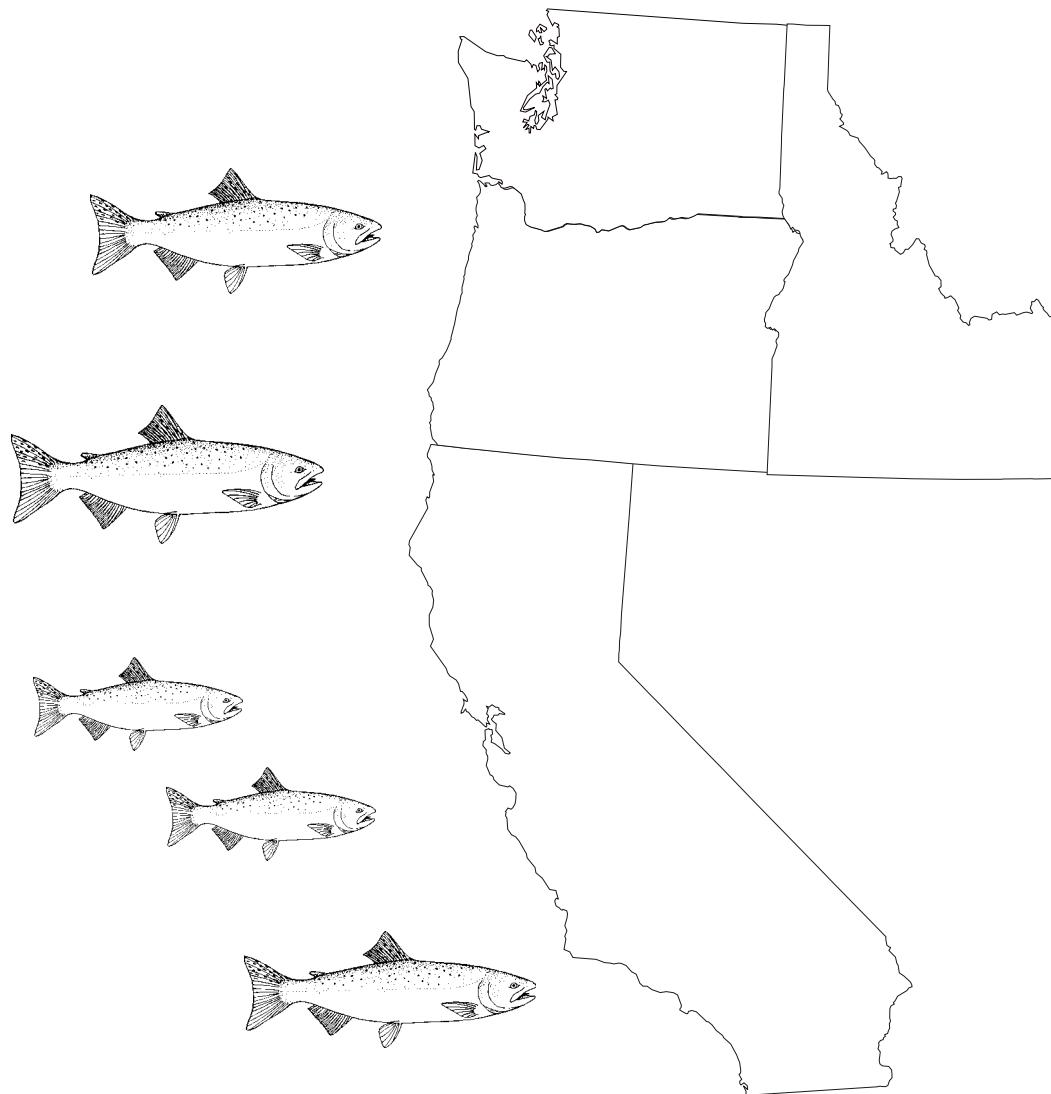


REVIEW OF 2000

OCEAN SALMON FISHERIES



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LIST OF ACRONYMS AND ABBREVIATIONS

ADFG	Alaska Department of Fish and Game
CCC	central California coast (coho)
CDFG	California Department of Fish and Game
Council	Pacific Fishery Management Council
CRFMP	Columbia River Fishery Management Plan
CRTAC	Columbia River Technical Advisory Committee
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
GSI	genetic stock identification
HRM	Harvest Rate Model
KMZ	Klamath management zone (ocean zone between Humbug Mountain and Horse Mountain where management emphasis is on Klamath River fall chinook)
KRTAT	Klamath River Technical Advisory Team
LFI	Lyons Ferry age three/four fall chinook index
LRH	lower Columbia River hatchery (tule fall chinook returning to hatcheries below Bonneville Dam)
LRW	lower Columbia River wild (bright fall chinook spawning naturally below Bonneville Dam)
MCB	mid-Columbia River brights (bright hatchery fall chinook released in the Mid-Columbia River)
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)
PSC	Pacific Salmon Commission
RK	Rogue/Klamath (coho)
SCH	Spring Creek Hatchery (tule fall chinook returning to Spring Creek Hatchery)
SONC	southern Oregon/northern California (coho)
SRS	Stratified Random Sampling
STEP	Salmon Trout Enhancement Program
STT	Salmon Technical Team (formerly the Salmon Plan Development Team)
TAC	total allowable catch
URB	upper river brights (naturally spawning bright fall chinook normally migrating past McNary Dam)
USFWS	U.S. Fish and Wildlife Service
VSI	visual stock identification
WCVI	West Coast Vancouver Island
WDFW	Washington Department of Fish and Wildlife
WFMP	Willamette Fish Management Plan

INTRODUCTION

The Salmon Technical Team (STT) has prepared this postseason review of the 2000 ocean salmon fisheries off the coasts of Washington, Oregon, and California to help assess Council salmon management. The STT 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.

Pacific coast fisheries in Council-managed waters (ocean fisheries south of the Canadian border to Mexico from 3 to 200 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 (sockeye) or in very limited numbers (steelhead and chum) 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. Appendix A includes tables which 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 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.

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

COMMON TABLE CONVENTIONS

All 2000 data provided in this report are preliminary at this time. Tables containing Oregon historical ocean fishery data reflect recent statistical modifications to earlier estimates (first applied in the 1995 report). The following conventions apply with respect to the report's tables:

1. Totals may not precisely equal the sum of individual years due to rounding of numbers.
2. A dash indicates there are no data appropriate for a particular table cell, or in the case of fishing effort or landings, 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.

CHAPTER I

COASTWIDE OCEAN FISHING SUMMARY

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 Pacific Salmon Commission (PSC).

COUNCIL-AREA REGULATIONS AND LANDINGS

Summaries of the 2000 non-Indian commercial troll, treaty Indian commercial troll, and recreational ocean salmon fishing regulations for both the exclusive economic zone (3 to 200 miles from shore) and state territorial waters (0 to 3 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 Pacific 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 2000 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 2000 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-42 - 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 2000. (Page 1 of 1)

Area and Season	Salmon Species	Actual Quota (Guideline*)		Special Restrictions ^{a/}
		Chinook	Coho	
U.S.-Canada border to Cape Falcon, Oregon May 1-June 15 (46 days)	All except coho	11,000*	-	Columbia River Control Zone closed.
Queets River, Washington to Cape Falcon, Oregon Aug. 4-7, 11-14, 18-21, 25-28, Sep. 1-5 (21 days)	All except coho	3,750 ^{b/}	21,000 ^{b/}	Coho must have healed adipose fin clips (selective fishery) Vessels must land and deliver fish within 24 hours of any closure. August 4-14 landing
Cape Falcon to Humbug Mt., Oregon Apr. 1-July 22; Aug. 1-29; Sept. 1-Oct. 31 (203 days)	All except coho	None	-	Closed Apr. 1-30 and June 1-Sept. 15 at mouth of Tillamook Bay.
Twin Rocks to Pyramid Rock, Oregon Nov. 1-15 (15 days)	Chinook only	None	-	Open 0-3 nautical miles.
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 May 1-31 (31 days)	All except coho	None	-	Open 0-4 nautical miles. Salmon must be landed in Port Orford, Gold Beach or Brookings within 24 hours of any closure. Each vessel may possess, land and deliver no more than 30 fish per day. Closed within 1 mi of the Rogue River mouth.
Sisters Rocks to Oregon - California border Aug. 1-11 (11 days)	All except coho	1,300	-	
Goat Isl. to 42°0'120" N, Oregon (off Chetco R.) Oct. 16-31 (16 days)	Chinook only	1,000	-	Open 0-3 nautical miles.
House Rock to Humboldt S. Jetty Sept 1-30 (30 days)	All except coho	7,000 ^{c/}	-	Landing and possession limit of 30 fish per day; all fish must be landed in the area. Klamath River Mouth Zone closed.
Horse Mt., California to Pt. Arena, California Sept. 1-30 (30 days)	All except coho	None	-	
Pt. Arena to Pt. Reyes July 18-Sept. 30 (75 days)	All except coho	None	-	Minimum size limit 27 inches.
Fort Ross to Pt. Reyes July 1-3, 5-15 (14 days)	All except coho	4,500	-	Test fishery open 0-6 nautical miles; landing and possession limit of 30 fish per day; all fish must be landed in the area.
Pt. Reyes to Pt. San Pedro May 29-Sept. 30 (125 days)	All except coho	None	-	Minimum size limit 27 inches after June 30.
Pt. San Pedro to U.S.-Mexico Border May 1-Aug. 27 (119 days)	All except coho	None	-	Minimum size limit 27 inches after June 30.

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 must be used. Unless otherwise noted, minimum size limits (total length): chinook - 26 inches south of Cape Falcon; 28 inches north of Cape Falcon; cohos - 16 inches. No more than 4 spreads per line off Oregon south of Cape Falcon. No more than 6 lines per boat allowed off California. Circle hooks required when bait fishing by methods other than trolling off California.

b/ Preseason quota of 1,500 chinook, plus 1,250 added inseason from chinook remaining on May-June North of Falcon troll guideline, plus 1,000 traded to the commercial quota (for nonretention mortality in the all-salmon-except chinook fishery) from the overall recreational subarea quota and 600 coho to the Westport recreational subarea quota.

c/ Within the 7,000 chinook quota is a guideline limiting landings at the port of Brookings to no more than 1,000 chinook. The area north of the OR/CA border was closed Sep. 5 as the Brookings landing limit was reached.

TABLE I-2. Summary of actual treaty Indian commercial ocean and Area 4B troll salmon seasons for 2000. (Page 1 of 1)

Tribe and Area	Salmon Species	Seasons ^{a/}	Dates	Minimum Size Limit (Inches)		
				Days	Chinook	Coho
Quinalt						
Areas 2 and 3	Chinook only All		May 1-June 30 Aug. 1- Aug. 12	61 12	24 24	16
Quileute						
Area 3	Chinook only All		May 1-June 30 Aug. 1-Aug. 11	61 11	24 24	16
Makah						
Areas 3N, 4 and 4A	Chinook only All		May 1-June 30 Aug. 1- Aug. 11	61 11	24 24	16
Area 4B	Chinook only All	Jan. 1-Apr. 15; May 1-June 30; Nov. 1-Dec. 31 ^{c/} Aug. 1-Aug. 11		228 11	24 ^{b/} 24	16
S'Klallam						
Area 4B	Chinook only All	May 1-June 30 Jan. 1-Apr. 15, Aug. 1-Aug. 16; Nov. 1-Dec. 31 ^{c/}		61 183	24 ^{b/} 24	16

a/ The overall quotas for these fisheries during the May 1-Sept. 30 ocean salmon management period were 25,500 chinook and 20,000 coho. These quotas include troll catches by the S'Klallam and Makah tribes in Washington State Statistical Area 4B from May 1-Sept. 30. The overall chinook quota was divided to provide 20,000 chinook for the May 1-Jun. 30 chinook-directed season and 5,500 chinook for the Aug.-Sept. all-salmon season. Transfer of any unused chinook quota from the May-June season to the Aug.-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 September 30.

c/ Coho nonretention Nov. 1-Dec. 31.

TABLE I-3. Summary of actual ocean recreational salmon fishing regulations for 2000. (Page 1 of 2)

Area and Season	Actual Quota (*Guideline)			Daily Limit and Special Restrictions ^{a/}
	Salmon Species	Chinook	Coho	
U.S.-Canada Border to Cape Alava, Washington (Neah Bay subarea) July 3 - Aug. 17 (46 days)	All salmon	500*	6,590 ^{b/}	2 salmon daily, but only one chinook, all retained coho must have a healed adipose fin clip.
Cape Alava to Queets River, Washington (LaPush subarea) 7 days per week July 3-Aug. 12 (41 days)	All salmon	300*	2,010 ^{b/}	2 salmon daily, but only one chinook, all retained coho must have a healed adipose fin clip.
Queets River to Leadbetter Pt., Washington (Westport subarea) Sun. - Thurs.: July 3 - Aug. 10 (season total of 29 days)	All salmon	6,900 ^{c/}	29,500 ^{c/}	2 salmon daily, but only 1 chinook and all retained coho must have a healed adipose fin clip. Closed in the area defined by the Westport lighthouse to Buoy 2 to Buoy 3 to the Grays Harbor north jetty (Westport bubble).
Westport lighthouse to Buoy 2 to Buoy 3 to the Grays Harbor north jetty (Westport bubble) August 13 (1 day)	All salmon	d/	d/	2 salmon daily, but only 1 chinook and all retained coho must have a healed adipose fin clip.
Leadbetter Pt. to Cape Falcon, Oregon (Columbia River subarea) Sun.-Thurs.: July 10-Aug. 13 (season total of 25 days)	All salmon	3,800 ^{c/}	40,900 ^{c/}	2 salmon daily, but only 1 chinook and all retained coho must have a healed adipose fin clip. Coho retention is prohibited between Tillamook Head and Cape Falcon beginning Aug. 1. Closed in Columbia Control Zone.
4 Cape Falcon to Humbug Mt., Oregon (except for Twin Rocks to Pyramid Rock subarea below) Apr. 1-June 30; July 26-Oct. 31 (189 days) July 1-2; 4-6; 8-9; 11-13; 15-16; 18-20; 22-23; 25 (18 days)	All except coho All salmon	None None	- 20,000	2 salmon daily; no more than 6 fish in 7 consecutive days. ^{e/} Special gear restriction. All retained coho must have a healed adipose fin clip; no special gear restrictions except single point, single shank barbless hooks.
Twin Rocks to Pyramid Rock inside 3 nautical miles (off Tillamook Bay) Apr. 1-30; June 1-30 (60 days) July 1-2; 4-6; 8-9; 11-13; 15-16; 18-20; 22-23; 25 (18 days)	Chinook only All salmon	None None	- -	Triangular control zone closed at mouth of Tillamook Bay Apr. 1-30, Jun. 1-30, and Aug. 1-Sept. 15. Special gear restriction except barbled hooks allowed. 2 adult and 5 jack salmon; no more than 2 adults in 7 consecutive days. 2 salmon daily, all retained coho must have a healed adipose fin clip; no gear restriction. 2 adult and 5 jack salmon; no more than 4 adults in 7 consecutive days.
July 26-Nov. 15 (113 days) Cape Blanco to Humbug Mt., Oregon (off Elk R. inside 3 nm) Nov. 1-Dec. 15 (45 days)	Chinook only	None	-	2 salmon daily; open 0-3 nautical miles; no more than 4 adults in 7 consecutive days.
Humbug Mt., Oregon to Horse Mt., California May 27-July 6; July 29-Sept. 10 (85 days)	All except coho	None	-	1 salmon daily May 27-July 6; 2 salmon daily July 29-Sep. 10; no more than 4 fish in 7 consecutive days. Klamath Control Zone closed in Aug. Special gear restriction.
Goat Is. to 42°01'20" N, Oregon (off Chetco R. inside 3 nm) Oct. 7-15 (9 days)	Chinook only	None	-	1 salmon daily; no more than 4 fish per season. Open 0-3 nautical miles.
Horse Mt. to Pt. Arena, California Feb. 12-July 6; July 22-Nov. 12 (260 days)	All except coho	None	-	2 salmon daily. Minimum size 24 in. prior to June 1. Special gear restrictions. ^{f/g/}
Pt. Arena to Pigeon Pt. Apr. 15-Nov. 5 (205 days)	All except coho	None	-	2 salmon daily. Minimum size 24 in. prior to June 1. Special gear restrictions. ^{f/g/}

TABLE I-3. Summary of actual ocean recreational salmon fishing regulations for 2000. (Page 2 of 2)

Area and Season	Salmon Species			Daily Limit and Special Restrictions ^{a/}
	Chinook	Coho	Chinook	
Pigeon Pt. to U.S.-Mexico Border Apr. 1-Oct. 1 (184 days)	All except coho	None	-	2 salmon daily. Minimum size 24 in. prior to June 1. Special gear restrictions. f/g/ 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) 24 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/ Inseason, 310 coho were traded to the preseason subarea quota for Neah Bay (U.S.-Canada border to Cape Alava). recreational fishery quota.				
c/ Inseason, 1,000 chinook were traded to the commercial quota from the overall recreational quota in return for 3,400 coho for the Columbia River recreational subarea quota and 600 coho to the Westport recreational subarea quota.				
d/ Within the quotas for the Westport area.				
e/ During the time coho retention is prohibited, legal gear is limited to artificial lures and plugs of any size, or bait no less than 6 inches long (excluding hooks and swivels). All gear must have no more than 2 single point, single shank, barbless hooks. Divers are prohibited and flashers may be used only with downriggers.				
f/ 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.				
g/ 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). A circle hook is defined as a hook with a generally circular shape and a point which turns inwards, pointing directly to the shank at a 90° angle. 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.				

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 5)

Year	COMMERCIAL TROLL						RECREATIONAL					
	Effort (thousands of days fished)	Catch			Effort (thousands of salmon angler trips)			Catch (thousands of fish)			Salmon Per Angler Trip	
		Chinook	Coho	Pink	Chinook	Coho	Pink	Chinook	Coho	Pink	Total	
1966	--	167.2	884.9	29.4	1,739.9	5,335.6	121.7	369.8	144.4	340.7	1.4	486.5
1967	--	131.7	779.4	380.6	1,477.7	5,363.1	1692.3	407.6	160.4	455.0	52.8	668.2
1968	--	162.8	713.8	4.8	1,625.3	3,950.4	17.1	380.8	144.5	447.3	0.5	592.2
1969	--	186.9	463.8	59.4	1,990.1	2,854.0	295.9	392.2	152.8	402.7	16.7	572.1
1970	51.6	213.9	744.0	6.7	2,217.2	5,282.0	30.8	459.1	161.1	493.0	1.7	655.7
1971	68.4	252.2	1,264.1	20.6	2,655.5	6,841.6	89.8	443.3	160.0	747.3	9.0	916.3
1972	52.5	196.9	574.5	3.5	2,184.6	3,404.0	10.0	490.5	212.3	541.8	0.0	754.0
1973	50.3	310.4	700.9	55.4	3,254.1	3,749.2	260.1	479.7	203.8	471.7	7.9	683.3
1974	57.2	349.3	1,037.7	1.3	3,699.1	5,592.4	5.3	464.9	214.6	595.3	0.0	809.9
1975	52.7	268.3	774.2	77.2	2,834.5	4,416.8	371.9	535.9	261.6	481.1	13.6	756.2
1976	60.1	350.8	1,384.8	1.5	3,744.2	6,231.0	5.8	538.1	170.7	942.8	0.4	1,114.0
1977	55.5	288.5	715.2	288.1	2,784.6	3,707.5	1383.2	530.0	175.0	490.2	29.3	694.5
1978	42.3	156.1	607.7	3.5	2,022.6	2,798.8	13.4	482.8	96.4	469.8	0.2	566.4
1979	42.1	139.2	666.3	560.7	1,656.3	3,664.8	2534.2	317.2	74.8	293.4	17.8	386.0
1980	26.7	124.6	391.8	1.7	1,611.3	1,971.8	7.4	281.0	53.6	362.9	0.1	416.5
1981	27.2	102.2	401.4	236.9	1,153.0	1,750.3	927.2	236.8	84.7	237.9	10.2	332.8
1982 ^{b/}	18.6	142.5	381.1	0.3	1,552.7	1,931.1	0.9	218.7	106.8	206.5	0.0	313.3
1983	12.1	57.7	67.6	106.1	588.6	279.2	372.9	209.7	48.4	209.3	4.5	262.1
1984	1.9	13.8	66.6	0.0	123.5	286.5	0.1	36.8	6.9	40.4	0.0	47.3
1985	7.5	46.4	217.8	108.7	464.0	1,049.0	487.5	114.8	26.6	167.9	3.1	197.5
1986	6.2	45.7	160.4	0.2	452.3	609.8	0.4	109.3	21.1	174.8	0.0	195.9
1987	6.0	75.0	138.5	19.5	712.7	580.3	70.0	101.5	40.5	123.9	1.8	166.2
1988	9.9	106.1	72.7	0.0	1,085.9	299.8	0.2	68.9	18.9	88.9	0.0	107.9
1989	9.1	73.7	144.5	47.8	721.9	604.7	172.0	142.2	19.9	212.9	2.0	234.8
1990	9.3	65.6	181.2	0.1	623.0	955.6	0.4	175.2	30.0	224.8	0.0	254.9
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
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
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
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
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
1997	0.9	21.8	15.7	1.8	80.9	94.0	--	29.7	4.0	26.8	1.4	32.1
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
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
2000 ^{c/}	0.7	17.9	27.4	0.0	191.2	141.0	0.0	48.9	8.5	68.2	0.0	76.7

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. Less than 50 fish or pounds may be shown as zero. (page 2 of 5)

