</sup>	20	16
	Twin Rocks to Pyramid Rock (Tillamook Area)	Apr. 1-July 6 <sup>b/</sup>	97	2 <sup>d/mm/</sup>	20	-
		Aug. 2-Nov. 15 <sup>b/</sup>	106	2 <sup>d/aa/mm/</sup>	20	-
		July 7-Aug. 1 <sup>b/</sup>	26	2 <sup>oo/</sup>	20	16
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 <sup>b/</sup>	45	2 <sup>d/</sup>	20	-
	South of Humbug Mt.	May 15-June 30; July 3-4; Aug. 1-Sept. 15	95	2 <sup>c/aa/</sup>	20	-
Twin Rocks( 42°05'36"N) to OR/CA Border (Chetco Area)	Oct.1-13 <sup>b/</sup>	13	1 <sup>d/pp/</sup>	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 <sup>a/</sup>	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
2003	North of Cape Falcon	June 29-Sept. 30	88	2	26	16
	Cape Falcon to Humbug Mt.	Mar. 15-June 20; Aug. 20-Oct. 31	171	2 <sup>c/mm/</sup>	20	-
	Twin Rocks to Pyramid Rock (Tillamook Area)	June 21- Aug. 19	60	2 <sup>oo/</sup>	20	16
		Mar. 15-June 20 <sup>b/</sup>	37	2 <sup>d/mm/</sup>	20	-
	Cape Blanco to Humbug Mt.	Aug. 20-Nov. 15 <sup>b/</sup>	88	2 <sup>d/aa/mm/</sup>	20	-
		June 21-Aug. 19 <sup>b/</sup>	60	2 <sup>oo/</sup>	20	16
	South of Humbug Mt. Twin Rocks( 42°05'36"N) to OR/CA Border (Chetco Area)	Nov. 1-Dec. 15 <sup>b/</sup>	45	2 <sup>d/</sup>	20	-
		May 17-Sep. 14	121	2 <sup>c/</sup>	20	-
		Oct.1-12 <sup>b/</sup>	12	1 <sup>d/pp/</sup>	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.
- 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.

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)

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).
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/	Except 26 inches July 21-Aug. 8
tt/	Open for all salmon except chinook; all retained coho must have a healed adipose fin clip.

TABLE C-5. Summary of actual **Washington non-Indian troll** salmon fishing seasons. (Page 1 of 3)

Year	Area	Seasons		Number of Days		Size Limit <sup>a/</sup>	
		All Salmon Except Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
<b>1971-1975</b>	Statewide	Apr. 15-June 14	June 15-Oct. 31	61	139	26	16 <sup>b/</sup>
<b>1976</b>	Statewide	May 1-June 14	June 15-22; July 1-Oct. 31	45	131	26	16 <sup>b/</sup>
<b>1977</b>	North of Pt. Grenville	May 1-June 14	July 1-Sept. 15	45	77	28 <sup>c/</sup>	16 <sup>b/</sup>
	South of Pt. Grenville	May 1-June 14	July 1-Oct. 9	45	101	28 <sup>c/</sup>	16
<b>1978</b>	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
<b>1979</b>	Statewide	May 1-31	July 1-24; Aug. 4-31 <sup>d/</sup>	31	52	28	16
<b>1980</b>	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
<b>1981</b>	Statewide	May 1-31	July 15-Aug. 21	31	38	28	16
<b>1982</b>	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
<b>1983</b>	Statewide	May 1-31	July 1-31 <sup>e/</sup>	31	31	28	16
<b>1984</b>	Statewide	May 1-7	-	8	-	28	-
	North of Cape Alava	-	Aug. 4-6	-	3	-	16
<b>1985</b>	Statewide	May 1-14; May 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 <sup>f/</sup>	-	-	29	28	-
<b>1986</b>	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
<b>1987</b>	Statewide	May 1-10; May 14-15	-	12	-	28	-
	Cape Alava to Cape Falcon	-	July 25-26	-	2	28	16
<b>1988</b>	Statewide	May 1-June 14	No Fishery	45	0	28	-
<b>1989</b>	South of Queets River	May 1-June 8; June 13-15	-	42	-	28	16
	Carroll Island to U.S./Canada Border	-	Aug. 7-10; Aug. 10-18	-	7	28	16
	Columbia River Red Buoy Line to Cape Falcon	-	Aug. 21 <sup>g/</sup>	-	1	28	16
	Leadbetter Pt. to Cape Falcon	-	Aug. 24-Sept. 10 <sup>g/</sup>	-	18	28	16
<b>1990</b>	Statewide	May 1-14; 18-27; May 31-June 2; June 8-11; June 14	-	32	-	28	-
	-	-	Aug. 18-21; 25-26 <sup>h/</sup>	-	6	28	16
	South of Leadbetter Pt.	-	Aug. 30-Sept. 14; Sept. 18-19; Sept. 22-Oct. 15 <sup>i/</sup>	-	42	28	16
	Cape Alava to South End of Destruction Island	-	Sept. 15-16; Sept. 19-Oct. 31 <sup>j/</sup>	-	45	28	16

TABLE C-5. Summary of actual **Washington non-Indian troll** salmon fishing seasons. (Page 2 of 3)

Year	Area	Seasons		Number of Days		Size Limit <sup>2/</sup>	
		All Salmon Except Coho	All Salmon	All Except Coho	All Salmon	Chinook	Coho
1991	Statewide	May 1-June 15		46	-	28	-
	Carroll Island to U.S./Canada Border	-	Aug. 16-19; 23-26; Aug. 30-Sept. 2; Sept. 6-9; Sept. 13-15 <sup>k/</sup>	-	19	28	16
	Copalis Head to Cape Falcon	-	Sept. 1-2 <sup>l/</sup>	-	2	28	16
	Leadbetter Pt. to Cape Falcon	-	Aug. 10-11 <sup>m/</sup>	-	2	28	16
1992	Statewide	May 1-June 15		46	-	28	16
			July 20-21; <sup>n/</sup> July 25-27; July 31-Aug. 2; Aug. 6-8; Aug. 12-14; Aug. 20-22	-	17	28	16
1993	Statewide	May 1-June 15		46	-	28	-
	Statewide	-	July 14-17; 21-24; 28-31; August 4-6 <sup>p/</sup>	-	15	28	16
	Carroll Island to U.S./Canada Border	Aug. 8-25 <sup>o/</sup>		18 <sup>o/</sup>	-	-	-
	Queets River to Cape Falcon, OR	-	Aug. 27-28; Sept. 1-4; 9-12; Sept. 16-19 <sup>q/</sup>	-	14	28	16
1994	Statewide	-	-	-	-	-	-
1995	Carroll Island to U.S./Canada Border	-	Aug. 5-8; 12-15; 19-22; 26-29; Sept. 2-3 <sup>r/</sup>	-	18 <sup>r/</sup>	-	16
1996	Leadbetter Pt. to U.S./Canada Border	-	July 26-28; Aug. 2-4; 9-11, 16-18; 23-24 <sup>s/</sup>	-	14 <sup>s/</sup>	-	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 <sup>t/</sup>		19	-	28	-
1999	U.S./Canada Border to Cape Falcon	May 1-June 15		46	-	28	-
	Cape Flattery to Cape Alava	-	July 10-13; 17-20; 24-27; 31; Aug. 1-3; <sup>u/</sup>	-	16 <sup>u/</sup>	28	16
	Cape Alava to Leadbetter Pt.	-	July 10-13; 17-20; 24-27; 31; Aug. 1-3; Aug. 14-17; Sept. 5- 13; 22-30 <sup>u/ v/</sup>	-	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 <sup>w/x/</sup>	-	21	28	16
2001	U.S./Canada Border to Cape Falcon	May 1-June 15 <sup>y/z/</sup>		46	-	28	-
	U.S./Canada Border to Leadbetter Point	-	Jul. 1-9 <sup>aa/bb/</sup>	-	9	28	16
	Queets River to Cape Falcon	-	Jul. 20-23; 27-30; Aug. 3-12; 17- 27;31-Sep. 30 <sup>cb/aa/</sup>	-	60	28	16
2002	U.S./Canada Border to Cape Falcon	May 1-June 7 <sup>z/aa/</sup>		38	-	28	16
	U.S./Canada Border to Leadbetter Point	July 1-8, 12-22, 26-Aug. 5, 9-18, 22- 28 <sup>z/aa/dd/ee/</sup>		47	-	28	16
2003	Leadbetter Point to Cape Falcon	July 1-8 <sup>ff/</sup> , 12-22, 26-31 <sup>z/aa/dd/</sup>	Aug. 1-5, 9-18, 22-28 <sup>z/aa/dd/</sup>	25	22	28	16
	U.S./Canada Border to Cape Falcon	May 1-June 6 <sup>gg/</sup> ; June 26-30 <sup>gg/hh/</sup>	July 3-Sept. 14 <sup>gg/ii/</sup>	42	54	28	16

TABLE C-5. Summary of actual **Washington non-Indian troll** salmon fishing seasons. (Page 3 of 3)

- 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.
- 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 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.
- 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.

TABLE C-6. Summary of actual **Washington recreational** ocean salmon regulations.<sup>aj</sup> (Page 1 of 4)

Year	Season	Days	Bag	Minimum Size Limit (Inches)	
				Chinook	Coho
<b>1971-1973</b>	Apr. 15-Oct. 31	200	3	20	20
<b>1974</b>	Apr. 13-Oct. 31	202	3	20	20
<b>1975</b>	Apr. 12-Oct. 31	203	3	20	20
<b>1976</b>	May 1-Oct. 31	184	3	24	16
<b>1977</b>	Apr. 30-Oct. 9	163	3	24	16
<b>1978</b>	Apr. 29-Oct. 31	186	3	24	16
<b>1979</b>	May 12-Sept. 3	115	2+1 <sup>bi</sup>	24	16
<b>1980</b>	May 10-Aug. 25 North	108	3/2 <sup>ci</sup>	24	16
	May 10-Sept. 1 South	115	3/2 <sup>ci</sup>	24	16
<b>1981</b>	May 23-Aug. 26	96	2+1 <sup>di</sup>	24	20
<b>1982<sup>ej</sup></b>	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
<b>1983</b>	May 8-June 17 (Chinook Only) <sup>fi</sup>	21	2	24	-
	June 18-July 29 <sup>gi</sup>	42	2	24	16
	July 1-29 <sup>hi</sup>	29	2	24	16
	July 30-Aug. 15 <sup>ii</sup>	17	2	24	16
	July 30-Sept. 11 <sup>ji</sup>	44	2	24	16
	Aug. 16-Sept. 11 <sup>ki</sup>	27	2	24	16
	<b>1984</b>	May 26-28 (Chinook Only) <sup>fi</sup>	3	2	24
June 25-July 27 (Chinook Only) <sup>ji</sup>	33	1	24	-	
July 28-Aug. 8 (Coho Only) <sup>mi</sup>	12	2	-	16	
July 28-Aug. 15 <sup>hi</sup>	19	1	24	16	
<b>1985</b>	June 30-Aug.22 <sup>ni</sup>	40	2	24	16
	June 30-Sept. 1 <sup>oi</sup>	46	2/1 <sup>oi</sup>	24	16
	June 30-Sept. 8 <sup>pi</sup>	51	2	24	16
<b>1986</b>	June 29-Aug. 14 <sup>qi</sup>	35	2	24	16
	June 29-Aug. 18 <sup>ri</sup>	37	2	24	16
<b>1987</b>	June 28-Aug. 20 <sup>si</sup>	40	2/1 <sup>si</sup>	24	16
	June 28-Aug. 6 <sup>ti</sup>	30	2 <sup>ti</sup>	24	16
	June 28-Aug. 20 <sup>ui</sup>	40	2	24	16
<b>1988</b>	July 3-Aug. 2, Aug. 19, Sept. 2 <sup>vi</sup>	25	2/1 <sup>vi</sup>	24	16
	July 3-31, Aug. 18 <sup>wi</sup>	22	2/1 <sup>wi</sup>	24	16
	July 11-24 <sup>xi</sup>	10	2/1 <sup>xi</sup>	24	16
<b>1989</b>	May 28-June 12 <sup>yi</sup>	6	2	24	-
	July 2-26 <sup>zi</sup>	19	2	24	16
	June 26-Aug. 30 <sup>aa/</sup>	48	2	24	16
	June 26-Aug. 17 <sup>bb/</sup>	39	2	24	16
<b>1990</b>	July 2-Aug. 12, Sept. 8-9 <sup>cc/</sup>	32	2	24	16
	July 2-Sept. 3, Sept. 8-9 <sup>dd/</sup>	48	2	24	16
	June 18-Sept. 20 <sup>ee/</sup>	75	2	24	16
	June 24-Aug. 30, Sept. 8-9 <sup>ff/</sup>	52	2	24	16
<b>1991</b>	July 1-24 <sup>gg/</sup>	18	2	24	16
	July 1-30 <sup>hh/</sup>	22	2	24	16
	June 24-Aug. 12, Sept. 3-4 <sup>ii/</sup>	38	2	24	16
	June 24-Aug. 12 <sup>jj/</sup>	36	2	24	16
	Sept. 15-18, Sept. 26 <sup>kk/</sup>	5	2	24	16
<b>1992</b>	May 1-31 <sup>ll/</sup>	31	2	24	16
	July 6-22 <sup>mm/</sup>	13	2	24	16
	July 13-Aug. 20 <sup>nn/</sup>	29	1	24	16
	Aug. 23-Oct. 1 <sup>oo/</sup>	30	2	24	16
	July 6-Oct. 1 <sup>pp/</sup>	64	2	24	16
	June 29-Aug. 6 <sup>qq/</sup>	29	2	24	16
	Sept. 14-17, Sept. 27 <sup>qq/</sup>	5	2	24	16
<b>1993</b>	May 1-31 <sup>rr/</sup>	31	2	24	16
	July 12-Aug. 22 <sup>ss/</sup>	30	2	24	16
	July 5-Sept. 23 <sup>tt/</sup>	59	2	24	16
	July 5-Sept. 23 <sup>uu/</sup>	59	2	24	16
	July 5-Sept. 9 <sup>vv/</sup>	49	2	24	16
	Sept. 12-23 <sup>ww/</sup>	12	2	24	16
<b>1994</b>	Closed	0	-	-	-
<b>1995</b>	Aug. 1-4 <sup>xx/</sup>	4	2	-	16
	Aug. 1-Sept. 10 <sup>yy/</sup>	29	2	-	16
	July 24-Sept. 17 <sup>zz/</sup>	40	2	-	16
	July 24-Sept. 5; Sept. 10-17 <sup>aa/</sup>	38	2	-	16

TABLE C-6. Summary of actual **Washington recreational** ocean salmon regulations.<sup>a/</sup> (Page 2 of 4)

Year	Season	Days	Bag	Minimum Size Limit (Inches)	
				Chinook	Coho
1996	Aug. 5-31 <sup>xx/</sup>	27	1	-	16
	Aug. 5-Sept. 26 <sup>bbb/</sup>	53	2	-	16
	July 22-Sept. 5 <sup>zz/</sup>	34	2	-	16
	July 22-Sept. 26 <sup>aaa/</sup>	49	2	-	16
1997	July 21-23 <sup>ccc/</sup>	3	2	24	-
	July 21-Aug. 3 <sup>ddd/</sup>	14	2	24	16
	July 21-Sept. 4 <sup>eee/</sup>	34	2	24	16
	July 21-Aug. 7 <sup>fff/</sup>	14	2	24	16
1998	Aug. 3-19 <sup>ggg/</sup>	17	2	-	16
	Aug. 3-9 <sup>ddd/</sup>	7	2	24	16
	Aug. 3-16; Sept. 3 <sup>eee/</sup>	11	2	24	16
	Aug. 3-9; Sept. 3 <sup>fff/</sup>	6	2	24	16
1999	July 19-Sept. 30 <sup>ccc/</sup>	74	2	-	16
	July 19-Sept. 30 <sup>ddd/</sup>	74	2	24	16
	July 19-Sept. 30 <sup>eee/</sup>	62	2	24	16
	July 19-Sept. 30 <sup>fff/</sup>	62	2	24	16
2000	July 3-Aug. 17 <sup>ccc/</sup>	46	2	24	16
	July 3-Aug. 12 <sup>ddd/</sup>	41	2	24	16
	July 3-Aug. 10 <sup>eee/</sup>	29	2	24	16
	July 10-Aug. 13 <sup>fff/</sup>	25	2	24	16
2001	July 1-Sept. 30 <sup>ccc/</sup>	92	2	24	16
	July 1-Oct. 21 <sup>ddd/</sup>	113	2	24	16
	July 1-Sept. 30 <sup>eee/</sup>	74	2	24	16
	July 1-Sept. 30 <sup>fff/</sup>	74	2	24	16
2002	May 25-June 16	23	2	24	-
	July 7-Sept. 8 <sup>ccc/</sup>	64	2	24	16
	July 7-Oct. 6 <sup>ddd/</sup>	80	2	24	16
	June 30-Aug. 19 <sup>eee/</sup>	37	2	24	16
2003	July 7-Sept. 15 <sup>fff/</sup>	68	2	24	16
	June 22-Sept. 14 <sup>ccc/</sup>	85	2	26	16
	June 22-Sept. 14; Sept. 20-Oct 5 <sup>ddd/</sup>	101	2	26	16
	June 22-Sept. 14 <sup>eee/</sup>	77	2	26	16
	June 29-Sept. 30 <sup>fff/</sup>	93	2	26	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.
- 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).