Year	Effort (thousands of days fished)	COMMERCIAL TROLL						RECREATIONAL					
		CATCH			EFFORT			CATCH			EFFORT		
		Thousands of Fish		Chinook	Pink	Chinook	Coho	Pink	Chinook	Coho	Pink	Total	Per Angler Trip
1966	--	95.3	646.1	--	797.2	4,484.9	--	--	--	--	--	--	--
1967	--	99.7	1,004.0	--	1,115.9	7,201.3	--	--	--	--	--	--	--
1968	--	110.2	825.4	--	993.4	4,398.3	--	--	--	--	--	--	--
1969	--	140.3	557.3	--	1,201.5	3,171.5	--	--	--	--	--	--	--
1970	--	164.7	989.7	--	1,685.0	7,536.1	--	--	--	--	--	--	--
1971	43.9	102.9	1,490.1	--	1,000.7	8,765.1	--	--	--	--	--	--	--
1972	38.4	127.3	824.6	--	1,303.7	4,856.3	--	--	--	--	--	--	--
1973	50.2	363.3	785.4	--	3,461.3	5,137.1	--	--	--	--	--	--	--
1974	47.9	224.1	1,137.2	--	2,290.4	7,230.9	0.1	326.1	34.6	306.4	--	341.0	1.0
1975	56.5	224.7	657.5	--	2,583.3	4,087.5	0.9	402.8	75.4	250.1	--	325.5	0.8
1976	82.1	184.3	1,827.0	--	1,921.6	9,061.2	0.0	536.5	79.1	500.0	--	579.1	1.1
1977	65.2	340.0	446.1	--	3,464.9	2,640.8	586.1	366.0	58.1	179.9	--	238.0	0.7
1978	45.2	191.5	611.6	--	1,893.6	2,779.0	0.2	403.4	22.8	259.3	--	282.1	0.7
1979	48.8	245.5	714.6	20.5	2,579.7	4,586.3	106.3	301.1	20.9	180.8	--	201.7	0.7
1980	39.9	209.4	383.3	0.3	2,170.9	2,188.9	1.6	331.4	19.0	325.8	--	344.9	1.0
1981	45.3	160.7	622.5	60.2	1,572.5	3,324.3	327.0	311.0	29.2	199.8	--	229.0	0.7
1982	33.7	232.0	564.0	0.0	2,351.3	2,708.4	0.0	226.0	38.7	175.1	--	213.8	0.9
1983	22.1	79.5	319.6	0.1	655.0	1,097.9	0.2	226.0	24.7	146.9	0.1	171.7	0.8
1984	7.9	64.3	13.8	0.0	549.4	69.8	0.0	153.1	17.0	122.6	0.0	139.7	0.9
1985	21.0	217.0	84.2	44.9	2,029.9	483.8	258.6	251.6	55.9	182.5	8.0	246.4	1.0
1986	32.5	402.7	440.4	0.0	3,370.3	1,904.6	0.0	187.0	22.8	218.9	0.0	241.8	1.3
1987	39.5	529.3	354.0	17.6	5,182.4	1,915.9	87.3	255.1	59.4	180.5	1.0	241.0	0.9
1988	51.1	470.0	623.2	0.0	4,389.0	3,336.0	0.0	250.7	38.3	226.9	0.0	265.2	1.1
1989	42.3	353.5	455.7	3.8	3,531.9	1,995.5	17.6	266.3	32.0	273.3	1.3	306.6	1.2
1990	26.2	232.4	122.3	0.0	2,180.9	633.8	0.0	246.6	26.5	200.6	0.0	227.2	0.9
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 ^{d/}	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

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. Less than 50 fish or pounds may be shown as zero. (page 3 of 5)

Year	Effort (thousands of days fished)	COMMERCIAL TROLL						RECREATIONAL					
		Catch			Effort (thousands of salmon angler trips)			Catch (thousands of fish)			Salmon Per Angler Trip		
		Chinook	Coho	Pink	Chinook	Coho	Pink	Chinook	Coho	Pink	Total		
-- CALIFORNIA --													
1966	--	553.6	445.8	1.0	5,979.0	3,467.5	0.5	128.7	73.6	32.4	0.0	106.0	0.8
1967	--	337.9	414.1	30.4	3,866.4	3,375.9	159.4	210.8	72.6	50.3	0.0	122.8	0.6
1968	--	472.0	362.4	0.5	4,612.5	2,337.6	1.8	185.7	154.2	40.4	0.0	194.6	1.0
1969	--	551.4	193.3	4.9	4,895.3	1,234.5	21.1	218.7	155.8	28.2	0.0	184.0	0.8
1970	43.7	516.6	182.9	0.1	5,269.5	1,341.8	0.2	205.1	147.8	14.6	0.0	162.4	0.8
1971	38.6	433.9	442.1	1.2	4,925.8	3,183.8	7.2	296.3	188.3	67.4	0.0	255.7	0.9
1972	37.8	492.2	158.0	0.0	5,372.8	1,050.4	0.2	242.9	200.5	44.6	0.0	245.1	1.0
1973	55.6	817.0	348.1	19.0	7,586.8	1,993.9	88.3	259.6	198.0	31.6	0.0	229.6	0.9
1974	51.1	491.6	656.9	0.3	5,048.5	3,700.1	0.9	255.4	157.5	76.6	0.0	234.1	0.9
1975	43.0	578.7	204.0	3.1	5,781.3	1,128.3	15.5	182.5	103.7	21.2	0.0	125.0	0.7
1976	60.0	539.9	621.8	0.0	4,943.9	2,843.8	0.0	187.2	81.0	57.9	0.0	138.9	0.7
1977	61.5	600.2	45.2	1.8	5,637.0	283.2	9.3	181.3	103.6	14.2	0.0	117.8	0.7
1978	98.4	637.7	315.8	0.0	5,492.4	1,295.1	0.0	150.7	72.7	41.2	0.0	114.0	0.8
1979	104.1	726.8	184.4	0.7	7,547.8	1,198.0	3.8	153.7	119.6	21.3	0.0	140.9	0.9
1980	82.5	588.7	49.8	0.1	5,715.2	301.6	0.4	144.4	85.2	21.2	0.0	106.4	0.7
1981	68.5	588.1	83.9	5.4	5,534.8	477.2	28.3	123.0	84.0	10.6	0.0	94.6	0.8
1982	93.1	765.2	91.9	0.0	7,448.6	551.9	0.0	171.3	137.2	26.7	0.0	163.9	1.0
1983	43.5	294.0	59.9	0.0	2,144.4	266.4	0.0	122.7	63.8	27.2	0.0	91.1	0.7
1984	42.2	299.8	47.0	0.0	2,621.2	348.4	0.0	127.0	87.8	19.0	0.0	106.8	0.8
1985	51.6	366.3	11.0	6.8	4,519.2	80.4	39.7	191.9	171.1	15.8	0.0	186.9	1.0
1986	54.7	825.6	36.4	0.0	7,396.8	201.6	0.0	195.6	141.6	18.7	0.0	160.3	0.8
1987	58.6	876.3	43.7	0.9	9,047.2	245.6	3.4	268.3	192.5	47.3	0.0	239.8	0.9
1988	75.7	1,317.2	51.0	0.0	14,430.8	319.5	0.0	245.4	171.4	34.7	0.0	206.1	0.8
1989	57.4	530.9	41.9	0.7	5,489.8	230.6	4.5	244.9	186.6	49.6	0.0	236.2	1.0
1990	46.2	423.4	61.0	0.0	4,122.4	313.7	0.0	252.1	139.8	51.6	0.0	191.5	0.8
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	18.6	487.7	-	0.0	5,247.8	-	0.0	232.3	227.5	0.5	0.0	228.0	1.0
1998	12.0	216.2	-	0.0	1,745.5	-	0.0	149.9	121.3	0.1	0.0	121.4	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 ^c	17.7	429.2	-	0.0	4,508.7	-	0.0	208.7	179.9	0.4	0.0	180.3	0.9

Table 1-4. 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. Less than 50 fish or pounds may be shown as zero. (page 4 of 5)

Year	Effort (thousands of days fished)	COMMERCIAL TROLL						RECREATIONAL					
		Catch			Effort (thousands of salmon angler trips)			Catch (thousands of fish)			Salmon Per Angler Trip		
		Chinook	Coho	Pink	Chinook	Coho	Pink	Chinook	Coho	Pink	Total	Per Trip	
		COUNCIL AREA						ab/d					
1966	--	816.1	1,976.8	--	8,516.1	13,287.9	--	--	--	--	--	--	--
1967	--	569.3	2,197.5	--	6,460.0	15,940.4	--	--	--	--	--	--	--
1968	--	744.9	1,901.6	--	7,231.2	10,686.4	--	--	--	--	--	--	--
1969	--	878.6	1,214.5	--	8,086.9	7,260.0	--	--	--	--	--	--	--
1970	--	895.2	1,916.7	--	9,171.7	14,159.9	--	--	--	--	--	--	--
1971	150.9	789.0	3,196.3	--	8,582.0	18,790.6	--	--	--	--	--	--	--
1972	128.7	816.4	1,557.1	--	8,861.1	9,310.7	--	--	--	--	--	--	--
1973	156.2	1,490.7	1,834.3	--	14,302.2	10,880.1	--	--	--	--	--	--	--
1974	156.2	1,064.9	2,831.8	--	11,037.9	16,523.3	--	1,046.4	406.6	978.3	0.0	1,385.0	1.3
1975	152.2	1,071.7	1,635.7	--	11,199.1	9,632.7	--	1,121.2	440.7	752.4	13.6	1,206.7	1.1
1976	202.2	1,075.1	3,833.5	--	10,609.7	18,136.0	--	1,261.8	330.8	1,500.8	0.4	1,832.0	1.5
1977	182.2	1,198.7	1,206.5	--	11,886.6	6,631.6	--	1,077.3	336.6	684.4	29.3	1,050.2	1.0
1978	185.9	985.3	1,535.1	--	9,408.6	6,872.9	--	1,036.9	191.9	770.4	0.2	962.5	0.9
1979	195.0	1,111.4	1,565.4	581.9	11,783.7	9,449.0	2644.3	772.1	215.3	495.5	17.8	728.6	0.9
1980	149.1	922.6	824.9	2.1	9,497.4	4,462.2	9.4	756.8	157.8	709.9	0.1	867.7	1.1
1981	141.0	851.0	1,107.8	302.5	8,260.3	5,551.8	1282.5	670.8	197.9	448.3	10.2	656.4	1.0
1982	145.3	1,139.7	1,037.0	0.3	11,352.6	5,191.4	0.9	616.0	282.7	408.3	0.0	691.1	1.1
1983	77.6	431.3	447.1	106.2	3,387.9	1,643.5	373.1	558.4	136.9	383.4	4.6	524.9	0.9
1984	52.0	377.9	127.4	0.0	3,294.2	704.7	0.1	316.8	111.7	182.0	0.0	293.8	0.9
1985	80.1	629.7	312.9	160.4	7,013.1	1,613.2	785.8	558.3	253.6	366.2	11.1	630.8	1.1
1986	93.4	1,273.9	637.1	0.2	11,219.3	2,716.0	0.4	491.9	185.5	412.4	0.1	598.0	1.2
1987	104.1	1,480.6	536.1	38.0	14,942.2	2,741.9	160.8	624.8	292.5	351.7	2.8	647.0	1.0
1988	136.7	1,883.3	746.9	0.0	19,905.7	3,985.3	0.2	565.0	228.6	350.5	0.0	579.1	1.0
1989	108.7	958.1	642.2	52.4	9,743.5	2,830.8	194.1	653.4	238.5	535.7	3.3	777.6	1.2
1990	81.7	721.5	364.6	0.1	6,926.2	1,903.1	0.4	673.8	196.4	477.1	0.0	673.5	1.0
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	27.3	659.2	15.7	1.9	6,888.6	94.0	--	292.1	239.1	33.2	1.4	273.8	0.9
1998	19.5	361.4	7.9	0.0	3,370.9	43.0	0.0	195.5	127.6	23.1	0.0	150.7	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 ^d	25.9	583.5	39.4	0.0	6,180.9	212.4	0.0	336.2	213.9	101.8	0.0	315.7	0.9

Table I-4. Council area commercial and recreational ocean salmon fishing effort and landings by state. Data are provisional, pending further review of data compilation methods. A double dash (" - ") indicates no records are available. Less than 50 fish or pounds may be shown as zero. (page 5 of 5)

- 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. 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 1990 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						
	Effort (thousands of days fished)	Catch (thousands of fish)		Effort (thousands of salmon angler trips)	Catch (thousands of fish)			Salmon Per Angler Trip		
	Chinook	Coho	Pink		Chinook	Coho	Pink	Total		
----- U.S.-CANADA BORDER TO CAPE FALCON -----										
Treaty Indian (north of Leadbetter Point):^{a/}										
1997 ^{b/}	0.371	13.969	15.660	1.810	-	-	-	-	-	
1998 ^{b/}	0.176	14.637	8.007	0.000	-	-	-	-	-	
1999 ^{b/}	0.383	27.412	33.447	1.563	-	-	-	-	-	
2000 ^{b/}	0.232	7.625	22.174	0.000	-	-	-	-	-	
Non-Indian:										
1997	0.452	6.447	0.000	0.005	33.301	4.152	32.569	1.410	38.131	1.145
1998	0.139	5.929	0.000	0.000	21.767	2.292	22.887	0.013	25.192	1.157
1999	0.730	17.456	3.815	0.053	57.883	10.820	47.663	2.194	60.677	1.048
2000 ^{b/}	0.695	12.932	17.294	0.000	53.943	9.234	77.515	0.018	86.767	1.608
----- CAPE FALCON TO HUMBUG MOUNTAIN -----										
1997	7.428	145.929	0.000	0.048	9.962	2.408	0.038	0.000	2.446	0.246
1998	6.960	123.468	0.000	0.001	9.743	2.019	0.093	0.000	2.112	0.217
1999 ^{b/}	4.826	60.987	0.000	0.055	26.217	3.340	6.046	0.000	9.386	0.358
2000 ^{b/}	6.927	130.164	0.000	0.003	48.111	12.878	19.401	0.000	32.279	0.671
----- HUMBUG MOUNTAIN TO HORSE MOUNTAIN TO (KMZ) -----										
1997	0.477	5.026	0.000	0.000	35.535	14.070	0.328	0.000	14.398	0.405
1998	0.361	3.244	0.000	0.000	24.129	4.875	0.100	0.000	4.975	0.206
1999	0.473	4.219	0.000	0.000	33.612	9.638	0.177	0.000	9.815	0.292
2000 ^{b/}	0.406	5.305	0.000	0.000	42.042	25.014	0.257	0.000	25.271	0.601
----- HORSE MOUNTAIN TO U.S.-MEXICO BORDER -----										
1997	18.770	485.992	0.000	0.000	215.418	219.885	0.285	0.000	220.170	1.022
1998	14.304	224.755	0.000	0.000	141.792	119.100	0.040	0.000	119.140	0.840
1999	16.262	288.062	0.000	0.000	129.228	81.654	0.477	0.000	82.131	0.636
2000 ^{b/}	17.621	427.361	0.000	0.000	188.693	166.670	0.216	0.000	166.886	0.884

a/ May through September.

b/ Preliminary.

TABLE I-6. Coho and chinook harvest quotas for 2000 compared with actual harvest in thousands of fish by management area and fishery. (Page 1 of 1)

Fishery Governed by Quota	Quota or Guideline ^{a/}	Chinook		Coho		
		Catch	Catch/ Quota	Quota	Catch	
NORTH OF CAPE FALCON^{b/}						
TREATY INDIAN TROLL						
May 1-Jun. 30	20.00	5.911	30%	Coho Retention Prohibited		
Aug. 1-Sept. 15	5.50	1.647	30%	20.0	22.057 110%	
Subtotal Treaty Indian Troll ^{b/}	25.50	7.558	30%	20.0	22.057 110%	
NON-INDIAN TROLL						
U.S.-Canada Border to Cape Falcon (May 1-Jun. 15)	11.00*	9.643	88%	Coho Retention Prohibited		
Queets River to Cape Falcon (Aug. 4-Sept. 30)	3.75	3.289	88%	21.0	17.294 82%	
Subtotal Non-Indian Troll	14.75	12.932	88%	21.0	17.294 82%	
RECREATIONAL (selective coho fisheries)^{b/}						
U.S.-Canada Border to Cape Alava (July 19-Sept. 30)	0.50*	0.410	82%	6.59	7.220 110%	
Cape Alava to Queets River (July 19-Sept. 30)	0.30*	0.176	59%	2.01	1.926 96%	
Queets River to Leadbetter Pt. (July 19-Sept. 30)	6.90*	6.336	92%	29.50	28.794 98%	
Leadbetter Pt. to Cape Falcon (July 19-Sept. 30)	3.80*	2.312	61%	40.90	39.575 97%	
Subtotal Recreational	11.50	9.234	80%	79.00	77.512 98%	
TOTAL NORTH OF CAPE FALCON^{b/}	51.75	29.724	57%	120.00	116.863 97%	
SOUTH OF CAPE FALCON						
TROLL (all except coho)						
Klamath Management Zone:						
Sisters Rocks to OR/CA Border (Aug. 1-31)	1.3	1.405	108%	Coho Retention Prohibited		
House Rock to Humboldt S. Jetty (Sept. 1-30)	7.0	3.018	43%			
Goat Island to 42°01'20" N (Oct. 16-31)	1.0	0.861	86%			
Fort Ross to Pt. Reyes (July 1-15)	4.5	1.830	41%			
Subtotal Troll	13.8	7.114	52%			
RECREATIONAL						
Cape Falcon to Humbug Mt. (July 1-31 selective fishery)	-	-	-	20.0	19.316 97%	
TOTAL SOUTH OF CAPE FALCON	13.8	7.114	52%	20.0	19.316 97%	
Buoy 10 (Aug. 6-Oct. 31)		^{c/} 11.0		^{c/} 54.9		

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

b/ The preseason quotas north of Cape Falcon were as follows: 25,500 chinook and 20,000 coho for treaty Indian troll; 12,500 chinook and 25,000 marked (adipose fin clip) coho for non-Indian troll; and 12,500 chinook and 75,000 marked coho for recreational fisheries. Inseason, the following adjustments or transfers were made: (1) on an equivalent impact basis, the non-Indian troll quota for the Aug. fishery is set at 2,750 chinook; (2) 1,000 chinook were transferred from the recreational fisheries south of Leadbetter Pt. to the non-Indian troll fishery in Aug. for 3,400 coho to the Westport area and 600 coho to the Columbia River area; and (3) 310 coho were transferred from the Neah Bay area to the LaPush area.

c/ Expected catch, not a quota or guideline.

REGULATORY OBJECTIVES BY MANAGEMENT AREA

The sections below provide a brief outline of the regulatory objectives that shaped the 2000 ocean salmon fisheries by management area and species. Further details of the conservation and allocation objectives by salmon stock and an assessment of performance are provided in Chapters II and III, for chinook and coho respectively.

Horse Mountain to U.S.-Mexico Border

Chinook Fisheries

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. A 31% increase in the adult spawner replacement rate of Sacramento River winter chinook;
2. A minimum natural spawner escapement of 35,000 adult Klamath River fall chinook plus enough fish to accommodate the inriver recreational fishery and harvest by Klamath-Trinity River Basin tribes with federally recognized fishing rights;
3. The escapement goal range for Sacramento River fall chinook of 122,000 to 180,000 hatchery and natural adults.

Under the adopted regulations, the Salmon Technical Team (STT) projected a total harvest south of Horse Mountain of 421,200 chinook and a coastwide ocean harvest rate on age-four Klamath River fall chinook (for fisheries from September 1, 1999 through August 31, 2000) of 13.8%.

Coho Fisheries

The Council prohibited all retention of coho in this area in conformance with the terms of the 1999 National Marine Fisheries Service (NMFS) Biological Opinion for threatened central California coast (CCC) coho. No projection of nonretention fishery impacts is available for CCC coho. All harvest of coho has been prohibited south of Horse Mountain beginning with the 1994 season.

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).

Chinook Fisheries

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

1. Conservation and allocation objectives for Klamath River fall chinook as follows: a minimum spawner escapement of 35,000 adults in natural areas; a minimum adult spawner escapement rate of 33-34%; 50% of the allowable adult harvest for tribal subsistence and commercial fisheries; 15% of the non-Indian harvest to the Klamath River recreational fishery; 17% of the ocean harvest to the KMZ recreational fishery.
2. An Oregon coastal natural (OCN) coho exploitation rate of not more than 15% as allowed under Amendment 13, the Oregon Plan for Salmon and Watersheds, and the NMFS 1999 Biological Opinion for threatened California and Oregon coastal coho stocks.

Given the adopted regulations, the STT projected a total harvest of 27,300 chinook in the KMZ and a coastwide ocean harvest rate of 13.8% on age-four Klamath River fall chinook (for fisheries from September 1, 1999 through August 31, 2000).

Coho Fisheries

The Council prohibited retention of coho in the KMZ as a part of the effort to conform to the jeopardy standard in the 1999 NMFS Biological Opinion for threatened Central California coho, northern California coho, and OCN coho. Coho are managed as a unit south of Cape Falcon, and details of the Council's management objectives shaping the 2000 fisheries are presented more fully in the Cape Falcon to Humbug Mountain section.

The STT projected nonretention mortality resulting from fisheries in this area to be equivalent to exploitation rates of 3.35% for Rogue/Klamath (RK) hatchery coho and 1.02% for OCN coho stocks. These rates correspond to an estimated 597 RK coho and 538 OCN coho. Beginning in 1994, no retention of coho has been allowed in this area.

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. A minimum natural spawner escapement of 35,000 adult Klamath River fall chinook plus enough fish to accommodate the inriver recreational fishery and harvest by Klamath-Trinity Basin tribes with federally recognized fishing rights.
2. An OCN coho exploitation rate of not more than 15% as allowed under Amendment 13 and required by the NMFS 1999 Biological Opinion to meet the terms of the Oregon Plan for Salmon and Watersheds.
3. 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 162,000 chinook in this area and a coastwide ocean fishery exploitation rate of 13.8% on age-four Klamath River fall chinook (for fisheries from September 1, 1999 through August 31, 2000).

Coho Fisheries

The Council structured coho salmon fisheries between Cape Falcon and Humbug Mountain to conform to the jeopardy standard in the 1999 NMFS Biological Opinion for threatened northern California, and OCN coho. The jeopardy 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 (surrogate for the southern Oregon/northern California (SONC) coho ESU). To meet the jeopardy standard, the Council adopted seasons for which the STT projected:

1. A coastwide marine and freshwater exploitation rate for OCN coho of 8.2%.
2. A coastwide marine exploitation rate for RK coho of 6.0%.

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

Under the adopted regulations, the STT projected harvest impacts from a limited recreational selective fishery for hatchery coho and nonretention mortality resulting from fisheries in this area to be equivalent to

exploitation rates of 0.16% for RK hatchery coho and 2.68% for OCN coho stocks. This equates to an estimated 30 RK coho and 1,414 OCN coho.

U.S.-Canada Border to Cape Falcon

Chinook Fisheries

Management objectives for chinook fisheries in this area are to provide for viable ocean and inriver fisheries while protecting depressed Columbia River natural stocks and meeting hatchery fall chinook brood stock needs. 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 reduced harvest impact on the threatened lower Columbia River chinook ESU as required by the 1999 NMFS Biological Opinion (the chinook FRAM predicted AEQ exploitation rates of 12.5%, 13.0%, and 3.5% on lower Columbia River springs, tules, and bright fall chinook, respectively).
2. A maximum OCN coho exploitation rate of no more than 15% as allowed under Amendment 13 and required by the NMFS 1999 Biological Opinion to meet the terms of the Oregon Plan for Salmon and Watersheds.

Impacts on threatened Snake River fall chinook were not constraining in 2000 due to restrictions for other stock considerations and due to significant constraints in the Canadian ocean salmon fisheries.

The Council adopted harvest quotas of 12,500, 25,500, and 12,500 chinook for commercial non-Indian troll, commercial treaty Indian troll, and recreational fisheries, respectively.