TABLE C-6. Summary of actual **Washington recreational** ocean salmon regulations. (Page 3 of 4)

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 Aug. 1 through Sept. 14; open 7 days per week, 2 fish per day plus one additional pink salmon, only one of which may be a chinook.

TABLE C-6. Summary of actual **Washington recreational** ocean salmon regulations. (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.

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.

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.  
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.  
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.

ggg/ State managed Area 4B add-on fishery in place of ocean opening as agreed to by ports. All except chinook.

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 <sup>a/</sup>
<b>QUINALT, QUILUTE, AND HOH TRIBES</b>				
<u>Statistical Areas 2 and 3 (Ocean Waters 3-200 miles)</u>				
<b>1977-1981</b>	All	May 1-Oct. 31	184	Chinook 28 in., coho 16 in.; except chinook 26 in. during 1977.
<b>1982</b>	All	May 1-Sept. 7	129	Chinook 26 in., coho 16 in. Six-mi. radius closed at mouths of Hoh and Queets rivers when Area 4A closed to non-Indian salmon fishing.
<b>1983</b>	All	May 1-Sept. 15	137	Chinook 26 in., coho 16 in.
<b>1984</b>	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.
<b>1985</b>	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.
<b>1986</b>	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.
<b>1987</b>	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).
<b>1988</b>	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.
<b>1989</b>	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.
<b>1990</b>	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.
<b>1991</b>	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.
<b>1992</b>	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.
<b>1993</b>	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.
<b>1994</b>	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
<b>1995</b>	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.
<b>1996</b>	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.
<b>1997</b>	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.
<b>1998</b>	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 <sup>a/</sup>
<b>1999</b>	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.
<b>2000</b>	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.
<b>2001</b>	Chinook only	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	Jul. 1-Sept. 15	77	Chinook 24 in., coho 16 in. Barbless hooks.
<b>2002</b>	Chinook only	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	Jul. 1-Sept. 15	77	Chinook 24 in., coho 16 in. Barbless hooks.
<b>2003</b>	Chinook only	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	Jul. 1-Sept. 15	77	Chinook 24 in., coho 16 in. Barbless hooks. d/
		Sept. 16-Oct. 15 (Quileute only)	30	Chinook 24 in., coho 16 in. Barbless hooks. d/
<b>MAKAH TRIBE</b>				
<u>Statistical Areas 3N, 4 and 4A (Ocean Waters 3-200 miles)</u>				
<b>1977-1983</b>	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.
<b>1984</b>	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.
<b>1985</b>	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.
	Pink	Aug. 15-31	17	Barbless hooks required except on whole bait and plugs.
<b>1986</b>	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 20 in. Barbless hooks required except on whole bait and plugs.. Landing ratio of at least 1 chinook/20 coho July 13-Aug. 8.
<b>1987</b>	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. 17-25.
<b>1988</b>	All except coho	May 1-July 9	70	Chinook 26 in. Barbless hooks required except on whole bait and plugs.
	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.
<b>1989</b>	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.
<b>1990</b>	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.
<b>1991</b>	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.
<b>1992</b>	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.
<b>1993</b>	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
	All	July 1-Sept. 30	92	Chinook 24 in., coho 16. Barbless hooks.
<b>1994</b>	All except coho	May 1-June 30	61	Chinook 24 in. Barbless hooks.
<b>1995</b>	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.
<b>1996</b>	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.
<b>1997</b>	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.
<b>1998</b>	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 <sup>b/</sup>	28	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 <sup>d/</sup>
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	Jul. 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	Jul. 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	Jul. 1-Sept. 15	77	Chinook 24 in., coho 16 in. Barbless hooks. d/
<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. 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 Coho	Aug. 15-31 Sept. 7-10; Sept. 11-30	17 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 Coho	May 1-31 Aug. 10-12	31 3	Chinook 26 in. Coho 20 in.
	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.
1988	Chinook	May 1-26	26	Chinook 26 in.
	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.
1989	Chinook	May 1-July 9	70	Chinook 26 in.
	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.
1990	Chinook	May 1-June 30	61	Chinook 26 in.
	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.
1991	Chinook	May 1-June 30	61	Chinook 26 in.
	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.
1992	Chinook	May 1-June 30	61	Chinook 24 in.
	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.
1993	Chinook	May 1-June 30	61	Chinook 24 in.
	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.

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 <sup>d/</sup>
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; <sup>e/</sup> 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		
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		
2002	Chinook only	Jan. 1-Apr. 15; May 1-June 30;	273	Chinook 22 in. except 24 in. May-Oct.
	All	Sept. 16-Dec. 31		
2003	Chinook only	Jan. 1-Apr. 15; May 1-June 30;	273	Chinook 22 in. except 24 in. May-Oct.d/
	All	Sept. 16-Dec. 31		
		July 1-Sept. 15	77	Chinook 24 in. Coho 16 in.d/
<b>JAMESTOWN S'KLALLAM TRIBE</b>				
<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.
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.

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 <sup>d/</sup>
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 <sup>d/</sup>	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 <sup>d/</sup>	243	Chinook 22 in. except 24 in. Jul.-Sep. 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. <sup>d/</sup>
	All	Jan. 1-Apr. 15, July 1-Dec. 31	289	Chinook 22 in. except 24 in. July-Oct. Coho 16 in. <sup>d/</sup>

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** for ocean fisheries north of Cape Falcon and **critical stocks** driving management in thousands of fish. (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 <sup>a/</sup>	-	372.0	248.0
1982	None	-	-	-	Washington coastal coho	-	293.0	215.0
1983	Columbia River hatchery and depressed	-	114.0	88.0	Queets and Skagit <sup>b/</sup>	-	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 <sup>c/</sup>	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 <sup>d/</sup>	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 <sup>e/</sup>	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 <sup>f/</sup>
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 <sup>g/</sup>
2000	Columbia River tules and LRW (Lewis River)	25.5	12.5	12.5	Queets, Skagit, Stillaguamish, Snohomish,	20.0	25.0 <sup>g/</sup>	75.0 <sup>g/</sup>
2001 <sup>h/</sup>	Columbia River tules (Coweeman)	37.0	30.0	30.0	OCN	90.0	75.0 <sup>g/</sup>	225.0 <sup>g/</sup>
2002	Columbia River tules (Coweeman)	60.0	82.5	67.5	OCN <sup>i/</sup>	60.0	5.0 <sup>g/</sup>	115.0 <sup>g/</sup>
2003	Columbia River tules (Coweeman) and	60.0	64.4	59.6	OCN	90.0	75.0 <sup>g/</sup>	225.0 <sup>g/</sup>

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).

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, 2003<sup>al</sup> (Page 1 of 4)

**GENERAL MANAGEMENT ACTIONS AND INSEASON CONFERENCES**

Mar. 7	National Marine Fisheries Service (NMFS) provides the Council with a letter outlining the 2003 management guidance for stocks listed under the Endangered Species Act (ESA).
Mar. 14	Council adopts three troll and three recreational ocean salmon fishery management options for public review.
Mar. 20-21	North of Cape Falcon Salmon Forum meets in Olympia, Washington to initiate consideration of recommendations for treaty Indian and non-Indian salmon management options.
Mar. 31-Apr. 1	Council holds public hearings on proposed 2003 management options in three locations within the three Pacific Coast states.
Apr. 2-3	North of Cape Falcon Salmon Forum meets in Seattle, Washington to further consider recommendations for treaty Indian and non-Indian salmon management options.
Apr. 10	Council adopts final ocean salmon fishery management recommendations for approval and implementation by the U.S. Secretary of Commerce. The proposed measures include selective fisheries and 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 6	Ocean salmon seasons are implemented as recommended by the Council and published in the <i>Federal Register</i> on May 6 (68 FR 23913) and May 19 (68 FR 27004).
June 5	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, June 6, 2003, as the 40,000 chinook quota was approached, and the preseason intent to reserve at least 800 chinook for the June 26-30 opening was in jeopardy.
July 18	NMFS inseason conference number two results in opening of the Cape Falcon to Queets River recreational salmon fishery seven days per week, effective July 25.
Aug. 14	NMFS inseason conference number three results in closure of the Cape Falcon to Humbug Mt. selective recreational coho fishery effective August 20, 2003, as the quota of 88,000 adipose fin clipped coho was projected to have been met.
Aug. 20	NMFS inseason conference number four results in a transfer of 5,000 chinook from the recreational fishery north of Cape Falcon to the commercial fishery north of Cape Falcon, resulting in overall chinook quotas of 54,600 and 69,400 for the recreational and commercial fisheries, respectively.

**NON-INDIAN COMMERCIAL TROLL SEASONS**

Mar. 15	<p>Cape Falcon to Florence south jetty, non-Indian commercial all-salmon-except-coho fishery opens through July 16. The fishery reopens August 1 through 19 and September 1 through October 31.</p> <p>Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery opens through June 30. The fishery reopens July 17 through 31; August 11 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 reopens June 1 through the earlier of June 30 or a 2,500 chinook quota; July 1 through the earlier of July 31 or a 1,200 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 40,000 chinook quota.</p> <p>Horse Mt. to Pt. Arena, non-Indian commercial all-salmon-except-coho fishery opens through May 31. The fishery reopens July 3 through 14 and July 18 through September 30.</p> <p>Pt. Arena to U.S./Mexico border, non-Indian commercial all-salmon-except-coho fishery opens through September 30.</p>
May 31	<p>Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery closes. The fishery reopens June 1 through the earlier of June 30 or a 2,500 chinook quota; July 1 through the earlier of July 31 or a 1,200 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> <p>Horse Mt. to Pt. Arena, non-Indian commercial all-salmon-except-coho fishery closes. The fishery reopens July 3 through 14; and July 18 through September 30.</p>

TABLE C-9. Sequence of events in ocean salmon fishery management, 2003<sup>al</sup> (Page 2 of 4)

**NON-INDIAN COMMERCIAL TROLL SEASONS, (continued)**

June 1	Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery reopens through the earlier of June 30 or a 2,500 chinook quota.
June 6	The U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery closes, as the 40,000 chinook quota was approached. The fishery is scheduled to reopen June 26-30 if at least 800 chinook remain on the quota.
June 26	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery opens through the earlier of June 30 or a 40,000 chinook quota, with a 50 fish 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.  Florence South Jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery closes. The fishery reopens July 17 through 31; August 11 through 29; and September 1 through October 31.  The Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery closes as scheduled. The fishery reopens July 1 through the earlier of July 31 or a 1,200 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.
July 1	Humbug Mt. to Oregon/California border, all-salmon-except-coho fishery reopens through the earlier of July 31 or a 1,200 chinook quota.
July 3	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery opens through the earlier of September 14 or a 24,400 chinook guideline or a 75,000 coho quota; the fishery is open Thursday through Monday with a 75 chinook landing limit per vessel for July 3 through 7 and a 150 chinook landing limit per vessel for subsequent five-day open periods. All coho must have a healed adipose fin clip.  Horse Mt. to Pt. Arena, non-Indian commercial all-salmon-except-coho fishery opens through July 14 with a 150 fish per day, per vessel landing limit and a requirement that all fish must be landed within the area and within 24 hours of any closure.
July 14	Horse Mt. to Point Arena, non-Indian commercial all-salmon-except-coho fishery closes. The fishery reopens July 18 through September 30.
July 16	Cape Falcon to Florence south jetty, non-Indian commercial all-salmon-except-coho fishery closes. The fishery reopens August 1 through 19 and September 1 through October 31
July 17	Florence south jetty to Humbug Mt., Oregon, all-salmon-except-coho fishery opens through July 31.
July 18	Horse Mt. to Point Arena, non-Indian commercial all-salmon-except-coho fishery opens through September 30 with no special landing limit or area restrictions.
July 31	Florence south jetty to Humbug Mt., Oregon, all-salmon-except-coho fishery closes. The fishery reopens August 11 through 29; and September 1 through October 31.  Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery closes as scheduled.
Aug. 1	Cape Falcon to Florence south jetty, non-Indian commercial all-salmon-except-coho fishery opens through August 19.  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.
Aug. 19	Cape Falcon to Florence south jetty, non-Indian commercial all-salmon-except-coho fishery closes. The fishery reopens September 1 through October 31.
Aug. 29	Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery closes for two days. The fishery reopens September 1 through October 31.  Humbug Mt. to Oregon/California border, non-Indian commercial all-salmon-except-coho fishery closes as scheduled. The fishery reopens September 1 through the earlier of September 30 or a 3,000 chinook quota.

**NON-INDIAN COMMERCIAL TROLL SEASONS, (continued)**

Sept. 1	<p>Cape Falcon to Florence south jetty, non-Indian commercial all-salmon-except-coho fishery reopens through October 31.</p> <p>Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery reopens through October 31.</p> <p>Humbug Mt. to Oregon/California, border non-Indian commercial all-salmon-except-coho fishery reopens through the earlier of September 30 or a 3,000 chinook quota with a 28 inch minimum size limit.</p> <p>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 10,000 chinook. The fishery has a 40 fish daily vessel landing/possession limit and a requirement that all fish must be landed within the area and within 24 hours of any closure.</p>
Sept. 14	U.S./Canada border to Cape Falcon, non-Indian commercial salmon fishery closes as scheduled.
Sept. 30	<p>Humbug Mt. to Oregon/California border, non-Indian commercial fishery closes as scheduled.</p> <p>Oregon/California border to Humboldt south jetty, non-Indian commercial fishery closes as scheduled.</p> <p>Horse Mt. to Pt. Arena, non-Indian commercial all-salmon-except-coho fishery closes.</p> <p>Pt. Arena to U.S./Mexico border, non-Indian commercial all-salmon-except-coho fishery closes.</p>
Oct. 1	Pt. Reyes to Pt. San Pedro, non-Indian commercial all-salmon-except-coho fishery opens Monday to Friday through October 17.
Oct. 17	Pt. Reyes to Pt. San Pedro, non-Indian commercial all-salmon-except-coho fishery closes.
Oct. 31	<p>Cape Falcon to Florence south jetty non-Indian commercial all-salmon-except-coho fishery closes.</p> <p>Florence south jetty to Humbug Mt., non-Indian commercial all-salmon-except-coho fishery closes.</p>

**TREATY INDIAN COMMERCIAL TROLL SEASONS**

May 1	All-salmon-except-coho fisheries open through the earlier of June 30 or a 30,000 chinook quota for the May through June season (any remainder of the quota is not transferable to the July 1 through September 15 season).
June 30	All-salmon-except-coho fisheries close as scheduled.
July 1	All-salmon fisheries open through the earlier of September 15, a 30,000 chinook quota, or a 90,000 coho quota.
Sept. 15	All-salmon commercial fisheries close.