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 and stocks listed under the ESA. 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 Queets and OCN, to acceptable levels.
2. Meet FMP objectives for allocation of impacts for commercial and recreational ocean fisheries.
3. Meet inside/outside and treaty Indian/non-Indian allocation objectives.

The Council adopted recreational fishery quota equated to selective fishery impacts associated with a landed catch of 75,000 marked hatchery coho. The adopted commercial harvest quotas of 25,000 and 20,000 coho for the non-Indian and treaty Indian troll fisheries, respectively. The non-Indian commercial fishery between the Queets River and Cape Falcon from August 4 through September 30 was the first ever selective commercial troll fishery for hatchery coho.

SELECTIVE COHO FISHERIES AND SALMON BYCATCH

Recreational fisheries selective for marked hatchery coho (healed adipose fin clip) were planned for the area between Cape Falcon and Humbug Mt., the four ocean areas north of Cape Falcon, and the inside fisheries at Buoy 10 and the Strait of Juan de Fuca (Areas 5 and 6). Preseason and inseason assessments of mark rates, catches, numbers of coho released, and incidental (bycatch) mortality are summarized in Table I-7. Fisheries were sampled by on-water observers and dockside interviews. The mark rate in fisheries south of La Push were very close to the preseason predicted rates. The mark rates for the La Push and Neah Bay fisheries (Areas 3, 4A, and 4B) were lower than predicted. The Strait of Juan de Fuca fishery (Areas 5 and 6) was affected by substantial numbers of two-year-old marked coho in the fishery. Since these two-year-old

TABLE I-7. Summary of 2000 recreational fisheries **selective** for marked hatchery coho (preliminary data). (Page 1 of 1)

Area	Anticipated Mark Rate	Observed Mark Rate	Quota	Anticipated Nonretention Mortality ^a		Landed Coho Catch		Coho Released	Estimated Nonretention Mortality ^b	Angler Days
				Total	Marked	Unmarked	Total			
Recreational										
Ocean Fisheries ^b	48%	34%	12,659	2,716	11,630	11,435	195	22,197	4,224	11,353
Neah Bay	75%	51%	2,010	117	1,926	1,900	26	1,825	347	1,975
La Push	77%	70%	29,500	1,786	28,794	28,656	138	12,281	2,335	20,422
Westport	87%	86%	40,900	1,160	39,575	39,262	313	6,391	1,217	24,200
Columbia River	81%	74%	20,000	976	19,316	18,900	416	6,641	1,267	26,211
Inside Fisheries										
Strait of Juan de Fuca	38%	43%	34,000 ^c	10,545	29,790	NA	NA	39,489	7,503	29,088
Buoy 10	87%	83%	54,900 ^c	1,616	21,478	21,139	339	4,330	826	72,518
Commercial										
Columbia River	84%	73%		324	14,826	14,752	74	5,456	1,692	319
Westport	67%	53%		1,619	2,468	2,456	12	2,178	675	74
Total			21,000	1,943	17,294	17,208	86	7,634	2,368	393

^{a/} Hook-and-release plus drop-off mortality of unmarked fish.^{b/} Includes 4B.^{c/} Expected catch.

fish were not accounted for in the preseason modeling, their presence in the fishery artificially raised the mark rate. The mark rate without these fish would probably have been close to that observed in Neah Bay where all coho less than 16 inches were not legal and were removed from the sample.

Estimated incidental chinook and coho mortalities are reported in Table I-8. Unless otherwise noted, chinook mortality estimates from north of Cape Falcon and coho mortality estimates coast-wide are based on preseason projections scaled by the ratio of observed to projected catch; chinook mortality estimates south of Cape Falcon are based on expansion of dockside sampling data. Estimates of incidental mortality in commercial fisheries constitute bycatch, but incidental mortality resulting from non-retention recreational fisheries is not defined as bycatch in the Sustainable Fisheries Act. There is no process for systematically estimating incidental mortality. Obtaining reliable estimates of incidental mortality would require implementing a uniform coastwide program of observers, logbooks, or test fisheries.

PACIFIC SALMON COMMISSION

The Pacific Salmon Treaty (PST) between the U.S. and Canada became effective in March 1985 and established the PSC with the responsibility for implementing the treaty. 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 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 fisheries affect far-north migrating 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 total aggregate abundance of all stocks contributing to specific components of the fisheries and target fishery harvest rates. For example, the regime for the WCVI fisheries was designed with the intention of reducing fishery harvest rates by approximately 35% from observed levels had they been applied during the period from 1985 through 1996. Over the course of the next few years, the U.S. and Canada will explore the development of management regimes for AABM fisheries that are based on total mortality rather than catch.

For fisheries that are not driven by aggregate abundance-based regimes, 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 preseason management planning processes.

In 2000, 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 189,900 "treaty" chinook (total catch 252,200 less hatchery add-on catch 67,900), based upon an inseason estimate of abundance. Approximately 184,400 treaty chinook were taken by SEAK fisheries in 2000. Canadian fisheries in the North/Central and WCVI areas were constrained due to concerns for fall chinook returning to river systems on the WCVI and depressed coho stocks. Chinook catches for North Coast British Columbia AABM fisheries totaled 31,200 compared to an allowable catch ceiling of 130,000 chinook.

TABLE I-8. Estimated **Incidental mortality** of chinook and coho in 2000 ocean salmon fisheries. Observed incidental mortality was calculated by scaling preseason projections of incidental mortality by the ratio of observed to projected catch except as otherwise noted.(Page 1 of 1)

Area and Fishery	2000 Catch Projection	Projected 2000 Incidental Mortality ^{a/}	Observed in 2000			
			Catch	Incidental Mortality		
OCEAN FISHERIES:^{b/}						
CHINOOK (thousands of fish)						
NORTH OF CAPE FALCON						
Treaty Commercial Troll	25.5	7.0	7.6	2.1		
Non-Indian Commercial Troll	12.5	2.6	12.9	2.7		
Recreational	12.5	1.6	9.2	1.2		
CAPE FALCON TO HUMBUG MT.						
Commercial Troll	157.8	NA	130.2	NA		
Recreational ^{c/}	4.2	NA	12.9	0.8		
HUMBUG MT. TO HORSE MT.						
Commercial Troll	11.4	NA	5.3	NA		
Recreational ^{c/}	15.9	NA	25.0	3.8		
SOUTH OF HORSE MT.						
Commercial	262.1	NA	427.4	NA		
Recreational	159.1	NA	166.7	17.6		
TOTAL OCEAN FISHERIES						
Commercial Troll	469.3	NA	583.4	NA		
Recreational	191.7	NA	213.8	23.4		
INSIDE RECREATIONAL FISHERIES:						
Area 4B Add-On	0.0	<0.05	-	NA		
Buoy 10	11.0	NA	5.9	NA		
OCEAN FISHERIES:						
COHO (thousands of fish)						
NORTH OF CAPE FALCON						
Treaty Commercial Troll	20.0	1.1	22.2	1.2		
Non-Indian Commercial Troll ^{d/}	25.0	5.7	17.3	3.9		
Recreational ^{d/}	75.0	8.9	77.5	9.2		
SOUTH OF CAPE FALCON						
Commercial Troll	0.0	12.7	0.0	12.7		
Recreational ^{d/e/}	20.0	8.3	19.9	9.9		
TOTAL OCEAN FISHERIES						
Commercial Troll	45.0	19.5	39.5	17.9		
Recreational ^{d/}	95.0	17.2	97.4	20.1		
INSIDE RECREATIONAL FISHERIES:						
Area 4B Add-On ^{d/}	6.0	1.8	4.4	1.3		
Buoy 10 ^{d/f/}	54.9	5.2	21.2	2.0		

a/ The incidental mortality reported in this table consists of hook-and-release and drop-off mortality of chinook and coho salmon in fisheries which have minimum size limits or special species retention restrictions (e.g., all-salmon-except-coho or all-salmon-except-chinook seasons, or selective fisheries for marked coho). The hook-and-release mortality rates used by the Council are provided below by gear and area. In addition, a drop-off mortality impact is applied which is generally 5% of the landed catch or estimated encounters for nonretention fisheries.

Commercial - 26% of fish hooked-and-released

Sport north of Pt. Arena - 14% of fish hooked-and-released

Sport south of Pt. Arena - 23.2% (weighted average of California style mooching and trolling) of fish hooked-and-released.

b/ Includes late season chinook fisheries in Oregon territorial waters.

c/ Incidental chinook mortalities in recreational fisheries south of Cape Falcon based on dockside interview estimates of fish released.

d/ Selective fishery for marked hatchery coho, which allows only retention of coho with a healed adipose fin clip.

e/ South of Falcon impacts based on scaled impacts partitioned between selective coho fishery and chinook fishery.

f/ Buoy 10 fishery opened Aug. 1 with an expected landed catch of 32,400 marked coho in Aug. and 22,500 marked coho in Sept.

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

Year	Total Catches			Treaty Chinook		
	Troll	Net	Sport	Troll	Net	Sport
1985	216.1	34.7	24.9	212.2	34.2	23.0
1986	237.7	21.7	22.6	231.6	20.5	19.2
1987	242.6	15.5	24.3	231.1	14.0	20.5
1988	231.4	21.8	26.2	217.1	17.4	22.2
1989	235.7	24.2	31.1	224.2	18.5	26.8
1990	287.9	27.7	51.2	263.6	16.1	41.4
1991	264.1	32.8	60.5	231.6	20.0	45.1
1992	183.7	32.1	42.9	162.6	24.0	35.3
1993	226.9	28.0	49.2	212.4	16.5	42.7
1994	186.2	35.7	42.4	177.1	23.3	35.5
1995	138.1	48.0	49.7	115.3	28.6	34.9
1996	141.4	37.4	38.5	108.1	9.2	29.1
1997	246.5	25.0	67.7	221.9	13.9	55.8
1998	192.0	23.5	55.5	183.4	13.4	48.0
1999	145.9	32.6	60.6	132.8	13.0	47.6
2000 ^{a/}	158.7	41.5	52.0	136.7	10.9	36.8

a/ 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.			WCVI			CHINOOK			Strait of Georgia			Sport			Juan de Fuca				
	Troll	North-		Sport	Central B.C.		Troll	NW		Net	Sport		Troll	Net ^{a/}		North	South		Troll	Net			
		Troll	Net		Troll	Net		Troll	Net		Troll	Net		Troll	Net		Outside Sport	Troll	Net	Troll	Net		
CHINOOK																							
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	0.0	44.6	27.8	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	0.0	11.3	24.9	0.0	11.3	24.9	
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	0.0	11.3	24.9	0.0	11.3	24.9	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	0.0	11.8	31.2	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	0.0	32.0	32.5	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	0.0	12.8	30.1	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	0.0	11.8	19.0	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	0.0	15.6	21.1	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	0.0	2.8	14.0	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	0.0	13.8	14.4	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	0.0	1.5	14.4	0.0	1.5	14.4	
1996	0.0	30.9	0.0	4.1	11.0	0.0	0.0	0.0	0.0	10.0	0.0	0.6	55.2	15.3	0.0	0.6	19.0	0.0	0.6	19.0	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	0.0	0.4	17.2	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	0.0	0.2	9.7	0.0	0.2	9.7	
1999	44.6	11.3	2.1	4.2	46.0	21.3	34.7	1.0	22.0	0.2	0.2	26.4	12.1	0.0	0.2	14.8	0.0	0.2	14.8	0.0	0.2	14.8	
2000 ^{b/}	9.2	20.4	0.0	3.2	22.1 ^{c/}	24.5	38.8	0.0	37.2	0.7	0.2	17.3	4.6	0.0	0.0	11.2	0.0	0.0	11.2	0.0	0.0	11.2	
COHO																							
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	0.3	224.7	25.3	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	0.2	216.4	61.6	0.2	216.4	61.6	
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	56.7	75.9	0.2	56.7	75.9	0.2	56.7	75.9	
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	0.0	342.1	89.4	0.1	342.1	89.4	0.1	342.1	89.4	
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	154.1	69.4	0.1	154.1	69.4	0.1	154.1	69.4	
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	0.0	180.4	110.6	0.0	180.4	110.6	0.0	180.4	110.6	
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	106.0	119.7	0.0	106.0	119.7	0.0	106.0	119.7	
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	62.0	108.9	0.0	62.0	108.9	0.0	62.0	108.9	
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	131.0	118.6	0.0	131.0	118.6	0.0	131.0	118.6	
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	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.1	
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	0.0	36.7	71.5	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	0.0	4.2	94.0	0.0	4.2	94.0	
1997	158.6	28.6	8.2	12.0	37.1	0.0	0.0	0.0	0.0	29.1	0.0	5.9	2.6	0.0	0.4	99.5	0.0	0.4	99.5	0.0	0.4	99.5	
1998	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2000 ^{b/}	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

a/

b/

c/

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

Preliminary.

Queen Charlotte Islands only (remaining North-Central B.C. sport fisheries usually account for another 10,000 to 15,000 chinook).

Canada's principal management objective for the 2000 WCVI chinook troll fishery was to address concerns for southern B.C. coho stocks. Non-retention of coho and limitations on incidental coho mortalities limited the timing of the chinook fishery. The fishing pattern in 2000 differed substantially from previous years in terms of size limits and timing of fisheries. The accounting period for the WCVI fishery runs from October 1, 1999 through September 2000. There were three troll openings in 2000, all operating under a 55 cm minimum size limit. Harvests during October 1 through October 22, March 28-May 14, and September 23-30 amounted to 56,000, 5,300, and 2,100 chinook, respectively. The WCVI outside (the area where non-local stocks predominate) sport fishery operated under a 45 cm minimum size limit and harvested 37,200 chinook.

Fisheries in the Strait of Georgia and Johnstone Strait areas were managed in response to concerns for lower Georgia Strait chinook and coho stocks. Only chinook taken incidentally during troll fisheries directed at sockeye and pink could be retained. A total of 500 chinook were retained and 5,600 chinook were released by troll fisheries in Johnstone Strait and the Strait of Georgia. The recreational catch of chinook in the Strait of Georgia and Strait of Juan de Fuca was estimated at 31,500 fish through the end of October. Approximately 11,400 chinook were taken by the sport fishery in Johnstone Strait.

No direct management measures for chinook salmon within the Council management area are specified in the 2000 PST agreement except for the ISBM commitment. The Council's ocean fisheries and inside fisheries were designed to minimize impacts on spawning escapements of depressed stocks, but the information necessary to evaluate the impacts of Council area fisheries is not yet available.

Coho Fisheries

The June 1999 PST agreement included a commitment to develop abundance-based regimes for a specified set of fisheries along the Washington-British Columbia border. These regimes are to be designed to conserve natural coho production units from Washington, Oregon, and southern British Columbia by establishing exploitation rate constraints based on projected resource status. Details of the regime are to be developed through bilateral work groups over the course of the next few years.

All Canadian fisheries operated under coho non-retention restrictions in 2000. No commercial troll or net fisheries for coho were permitted in 2000. Small, mark-selective fisheries for coho were permitted in some areas in 2000. The WCVI sport fishery operated under mark-selective restrictions from August 24 through November 30th (4,200 coho retained and 8,900 released). Canadian WCVI fisheries significantly impact many of the coho stocks that influence the Council's management actions in the area north of Cape Falcon.

CHAPTER II

CHINOOK SALMON MANAGEMENT

CENTRAL VALLEY CHINOOK STOCKS

Central Valley chinook salmon stocks include all fall, late-fall, winter, and spring stocks of the Sacramento and San Joaquin rivers and their tributaries. Of these stocks, two are currently listed under the Endangered Species Act (ESA): (1) Sacramento River winter chinook, listed as endangered in January 1994; and (2) Central Valley spring chinook, listed as threatened in September 1999. Spring chinook are also listed as threatened under the California Endangered Species Act (CESA), as of February 1999, and winter chinook as endangered as of August 1989.

Management Objectives

The following conservation objectives guided Council management of Central Valley chinook salmon stocks in the 2000 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 the endangered Sacramento River winter chinook, the National Marine Fisheries Service (NMFS) jeopardy standard requiring a 31% increase in the adult spawner replacement rate relative to the observed mean rate for 1989 through 1993. This jeopardy standard was first applied in 1997, and corresponds to a 1.77 adult replacement rate. The 2000 NMFS Biological Opinion produced a finding of no jeopardy for the spring stock.

Regulations to Achieve Objectives

Harvest impacts on Central Valley chinook are a primary management concern in fisheries south of Point Arena, California. For 2000, no specific restrictions were required for ocean salmon fisheries to meet the conservation objective for Sacramento River fall chinook. Under the 2000 regulations, the STT projected a spawner escapement in the Sacramento River of 343,600 fall chinook adults, well above the conservation objective range.

For endangered Sacramento River winter chinook, the STT projected that the 2000 fisheries would meet the NMFS jeopardy standard for Sacramento River winter chinook of 1.77 spawners per brood spawner. Regulations instituted south of Horse Mountain, California, to achieve this standard included season limitations by time and area, minimum size limits, and specific gear restrictions, primarily in the recreational fishery.

Commercial Troll

To meet the Sacramento River winter chinook jeopardy standard, the commercial fishery was limited by time and area, and the minimum size limit was increased to 27 inches after June 30 to help reduce retention of the generally smaller Sacramento River winter chinook. One test fishery was conducted in the commercial fishery to help identify stock composition of the catch at particular times and areas, with the hope that the information will help in shaping seasons to minimize impacts on listed or Klamath stocks while providing harvest opportunity for more abundant Sacramento River fall chinook.

Recreational

Recreational restrictions to protect Sacramento River winter chinook included a two-week delay, until April 15, in the opening of the season between Pt. Arena and Pigeon Pt., the 24-inch minimum size limit south of Horse Mountain through May 31 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 estimate is made for the 2000 season, recreational harvest regulations continued to allow extensive harvest of fall chinook. A comprehensive angler survey of the Sacramento River system, conducted from 1990 through 1994, showed that the recreational catch averaged 25% of the river run, as did an additional survey conducted from 1998 though 2000. The river regulations, as they have since 1990, closed the mainstem Sacramento River to retention of salmon from January to July when winter chinook adults are present. In response to low escapements in recent years, the San Joaquin River and its tributaries (Stanislaus, Tuolumne, and Merced) were closed to recreational salmon fishing.

Escapement and Management Performance

Sacramento River Fall Chinook

In 2000, a total of 428,300 natural and hatchery fall chinook adults returned to spawn in the Sacramento River basin. This number exceeds the preseason expectation of 343,600 adults, and the Council's conservation objective of 122,000 to 180,000 adult spawners. Sacramento River hatchery returns totaled 52,000 adults. Available data indicate that 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 finer breakdown of the historical escapements, see Appendix B, Tables B-1 and B-2.

Sacramento River Winter and Spring Chinook

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

Spawner escapement of endangered winter chinook salmon in 2000 was estimated to be approximately 600 adults, resulting in a three-year adult spawner replacement rate of 1.17. This rate is below the goal of 1.77, but above the 1999 replacement rate of 1.45. Winter chinook returns to the upper Sacramento River in 2000 were estimated using partial counts at the Red Bluff Diversion Dam fish ladders. The gates at the dam were opened during the bulk of the run to facilitate salmon passage. Ocean fishery impacts on the returning cohort of winter chinook spawners in 2000 were incurred primarily during the 1999 season and in the early 2000 recreational season off California.

Threatened spring chinook returns to the Sacramento River totaled approximately 9,300 fish (jacks and adults), of which approximately 5,600 fish returned to the upper river (above the mouth of the Feather River). The 2000 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 2000 totaled 37,100 natural jacks and adults and 7,400 hatchery jacks and adults (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 total Central Valley spawner escapement for fall run chinook; this percentage has been trending upward since 1990.

Test Fisheries

One test fishery was conducted off California in 2000. In July, the third year of the Bodega test fishery was conducted between Fort Ross and Point Reyes, within 6 nautical miles of shore, to determine whether an "inside" commercial fishery would result in a lower contribution rate of Klamath River fall chinook than would

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

Year	Upper River ^{a/}			Lower River			Total		Grand Total
	Hatchery	Natural ^{b/}	Subtotal	Hatchery	Natural ^{b/}	Subtotal	Hatchery	Natural ^{b/}	
1970	3.0	64.0	67.0	10.2	83.0	93.2	13.2	147.0	160.2
1971	1.5	62.6	64.1	10.2	75.3	85.5	11.7	137.9	149.6
1972	1.6	35.0	36.6	6.8	44.0	50.8	8.4	79.0	87.4
1973	3.0	48.0	51.0	18.0	151.0	169.0	21.0	199.0	220.0
1974	1.3	66.0	67.3	11.6	122.0	133.6	12.9	188.0	200.9
1975	1.8	71.0	72.8	10.8	69.0	79.8	12.6	140.0	152.6
1976	1.8	79.0	80.8	8.6	75.3	83.9	10.4	154.3	164.7
1977	4.7	46.8	51.5	13.2	83.0	96.2	17.9	129.8	147.7
1978	1.1	76.0	77.1	10.0	47.0	57.0	11.1	123.0	134.1
1979	4.7	77.0	81.7	10.6	71.0	81.6	15.3	148.0	163.3
1980	8.8	53.0	61.8	16.5	72.0	88.5	25.3	125.0	150.3
1981	5.7	51.0	56.7	25.1	91.0	116.1	30.8	142.0	172.8
1982	16.2	37.0	53.2	14.5	93.5	108.0	30.7	130.5	161.2
1983	5.4	40.6	46.0	12.5	49.5	62.0	17.9	90.1	108.0
1984	18.7	48.7	67.4	19.1	68.5	87.6	37.8	117.2	155.0
1985	13.1	107.7	120.8	12.9	101.3	114.2	26.0	209.0	235.0
1986	11.3	109.5	120.8	11.3	102.9	114.2	22.6	212.4	235.0
1987	11.3	73.4	84.7	9.9	77.0	86.9	21.2	150.4	171.6
1988	12.5	125.2	137.7	14.2	71.8	86.0	26.7	197.0	223.7
1989	10.2	65.9	76.1	15.7	54.5	70.2	25.9	120.4	146.3
1990	13.5	50.8	64.3	8.9	34.1	43.0	22.4	84.9	107.3
1991	10.0	33.6	43.6	14.7	53.1	67.8	24.7	86.7	111.4
1992	6.2	33.0	39.2	15.4	29.2	44.6	21.6	62.2	83.8
1993	7.1	54.4	61.5	17.1	48.9	66.0	24.2	103.3	127.5
1994	11.5	50.4	61.9	17.7	62.1	79.8	29.2	112.5	141.7
1995	24.8	92.8	117.6	16.8	133.4	150.2	41.6	226.2	267.8
1996	18.8	83.8	102.6	14.1	127.7	141.8	32.9	211.5	244.4
1997	45.4	154.8	200.2	19.2	104.5	123.7	64.6	259.3	323.9
1998	42.4	60.1	102.5	26.8	108.2	135.0	69.2	168.3	237.5
1999	23.7	148.3	172.1	17.3	83.9	101.2	41.0	232.3	273.3
2000 ^{c/}	20.8	153.6	174.4	31.2	222.6	253.8	52.0	376.3	428.3

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.

c/ Preliminary.

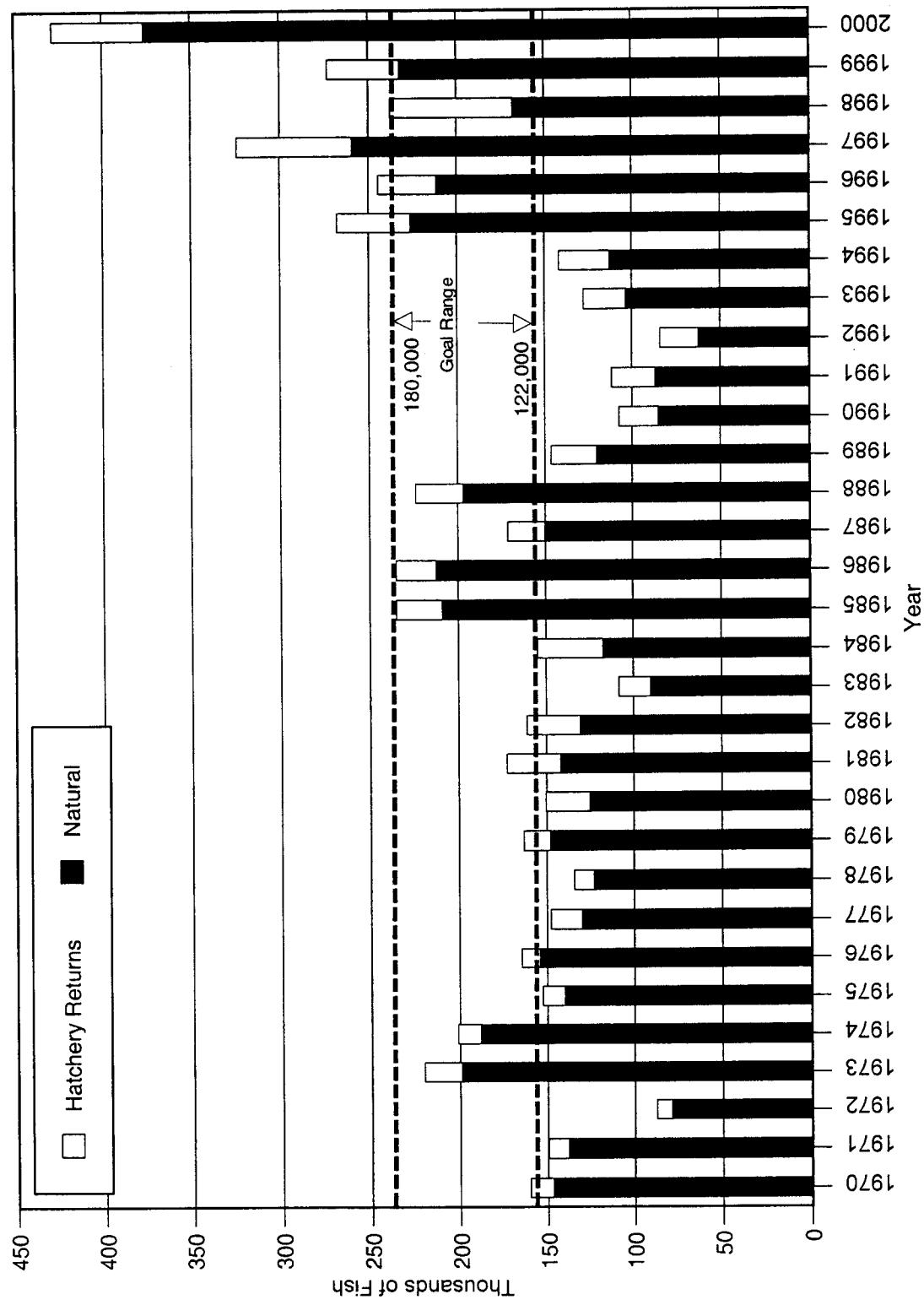


FIGURE II-1. Sacramento River adult fall chinook spawning escapements, 1970-2000.

otherwise be expected from an "outside" fishery in this area. During the 14-day fishery, 792 tissue samples and 33 CWTs were collected from an estimated 1,830 salmon landed. The quota of 4,500 fish was not reached. A subset of 578 tissue samples were sent to be analyzed; the results of the genetic analysis are not available at this time.

NORTHERN CALIFORNIA COAST CHINOOK STOCKS

Northern California stocks include fall and spring stocks north of the Russian River. 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 provided primary guidance for Council management of northern California chinook salmon stocks in the 2000 fisheries. The objective for Klamath River fall chinook is a harvest rate plan (Amendment 9) calling for a minimum adult natural spawner escapement rate of 33-34%, 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 ESA jeopardy standard for coastal California chinook, which limits the ocean harvest rate on age-4 Klamath fall chinook to no more than 17%.

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 (from Horse Mountain, California to Humbug Mountain, Oregon). To achieve the management objectives for Klamath River fall chinook, the adopted regulations were designed to result in: (1) an ocean fishery exploitation rate on age-4 Klamath River fall chinook of 13.8% (for fisheries from September 1, 1999, through August 31, 2000); (2) a Klamath River run target of 85,000 fall chinook adults resulting in a spawner escapement of 35,000 fish in natural areas taking into account a projected inriver harvest impact of 32,400 adults and returns to basin hatcheries; (3) 50% of the allowable adult harvest for tribal subsistence and commercial fisheries; (4) 15% of the non-tribal harvest to the Klamath River recreational fishery; and (5) 17% of the ocean harvest to the KMZ recreational fishery. These harvest allocations were expected to result in a 57/43 California/Oregon sharing of age-4 Klamath River fall chinook ocean harvest (outside of the KMZ recreational fishery).

Fishing opportunity was substantially limited within the KMZ and in the Fort Bragg area (Horse Mountain to Point Arena, California). Commercial fisheries in the Fort Bragg area and the California portion of the KMZ were limited to the month of September, while the Oregon portion of the KMZ was open to commercial fishing in May, closed in June and July, and had limited area openings under quotas in August and September. Recreational fishing was also limited in the KMZ by a 1-fish daily-bag-limit (May 27-July 6) or a 2-fish daily-bag-limit (July 29-September 10), and a 22-day closure in July.

Inside Harvest

Inriver harvest estimates for streams outside the Klamath River Basin are not available. The tribal and recreational fisheries in the Klamath River were managed under quotas. The U.S. Department of the Interior adopted a tribal inriver harvest quota of 28,200 adult fall chinook. The State of California managed the recreational fishery under a 4,200 adult fall chinook quota. Adult chinook landings totaled 29,400 fish (104% of the quota) in the tribal fishery and 5,300 fish (126% of the quota) in the recreational fishery (Table II-2).

TABLE II-2. Klamath River adult 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	Percent
1978	71,500	77	1,700	2	18,200	20	1,500	2	92,800	
1979	34,300	67	2,100	4	13,700	27	1,100	2	51,200	
1980	28,000	61	4,500	10	12,000	26	1,100	2	45,800	
1981	38,300	48	6,000	7	33,000	41	2,800	3	80,100	
1982	42,400	64	8,300	12	14,500	22	1,300	2	66,500	
1983	44,600	78	4,200	7	7,900	14	700	1	57,500	
1984	23,600	50	3,300	7	18,700	40	1,600	3	47,100	
1985	48,200	75	3,600	6	11,600	18	1,000	2	64,400	
1986	146,300	75	21,000	11	25,100	13	2,400	1	194,800	
1987	130,800	63	20,200	10	53,100	25	4,700	2	208,800	
1988	112,800	59	22,200	12	51,700	27	4,600	2	191,300	
1989	65,900	53	8,800	7	45,600	37	3,800	3	124,000	
1990	23,600	66	3,600	10	7,900	22	700	2	35,800	
1991	18,100	56	3,400	10	10,200	31	900	3	32,600	
1992	19,400	73	1,000	4	5,800	22	500	2	26,700	
1993	43,500	76	3,200	6	9,600	17	800	1	57,100	
1994	47,100	76	1,800	3	11,700	19	1,000	2	61,600	
1995	190,700	89	6,100	3	15,600	7	1,400	1	213,700	
1996	101,400	58	12,800	7	56,500	32	4,800	3	175,400	
1997	64,800	77	5,700	7	12,100	15	1,100	1	83,700	
1998	71,700	79	7,700	9	10,200	11	1,000	1	90,500	
1999	33,800	64	2,300	5	14,700	29	1,200	2	50,900	
2000 ^{a/}	117,600	83	5,300	2	29,400	14	2,500	1	214,800	

a/ 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). No conservation objectives for spawner escapements are in place for these river systems. Restrictions on Klamath River fall chinook harvest likely maintain low ocean harvest impacts for north coastal stocks.

Klamath River Fall Chinook

The 2000 postseason river run size estimate (preliminary) for Klamath River fall chinook salmon is 214,760 adults compared to the preseason predicted ocean escapement (river run size) of 85,000 adults. The escapement to natural spawning areas of 80,000 adults substantially exceeded the preseason prediction of 35,000 adults, the floor-level conservation objective. The estimated number of hatchery returns is 97,600 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 14,300 adults, compared to the 1999 escapement of 5,000 adults. The Shasta River has historically been the most important chinook salmon spawning stream in the upper Klamath River, supporting a run of 30,700 adults as recently as 1964, and 63,700 in 1935 (Appendix B, Table B-6). The escapement in 2000 was 10,700 adults.

Allocation

The CWT data that are necessary to evaluate whether the Council's harvest allocations and age-4 ocean harvest rate for Klamath River fall chinook 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 somewhat overlap, 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.

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 Oregon coastal natural (OCN) coho 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.

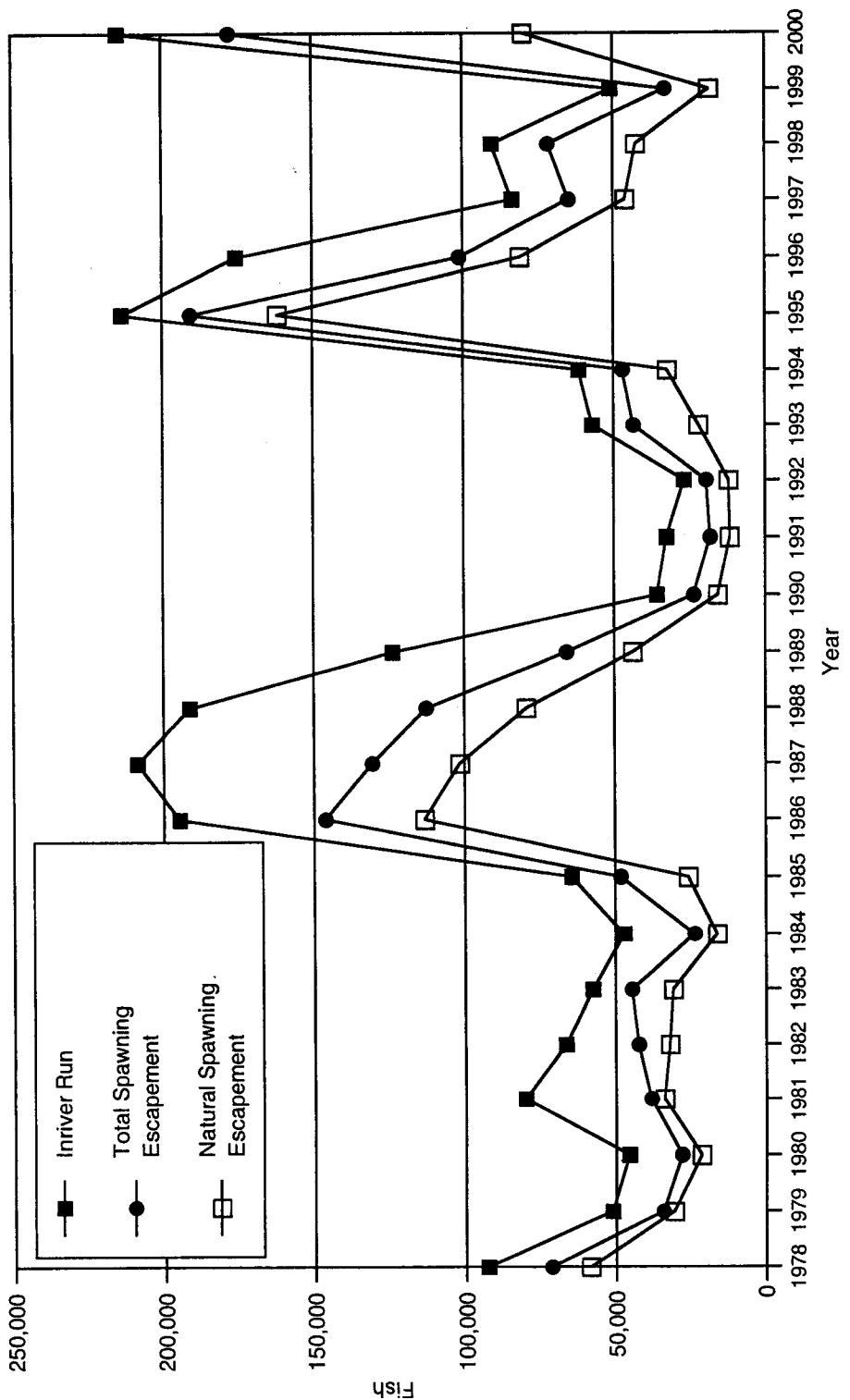


FIGURE II-2. Klamath River adult fall chinook salmon inriver run and spawning escapements, 1978-2000.

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. 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 southeast Alaska, and to a much lesser degree in Council area fisheries off Washington and Oregon, primarily in 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 contributions to 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.

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 2000 regulations, the STT expected the aggregate conservation objective for this stock to be met with the restraints required for Klamath River fall 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 2000 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 Goal Assessment

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 for both subgroups, and includes both spring and fall chinook.

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 2000 are preliminarily estimated at 85 adults per mile, meeting 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 peaked during the 1986 through 1988 period following several years of reduced abundance (Figures II-3 and II-4). Ocean and spawner escapement returned to low levels from 1989 through 2000.

The aggregate Oregon coast goal of 150,000 to 200,000 naturally spawning chinook adults was probably met in 2000.

Preliminary estimates of total fall and spring chinook returns to Oregon coastal hatcheries in 2000 are 2,900 and 24,200 adults, respectively (Table II-3). Hatchery egg-take goals are expected to be met at all stations.

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

Year	Return to Facilities			Estuary and Freshwater Harvest ^{b/}	
	Public Hatchery ^{a/}		Private	Spring	Fall
	Spring	Fall	All	Spring	Fall
THOUSANDS OF CHINOOK					
1976	2.9	0.5	-	13.5	24.3
1977	2.4	4.2	-	13.8	35.6
1978	4.4	1.6	-	13.1	43.4
1979	7.0	2.0	0.4	16.4	31.2
1980	7.9	1.8	3.4	11.9	22.7
1981	2.5	1.8	5.1	11.2	30.0
1982	4.1	2.3	12.1	11.6	25.1
1983	3.9	4.0	6.1	4.9	21.5
1984	5.6	3.3	6.3	4.1	29.0
1985	8.7	3.5	34.6	9.0	29.5
1986	30.6	5.8	70.8	17.3	36.5
1987	22.8	7.1	38.7	20.2	54.8
1988	22.0	6.4	25.0	28.9	61.7
1989	32.7	4.3	14.7	23.7	53.7
1990	6.3	3.4	7.8	15.5	39.8
1991	5.4	3.1	4.1	11.1	47.7
1992	2.7	4.4	-	8.0	44.5
1993	10.6	2.8	-	16.4	54.8
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	65.9
1997	29.1	2.0	-	14.7	43.0
1998	11.0	2.6	-	8.1	45.3
1999	18.1	3.3	-	NA	NA
2000 ^{c/}	24.2	2.9	-	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. ^{a/} (Page 1 of 2)

Year	Fall Chinook Spawner Indices		South/local Migrating Spring Chinook Spawner Indices	
	Rogue River		Rogue River Gold Ray Dam Counts (thousands)	Umpqua River Winchester Dam Counts (thousands)
	North Migrating Peak Count	Adults Per Mile (south/local migrating) Adult Carcass Counts (thousands)		
1941	-	-	41.8	-
1942	-	-	36.1	-
1943	-	-	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
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

TABLE II-4. Spawner Indices^{a/} for naturally produced Oregon coastal fall chinook and south migrating/localized spring chinook. (Page 2 of 2)

Year	Fall Chinook Spawner Indices			South/local Migrating Spring Chinook Spawner Indices	
	Rogue River			Rogue River Gold	Umpqua River
	North Migrating Peak Count	Adults Per Mile	(south/local migrating) Adult Carcass Counts (thousands)	Ray Dam Counts (thousands)	Winchester Dam Counts (thousands)
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 ^{b/}	85		3.3	3.4	2.6

a/ 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.

b/ Preliminary.

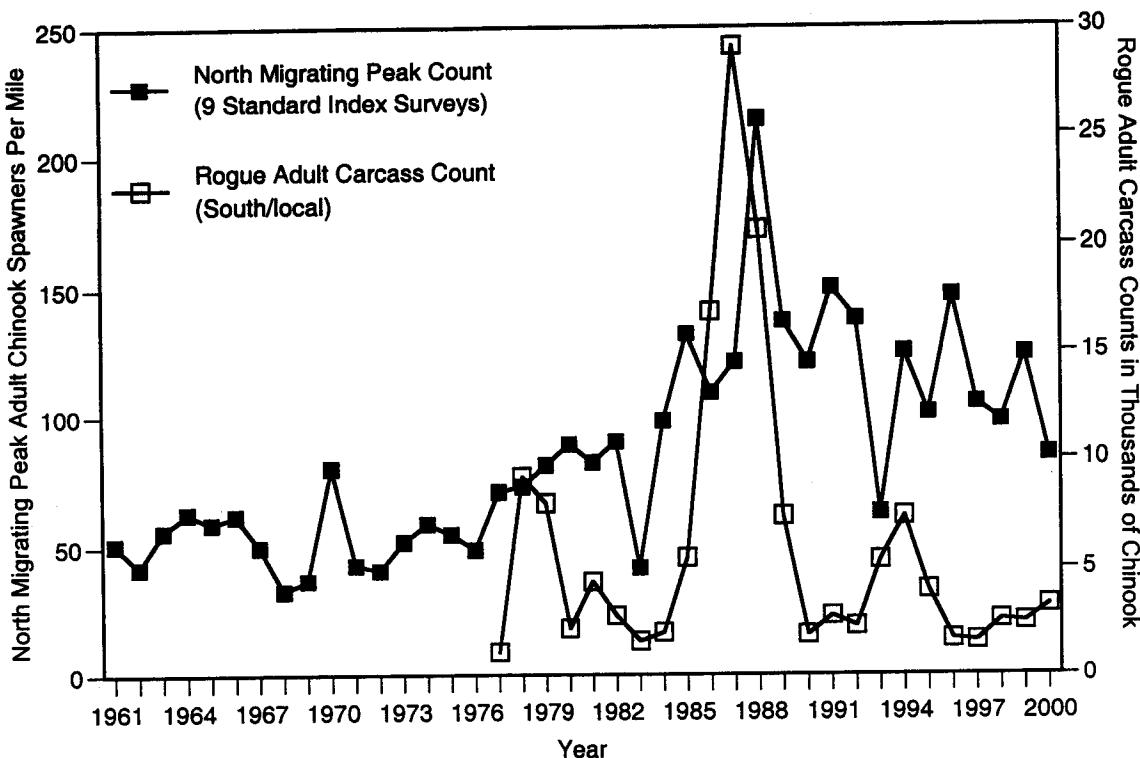


FIGURE II-3. Spawner indices for naturally produced Oregon Coastal fall chinook. (See Appendix B, Tables B-10 and B-11 for detailed counts.)

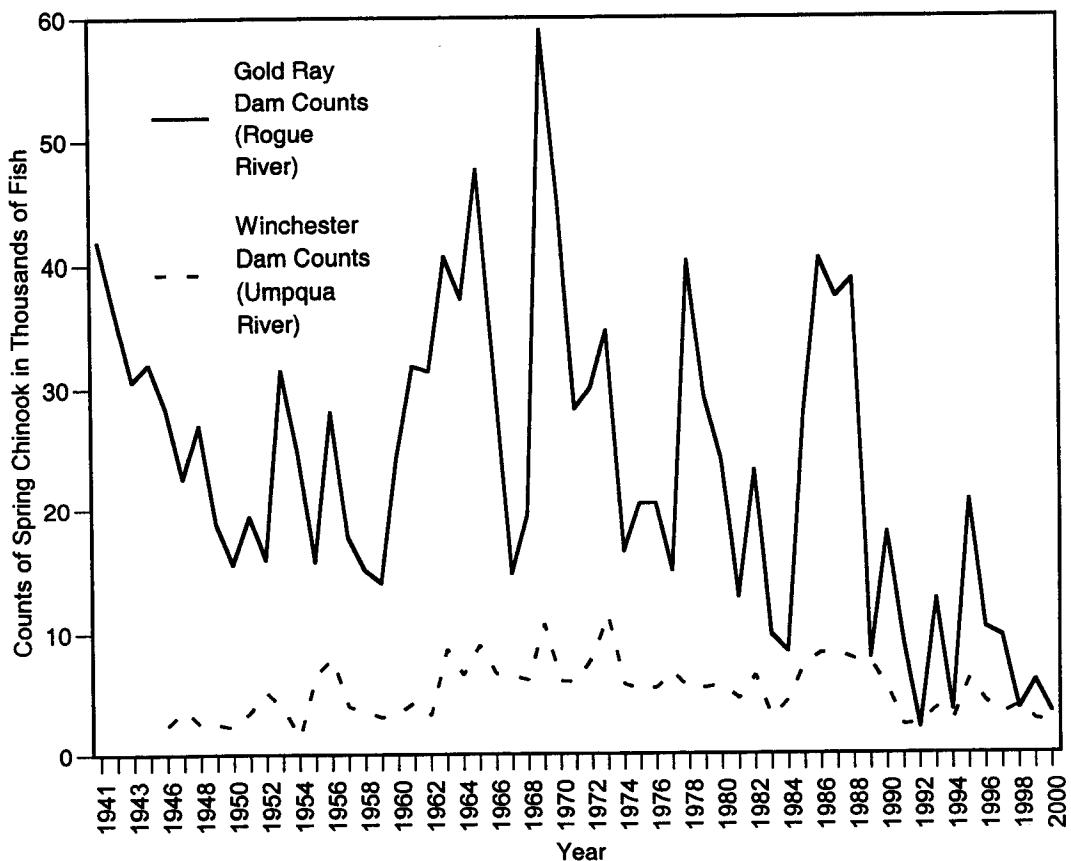


FIGURE II-4. Escapement indices for naturally produced Oregon coastal south/local migrating spring chinook, 1941-2000 (See Appendix B, TABLE B-9 for counts of hatchery produced chinook).