**RECREATIONAL SEASONS**

Feb. 15	Horse Mt. to Pt. Arena, all-salmon-except-coho fishery opens through November 16.
Mar. 15	Cape Falcon to Humbug Mt., all-salmon-except-coho fishery opens through October 31. The fishery allows retention of adipose fin clipped coho beginning June 21 through the earlier of August 24 or a 88,000 coho quota, then reverts back to all-salmon-except-coho for the remainder of the season.
Mar. 29	Pigeon Pt. to the U.S./Mexico border, all-salmon-except-coho fishery opens through September 28.
Apr. 12	Point Arena to Pigeon Pt., all-salmon-except-coho fishery opens through November 9.
May 17	Humbug Mt. to Horse Mt., all-salmon-except-coho fishery opens through September 14.
June 21	Cape Falcon to Humbug Mt., all-salmon selective coho fishery opens seven days per week through the earlier of August 24 or a quota of 88,000 coho; all coho must have a healed adipose fin clip. The fishery reopens for all salmon, except coho, the earlier of August 25 or the attainment of the coho quota through October 31.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2003<sup>a/</sup> (Page 4 of 4)

**RECREATIONAL SEASONS, (continued)**

June 22	<p>U.S./Canada border to Cape Alava, all-salmon fishery opens seven days per week through the earlier of September 14, a 3,900 chinook guideline, or a 23,400 coho quota. The daily-bag-limit is two fish, only one of which can be a chinook, plus one additional pink salmon; all coho must have a healed adipose fin clip.</p> <p>Cape Alava to Queets River, all-salmon fishery opens seven days per week though the earlier of September 8, a 2,300 chinook guideline, or a 5,750 coho quota. The daily-bag-limit is two fish, only one of which can be a chinook, plus one additional pink salmon; all coho must have a healed adipose fin clip.</p> <p>Queets River to Leadbetter Pt., all-salmon fishery opens though the earlier of September 14, a 40,600 chinook guideline, or a 83,250 coho quota. Fishery runs Sunday to Thursday through July 25, 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.</p>
June 29	<p>Leadbetter Pt. to Cape Falcon, all-salmon fishery opens though the earlier of September 30, a 12,700 chinook guideline, or a 112,500 coho quota. Fishery runs Sunday to Thursday through July 24, 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.</p>
Aug. 19	<p>Cape Falcon to Humbug Mt., all-salmon-selective-coho fishery closes, as the 88,000 coho quota is reached.</p>
Aug. 20	<p>Cape Falcon to Humbug Mt., all-salmon-except-coho fishery reopens through October 31.</p>
Sep. 8	<p>U.S./Canada border to Cape Alava, all-salmon-selective-coho fishery closes as scheduled.</p> <p>Cape Alava to Queets River, all-salmon-selective-coho fishery closes as scheduled.</p> <p>Queets River to Leadbetter Point, all-salmon-selective-coho fishery closes as scheduled.</p>
Sep. 14	<p>Humbug Mt. to Horse Mt., all-salmon-except-coho fishery closes.</p>
Sep. 20	<p>La Push area (Teahwhit Head to "Q" buoy to Cake Rock east to the shoreline), all-salmon-selective-coho fishery reopens through the earlier of October 5, a 100 chinook guideline, or a 100 coho quota.</p>
Sep. 28	<p>Pigeon Pt. to U.S./Mexico border, all-salmon-except-coho fishery closes.</p>
Sep. 30	<p>Leadbetter Pt. to Cape Falcon, all-salmon-selective-coho fishery closes as scheduled.</p>
Oct. 5	<p>La Push area, all-salmon-selective-coho fishery closes as scheduled.</p>
Oct. 31	<p>Cape Falcon to Humbug Mt., all-salmon-except-coho fishery closes.</p>
Nov. 9	<p>Pt. Arena to Pigeon Pt., all-salmon-except-coho fishery closes.</p>
Nov. 16	<p>Horse Mt. to Pt. Arena, all-salmon-except-coho fishery closes.</p>

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	May	June	July	Aug.	Sept.	Season <sup>a/</sup>
	<b>CHINOOK</b>								<b>COHO</b>					
<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	-	8.9	9.7	8.8	9.4	9.1	-	9.2	3.9	4.4	6.0	6.8	7.1	5.6
1982	-	8.0	8.8	9.9	9.7	9.3	-	9.4	3.9	4.9	5.9	6.5	6.5	5.9
1983	-	6.8	7.6	7.6	7.2	-	-	7.5	-	4.4	4.3	4.5	-	4.4
1984	-	7.1	7.2	7.9	8.4	-	-	7.9	-	-	-	7.7	-	7.7
1985	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	9.1	8.3	9.5	8.6	9.1	-	8.7	-	4.7	5.0	-	-	4.8
1987	-	10.2	8.8	9.9	-	10.2	-	8.9	-	5.3	5.5	-	5.5	5.4
1988	-	9.0	9.1	-	-	9.0	-	9.1	-	5.4	-	-	5.6	5.4
1989	-	11.7	12.2	-	9.2	-	-	11.8	-	4.6	-	4.5	-	4.6
1990	-	-	-	-	9.7	-	-	9.7	-	-	-	-	-	-
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 <sup>b/</sup>	-	-	-	-	-	10.1	-	10.1	-	-	-	-	-	-
<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	-	7.6	8.9	9.5	9.4	10.0	-	8.5	3.7	4.6	5.9	6.7	6.7	5.7
1982	-	7.8	9.4	9.6	10.9	9.2	-	9.0	5.1	5.3	5.8	6.6	6.4	5.9
1983	-	7.2	7.6	8.0	7.9	-	-	7.6	5.0	4.3	4.3	5.0	-	4.4
1984	-	7.2	7.0	8.7	8.4	-	-	7.9	-	-	7.6	6.6	-	6.8
1985	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	8.1	10.1	10.8	10.9	-	9.6	-	5.1	5.6	5.9	6.9	5.2
1987	-	-	8.9	-	-	8.2	-	8.8	-	5.2	-	-	6.5	5.3
1988	-	-	8.7	-	-	9.1	-	8.8	-	5.6	-	-	6.1	5.7
1989	-	-	10.3	-	9.9	9.6	9.5	10.0	-	4.7	-	4.9	6.3	4.9
1990	-	-	-	-	9.9	8.4	9.7	9.5	-	-	-	5.7	5.3	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 <sup>b/</sup>	-	-	-	-	-	9.9	-	9.9	-	-	-	-	-	-

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	May	June	July	Aug.	Sept.	Season <sup>a/</sup>
	<b>CHINOOK</b>								<b>COHO</b>					
<u>Fort Bragg</u>														
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	-	8.5	10.5	9.6	9.8	10.5	-	9.7	3.7	5.0	6.1	6.2	7.5	5.8
1982	7.6	9.7	10.8	10.0	11.6	9.9	-	10.1	4.2	6.2	6.1	6.5	7.1	6.2
1983	-	7.1	7.6	7.7	8.4	8.2	-	7.7	6.0	4.2	4.7	5.3	5.5	4.6
1984	-	7.1	10.0	8.8	8.9	9.7	-	9.0	-	7.4	7.3	7.8	8.6	7.4
1985	-	12.5	13.0	11.7	12.9	12.0	-	12.3	-	7.1	7.5	7.3	7.6	7.4
1986	-	8.6	8.4	7.9	9.2	9.3	-	8.4	-	4.9	5.9	6.4	6.1	5.6
1987	-	9.2	10.2	9.6	9.7	10.2	-	9.7	-	5.7	5.8	-	6.4	5.8
1988	-	9.6	10.8	10.1	11.5	10.5	-	10.3	-	5.9	6.6	7.3	6.8	6.4
1989	-	9.7	12.0	9.8	9.3	10.9	-	10.0	-	5.3	5.6	6.0	5.4	5.7
1990	-	9.4	9.5	9.0	10.9	9.5	-	9.4	-	4.8	5.1	6.0	6.4	5.0
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 <sup>b/</sup>	-	14.9	-	12.7	12.1	11.4	-	12.5	-	-	-	-	-	-
<u>San Francisco</u>														
1976-1980	8.5	8.9	9.9	10.8	11.4	11.6	-	9.9	4.2	5.0	6.8	6.8	7.7	5.2
1981	-	8.6	9.8	11.3	11.3	9.9	-	10.4	4.0	6.7	7.0	5.6	10.2	6.4
1982	7.5	9.0	10.1	10.4	11.0	11.2	-	9.9	4.4	5.6	6.6	7.2	7.9	6.2
1983	6.1	6.3	6.9	7.5	8.5	8.3	-	7.1	5.5	3.8	4.6	5.1	4.3	4.6
1984	-	8.0	8.5	9.2	8.8	8.6	-	8.9	-	6.9	7.9	7.6	8.7	7.6
1985	-	10.9	11.8	14.2	12.9	12.4	-	12.2	-	6.6	7.4	7.4	7.9	6.9
1986	-	8.3	8.8	9.4	11.0	13.6	-	9.1	-	5.4	6.2	6.6	5.5	6.0
1987	-	10.1	11.4	11.3	12.3	11.5	-	10.9	-	5.7	5.9	-	-	5.8
1988	-	9.5	11.9	11.7	13.5	12.5	-	11.2	-	6.4	7.2	7.6	7.1	6.9
1989	-	9.1	10.0	11.7	11.9	11.2	-	10.0	-	5.7	5.9	6.1	5.8	5.8
1990	-	9.1	9.1	10.5	13.5	11.9	-	9.5	-	5.0	5.4	6.4	6.5	5.2
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 <sup>b/</sup>	-	12.0	15.0	12.3	12.7	13.2	11.4	13.6	-	-	-	-	-	-