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); lower river wild bright stock (LRW), which is 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 stock (MCB). Management details for Columbia River summer and spring chinook stocks are not discussed since Council-managed ocean salmon fisheries have very limited impacts on summer stocks (less than a 2% exploitation rate in base-period fisheries), and impacts on spring stocks are rare. Appendix Tables B-12 through B-19 contain historical harvest and escapement data for fall, summer, and spring stocks. 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 2000 were managed to minimize the catch of threatened LRW, which was projected not to meet the spawning escapement goal. Other considerations factored into the Council's management for Columbia River fall stocks are escapements of other wild and hatchery fall chinook and maintaining the Snake River Fall Index (SRFI) at or below 0.70 for all ocean fisheries (i.e., no less than a 30% reduction from the 1988 through 1993 base period exploitation rate for all ocean fisheries combined). Due to restrictions in other fisheries (especially fisheries in Canada), neither the SRFI nor the escapements for stocks other than the LRW stock constrained Council fisheries in 2000.

Regulations to Achieve Objectives

Ocean salmon fishery regulations to minimize recreational and commercial impacts on the threatened LRW chinook include trading allowable commercial chinook impacts to the recreational fishery for coho impacts and restricting the majority of the commercial troll season to the May/June time frame.

Inside Harvest

Management of Columbia River fall chinook in recent years has been done through the Columbia River Fish Management Plan (CRFMP) and annual management agreements among the *U.S. versus Oregon* parties. The CRFMP expired on December 31, 1998. However, the parties to *U.S. versus Oregon* reached an agreement on management of upper Columbia River fall chinook, steelhead, and coho for the period of August 1 through December 31, 2000. The fall fisheries were to be managed for a 30% reduction in the inriver harvest rate of Snake River wild fall chinook relative to the 1988 through 1993 based period, as represented by a 31.29% harvest rate index of the aggregate URB.

Harvestable surplus was projected for most stocks with the exception of the LRW which was projected to be under-escaped. Total catch of chinook in all non-Indian commercial fisheries was 10,530 fish including 2,300 fish in Select Area (terminal) fisheries. Total fall chinook recreational catch inside the Columbia River was 19,900 fish, including 6,100 fish in the Buoy 10 fishery and 9,000 fish in the Hanford reach.

The total catch of chinook in 2000 treaty Indian fisheries was 52,300 fish. Compared to recent years, only 25.8% of the catch was sold directly to the public or retained for personal consumption.

All Columbia River mainstem fisheries in 2000 were managed to stay within the 30% harvest rate reduction guidelines for threatened Snake River wild fall chinook. Non-Indian fisheries were also managed to provide protection to the projected poor return of LRW chinook. The goal of a 30% harvest rate reduction on Snake River wild fall chinook was achieved, with a preliminary URB harvest rate index estimate of 30.31%. The 1988 through 1993 base-period average URB harvest rate index was 44.7%.

Escapement and Management Performance

Preliminary estimates of adult ocean escapement for the five fall stocks, based upon preliminary CWT readings, catch estimates, dam counts, hatchery returns, and estimates of natural spawners are 16,500 LRH, 11,400 LRW, 19,600 SCH, 152,500 URB, and 39,700 MCB. Total ocean escapement of the five stocks was 239,200 fish compared to the forecast of 322,600 fish. The largest difference was for LRW (11,400 actual return and 2,700 forecast).

Table II-5 at the end of the chapter summarizes the escapement objectives and performance of Columbia River fall chinook stocks. All fall chinook, including LRW, met their FMP targets; however, the SCH stock fell short of its CRFMP hatchery goal. Appendix B, tables B-12 through B-19 contain more detailed historical escapement data for most Columbia River fall, summer, and spring stocks.

No specific escapement goal has been established for threatened Snake River wild fall chinook. 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 total adult fall chinook count at Lower Granite Dam in 2000 was 3,600 compared to 3,400 fish in 1999, although a significant portion are returns from recent supplementation programs. The estimate of wild escapement over Lower Granite Dam in 2000 is currently not 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 stock complex consists of several natural stocks, generally of small to medium-sized populations, and some hatchery production (Willapa Bay and Quinault River). The primary stocks pertinent to ocean salmon fishery management are Willapa Bay (natural and hatchery), Grays Harbor, Quinault, Queets, Hoh, Quillayute, and Hoko.

Management Objectives

Spawning escapement goals for 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 below 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.

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 overfishing criteria in Amendment 14 due to generally low fishery impacts.

However, the recreational fishery in the Westport area (Area 2) was closed inside 3 miles of shore beginning August 22 to protect Grays Harbor chinook. This stock was not expected to be at a harvestable level and may be concentrated off Grays Harbor in late August and September.

Willapa Bay Chinook

Inside Harvest

Run size, harvest, and escapement data for Willapa Bay fall chinook are presented in Appendix B, Table B-22.

The chinook non-Indian gillnet fishery in July and the first half of August has not occurred since 1993. This fishery generally harvests Columbia river tule stocks in a mix similar to adjacent ocean area catches.

An initial forecast of 18,881 fall chinook did not provide for any chinook directed gillnet days. Due to the extremely low run size forecast, the in-season update fishery was not performed. Chinook harvest in non-targeted gillnet fisheries in 2000 totaled 5,962 fish. This is the lowest chinook catch in recent history.

Recreational harvest estimates are not yet available for 2000. Recreational fisheries were directed at hatchery coho and chinook. The freshwater recreational fishery closed to the taking of adult chinook at 12:01 a.m., September 30. Release of wild (unmarked) coho and single point barbless hooks were required throughout the season.

Escapement and Management Performance

Willapa Bay chinook are managed for hatchery stocks, which are the predominant component of the run. Chinook returns to hatcheries of 3,985 fish were insufficient to meet hatchery production goals which are based on an escapement of about 9,925 fish.

The escapement goal for naturally spawning chinook in Willapa Bay is 4,350 adults. An estimate of the 2000 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-24.

The 2000 terminal run forecast for spring chinook was 2,540 adult fish and exceeded the escapement goal of 1,400 natural adults. Net fisheries were conducted by the Quinault Indian Nation and the Chehalis Tribe, catch data estimates are not yet available. A recreational season was conducted on the Chehalis River, but catch estimates are not yet available.

No summer non-Indian gillnet fishery was directed at non-local chinook stocks in 2000.

The 2000 Grays Harbor fall chinook forecast was 23,962 wild and 2,651 hatchery adults. The escapement goal for wild fall chinook is 14,600. Total fall chinook taken in net fisheries in 2000 was 3,289 by the treaty Indian fishery and 1,296 by the non-Indian 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 Chehalis Tribe did not conduct any fisheries targeting fall chinook.

Escapement and Management Performance

Chehalis River spring chinook are of natural origin and managed for an escapement goal of 1,400 adults. A final escapement estimate for 2000 is not yet available.

Grays Harbor fall chinook are managed for a natural spawning escapement goal of 14,600 adults. Final escapement estimates are not yet 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-26.

A run of natural spawning spring/summer chinook enters the river from April through July. The spring/summer chinook run is typically small. These fish are typically taken incidentally during fisheries directed at sockeye and steelhead. The treaty Indian fishery was limited to July targeting on steelhead because of concerns over low returns of sockeye. No spring/summer chinook were harvested by the treaty Indian commercial gillnet fishery in 2000.

The 2000 harvest of Quinault River fall chinook was taken while the treaty Indian fishery targeted hatchery salmon production during August through mid-November. The treaty Indian net catch totaled 3,420 chinook.

Escapement and Management Performance

Natural escapement estimates are not yet available for 2000. Hatchery production egg take goals for fall chinook were met at tribal facilities; eggs were also taken to supplement returns to the USFW hatchery rack.

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, Tables B-28 and B-29, respectively.

The treaty Indian gillnet fishery on spring/summer fish was limited to a one (1) day subsistence fishery and harvested two (2) fish. This fishery utilized small mesh gear to increase the catch of summer steelhead. The non-Indian inriver recreational fishery on spring/summer chinook was closed.

Fall chinook were harvested during a fishery targeted on hatchery coho. The fishery opened on September 1 and continued utilizing a fishing pattern set forth in a preseason management agreement between the Quinault Indian Nation and WDFW, which was intended to minimize impacts on wild fall coho and chinook. The treaty Indian gillnet fishery harvested 262 fall chinook. The non-Indian inriver recreational fishery was closed to retention of unmarked chinook and coho, except in the Salmon River tributary where hatchery stocks predominate.

Escapement and Management Performance

Preliminary data suggests that the 2000 spawning escapement for the spring/summer chinook stock was 248 adults. This is the fourth consecutive year when terminal run sizes have been below the spawning escapement floor of 700 adults established for this stock.

Natural fall chinook returned above preseason expectations. Spawning escapement is estimated at 3,572 adults, exceeding the minimum goal of 2,500 adult spawners. Hatchery escapement is estimated at 333 fish.

Hoh River Chinook

Inside Harvest

Historic terminal run size, catch, and escapement data for Hoh River spring/summer and fall chinook are presented in Appendix B, Tables B-31 and B-32, respectively. Spring/summer chinook fisheries on the Hoh River were severely curtailed in response to a preseason forecast of 834 fish. The Hoh Tribe and WDFW agreed upon a terminal fishery harvest rate for the tribal fishery which was not to exceed 6.5% of the projected wild chinook run size. The resulting escapement was expected to be 767 fish compared to the escapement floor of 900. The non-tribal sport fishery on the Hoh River was closed to retention of adult spring/summer chinook during the 2000 season, although about thirteen hook and release chinook mortalities were anticipated during the summer steelhead fishery that opened June 1. The tribal fishery operated for three days in May, primarily catching dip-in hatchery chinook, and two days after May. An additional 38 fish were taken in separate ceremonial permit fishing. Results of this fishery and analyses of scales indicates that only 37 wild Hoh River adults were taken by the commercial fishery, significantly below what was expected to occur.

The Hoh River tribal fishery on fall chinook was based on an expectation of a terminal run size of 2,800 fish. The inriver tribal fishery was expected to harvest 21.4% of the fall chinook returning to the terminal area under the fishing schedule, based on modeling using past fishing catch and effort. Escapement under the fishing plan was anticipated to be above the floor of 1,200 fish. The tribal fishery caught 424 chinook, indicating a lower than expected harvest and run size, with approximately 409 wild origin fish and the remainder hatchery dip-ins.

Escapement and Management Performance

Spawning escapement of Hoh spring/summer chinook is preliminarily estimated at 500 adults. The run size and escapement for spring/summer chinook was significantly below the preseason expectation, but consistent with expected levels given the tribal catch under the fishing schedule.

Fall chinook terminal run size and spawning escapement were lower than anticipated, based on both lower than expected tribal harvest and densities of fish on spawning grounds. Harvest rates can vary substantially depending upon coho management, river flows, and run entry timing. Both spawner density observations and harvest indicate that spawning escapement was above the floor. The preliminary estimate of spawning escapement is 1,800 adults. While normal large fall freshets did not occur as usual in the Hoh River, flow levels remained high enough early to allow normal fall chinook spawner distribution.

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-34 and B-35, respectively. Spring and summer chinook are managed separately. However, spring and summer data are combined in Table B-34, because separate data for each stock are only available back to 1988.

The recreational and tribal fisheries for spring and summer chinook were established by preseason agreement between WDFW and the Quileute Tribe. The preseason terminal run size prediction for spring and summer chinook was 1,772. Because of this small run size, the tribe only fished two days a week during the spring/summer chinook fishery. The total tribal catch was 254 spring and summer Chinook. The non-tribal recreational fishery remained open through the spring/summer period, but required release of all wild (unmarked) adult chinook during the months of July and August, when the summer coho and most wild summer chinook enter the river. No estimate is available for the 2000 inriver recreational catch of spring and summer chinook.

No preseason agreement was reached between the Quileute Tribe and WDFW for fall terminal fisheries. The preseason fall chinook run size estimate was 4,800. Responding to constraints on wild coho harvest and an apparent decline in fall chinook numbers, the Quileute Tribe scheduled no fisheries for weeks 45-47. The tribal

commercial fishery harvested 570 fall chinook. No estimate is available for the 2000 inriver recreational fishery catch of fall chinook

Escapement and Goal Assessment

The spring/summer management agreement called for an escapement goal of 200 hatchery spring chinook. The actual rack return was 227 adults, meeting the egg take requirements.

The summer chinook run is managed to achieve a 1,200 escapement (adult and jacks combined). The run size of naturally produced summer chinook appears to have returned lower than preseason expectations. The preliminary escapement estimate for 2000 is 924 naturally spawning summer chinook.

Fall chinook appear to have returned in numbers close to the preseason forecast. Terminal area fisheries on fall chinook are managed for a target 40% harvest rate, with a minimum escapement of 3,000 adults. Constraints on fall fisheries resulted in a relatively low terminal fishery harvest rate; the preliminary estimate of fall chinook escapement is 4,000.

PUGET SOUND CHINOOK STOCKS

Puget Sound chinook stocks include all fall, summer, and spring stocks originating from U.S. tributaries to 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 primary stocks of significance to ocean salmon fishery management are eastern Strait of Juan de Fuca, Skokomish, Nooksack, Skagit, Stillaguamish, and Snohomish. The Puget Sound ESU, which encompasses all of these stocks, 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 escapements during periods that were 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]).

The NMFS has developed Rebuilding Exploitation Rate (RER) standards for some Puget Sound stocks (Table II-5). Predicted total exploitation rates were compared to these standards and used by NMFS in making the no jeopardy determination for the combined PFMC/Puget Sound salmon fisheries.

Regulations to Achieve Objectives

Puget Sound stocks contribute to fisheries off British Columbia and are present into southeast Alaska, but are impacted to a minor degree by Council-area ocean fisheries. Base period Council-area ocean fishery exploitation rates (adult equivalent) 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 under Amendment 14.

Inside Harvest

Commercial inside fishery harvest of Puget Sound chinook is managed on the basis of six regional stock management units: Strait of Juan de Fuca, Nooksack-Samish, Skagit, Stillaguamish-Snohomish, South Puget Sound, and Hood Canal. Harvest of chinook for each management unit 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-37. These catches include some fish of non-Puget Sound origin. The total commercial chinook harvest in Puget Sound in 2000 was 71,700 fish, compared to 86,200 chinook caught in 1999. The non-Indian net catch was 11,300 chinook, compared to 9,200 chinook caught in 1999. The treaty Indian net and troll harvest was 60,400 chinook, compared to 77,000 chinook caught in 1999.

Historic chinook recreational catches in the Puget Sound recreational fishery for years from 1971 through 1999 are presented in Appendix B, Table B-38. Catch estimates for the 2000 Puget Sound recreational fishery are not yet available.

Escapement and Management Performance

Historic 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-39. Historic spring chinook escapement data are presented in Appendix B, Table B-42.

Puget Sound spring chinook hatchery escapements were close to the preseason predictions while preliminary data suggest that most Puget Sound hatcheries met their summer/fall chinook goals with the exception of Elwha and Samish.

Naturally spawning Puget Sound spring and summer/fall chinook remained depressed in 2000. Preliminary data suggest the Puget Sound spring chinook natural stocks did not meet their escapement goals. Estimates of 2000 natural spawning escapements for summer/fall chinook stocks are unavailable at this time.

COASTWIDE GOAL ASSESSMENT SUMMARY

A summary of 2000 performance for chinook salmon stocks in relation to Council conservation objectives (Amendment 14) is presented in Table II-5.

TABLE II-5. Performance of chinook salmon stocks in relation to 2000 conservation objectives (preliminary data). (Page 1 of 2)

System and Stock	2000 FMP Conservation Objective	Achievement
Sacramento River Chinook		
Fall	122,000-180,000 natural and hatchery adults.	428,300 hatchery and natural adult escapement, 138% above upper end of target range.
Winter (Endangered)	No less than a 31% increase in the adult 3-year mean replacement rate above the mean rate observed for the 1989-1993 brood years (i.e., a 1.77 cohort replacement rate).	1.17 adult replacement rate (based on dam count), 66% of target.
Spring (Threatened)	Impacts limited by constraints for winter chinook.	-
California North Coast Chinook		
Klamath River Fall	Inriver run size target of 85,000 adults to provide an expected escapement of 35,000 natural adult spawners, the floor level.	214,800 adult inriver run size, 253% of target. 80,000 natural adult spawners, 229% of floor.
California Coastal (Threatened)	No greater than 17% ocean harvest rate on age-4 Klamath River fall chinook.	-
Oregon Coast Chinook		
North and South/Local Migrating Stocks	150,000-200,000 natural adult spawners (equivalent to peak spawner index counts of 60-90 adults per mile).	76 natural adult spawners per mile, midway between the upper and lower ends of the aggregate stock index range.
Columbia River Basin Fall Chinook		
LRW (Component of threatened lower Columbia River chinook ESU)	MSY objective of 5,700 natural North Lewis River adult spawners (jeopardy standard not defined); chinook FRAM projected 3.5% exploitation rate for 2000.	10,900 natural adult spawners, 191% of MSY target.
LRH	14,000 adult hatchery spawners	6,000 adult hatchery spawners, 43% of target.
SCH	7,000 adult hatchery spawners	6,300 adult hatchery spawners, 90% of target.
MCB	No FMP objective; CRFMP target of 7,750 hatchery adults	7,900 adult hatchery spawners, 101% of CRFMP target.
URB	40,000 natural and hatchery adults above McNary Dam, plus meet treaty Indian obligations. <u>U.S. v. Oregon parties agreed to a target of 45,000 adults between 1991 and 1993, and 46,000 after 1993.</u>	66,400 natural and hatchery adults over McNary Dam, 166% of FMP target.
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 0.58. No postseason estimate can be made.
Washington Coastal Chinook		
Fall	Natural spawner escapement objectives as provided in state-tribal agreements; meet hatchery egg-take goals and meet treaty Indian obligations.	Escapement estimates: Grays Harbor natural stock not yet available; objectives met for Queets, Hoh, and Quillayute Rivers; hatchery egg-take goals not achieved for Willapa Bay. Data necessary for allocation determinations are 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 estimates: Grays Harbor not yet available; objectives not met for Hoh, Queets, and Quillayute Rivers. Data necessary for allocation determinations not yet available.

TABLE II-5. Performance of chinook salmon stocks in relation to 2000 conservation objectives (preliminary data). (Page 2 of 2)

System and Stock	2000 FMP Conservation Objective	Achievement	
Puget Sound Chinook			
(Threatened)	Minor part of Washington ocean harvest; Council ocean management not directed at these stocks. Total AEQ exploitation rate standard developed for some stocks:	Postseason estimates not available. Preseason predictions of total AEQ exploitation rates were:	
N.F. Nooksack Early	30%	N.F. Nooksack Early	13%
S.F. Nooksack Early	24%	S.F. Nooksack Early	13%
Upper Skagit Summer	54%	Upper Skagit Summer	29%
Lower Skagit Fall	33%	Lower Skagit Fall	29%
Lower Sauk Summer	36%	Lower Sauk Summer	29%
N.F. Stillaguamish	45%	N.F. Stillaguamish	15%
S.F. Stillaguamish	28%	S.F. Stillaguamish	15%

CHAPTER III

COHO SALMON MANAGEMENT

OREGON PRODUCTION INDEX AREA COHO STOCKS

Oregon production index (OPI) area coho stocks include all Washington, Oregon, and California natural and hatchery stocks from streams south of Leadbetter Point, Washington. The largest naturally produced component of the OPI coho stock is Oregon coastal natural (OCN) coho. It is managed as a stock aggregate with four identified components that include coho produced from Oregon river and lake systems south of the Columbia River. National Marine Fisheries Service (NMFS) has identified three evolutionarily significant units (ESU) within the naturally produced OPI area coho stocks which are listed as threatened: central California coast (CCC) coho listed October 1996, southern Oregon/northern California (SONC) coho listed May 1997, and Oregon coast (OC) coho listed August 1998. The latter two ESUs encompass all the components of OCN coho.

Management Objectives

In establishing ocean salmon fisheries that impact OPI area coho stocks, the Council was guided by the reasonable and prudent alternatives of the 1999 NMFS Supplemental Biological Opinion and Incidental Take Statement for CCC, SONC, and OC 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 SONC coho must be no more than 13% as indicated by projected impacts on Rogue/Klamath (RK) hatchery coho.
3. Marine and freshwater fishery impacts on OCN coho should not exceed 15%.

Regulations to Achieve Objectives

The OPI area coho stocks contribute primarily to ocean fisheries off Oregon and northern California, and to a lesser degree to ocean fisheries off Washington and British Columbia. The 2000 ocean salmon fisheries within the OPI area were severely limited to meet the NMFS jeopardy standards for ESA listed species as outlined above. The Council prohibited retention of coho in all fisheries off California and adopted seasons which the Salmon Technical Team (STT) projected would result in exploitation rates of 6.0% for RK coho in marine fisheries and an overall 8.2% for OCN coho in marine and freshwater fisheries combined. Under the adopted fisheries, the OCN spawner escapement index was projected to be 48,900 adults by stratified random sampling (SRS) accounting, better than double the parent spawner population.

Commercial Troll

Commercial troll fisheries have been closed to coho retention south of Cape Falcon since 1993. The first commercial troll selective fishery for marked hatchery coho occurred between August 4 and September 30 from Cape Falcon to the Queets River. Chinook fishery closures (primarily in July) and gear restrictions (4-spread requirement) were also used to reduce OCN impacts.

Recreational

Retention of coho has been extremely limited in the recreational fisheries south of Cape Falcon since 1993. All coho directed fisheries in the OPI area have been selective for marked hatchery coho since 1998. Additionally, gear restrictions and closed periods were used during some chinook directed fisheries to reduce coho impacts.

Inside Harvest

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

The inside recreational harvest of coho in 2000 in Oregon coastal streams, as in recent years, was very restricted and limited to areas where surplus hatchery coho returns were expected. Selective fisheries for adipose fin-clipped hatchery coho occurred in nine freshwater areas. Estimates of the 2000 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 Oregon Department of Fish and Wildlife (ODFW) salmon and steelhead angler catch record cards, are reported in Table III-1.

Coho harvest statistics for Columbia River commercial and recreational fisheries are presented in Appendix B, Table B-20. The 2000 Columbia River non-Indian commercial gillnet fishery harvested 176,800 adult coho, compared to 80,600 coho in 1999. Select Area fisheries in both Oregon and Washington accounted for 61,500 of the total 2000 Columbia River commercial coho catch. The treaty Indian mainstem commercial gillnet coho catch was 6,300 fish, compared to the 1999 catch of 1,700 coho.

The total mainstem and Buoy 10 recreational fisheries below Bonneville Dam harvested 22,800 coho compared to 10,200 adult coho in 1999. In 2000, Columbia River managers opened the Buoy 10 fishery August 1 through December 31 for both chinook and coho. The upriver boundary was moved from the Astoria-Megler Bridge upstream approximately 5 miles to a line from Tongue Point, Oregon to Rocky Point, Washington. Emergency regulations closing the Buoy 10 fishery to chinook salmon retention were implemented effective August 28-31 due to larger than anticipated chinook catches. Retention of coho was selective for fish with a healed adipose fin clip. Angler compliance with the adipose fin-clip requirement was 98%. The 2000 Buoy 10 harvest and effort totaled 21,500 coho and 72,500 angler trips (Table III-2). Historical Buoy 10 catch and effort data are provided in Appendix B, Table B-21.

Oregon and Washington conducted an on-the-water observation program for the Buoy 10 selective fishery. Preseason, the STT (using the coho Fishery Regulation Assessment Model [FRAM]) predicted the mark rate for the Buoy 10 fishery would be 87%. From on-the-water observations and dockside interviews, the mark rate for the Buoy 10 fishery was 83%.

Escapement and Management Performance

Central California Coast and Northern California Coho

Spawner estimates are not available for CCC coho. Estimates are available for escapement to Klamath and River Basin hatcheries, but not for coho spawning in natural areas. In 2000, coho returns to Iron Gate and Trinity River hatcheries totaled 4,160 adults (3,450 coho to Trinity River and 710 coho to Iron Gate), compared to a combined goal of 2,000 adult coho.

Oregon Coast Coho

Natural spawner escapement in 2000 to Oregon coastal river and lake systems from the Coquille River north is preliminarily estimated at 62,700 adult coho by SRS accounting. This compares to 51,270 adults in 1999. 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 best natural spawning population on the Oregon coast since 1996. The estimate of the natural spawning population in 2000 also ended a three year trend of the population not replacing itself as the population estimate was twice that of the 1997 parental spawning population (Table III-3, Figure III-1). The occurrence of hatchery strays on the spawning grounds was low and natural spawning populations were distributed well among coastal basins.

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

Year	Returns to Hatchery Facilities			Count at North Fork Umpqua Winchester Dam	Number of OCN Spawners ^{a/}			Inside Harvest Impacts ^{b/}	Ocean Escapement to Oregon Coast ^{a/}
	Private	Public	STEP ^{c/}		Lakes	Rivers	Total		
1970	-	36.2	-	0.2	20.5	51.2	71.7	39.8	147.9
1971	-	29.1	-	0.6	29.2	65.6	94.8	24.1	148.6
1972	-	12.9	-	0.3	10.0	24.1	34.1	16.6	63.9
1973	-	18.4	-	0.4	17.6	37.8	55.4	15.4	89.6
1974	-	35.1	-	0.4	6.4	28.1	34.5	13.5	83.5
1975	-	4.9	-	0.5	5.6	34.8	40.4	13.5	59.3
1976	-	38.7	-	0.3	1.5	39.2	40.7	19.6	99.3
1977	4.2	6.5	-	0.4	5.8	13.7	19.5	13.5	44.1
1978	12.3	5.6	-	0.5	1.6	18.2	19.8	4.5	42.7
1979	49.2	22.2	-	0.4	6.6	38.4	45.0	1.5	118.3
1980	38.7	21.9	-	0.2	4.7	25.6	30.3	6.3	97.4
1981	117.8	21.2	-	0.1	2.5	30.1	32.6	9.9	181.6
1982	184.7	14.8	-	2.7	7.9	68.3	76.2	14.7	293.1
1983	133.9	9.5	-	1.2	3.3	19.4	22.7	6.8	174.1
1984	115.4	28.6	-	3.2	14.7	59.7	74.4	17.4	239.0
1985	332.0	15.8	-	4.0	7.6	66.3	73.9	15.7	441.4
1986	453.7	35.8	2.5	9.6	11.8	58.2	70.0	30.3	601.9
1987	119.3	12.3	0.2	2.2	4.2	25.9	30.1	7.7	171.8
1988	116.1	33.7	1.2	1.2	5.8	51.0	56.8	13.3	222.3
1989	46.9	37.3	1.2	3.0	4.8	41.6	46.4	15.1	149.9
1990	35.6	15.4	1.6	2.3	4.4	16.5	20.9	9.5	85.3
1991	35.1	39.6	4.9	5.2	7.3	29.1	36.4	31.5	152.7
1992	-	23.3	0.6	6.0	2.0	37.7	39.7	18.7	88.3
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	4.5	48.6
1998	-	15.2	0.2	5.3	11.1	19.8	30.9	3.1	54.7
1999	-	13.3	0.4	2.5	12.7	34.2	46.9	2.8	68.7
2000 ^{d/}		15.0	0.5	11.1	12.2	50.5	62.7	4.0	93.3

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.

TABLE III-2. Estimated weekly effort (in angler trips) and catches of chinook and coho in the 2000 Buoy 10 recreational fisheries (all data are preliminary).^{a/} (Page 1 of 1)

Week Number	Ending Date of Period	Angler Trips	Catch		Catch Per Trip
			Chinook	Coho	
32	Aug-6	5,211	211	1,769	0.38
33	Aug-13	8,978	1,100	925	0.23
34	Aug-20	17,454	1,950	4,128	0.35
35	Aug-27	20,042	2,596	6,616	0.46
36	Sep 3	9,836	71	4,371	0.45
37	Sep-10	5,885	117	2,311	0.40
38	Sep-17	3,787	40	1,128	0.32
39	Sep 24	997	-	115	0.12
40-44	Oct 29	328	-	26	0.11
Total		72,518	6,085	21,478	0.38

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 nonfin-clipped coho and steelhead with a four-day closure to chinook retention August 28-31.

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

Year	Conservation Objective ^{b/}	Fishery Impact (Total Marine and Freshwater Exploitation Rate)		Adjusted SRS Adult Coho Spawner Population Estimates in Thousands of Spawners by Stock Component ^{a/}						Adult Coho Spawners Per Spawner Habitat Mile					
		Preseason Projection	Postseason Estimate ^{c/}	Northern ^{d/}	North Central ^{e/}	South Central ^{f/}	Southern ^{g/}	Coastwide ^{h/}	Northern ^{d/}	North Central ^{e/}	South Central ^{f/}	Southern ^{g/}	North Central ^{e/}	South Central ^{f/}	North Central ^{e/}
1990	-	-	0.460	0.454	9.3	6.7	20.3	1.0	37.3	10	6	13	2	9	6
1991	-	-	0.420	0.511	2.4	15.4	21.9	2.2 ^{h/}	41.9	3	13	14	5 ^{v/}	10	14
1992	-	-	0.260	0.423	4.5	7.8	42.1	0.4 ^{h/}	54.8	5	7	26	1	14	14
1993	-	-	0.111	0.068	4.1	9.7	29.9	5.4	49.1	5	8	18	13	12	14
1994	≤0.20	0.118	0.124	4.0	13.6	34.8	3.8	56.2	4	12	21	9	14	14	14
1995	≤0.20	0.118	0.083	3.3	18.1	51.5	4.6	77.5	4	16	32	11	19	19	19
1996	≤0.20	0.125	0.124	2.1	2.8	17.7	8.3	30.9	2	3	16	20	8	8	8
1997	≤0.20	0.110	0.078	2.6	3.3	25.2	3.3	34.4	3	2	14	8	9	9	9
1998	≤0.13	0.119	0.087	8.8	11.4	27.1	2.0	49.3	10	10	17	5	12	12	12
1999	≤0.15	0.087	NA	17.6	11.6	33.5	11.9	74.6	20	10	21	29	19	19	19
2000 ^{i/}	≤0.15	0.082	NA	17.6	11.6	33.5	11.9	74.6	20	10	21	29	19	19	19

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 the 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, Tathkenitch, and Tenmile Lakes.

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

h/ Unreliable estimate.

v/ Preliminary.

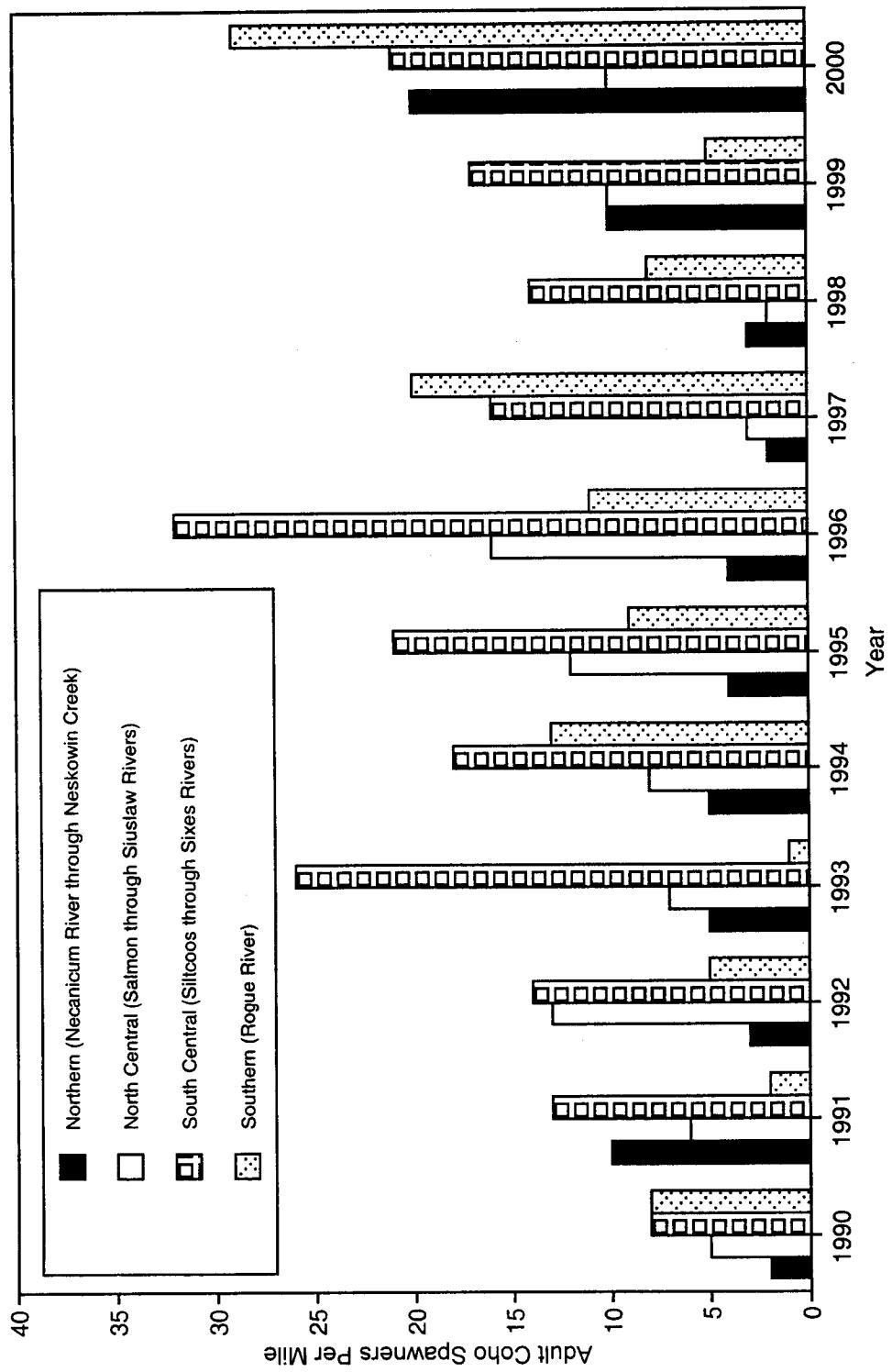


FIGURE III-1. Oregon coastal natural adult coho salmon spawners per spawner habitat mile by coastal region based on SRS, 1990-2000.

Preliminary estimates of total coho returns to Oregon coastal public hatcheries and STEP smolt production facilities were 25,590 and 500 adults, respectively (Table III-1). Hatchery egg-take goals are expected to be met at all public hatchery stations.

Columbia River Coho

The 2000 ocean escapement of adult early and late Columbia River coho stocks was 543,200 fish, compared to 259,900 adults in 1999 (Appendix B, Table B-20). The 2000 Columbia River coho abundance was sufficient to meet all hatchery brood stock escapement needs.

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, Quinault (hatchery), Queets, Hoh, and Quillayute coho.

Management Objectives

Management goals for Grays Harbor and Olympic Peninsula coho stocks include achieving natural spawning escapement objectives and treaty Indian allocation requirements, although Grays Harbor also contains a significant amount of hatchery production. 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 the Washington Department of Fish and Wildlife (WDFW) and treaty Indian tribes under the provisions of *U.S. versus Washington* and subsequent U.S. District Court orders. After 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 providing treaty Indian allocation requirements and inside, non-Indian fishery needs. The conservation objectives for the Queets, Hoh, and Quillayute rivers were developed as ranges intended to bracket estimates of MSY escapement. The range reflects the degree of uncertainty inherent by using the high estimate of recruits-per-spawner and 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. The ranges were subsequently adjusted upward for risk aversion and again for habitat considerations by 26% to 184%.

Regulations to Achieve Objectives

Washington coastal coho stocks contribute primarily to ocean fisheries off Washington and British Columbia. To manage for optimum yield in the 2000 fisheries, the Council regulations were aimed at protecting escapements for depressed natural stocks, especially Queets and western Strait of Juan de Fuca coho. Toward that end, the overall harvest quotas were limited to levels well below those of the late 1980s and early 1990s and all retention of coho in recreational ocean fisheries north of Cape Falcon was limited to marked hatchery fish.

Willapa Bay Coho

Inside Harvest

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

The gillnet catch of coho in Willapa Bay in 2000 totaled 10,035 fish (3,467 wild and 6,568 hatchery). Based on the preseason forecast for a terminal run of 48,800 fish, the scheduled fisheries were expected to harvest approximately 7,630 total coho.

Recreational harvest estimates are not yet available for 2000. All recreational fisheries opened at the usual time, were of normal duration, and maintained normal bag limits.

Willapa Bay was open to recreational fishing from August 16 through January 31 with a daily-bag-limit of six salmon, two of which could be adults. All retained coho were required to have a healed adipose fin clip. Estimates of total catch are not yet available for Willapa Bay.

Escapement and Management Performance

Willapa Bay coho are managed for hatchery production. Escapement to Willapa Bay hatcheries in 2000 numbered 12,900 coho. Estimates of natural spawning escapement for 2000 are not yet available.

Grays Harbor Coho

Inside Harvest

Run size, harvest and escapement data for Grays Harbor coho are presented in Appendix B, Table B-25. The forecasted run size for Grays Harbor wild coho was for 111,173 fish (46,818 wild and 64,355 hatchery). A total of 22,038 coho (wild, hatchery, and net-pen origin) were harvested in net fisheries. This included 16,205 coho in the Quinault Indian Nation fisheries, 5,562 in the non-Indian gillnet fishery, and 271 in the Chehalis tribal fishery.

Recreational harvest estimates are not yet available for 2000. The Chehalis River and its tributaries were open to non-selective coho harvest with a limit of two adult coho, one of which may be wild, through November 15. After November 15, fish without a healed adipose fin clip were required to be released. 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. Natural spawning escapement estimates are not yet available. Initial indications are that the escapement goal of 35,400 fish will be met.

The preliminary estimates of the total return to Grays Harbor hatcheries is 15,500 coho. Net pen reared coho also returned to Grays Harbor in 2000 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-27.

The treaty Indian gillnet fishery targets chinook and coho from early September through mid-November. A total of 16,214 coho were harvested by the gillnet fishery in 2000.

Escapement and Management Performance

Quinault River coho are managed for hatchery production. Escapement estimates for Quinault River coho in 2000 are 10,356 and 7,138 adult hatchery and natural coho, respectively. Hatchery production objectives were achieved for Quinault River coho.

Queets River Coho

Inside Harvest

Historical terminal run size, harvest, and escapement for Queets River coho are presented in Appendix B, Table B-30.

Queets River fisheries were conducted in accordance with a preseason agreement between the Quinault Indian Nation and WDFW, based on preseason abundance forecasts and planned Council ocean fisheries. The treaty Indian gillnet fishery was structured to target returning hatchery coho during September and early October. The total harvest of fall coho by the net fishery was 4,984, comprised primarily of hatchery fish (76%). The non-Indian inriver recreational fishery was closed to retention of unmarked chinook and coho, except in the Salmon River tributary where hatchery stocks predominate.

Escapement and Management Performance

Analysis of spawning escapement survey data for Queets River coho has not yet been completed. No inseason estimates of terminal run size and escapement were available due to the limited fishing schedule established in anticipation of a return well below the lower end of the escapement objective of 5,800 to 14,500 established for this stock. Early indications are that the spawning escapement is stronger than anticipated preseason and that the spawning escapement goal will be attained. Preliminary estimates of spawning escapement are 6,700 wild, 1,400 supplemental, and 4,800 hatchery coho. Since 1998, carcasses from hatchery rack returns have been distributed in two pairs of study streams in the Clearwater River to evaluate potential effects nutrient enhancement on production and survival. Summer fry densities and condition, smolt production, and adult return are being monitored in Christmas (treated)-Miller (untreated) and Hurst (treated)-Shale(untreated) Creeks; these study pairs are comparable in size and habitat quality.

Hoh River Coho

Inside Harvest

Historical terminal run size, harvest, and escapement for Hoh River coho are presented in Appendix B, Table B-33.

The preseason terminal run size for Hoh coho was projected to be 3,323 after planned ocean fisheries under PFMC regulations. Returning adults in 2000 were the results of low freshwater smolt production, but a better than recent average smolt to ocean recruit survival rate of 5.75%. The smolt production estimate was derived from the census of Queets River smolt outmigrants. Both the Queets and Hoh wild parental populations had spawned at levels significantly below their respective escapement goal floors for the recent two cycles.

The tribal terminal fishery was designed to harvest wild coho at a 25.8% rate and was conducted with 6-inch and larger mesh size. The fishery was conducted one day per week in week 36 and 2 days per week from weeks 37 through 39, prior to the normal peak entry timing of wild coho. The fishery continued for one day per week during weeks 40, 41 and 42, two days during week 43, one day during week 44, two days during week 45 and one day each week up to week 48 before the start of the steelhead season. The non-Indian recreational fishery opened below the Oxbow Campground boat ramp with a bag limit of 6 salmon, two of which may be adults. The river between the Oxbow ramp and Morgan's Crossing opened October 16 with the same bag limit. The later opening was timed to protect spawning spring/summer chinook. The tribal steelhead fishery opened with normal 6" and larger mesh beginning in week 49. Significant wild coho catch began occurring in week 41, followed by larger than expected catches in week 43 and the remainder of the season. The tribal harvest consisted of about 1,920 coho, of which approximately 1,700 were wild coho with the balance being marked and unmarked hatchery fish.

Escapement and Management Performance

The coho run has been confirmed to be larger than expected based on spawner ground survey observations. Preliminary escapement data suggest the 2000 coho escapement will be 4000, in the mid to upper half of the

escapement goal range. Flow conditions within the Hoh River Basin were significantly lower than in all other recent years during coho spawning. The distribution of spawners is much heavier toward the upper mainstem areas of the river than the smaller surface tributaries compared to years of normal precipitation and flow.

Quillayute River Coho

Inside Harvest

Historical terminal run size, harvest, and escapements for Quillayute River summer and fall coho are presented in Appendix B, Table B-36.

Recreational and tribal summer fisheries were established through agreement between the Quileute Tribe and WDFW. The summer coho run in the Quillayute River is managed primarily for its hatchery component, which returns to the Quillayute during the last weeks of the spring/summer fishery and the first weeks of the fall fishery. The Quileute tribal fishery was limited to two days per week during the spring/summer fishery due to a concern for wild summer chinook. A total of 1,188 summer coho were harvested in the Quileute tribe's commercial and ceremonial & subsistence fisheries. The non-Indian recreational fishery remained open through the spring/summer period, but required release of all wild (unmarked) coho during the months of July and August, when the summer coho enter the river. No estimate of the 2000 inriver sport fishery catch of summer coho is available.

No formal agreement was reached between the Quileute Tribe and WDFW for the fall management period. The fall coho preseason terminal run size forecasts were 12,799 hatchery and 8,194 wild coho under the ocean fishery regulations. The fall fisheries were constrained by wild coho numbers, as well as a concern for declining chinook returns in recent years. The fall tribal gill net fishery was set at 4.5 days per week during the early weeks (36-39) when summer coho were entering the river. The Quileute Tribe shut down fishing during weeks 45 through 47 to stay above the wild coho escapement floor, and to conserve fall chinook. The total tribal harvest of fall coho was 6,794 of which 4,016 were estimated wild and 2,778 were hatchery. The non-Indian recreational fishery continued through the fall with the normal bag limit of 6 fish, two of which may be adults. No estimate of the 2000 inriver sport fishery catch of fall coho is available.

Escapement and Goal Assessment

The summer coho run in the Quillayute River is managed primarily for the hatchery component. The summer coho hatchery rack return was 3,745 adults, far in excess of the 300 egg take goal. No estimate of natural escapement of summer coho in 2000 is available.

In season catches and post season spawner surveys suggest the run of wild fall coho was greater than the preseason expectation; preliminary information indicates that the escapement was 11,600 adults, well within the range of 6,300 to 15,800 established for this stock. The hatchery fall coho rack return was 13,118 adults, far in excess of the 600 adult egg take goal.

PUGET SOUND COHO STOCKS

Puget Sound coho salmon stocks include natural and hatchery stocks originating from U.S. tributaries to Puget Sound and the eastern Strait of Juan de Fuca (east of Salt Creek). The primary stocks in this group which 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 Puget Sound Salmon Management Plan 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 upon hatchery escapement needs for stocks managed for artificial production. However, 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 2000 ocean fishery management considerations since the needs of Washington coastal and 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-37. The 2000 total Puget Sound commercial catch of coho was 385,600 fish, compared to a catch of 108,200 coho in 1999. Non-Indian harvest was 22,400 coho, compared to a catch of 11,400 coho in 1999. Treaty Indian net and troll fisheries harvested 363,200 coho, compared to a catch of 96,900 coho in 2000.

Historic coho recreational catches in the Puget Sound recreational fishery for the years from 1971 through 1999 are listed in Appendix B, Table B-38.

Escapement and Management Performance

Estimates of 2000 natural spawning escapements are unavailable at this time. Historic hatchery and natural run component escapements and net catches for each Puget Sound region of origin are presented in Appendix B, Table B-40.

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

COASTWIDE GOAL ASSESSMENT SUMMARY

A summary of 2000 performance for coho salmon by stock in relation to the Council's conservation objectives (Amendment 14) is presented in Table III-4.