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	May	June	July	Aug.	Sept.	Season <sup>a/</sup>	
	<b>CHINOOK</b>								<b>COHO</b>						
<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	-	7.2	9.3	8.5	11.8	8.7	-	8.0	5.0	4.0	6.9	5.5	10.0	5.7	
1982	8.3	9.1	10.1	10.8	10.8	11.9	-	9.7	6.7	5.5	5.8	8.7	10.4	6.9	
1983	6.3	6.4	7.0	7.9	8.4	9.5	-	7.1	4.4	3.9	5.0	5.9	5.3	4.2	
1984	-	7.8	8.3	9.8	9.5	8.6	-	8.4	-	6.7	7.9	10.7	-	7.0	
1985	-	12.5	13.5	15.0	14.8	12.3	-	13.1	-	5.9	6.9	7.4	7.5	6.5	
1986	-	8.8	9.7	10.1	11.5	11.0	-	9.4	-	5.0	7.4	6.8	8.0	6.3	
1987	-	11.6	12.3	12.3	11.1	11.4	-	11.9	-	5.6	5.6	-	5.2	5.6	
1988	-	10.1	12.5	15.0	16.6	12.5	-	12.3	-	5.8	5.1	6.1	-	5.8	
1989	-	11.1	11.9	12.4	12.4	12.1	-	11.7	-	6.1	5.8	6.7	6.2	6.1	
1990	-	9.8	10.2	11.3	9.7	11.8	-	10.3	-	5.3	6.4	6.3	6.3	5.6	
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 <sup>b/</sup>	-	13.0	14.4	14.0	14.6	13.8	-	13.8	-	-	-	-	-	-	
<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	-	8.0	10.1	10.3	10.0	9.7	-	9.4	3.8	4.6	6.0	6.7	7.1	5.7	
1982	7.9	8.8	10.0	10.2	10.7	10.4	-	9.7	4.9	5.4	6.0	6.6	6.8	6.0	
1983	6.2	6.5	7.4	7.7	8.3	8.4	-	7.3	5.0	4.3	4.4	5.0	4.8	4.4	
1984	-	7.5	8.5	9.1	8.8	9.3	-	8.7	-	6.8	7.7	7.2	8.6	7.4	
1985	-	11.6	12.4	12.7	13.0	12.2	-	12.3	-	7.0	7.5	7.3	7.6	7.3	
1986	-	8.6	8.8	8.9	10.3	11.6	-	9.0	-	5.0	6.0	6.4	6.1	5.5	
1987	-	10.1	10.4	10.3	10.7	10.5	-	10.3	-	5.4	5.8	-	6.4	5.6	
1988	-	9.7	11.3	11.3	12.9	11.0	-	11.0	-	5.8	6.6	7.4	6.2	6.3	
1989	-	9.7	10.7	10.7	10.4	10.9	9.5	10.3	-	5.1	5.7	5.9	5.9	5.5	
1990	-	9.4	9.5	10.4	11.3	10.1	9.7	9.7	-	4.9	5.4	6.2	5.6	5.1	
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	14.9	12.8	-	-	-	-	-	-	
2003 <sup>b/</sup>	-	13.3	14.9	12.7	12.2	11.7	11.4	13.0	-	-	-	-	-	-	

a/ Season average includes minor catches for Oct. where appropriate.

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
<b>CHINOOK</b>										
1971-1975	-	9.4	10.8	10.4	10.1	9.2	11.0	16.3	-	10.2
1976-1980	-	10.1	10.3	10.5	10.1	9.8	10.6	15.6	-	10.3
1981-1985	-	9.2	9.3	9.7	9.1	9.0	11.4	14.9	-	9.4
1986-1990	-	9.3	9.4	9.6	9.0	9.3	10.5	14.0	-	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 <sup>a/</sup>	9.9	11.6	11.2	11.8	11.4	10.5	10.4	15.6	15.2	10.9
<b>COHO</b>										
1971-1975	-	-	5.1	6.1	7.0	7.2	7.9	-	-	6.2
1976-1980	-	-	4.6	5.6	6.3	6.1	6.7	-	-	5.6
1981-1985	-	-	4.6	4.9	5.4	4.9	6.7	-	-	5.1
1986-1990	-	-	4.7	4.9	5.1	5.2	7.0	-	-	5.0
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 <sup>a/</sup>	-	-	-	5.2	6.7	6.7	-	-	-	6.4

a/ Preliminary.

TABLE D-3. Washington monthly troll chinook and coho salmon average dressed weights (pounds).<sup>a/b/</sup> (Page 1 of 2)

Year	May		June		July		Aug.		Sept.		Oct.		Season <sup>c/</sup>	
	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
<b>CHINOOK</b>														
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 <sup>d/</sup>	11.9	-	-	-	-	-	-	-	8.1	9.3 <sup>d/</sup>
1995	5.7	-	6.7	-	6.0	-	7.7	9.1 <sup>d/</sup>	6.2	9.4 <sup>d/</sup>	4.2	8.3 <sup>d/</sup>	6.9	8.4 <sup>d/</sup>
1996	5.8	-	6.2	12.9 <sup>d/</sup>	-	12.6 <sup>d/</sup>	7.8	-	6.7	-	-	-	6.9	12.4 <sup>d/</sup>
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

TABLE D-3. Washington monthly troll chinook and coho salmon average dressed weights (pounds).<sup>a/b/</sup> (Page 2 of 2)

Year	May		June		July		Aug.		Sept.		Oct.		Season <sup>c/</sup>	
	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian										
<b>COHO</b>														
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

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.<sup>a/</sup> (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 (2003 dollars)
1960	6,221	3,339	1,365	-	2,446	12,281
1961	8,638	4,698	1,615	-	2,909	14,442
1962	6,673	4,023	1,563	-	2,574	12,606
1963	7,849	3,959	1,611	-	2,457	11,910
1964	9,481	5,013	1,774	-	2,826	13,489
1965	9,674	4,989	2,001	-	2,493	11,688
1966	9,447	4,845	1,929	-	2,512	11,448
1967	7,402	3,945	2,137	-	1,846	8,162
1968	6,952	4,014	2,249	-	1,785	7,568
1969	6,151	3,843	2,125	-	1,808	7,306
1970	6,629	5,101	2,065	-	2,470	9,477
1971	8,117	4,757	2,221	-	2,142	7,826
1972	6,423	4,830	2,392	-	2,019	7,071
1973	9,669	8,991	2,848	-	3,157	10,471
1974	8,749	8,013	3,185	-	2,516	7,654
1975	6,925	6,972	3,150	-	2,213	6,153
1976	7,788	10,707	3,526	-	3,037	7,980
1977	5,920	12,074	3,797	-	3,180	7,857
1978	6,788	11,001	4,919	-	2,236	5,163
1979	8,746	19,659	4,593	-	4,280	9,126
1980	6,017	13,149	4,738	-	2,775	5,425
1981	6,012	14,322	4,102	-	3,491	6,239
1982	8,000	19,489	4,013	5,964	4,856	8,179
1983	2,411	4,608	3,223	4,617	1,430	2,316
1984	2,970	7,562	2,569	4,180	2,944	4,596
1985	4,600	11,515	2,308	3,869	4,989	7,560
1986	7,598	15,112	2,582	3,753	5,853	8,678
1987	9,293	25,623	2,442	3,533	10,493	15,143
1988	14,750	41,927	2,571	3,493	16,308	22,759
1989	5,720	13,485	2,534	3,464	5,322	7,156
1990	4,436	12,056	2,115	3,372	5,700	7,380
1991	3,697	9,047	1,769	3,242	5,114	6,398
1992	1,643	4,505	1,085	2,974	4,152	5,078
1993	2,537	5,707	1,240	2,741	4,602	5,501
1994	3,103	6,437	1,024	2,470	6,286	7,357
1995	6,633	11,693	1,104	2,344	10,591	12,148
1996	4,113	5,984	985	2,221	6,075	6,838
1997	5,247	7,288	835	2,076	8,728	9,663
1998	1,847	3,060	670	1,899	4,567	5,001
1999	3,846	7,429	666	1,788	11,155	12,040
2000	5,131	10,303	757	1,725	13,611	14,378
2001	2,408	4,761	689	1,653	6,910	7,130
2002	5,008	7,776	708	1,581	10,982	11,161
2003 <sup>b/</sup>	6,356	12,089	582	1,518	20,772	20,772