TABLE III-4. Performance of coho salmon stocks in relation to 2000 conservation objectives (preliminary data). (Page 1 of 1)

System and Stock	2000 FMP Conservation Objective	Achievement
Puget Sound Coho	Natural spawner escapement objectives as provided below and in state-tribal agreements; meet hatchery egg-take goals; and meet treaty Indian allocation requirements and inside non-Indian fishery needs for 6 management units.	Data not available for 2000 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.
Eastern Strait of Juan de Fuca	3,130 natural adult spawners	Preseason expected ocean escapement of 11,200 adult fish for eastern and western Strait of Juan de Fuca combined.
Hood Canal	21,500 natural adult spawners	Preseason expected ocean escapement of 50,400 adult fish.
Skagit	30,000 natural adult spawners	Preseason expected ocean escapement of 24,700 adult fish.
Stillaguamish	17,000 natural adult spawners	Preseason expected ocean escapement of 15,000 adult fish.
Snohomish	70,000 natural adult spawners	Preseason expected ocean escapement of 45,000 adult fish.
<hr/>		
Washington Coast Coho	Natural spawner escapement objectives as provided below and in state-tribal agreements; meet hatchery egg-take goals; and meet treaty Indian obligations.	Hatchery egg-take goals achieved. No information available on catch allocation.
Western Strait of Juan De Fuca	9,720 natural spawners	Postseason estimate not available. Preseason expectation for an ocean escapement of 11,200 adult fish for eastern and western Strait of Juan de Fuca combined.
Quillayute Fall	6,300 to 15,800 natural adult spawners	Postseason estimate not available, but expected to be in the upper end of the range. Preseason expectation for an ocean escapement of 12,800 adult fish.
Hoh	2,000 to 5,000 natural adult spawners	4,000 natural adult spawners
Queets	5,800 to 14,500 natural adult spawners	NA
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 50,300 adult fish.
<hr/>		
OPI Area Coho (Columbia River and coastal stocks south of Leadbetter Point)	Natural spawner escapement objectives as provided below; meet hatchery egg-take goals; and meet treaty Indian obligations.	Hatchery egg-take goals achieved. No information available on catch allocation.
OCN (Threatened)	Combined marine and freshwater exploitation rate $\leq 15\%$ for the 4 stock components. Council adopted a projected exploitation rate of 8.2 with an expected 48,900 adult spawners (SRS of rivers and lakes from the Coquille River north).	Postseason exploitation rate estimate not available. Preliminary OCN escapement of 62,700 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 $\leq 13\%$ as indicated by R/K hatchery stocks. Council adopted a projected exploitation rate on R/K hatchery coho of 6.0%.	No directed coho fisheries or retention of coho south of Humbug Mt. Postseason exploitation estimate not available.

CHAPTER IV

SOCIOECONOMIC ASSESSMENT OF THE 2000 OCEAN SALMON FISHERIES

Total 2000 exvessel value for the Council-managed non-Indian commercial salmon fishery was \$12.2 million. In real (inflation-adjusted) dollars, exvessel value was 30% above its 1999 level but was 68% below the 1976 through 1999 average. The number of vessel-based ocean salmon sport angler trips taken on the West Coast in 2000 (332,200 angler trips) increased 36% from 1999 but was 41% less than the 1976 through 1999 average. The total state level income impact associated with the recreational and commercial ocean salmon fisheries for all three states combined was \$55.8 million, up 86% from the 1998 historic low of \$29.2 million, but 54% below the 1976-1999 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 treaty 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 Pacific Salmon Treaty Act.

Figures IV-1 and IV-2 show the catches which have resulted from the Council's management of the ocean commercial and recreational fisheries (all tables and figures are at the end of the chapter). The figures show that, in general, the recreational fishery has tended to have a more stable harvest than the commercial fishery (in both absolute and relative terms). 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 in recent years, the effects of which are amplified when specific geographic areas are considered.

Fisheries in different areas will impact a particular stock at different rates, therefore, decisions on allowable harvests for a particular stock often have implicit allocation effects on the geographic distribution of the salmon harvest. Seasons are often shaped to provide needed stock protection, while balancing the often conflicting objectives of maximizing ocean harvest and fairly distributing the conservation burdens along the coast. The following briefly describes some of the major stock conservation concerns that have magnified the conflict between these objectives in recent years and presented the Council with some of its greatest allocational challenges.

Beginning in 1996, recreational seasons south of Point Arena California were significantly restricted to reduce impacts on Sacramento River winter chinook. Limiting impacts on Sacramento River winter chinook was also the primary focus of season shaping for the 1999 and 2000 commercial fisheries south of Point Arena. In the commercial fishery, a size limit increase from 26" to 27" was implemented south of Point Arena after June 30 to protect Sacramento River winter chinook.

Commercial and recreational fisheries in the Klamath Management Zone (KMZ) area have been restricted, because they have a high impact rate on Klamath River fall chinook--a stock which has been depressed for a number of years. In 1996, KMZ fisheries were allowed to expand to a small degree: there was a commercial fishery in the Crescent City and Eureka areas for the first time since 1991, and the first commercial Indian fishery in the river since 1989. The 1997 and 1998 ocean fisheries were more restrictive than in 1996, and no inriver Indian commercial fisheries were allowed. However, there was another small

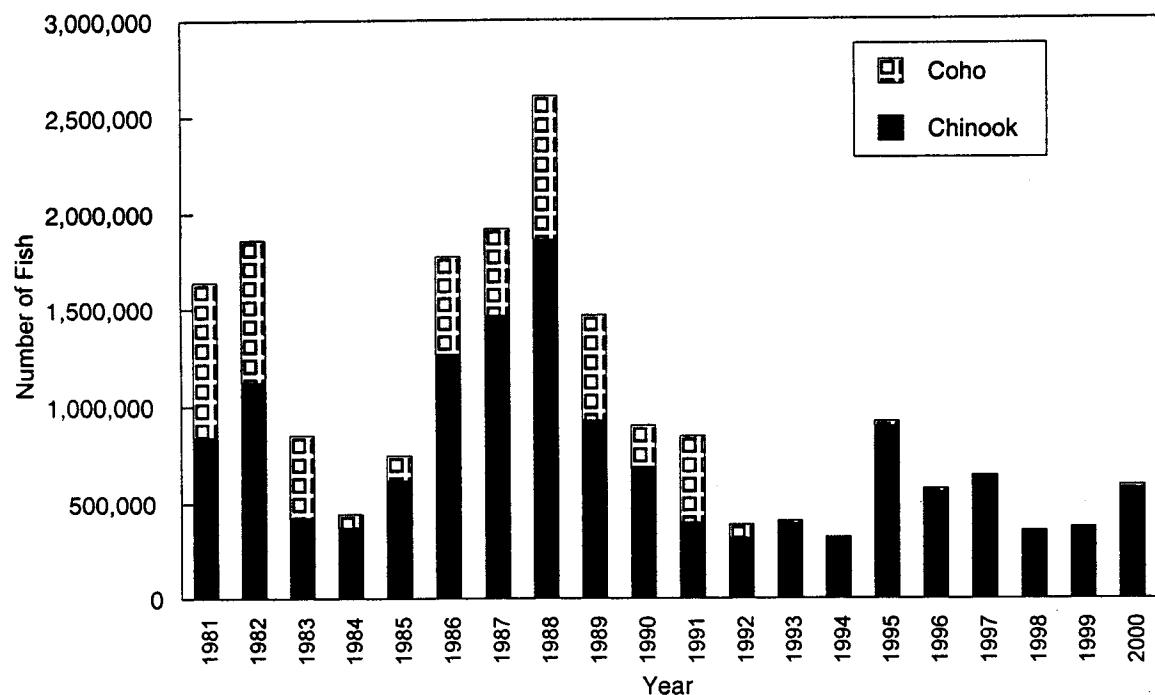


FIGURE IV-1. West Coast non-Indian ocean commercial chinook and coho harvest.

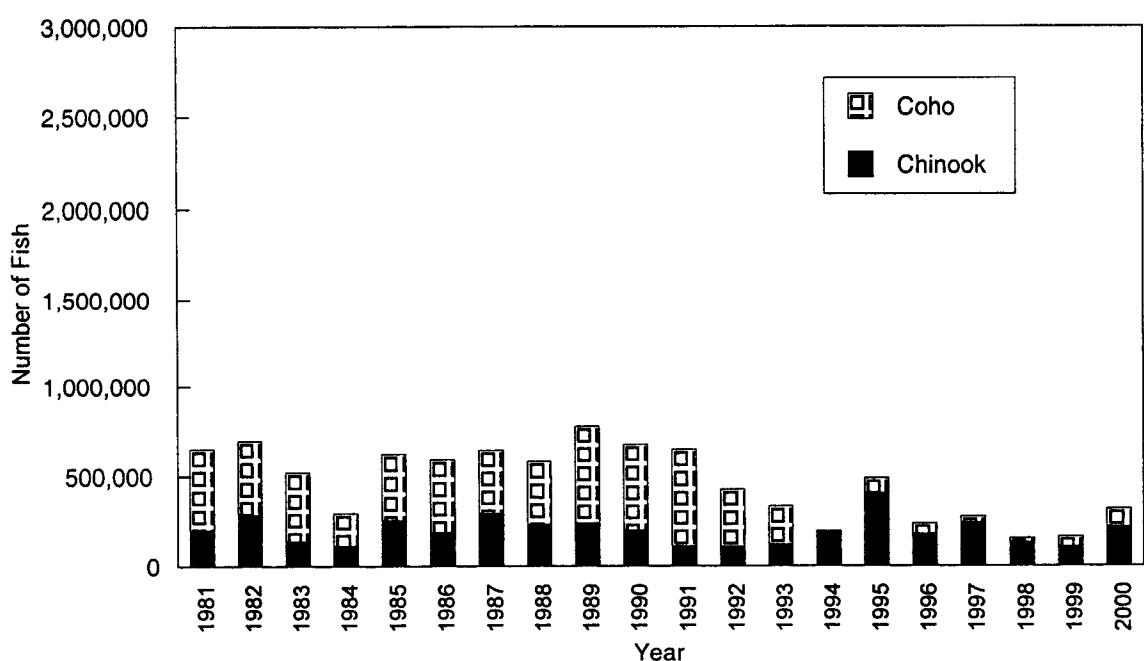


FIGURE IV-2. West Coast ocean recreational chinook and coho harvest.

expansion in 1999 and 2000. This allowed managers to increase fishing opportunities, including the provision of an Indian inriver commercial fishery. Recreational seasons targeting chinook north of Point Arena and within the KMZ have been further shaped in some years to protect coho.

Beginning in 1993 for the commercial fishery and 1994 for the recreational fishery, coho retention was prohibited south of Cape Falcon in order to protect Oregon coastal natural coho. This prohibition later served to also protect California coho. In July 1999 and 2000, a limited fishery selective for hatchery coho was allowed off the central Oregon coast (Cape Falcon to Humbug Mountain). The opportunity to retain hatchery coho was created by mass-marking most hatchery coho fish with adipose fin clips. The restriction on coho retention in the mid-1990s had a devastating impact on the recreational fishery off central Oregon and a somewhat less but still significant impact on the commercial fishery in the same area, both of which historically depended on coho harvest. To date, the coho restrictions have had little affect on California fisheries south of Point Arena, which depend primarily on chinook and have relatively minor coho impacts. The July 1999 and 2000 selective recreational fishery allowed for a significant increase in the recreational effort off of the central Oregon coast, however, even with the increase, effort was far below historic levels.

In 1999, recreational regulations selective for hatchery-marked coho north of Cape Falcon provided some of the longest seasons in the last 20 years. However, the fishery was not open during peak participation periods, such as the July 4 weekend and recreational effort levels were not sufficient to take the entire available quota. In 2000, the season started earlier in July, quotas were decreased, and participation rates increased. Together these factors reduced average season length for the area by roughly 50%, as compared to 1999, and seasons were closed by mid August. Hatchery stock selective fishing opportunities were provided in the commercial fisheries for the first time in 2000. A number of coastal and Puget Sound coho stocks constrained coho ocean harvest and Columbia River tules and lower river wild chinook constrained the ocean chinook harvest (Table C-8).

Success in achievement of stock management goals and objectives is evaluated in the first three chapters of this review.

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.

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

Available information on chinook and coho exvessel price and value by species, compiled from state fish receiving tickets and expressed both in nominal terms and real (inflation adjusted) 2000 dollars, is presented in Tables IV-2, IV-3, and IV-4. Data on pink salmon is 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 (Table D-22). Weight of landings by species and port for chinook and coho is presented in Tables IV-6, IV-7 and IV-8. These tables and the following discussion refer to the non-Indian commercial fishery in Council management areas and associated state territorial ocean area waters.

Total 2000 exvessel value for the Council-managed non-Indian commercial fishery was \$12.2 million. In real (inflation-adjusted) dollars, exvessel value was 30% above its 1999 level but was 68% below the 1976 through 1999 average.

For the fourth year in a row, there were some commercial ocean salmon fisheries for all major port areas of the West Coast, though opportunities were minimal in the KMZ and in the Fort Bragg area. In 1996, there

TABLE IV-1. Average monthly **exvessel** troll salmon price in dollars per dressed pound for California, Oregon, and Washington in 2000. (Page 1 of 1)

Species/Grade	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
CALIFORNIA									
Chinook ^{a/}	-	1.75	1.94	2.22	2.56	2.39	-	-	1.96
Coho	-	-	-	-	-	-	-	-	-
OREGON									
Chinook									
Large (>11 Pounds)	3.24	2.40	2.38	2.14	2.04	2.04	2.10	2.76	2.19
Medium (7-11 Pounds)	2.95	2.11	2.11	1.87	1.71	1.62	1.84	1.77	1.76
Small (<7 Pounds)	2.70	2.02	2.01	1.81	1.64	1.45	1.55	1.47	1.61
Ungraded Chinook	3.30	2.58	2.59	2.32	2.17	1.96	2.26	3.18	2.26
Weighted Average	3.17	2.35	2.35	2.08	1.93	1.76	2.08	2.61	2.02
Mixed Coho	-	-	-	1.06	1.02	-	-	-	-
WASHINGTON^{b/}									
Chinook									
Large (>11 Pounds)	-	1.65	1.57	-	2.15	2.47	-	-	1.70
Medium (8-11 Pounds)	-	1.81	1.80	-	2.01	2.50	-	-	1.79
Small (<8 Pounds)	-	1.04	1.00	-	1.89	-	-	-	1.53
Ungraded Chinook	-	1.49	1.65	-	1.83	-	-	-	1.70
Weighted Average	-	1.71	1.61	-	2.08	2.48	-	-	1.71
Mixed Coho	-	-	-	-	1.10	1.08	-	-	1.10

a/ Chinook salmon are typically sold in two and sometimes three 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).^{a/} (Page 1 of 1)

Year	Chinook				Coho				Total ^{b/}	
	Nominal Value (thousands of dollars)	Real ^{c/} Value (thousands of dollars)	Nominal Price Per Pound (dollars)	Real ^{c/} Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real ^{c/} Value (thousands of dollars)	Nominal Price Per Pound (dollars)	Real ^{c/} Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real ^{c/} Value (thousands of dollars)
1979	17,356	35,046	2.53	5.11	2,303	4,559	2.19	4.34	19,659	39,697
1980	12,741	23,629	2.27	4.21	408	742	1.36	2.47	13,149	24,386
1981	13,417	22,771	2.25	3.82	905	1,506	1.94	3.23	14,322	24,307
1982	18,754	30,006	2.55	4.08	735	1,153	1.36	2.13	19,489	31,182
1983	4,290	6,593	2.09	3.21	318	479	1.25	1.88	4,608	7,082
1984	6,875	10,189	2.67	3.96	687	998	1.99	2.89	7,562	11,208
1985	11,390	16,368	2.56	3.68	125	176	1.57	2.21	11,515	16,548
1986	14,874	20,920	2.01	2.83	238	328	1.18	1.63	15,112	21,255
1987	25,130	34,355	2.78	3.80	493	661	2.00	2.68	25,623	35,029
1988	41,221	54,518	2.86	3.78	706	915	2.21	2.87	41,927	55,452
1989	13,095	16,677	2.39	3.04	390	487	1.69	2.11	13,485	17,173
1990	11,434	14,013	2.77	3.39	622	747	1.98	2.38	12,056	14,775
1991	8,351	9,901	2.58	3.06	696	809	1.52	1.77	9,047	10,726
1992	4,487	5,207	2.74	3.18	18	20	1.63	1.85	4,505	5,228
1993	5,707	6,450	2.25	2.54	-	-	-	-	5,707	6,450
1994	6,437	7,125	2.07	2.29	-	-	-	-	6,437	7,125
1995	11,693	12,672	1.76	1.91	-	-	-	-	11,693	12,672
1996	5,984	6,368	1.44	1.53	-	-	-	-	5,984	6,368
1997	7,288	7,607	1.38	1.44	-	-	-	-	7,288	7,607
1998	3,060	3,155	1.66	1.71	-	-	-	-	3,060	3,155
1999 ^{d/}	7,429	7,546	1.93	1.96	-	-	-	-	7,429	7,546
2000 ^{d/}	8,837	8,837	1.96	1.96	-	-	-	-	8,837	8,837

a/ These exvessel values do not include postseason settlement payments that a portion of the fishers may have received from buyers, and therefore may underestimate the true payments received by fishers for their landings. Beginning about 1999 and 2000, these postseason settlements are believed to have grown to significant proportions for the California fishery. For 2000, the exvessel value reported here is believed to be under reported by roughly 5% to 10%.

b/ Does not include pink landings.

c/ Expressed in 2000 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	Chinook			Coho			Total		
	Nominal Value (thousands of dollars)	Real Value ^{b/} (thousands of dollars)	Nominal Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real Value ^{b/} (thousands of dollars)	Nominal Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real Value ^{b/} (thousands of dollars)	Nominal Value (thousands of dollars)
1971-1975	2,036	6,059	0.89	2.69	3,658	11,151	0.64	1.92	5,694
1976-1980	5,366	11,419	2.16	4.67	6,407	14,214	1.51	3.25	11,773
1981	4,039	6,855	2.57	4.36	5,534	9,392	1.66	2.82	9,573
1982	6,094	9,750	2.59	4.14	3,801	6,082	1.40	2.24	9,895
1983	1,244	1,912	1.90	2.92	1,052	1,617	0.96	1.48	2,296
1984	1,477	2,205	2.74	4.09	118	183	1.66	2.58	1,595
1985	5,045	7,250	2.48	3.56	729	1,048	1.51	2.17	5,774
1986	5,976	8,405	1.77	2.49	1,978	2,782	1.04	1.46	7,954
1987	13,467	18,411	2.60	3.55	3,296	4,506	1.72	2.35	16,763
1988	13,940	18,437	3.19	4.22	7,596	10,046	2.28	3.02	21,536
1989	7,894	10,053	2.23	2.84	2,131	2,714	1.07	1.36	10,025
1990	5,627	6,896	2.58	3.16	1,014	1,243	1.60	1.96	8,139
1991	1,721	2,040	2.47	2.93	1,399	1,659	0.99	1.17	3,120
1992	2,490	2,890	2.46	2.85	222	258	1.08	1.25	2,712
1993	1,661	1,877	2.18	2.46	10	11	1.13	1.28	1,671
1994	690	764	2.40	2.66	-	-	-	-	690
1995	3,294	3,570	1.70	1.84	-	-	-	-	3,294
1996	3,007	3,200	1.56	1.66	-	-	-	-	3,200
1997	2,469	2,577	1.60	1.67	-	-	-	-	2,469
1998	2,297	2,368	1.64	1.69	-	-	-	-	2,297
1999 ^{c/}	1,400	1,422	1.94	1.97	1	1	1.03	1.05	1,401
2000 ^{c/}	2,988	2,988	2.02	2.02	75	75	1.06	1.06	3,064

a/ Does not include pink landings.

b/ Expressed in 2000 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).^{a/} (Page 1 of 1)

Year or Average	Chinook				Coho				Total	
	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real Value (thousands of dollars)	Nominal Price Per Pound (dollars)	Real Price Per Pound (dollars)	Nominal Value (thousands of dollars)	Real Value ^{c/} (thousands of dollars)
1971-1975	2,714	8,181	0.89	2.70	3,060	9,248	0.66	2.01	5,775	17,429
1976-1980	5,313	11,710	2.39	5.11	6,086	13,383	1.67	3.58	11,399	25,093
1981	3,279	5,565	2.66	4.51	2,642	4,484	1.52	2.58	5,921	10,049
1982	4,246	6,794	2.57	4.11	2,484	3,974	1.34	2.14	6,730	10,768
1983	1,152	1,771	1.72	2.64	313	481	0.93	1.43	1,465	2,252
1984	255	378	2.78	4.12	155	230	1.48	2.19	410	608
1985	837	1,203	2.57	3.69	764	1,098	1.32	1.90	1,601	2,301
1986	808	1,136	2.35	3.31	367	516	1.16	1.63	1,175	1,653
1987	1,606	2,195	2.97	4.06	354 ^{d/}	484	1.67	2.28	1,960	2,679
1988	2,289	3,027	2.95	3.90	48 ^{d/}	63	2.45	3.24	2,337	3,091
1989	955	1,216	2.22	2.84	275	350	1.31	1.67	1,230	1,566
1990	890	1,091	2.57	3.15	758	929	1.52	1.86	1,648	2,020
1991	783	928	2.54	3.01	343	407	1.13	1.34	1,126	1,335
1992	1,200	1,393	2.41	2.80	99	115	1.33	1.54	1,299	1,507
1993	728	823	2.21	2.49	67	76	1.02	1.15	795	898
1994	e/ ^{e/}	e/ ^{e/}	e/ ^{e/}	e/ ^{e/}	-	-	-	-	e/ ^{e/}	e/ ^{e/}
1995	e/ ^{e/}	e/ ^{e/}	e/ ^{e/}	e/ ^{e/}	91	99	0.83	0.90	91	99
1996	e/ ^{e/}	e/ ^{e/}	e/ ^{e/}	e/ ^{e/}	59	62	0.86	0.92	59	89
1997	125	130	1.55	1.62	-	0	-	0.00	125	130
1998	123	127	1.51	1.56	-	0	-	0.00	123	127
1999	377	383	1.90	1.93	19	19	0.88	0.89	396	402
2000	224	224	1.71	1.71	34	34	1.09	1.09	258	258

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 landings.

c/ Expressed in 2000 dollars.

d/ There was no legal coho fishery in 1988. This value is for landings of fish caught south of Cape Falcon and seizures of illegal fish. Chinook were caught off Oregon and landed in Washington. Value information is not provided in order to preserve confidentiality.

e/

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	Oregon			Washington			Total		
	Nominal Value (thousands of dollars)	Real Value ^{a/} (thousands of dollars)	Nominal Price Per Pound ^{a/} (dollars)	Real Price Per Pound ^{a/} (dollars)	Nominal Value (thousands of dollars)	Real Value ^{a/} (thousands of dollars)	Nominal Price Per Pound ^{a/} (dollars)	Real Price Per Pound ^{a/} (dollars)	Nominal Value (thousands of dollars)
1977	244	570	0.64	1.49	836	1,950	0.53	1.24	1,080
1978	b/	b/	1.40	3.06	13	27	0.82	1.79	13
1979	91	183	0.85	1.72	1,564	3,158	0.54	1.09	1,655
1980	1	3	0.87	1.61	7	14	0.91	1.70	9
1981	215	365	0.80	1.36	522	885	0.50	0.85	737
1982	b/	b/	0.75	1.20	1	1	0.56	0.89	1
1983	b/	b/	0.74	1.14	97	150	0.28	0.43	97
1984	-	-	-	-	b/	b/	0.64	0.94	0
1985	172	247	0.66	0.95	242	347	0.46	0.66	414
1986	1	1	0.56	0.78	b/	b/	0.21	0.29	1
1987	69	95	0.79	1.08	7	10	0.62	0.85	77
1988	2	2	1.64	2.17	b/	b/	0.88	1.17	2
1989	13	17	0.74	0.94	107	136	0.70	0.89	120
1990	1	1	1.28	1.57	b/	b/	0.73	0.90	1
1991	4	5	0.53	0.63	79	93	0.47	0.56	83
1992	b/	b/	1.02	1.19	b/	b/	0.54	0.62	b/
1993	b/	b/	0.62	0.70	5	6	0.54	0.61	5
1994	-	-	-	-	-	-	-	-	-
1995	b/	b/	0.60	0.65	30	33	0.26	0.28	30
1996	-	-	-	-	b/	b/	0.90	0.96	b/
1997	b/	b/	0.56	0.59	b/	b/	0.20	0.21	b/
1998	-	-	-	-	b/	b/	-	0.93	b/
1999	b/	b/	0.67	0.68	b/	b/	0.38	0.39	b/
2000 ^{c/}	b/	b/	1	1.40	-	-	-	-	b/

a/ Expressed in 2000 dollars.

b/ Fewer than 500.

c/ Preliminary.