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.<sup>a/</sup> (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 (2002 dollars)
1974	-	7,937	2,253	-	3,523	10,717
1975	-	5,808	2,304	-	2,521	7,007
1976	10,983	14,868	2,770	-	5,368	13,929
1977	6,209	11,484	3,108	-	3,695	8,906
1978	4,673	7,340	3,158	-	2,324	5,366
1979	7,166	16,989	3,114	-	5,456	11,632
1980	4,362	8,185	3,875 <sup>b/</sup>	4,314	2,112	4,129
1981	4,897	9,573	3,615	3,926	2,648	4,732
1982	5,060	9,895	3,269	3,646	3,027	5,098
1983	1,753	2,296	2,951	3,439	778	1,260
1984	621	1,595	771 <sup>c/</sup>	3,203	2,069	3,264
1985	2,514	5,774	2,050 <sup>d/</sup>	2,993	2,817	4,268
1986	5,275	7,954	2,288	2,739	3,476	5,154
1987	7,098	16,763	2,111	2,626	7,941	11,460
1988	7,723	21,536	2,061	2,597	10,449	14,583
1989	5,528	10,025	1,937	2,569	5,176	6,960
1990	2,815	6,641	1,557	2,528	4,265	5,522
1991	2,106	3,120	1,217	2,044 <sup>e/</sup>	2,564	3,207
1992	1,219	2,712	649	2,111	4,179	5,110
1993	770	1,671	612	1,814	2,735	3,264
1994	287	690	371	1,569	1,859	2,177
1995	1,941	3,294	476	1,465	6,920	7,937
1996	1,926	3,007	455	1,377	6,609	7,439
1997	1,542	2,469	433	1,295	5,702	6,313
1998	1,398	2,297	373	1,201	6,159	6,744
1999	722	1,401	328	1,111	4,271	4,610
2000	1,552	3,064	399	1,062	7,679	8,112
2001 <sup>f/</sup>	2,949	4,721	449	1,175	10,511	10,850
2002	3,498	5,385	467	1,168	11,532	11,720
2003	3,665	7,209	491	1,169	14,683	14,683

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.<sup>a/</sup> (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 (2002 dollars)
1978	4,746	10,025	3,041	3,291	3,297	7,611
1979	5,262	15,091	2,778	3,068	5,432	11,582
1980	3,398	7,114	2,626	2,797	2,709	5,295
1981	2,678	5,921	2,439	2,603	2,428	4,338
1982	2,671	6,730	2,253	2,512	2,987	5,031
1983	653	1,465	2,045	2,328	716	1,161
1984	197	410	381	2,071 <sup>b/</sup>	1,076	1,680
1985	964	1,601	1,259	1,650 <sup>c/</sup>	1,272	1,927
1986	659	1,175	1,252	1,531	938	1,391
1987	758	1,960	883	1,401	2,220	3,203
1988	798	2,337	650	1,337	3,596	5,018
1989	696	1,230	883	1,306	1,393	1,873
1990	850	1,648	897	1,170	1,837	2,379
1991	612	1,126	811	1,013	1,388	1,737
1992	583	1,299	604	806	2,151	2,630
1993	398	795	474	668	1,677	2,005
1994	7 <sup>d/</sup>	e/	1	7 <sup>f/</sup>	e/	e/
1995	126	91	96	435 <sup>g/</sup>	948	1,087
1996	87	85	90	333	924	1,041
1997	81	126	51	324 <sup>h/</sup>	2,450	2,713
1998	82	123	23	299 <sup>i/</sup>	5,345	5,853
1999	220	396	57	214	6,947	7,499
2000	162	258	49	179 <sup>j/</sup>	5,283	5,571
2001	290	383	57	169	6,718	6,932
2002	679	758	75	155	10,102	10,267
2003	875	991	82	153	12,087	12,087

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

Year	Vessels			Catch <sup>b/</sup>		
	Length Category (feet)	Number <sup>c/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2003 <sup>d/</sup>	≤20	22	4	1,967	43,270	1
	21-25	103	18	2,656	273,596	4
	26-30	93	16	4,276	397,675	6
	31-35	111	19	8,198	909,965	14
	36-40	113	19	14,789	1,671,191	26
	41-45	68	12	20,395	1,386,843	22
	46-50	48	8	24,545	1,178,170	19
	51-55	12	2	24,828	297,930	5
	>56	12	2	16,468	197,613	3
TOTAL	582		10,921	6,356,252		
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	25	4	581	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	4,624	670,523	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	15	2	3,734	56,006	2
TOTAL	689		3,495	2,408,254		
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		
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		

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon.<sup>a/</sup> (Page 2 of 3)

Year	Vessels			Catch <sup>b/</sup>		
	Length Category (feet)	Number <sup>c/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
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		
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		

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon.<sup>a/</sup> (Page 3 of 3)

Year	Vessels			Catch <sup>d/</sup>		
	Length Category (feet)	Number <sup>c/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
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 <sup>a/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2003 <sup>b/</sup>	<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	2,056	6,169	0
	20-29	100	25	1,933	193,346	13
	30-39	157	39	4,726	741,968	48
	40-49	111	28	4,594	509,986	33
	≥50	28	7	3,606	100,965	7
	TOTAL	399		3,891	1,552,434	
1999	<20	6	2	1,131	6,783	1
	20-29	68	21	1,205	81,964	11
	30-39	140	43	2,517	352,355	49
	40-49	93	28	2,499	232,418	32
	≥50	21	6	2,298	48,263	7
	TOTAL	328		2,201	721,783	
1998	<20	5	1	1,536	7,679	1
	20-29	65	17	1,036	67,332	5
	30-39	163	44	3,673	598,702	43
	40-49	110	30	5,395	593,433	43
	≥50	30	8	4,351	130,537	9
	TOTAL	373		3,747	1,397,683	
1997	<20	5	1	1,149	5,743	d/
	20-29	98	23	838	82,089	5
	30-39	185	43	3,976	735,478	48
	40-49	114	26	5,401	615,756	40
	≥50	31	7	3,322	102,982	7
	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 <sup>a/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
1996	<20	6	1	2,088	12,530	1
	20-29	117	26	1,009	118,069	6
	30-39	186	41	5,010	931,895	48
	40-49	115	25	6,466	743,584	39
	≥50	32	7	3,720	119,048	6
	TOTAL	456		4,222	1,925,126	
1995	<20	8	2	1,561	12,486	1
	20-29	142	30	1,190	168,999	9
	30-39	185	39	4,573	845,647	44
	40-49	111	23	6,884	764,118	39
	≥50	30	6	4,995	149,846	8
	TOTAL	476		4,078	1,941,096	
1994	<20	7	2	968	6,776	2
	20-29	114	31	435	49,573	17
	30-39	153	41	824	126,188	44
	40-49	85	23	1,080	91,834	32
	≥50	12	3	1,032	12,382	4
	TOTAL	371		773	286,753	
1993	<20	10	2	662	6,619	1
	20-29	206	34	558	115,029	15
	30-39	236	39	1,549	365,597	48
	40-49	128	21	1,888	241,663	31
	≥50	32	5	1,282	41,029	5
	TOTAL	612		1,258	769,937	
1992	<20	7	1	706	4,945	<sup>c/</sup>
	20-29	242	37	849	205,466	17
	30-39	245	38	2,384	584,162	48
	40-49	134	21	2,911	390,040	32
	≥50	21	3	1,630	34,231	3
	TOTAL	649		1,878	1,218,844	
1991	<20	22	2	622	13,672	1
	20-29	568	47	1,266	719,071	34
	30-39	365	30	2,138	780,386	37
	40-49	209	17	2,468	515,790	24
	≥50	53	4	1,583	84,279	4
	TOTAL	1217		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.<sup>a/</sup> (Page 1 of 2)

Year	Vessels			Catch <sup>b/</sup>		
	Length Category (Feet)	Number <sup>d/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
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	-
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	-

TABLE D-9. **Washington non-Indian salmon troll boat-size** catch statistics in pounds of dressed salmon.<sup>a/</sup> (Page 2 of 2)

Year	Vessels			Catch <sup>b/</sup>		
	Length Category (Feet)	Number <sup>c/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
1994 <sup>d/</sup>	≤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, 2003. (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 <sup>a/</sup>	<26	0	0	0	0
	26-36	29	8,070	19,809	20
	>36	41	30,971	76,970	80
Eureka <sup>b/</sup>	<26	32	3,173	6,919	43
	26-36	7	738	1,927	12
	>36	16	2,925	7,254	45
Shelter Cove	<26	191	86,693	171,895	67
	26-36	52	22,074	41,365	16
	>36	14	18,408	42,387	17
Fort Bragg <sup>c/</sup>	<26	190	51,380	112,120	2
	26-36	580	553,214	1,085,860	19
	>36	1454	2,325,115	4,572,520	79
Bodega Bay	<26	563	89,808	186,030	5
	26-36	604	382,037	697,784	20
	>36	877	1,476,402	2,592,182	75
San Francisco	<26	90	8,540	23,894	2
	26-36	133	127,868	260,030	24
	>36	325	436,560	794,603	74
Half Moon Bay	<26	17	2,557	6,098	1
	26-36	138	47,238	104,720	22
	>36	247	183,354	358,993	77
Santa Cruz	<26	72	7,679	18,781	8
	26-36	320	56,895	113,404	48
	>36	79	47,153	101,799	44
Moss Landing	<26	275	34,484	66,177	14
	26-36	334	74,997	138,038	29
	>36	98	171,996	276,791	57
Monterey	<26	330	30,940	54,756	37
	26-36	223	31,051	53,194	36
	>36	147	22,041	39,024	27
Morro Bay South Barbara	<26	42	1,611	3,991	6
	26-36	52	3,459	8,584	14
	>36	22	16,823	51,126	80

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 2003 **Washington non-Indian troll salmon landings** (in pounds of dressed salmon) and **exvessel value** by vessel size categories and port areas.<sup>a/b/</sup> (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 (dollars)
Neah Bay	≤25	2	3	809	814	814
	26-36	3	31	22,081	21,206	21,206
	>36	38	599	458,336	449,657	449,657
	Unknown	0	0	0	-	-
	<b>TOTAL</b>	<b>43</b>	<b>633</b>	<b>481,226</b>	<b>471,677</b>	<b>471,677</b>
La Push	≤25	3	70	15,859	20,815	20,815
	26-36	4	113	30,983	31,377	31,377
	>36	3	55	32,110	29,636	29,636
	Unknown	0	0	0	0	0
	<b>TOTAL</b>	<b>10</b>	<b>238</b>	<b>78,952</b>	<b>81,828</b>	<b>81,828</b>
Grays Harbor	≤25	6	175	44,363	58,051	58,051
	26-36	10	199	70,409	93,620	93,620
	>36	19	299	150,222	201,848	201,848
	Unknown	0	0	0	0	0
	<b>TOTAL</b>	<b>35</b>	<b>673</b>	<b>264,994</b>	<b>353,519</b>	<b>353,519</b>
Columbia River Ports	≤25	1	1	137	169	169
	26-36	3	78	16,655	31,869	31,869
	>36	5	39	21,095	36,866	36,866
	Unknown	0	0	0	0	0
	<b>TOTAL</b>	<b>9</b>	<b>118</b>	<b>37,887</b>	<b>68,904</b>	<b>68,904</b>
Puget Sound	≤25	1	2	239	359	359
	26-36	1	3	1,107	1,167	1,167
	>36	3	18	12,113	14,012	14,012
	Unknown	0	0	0	0	0
	<b>TOTAL</b>	<b>5</b>	<b>23</b>	<b>13,459</b>	<b>15,538</b>	<b>15,538</b>

a/ Preliminary.

b/ Total pounds and exvessel values reported in this table are less than are reported in other tables of the review. The difference 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 <sup>a/</sup>	582	74	12.7	238	40.9

a/ Preliminary.

TABLE D-13. Oregon number of vessels landing 50% and 90% of total pounds of salmon troll catch each year.<sup>a/</sup> (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 <sup>b/</sup>	491	83	16.9	254	51.7

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%, and 2003 - 0.06%.

b/ Preliminary.

TABLE D-14. **Washington number of vessels landing 50% and 90% (by numbers of fish) of non-Indian troll salmon catch.**<sup>a/</sup> (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

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 2003 **California, Oregon, and Washington troll fleet** by home state and salmon landings and exvessel value. (Page 1 of 1)<sup>a/</sup>

Home State	Number of Vessels	Percent	Landings (Pounds)	Percent	Total Value (Dollars)	Percent
<b>CALIFORNIA</b>						
California	555	95	5,885,908	93	11,245,334	93
Oregon	18	3	272,343	4	451,067	4
Washington	5	1	163,682	3	325,797	3
Unknown/Other	4	1	34,319	<1	66,824	<1
<b>TOTAL</b>	<b>582</b>		<b>6,356,252</b>		<b>12,089,022</b>	
<b>OREGON</b>						
Oregon	389	79	2,691,057	73	NA	NA
California	18	4	232,197	6	NA	NA
Washington	78	16	704,625	19	NA	NA
Unknown/Other	6	1	37,697	1	NA	NA
<b>TOTAL</b>	<b>467</b>		<b>3,665,576</b>		<b>NA</b>	
<b>WASHINGTON</b>						
Washington	82	100	876,518	100	991,466	100
Oregon	0	0	0	0	0	0
California	0	0	0	0	0	0
Unknown/Other	0	0	0	0	0	0
<b>TOTAL</b>	<b>82</b>		<b>876,518</b>		<b>991,466</b>	

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 <sup>a/</sup>												Total (length) <sup>b/</sup>			Grand Total <sup>c/</sup>
	California (length)				Oregon (length)				Washington (length)							
	<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 <sup>d/</sup>	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	141	221	286	648	0	4	23	27	1	3	8	12	142	229	318	689
2002	153	229	285	667	1	3	28	32	2	0	4	6	157	233	318	708
2003 <sup>e/</sup>	125	200	230	555	0	2	16	18	0	0	5	5	125	204	253	582

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  $\geq 36$ .

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 <sup>a/</sup>	79.2	3.7	15.9	1.2

a/ Preliminary.

TABLE D-18. Percentages of **vessels landing non-Indian** troll salmon in **Washington** by license holder's state of residence.<sup>a/</sup> (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 <sup>c/</sup>	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

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 <sup>a/</sup>	Port Area					Unknown <sup>b/</sup>	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	8	23	7	1	0	0	39
	Casual	10	20	4	3	1	0	38
	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 <sup>a/</sup>	Port Area						Total
		Monterey	San Francisco	Fort Bragg	Eureka	Crescent City	Unknown <sup>b/</sup>	
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

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 <sup>a/</sup>	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 <sup>b/</sup>	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 <sup>c/</sup>	206	186	19	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 <sup>a/</sup>	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 <sup>b/</sup>	140	137	3	0

a/ First year moratorium in effect.

b/ Preliminary.

TABLE D-22. Price index.<sup>a/</sup> (Page 1 of 1)

Year	Price Index
1960	19.9
1961	20.1
1962	20.4
1963	20.6
1964	20.9
1965	21.3
1966	21.9
1967	22.6
1968	23.6
1969	24.8
1970	26.1
1971	27.4
1972	28.6
1973	30.1
1974	32.9
1975	36.0
1976	38.1
1977	40.5
1978	43.3
1979	46.9
1980	51.2
1981	56.0
1982	59.4
1983	61.7
1984	64.0
1985	66.0
1986	67.4
1987	69.3
1988	71.7
1989	74.4
1990	77.2
1991	79.9
1992	81.8
1993	83.7
1994	85.4
1995	87.2
1996	88.8
1997	90.3
1998	91.3
1999	92.6
2000	94.7
2001	96.9
2002	98.4
2003 <sup>b/</sup>	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.