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

Year or Average	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	State Total
CHINOOK (thousands of dressed pounds)						
1976-1980	393	1,403	1,449	1,733	889	5,867
1981-1985	350	428	1,128	1,806	742	4,454
1986	151	457	2,147	2,751	1,891	7,397
1987	313	656	3,115	3,874	1,090	9,047
1988	188	557	4,201	7,177	2,307	14,431
1989	103	220	1,359	2,545	1,263	5,490
1990	20	133	671	1,892	1,407	4,122
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 ^{c/}	2	18	104	2,252	2,132	4,509
COHO (thousands of dressed pounds)						
1976-1980	360	391	277	109	48	1,184
1981-1985	89	104	89	54	9	345
1986	30	30	103	30	8	202
1987	32	67	140	7	1	246
1988	19	78	174	46	2	320
1989	29	24	137	38	3	231
1990	-	15	125	142	32	314
1991	1	19	55	270	115	459
1992	-	b/	b/	10	1	11
1993	-	-	-	-	-	-
1994	-	-	-	-	-	-
1995	-	-	-	-	-	-
1996	-	-	-	-	-	-
1997	-	-	-	-	-	-
1998	-	-	-	-	-	-
1999	-	-	-	-	-	-
2000	-	-	-	-	-	-

a/ The major port areas listed include the following ports: Crescent City includes only Crescent City; Eureka also includes Trinidad and Humboldt Bay locations; Fort Bragg also includes Shelter Cove, Noyo Harbor, Mendocino, and Pt. Arena; San Francisco also includes Bodega Bay, San Francisco Bay, and Half Moon Bay; Monterey also includes Santa Cruz, Moss Landing, Monterey, Morro Bay, and Santa Barbara.

b/ Fewer than 500 pounds.

c/ Preliminary.

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

Year or Average	Astoria	Tillamook	Newport	Coos Bay	Brookings	State Total
CHINOOK (thousands of dressed pounds)						
1976-1980	171	118	530	908	700	2,427
1981-1985	92	45	271	638	386	1,432
1986	61	119	751	1,990	449	3,370
1987	83	419	997	2,997	685	5,182
1988	37	341	1,231	2,198	580	4,387
1989	50	302	777	1,945	449	3,532
1990	28	139	388	1,452	174	2,181
1991	9	110	267	292	18	695
1992	17	108	676	206	7	1,013
1993	b/	86	460	182	28	761
1994		29	165	45	47	287
1995	6	96	1,330	453	55	1,941
1996	21	125	1,219	417	142	1,926
1997	3	32	1,053	381	73	1,542
1998	b/	66	953	326	52	1,398
1999	13	32	194	403	80	721
2000 ^{c/}	89	97	532	648	114	1,481
COHO (thousands of dressed pounds)						
1976-1980	385	660	1,190	1,661	357	4,252
1981-1985	133	293	451	550	111	1,537
1986	109	418	885	393	101	1,905
1987	57	380	517	894	67	1,916
1988	17	766	1,375	1,087	91	3,336
1989	115	530	615	672	63	1,996
1990	69	272	73	197	24	634
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 ^{c/}	71	-	-	-	-	71

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/ Less than 500.

c/ Preliminary.

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

Year	Neah Bay	La Push	Westport	Ilwaco	Coastal Community Total	Puget Sound	State Total
CHINOOK (thousands of dressed pounds)							
1976-1980	288	421	919	261	1,889	426	1,543
1981-1985	88	32	370	74	564	124	689
1986	50	21	141	75	286	55	342
1987	42	20	367	65	494	51	545
1988	94	30	250	57	430	348	778
1989	20	2	277	28	327	124	451
1990	149	15	135	17	315	34	349
1991	128	7	127	14	276	32	308
1992	160	46	232	10	447	58	507
1993	122	35	132	2	291	41	332
1994 ^{d/}	-	-	-	-	-	7	7
1995 ^{d/}	-	-	3	-	3	12	15
1996 ^{d/}	-	-	4	1	5	13	19
1997	20	d/	45	0	66	15	80
1998	30	0	34	0	64	18	82
1999	62	2	66	3	134	65	199
2000	85	1	38	8	131	e/	131
COHO (thousands of dressed pounds)							
1976-1980	600	786	1,066	678	3,130	496	3,626
1981-1985	133	63	277	142	616	128	744
1986	58	30	118	72	279	38	317
1987	9	15	135	47	206	7	213
1988	1	0	2	8	11	9	20
1989	121	2	19	79	221	24	245
1990	159	46	214	61	480	20	501
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

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.

were commercial fisheries coastwide with the exception of the area around Ilwaco/Astoria, and in 1995 there were no commercial fisheries in ocean areas around Westport, Ilwaco/Astoria, Crescent City, and Eureka. In 1994, there were no non-Indian ocean commercial fisheries north of Cape Falcon and none in the California portion of the KMZ (Crescent City and Eureka). After being shut down to coho retention coastwide in 1997 and 1998, there were some non-Indian commercial ocean coho retention opportunities north of Cape Falcon in 1999 and 2000. In 2000, the opportunities came during hatchery selective fisheries in the months of August and September in the area south of the Queets River (off of Westport, and the Columbia River).

The 2000 exvessel value of the California commercial ocean salmon catch (\$8.8 million) was 17% above the 1999 value but still 52% below the 1976 through 1999 average in real dollars. A significant and increasing portion of the California harvest is believed to be subject to post season settlements. Under a post-season settlement, fishers may be paid an additional amount for their fish after the season ends. Value accruing to the fishery from post season settlements is not reflected on the fish receiving tickets from which estimates of exvessel value are derived. As a result, for 2000, the exvessel value for California as reported here is probably under reported by roughly 5% to 10%. The 2000 exvessel value for the Oregon commercial catch (\$3.1 million) was up 115% from 1999 and but still 74% below the 1976 through 1999 average, in real dollars. The 2000 exvessel value for the Washington non-Indian ocean commercial catch (\$258,000) was 36% below the 1999 value and 96% below the 1976 through 1999 average, in real dollars.

In 2000, average West Coast ocean harvest chinook price per pound increased by one cent over the 1999 price (to \$1.97 per pound), the third year in a row of increasing average price after 7 years in a row of declining prices (Figure IV-3). If an estimate of post-season settlement payments for some California fishers is included, the average 2000 price would be 5% to 10% higher.

Coastwide, the non-Indian chinook harvest increased by 55% in terms of number of fish compared to 1999 (Figure IV-1). This increase in catch was counteracted by a 17% decrease in average chinook weights (Tables D-1, D-2, and D-3) and the addition of coho retention opportunities in northern Washington. The 2000 exvessel values were in line with values generally observed in the 1990s (Figure IV-4). About 72% of the coastwide chinook harvest (by weight) was taken in California, from the San Francisco area south, as compared to about 80% in 1999 and 54% in 1998 (Table IV-6, IV-7 and IV-8).

Ocean Commercial Salmon Harvesters

Coastwide, 1,173 vessels participated in the 2000 commercial salmon fishery, up 12% from 1999, and about 78% below the average number of vessels participating from 1986 through 1990. The active fleet in California increased by 59 vessels (9%), the active fleet in Oregon increased by 71 vessels (22%) and the active fleet in Washington decreased by 8 vessels (14%, all comparisons to 1999 (Tables D-4, D-5, and D-6; note: the tables are for each state, there may be a small amount of double counting where vessels participated in more than one state). Despite the increase in the number of active vessels, the number of salmon limited entry permits issued decreased by 186 (6%), to 2,937 permits. Landings were made on 40% of all permits in 2000, up from 34% in 1999. During the first 8 years in which there was a moratorium on the issuance of salmon permits in all three West Coast states (1982 through 1990) there was an average of 8,655 permits of which an average of 5,984 (69%) were used on an annual basis.

In 2000, average per vessel exvessel value increased 16% as compared to 1999 (adjusted for inflation), to approximately \$10,400 per vessel. Per vessel, average exvessel values increased by 8% in California and 77% in Oregon while decreasing by 25% in Washington, as compared to 1999. 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 any change in the average revenues of those remaining in the fishery from one year to the next.

Additional historic 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.

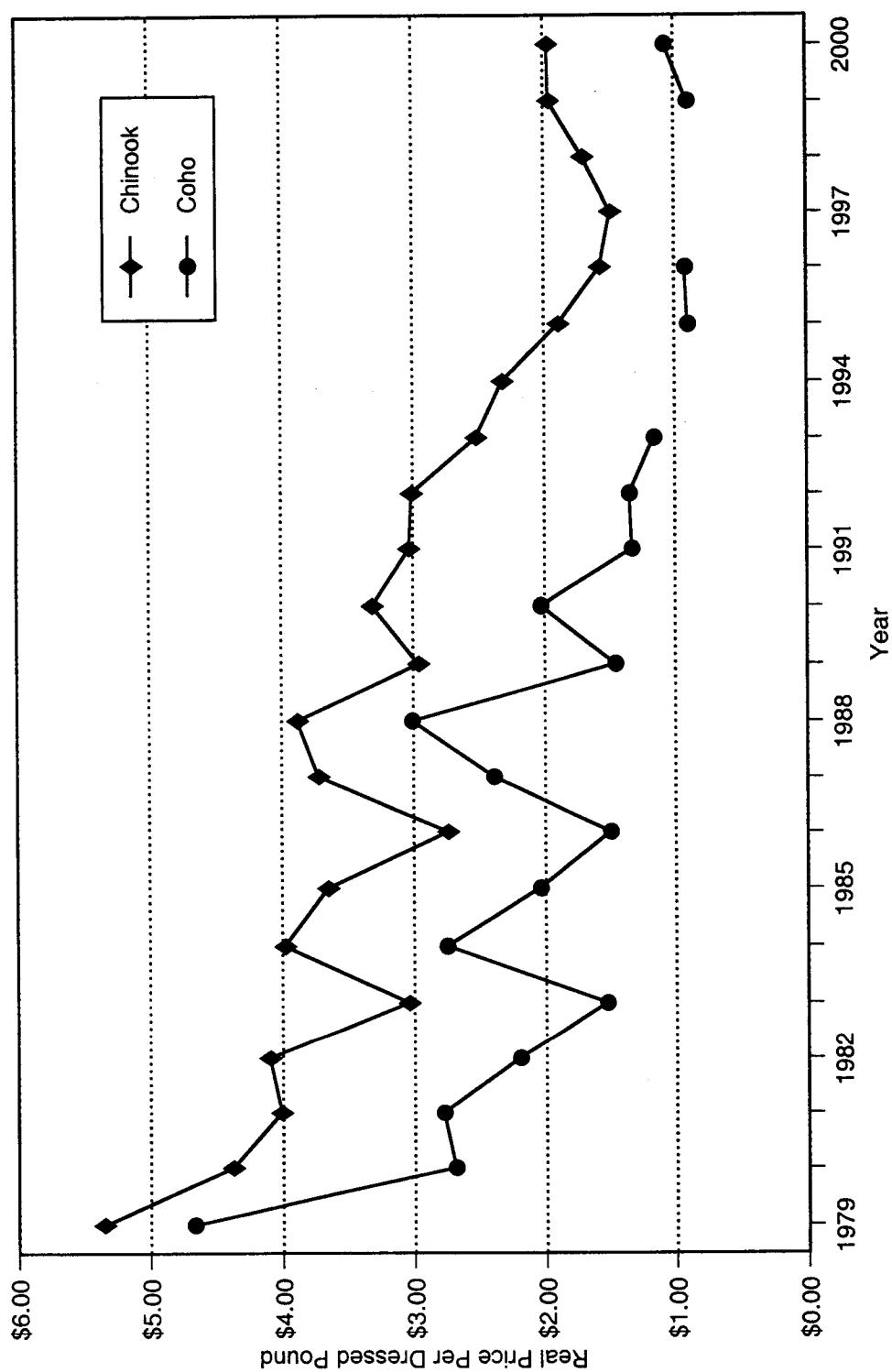


FIGURE IV-3. West Coast non-Indian ocean commercial exvessel salmon annual price trends.

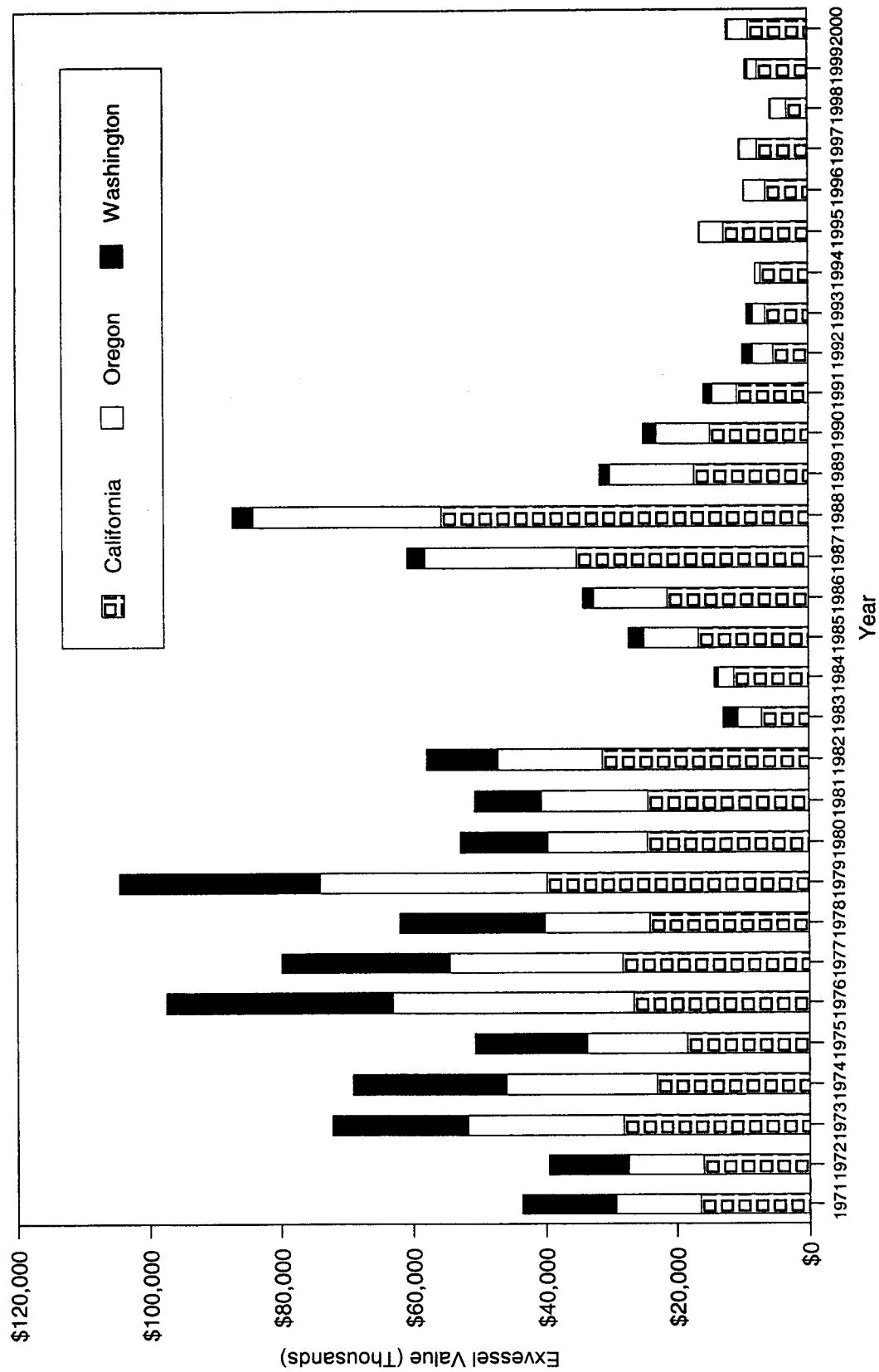


FIGURE IV-4. Exvessel value of ocean commercial chinook and coho landings by state of landing (2000 dollars).

West Coast Treaty Indian Commercial Ocean Fishery

Treaty Indian commercial ocean fisheries off Washington are allocated a share of the total ocean salmon harvest. 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 7,800 chinook (72,000 pounds) and 22,200 coho (110,000 pounds) in 2000, compared to 27,700 chinook (224,000 pounds) and 33,300 coho (167,000 pounds) in 1999. The real (inflation adjusted) exvessel value for 1999 chinook and coho landings was \$305,000 (PacFIN annual vessel summary files). The preliminary value for the year 2000 is \$107,000 (PacFIN annual vessel summary files).

Columbia River Commercial Fishery

Harvest in the ocean salmon fisheries impact inriver fisheries by their effects on the combined treaty Indian and non-Indian amount of fish available for inside 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 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 fall chinook tules and chums the lowest.

The total 2000 exvessel value for commercial salmon harvested in the Columbia River was \$1.7 million, over 36% above the 1999 level. The total 2000 exvessel value for non-Indian commercial salmon harvested in the Columbia River was \$1.2 million. This value is 48% above the 1999 level but was still 78% below the value of the 1987 through 1996 average harvest. The total 2000 exvessel value for treaty Indian salmon harvested in the Columbia River was \$470,000. This value is 13% above the 1999 value but 79% below the value of the 1987 through 1996 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, but estimates of the pounds and value of such sales are not included in Table IV-9. The volume of sales to the public is reported to have increased substantially in recent years, although 2000 sales were substantially lower than 1999.

Other Inside Commercial Fisheries

Puget Sound and Washington Coastal Inside Fisheries

Information on the 2000 values for Puget Sound and Washington coastal inside fisheries is incomplete. According to PacFIN data, the 1981 through 1999 real (inflation adjusted) average value for all salmon species taken in the commercial non-Indian fisheries in Puget Sound and Washington coastal inside fisheries (excluding the Columbia River) was \$19.1 million. Of this, an average of \$4.9 million was for chinook and coho. For 1999, the total real exvessel values for the commercial non-Indian fisheries in these areas were \$0.8 million for all salmon species and \$0.3 million for chinook and coho.

The 1981 through 1999 real adjusted average value for all salmon species taken in the commercial treaty Indian fisheries in these areas was \$22.4 million. Of this, an average of \$8.0 million was for chinook and coho. For 1999, the total real exvessel values for the commercial non-Indian fisheries in these areas were \$3.1 million for all salmon species and \$2.0 million for chinook and coho.

Though data for 2000 is incomplete, year 2000 total exvessel values in these areas appear to be substantially above 1999 levels.

Klamath River Fisheries

From 1987 through 1989, Yurok and Hoopa Valley Reservation commercial Indian gillnet fisheries in the Klamath River averaged about 27,400 fall chinook a year. Since 1989, there have been commercial Indian gillnet fisheries in the Klamath River only in 1996, 1999, and 2000. The 1996 harvest was 40,147 fall chinook, the 1999 harvest was 2,077 fall chinook and the 2000 harvest was 4,922 fall chinook. The 1989 harvest of 27,504 chinook was sold for \$852,000 (unadjusted for inflation, \$1.1 million adjusted to 2000 dollars) and had

TABLE IV-9. Exvessel values (expressed in 2000 dollars) of inriver commercial harvest of Columbia River salmon. a/ (Page 1 of 1)

Fishery	Species	Average Price Per Landed Pound (dollars)				Exvessel Value (thousands of dollars)				Pounds (thousands)						
		1987-1996	1997	1998	1999	2000 ^{c/}	1987-1996	1997	1998	1999	2000 ^{c/}	1987-1996	1997	1998	1999	2000 ^{c/}
OREGON																
Non-Indian ^{d/}	Chinook	3.83	2.66	2.65	2.85	2.70	451	69	94	81	229	111	26	35	28	85
Gillnet ^{e/}	Spring	1.35	0.81	1.00	1.25	1.09	2,260	59	31	89	108	1,136	73	31	72	100
	Fall ^{e/}															
Tulies	0.42	0.20	0.24	0.19	0.19	0.19	130	14	5	3	3	199	70	22	17	16
Coho	1.32	0.77	0.68	0.85	0.53	1.246	115	131 ^{f/}	400	506	759	149	193	469	949	
Chum	0.43	0.26	0.20	0.23	0.30	1 ^{g/}	0	0 ^{f/}	1 ^{f/}	1 ^{f/}	2 ^{h/}	0	0 ^{f/}	1 ^{f/}	4	
TOTAL						4,088	258	262	573	847	2,207	318	282	586	1,154	
WASHINGTON^{g/}																
Treaty Indian	Chinook	4.18	0.00	0.00	0.00	0.00	2	0	0	0	2	15	61	0	0	1
All Gears	Spring	1.29	0.68	0.81	0.85	1.24	941	45	40	65	97	540	66	50	76	117
	Fall ^{e/}															
Tulies	0.34	0.17	0.15	0.10	1.50	22	12	4	5	5	86	70	23	51	49	
Coho	0.93	0.26	0.21	0.72	3.48	7 ^{f/}	57	44	73	109	633	137	1	4	8	
TOTAL						973	57	44	73	109	633	137	74	131	175	
Columbia River Total																
Treaty Indian ^{h/}	Chinook	4.17	5.08	0.00	2.86	4.85	259	1	-	1 ^{f/}	15	61	0	0	1 ^{f/}	3
All Gears	Spring	1.27	0.95	1.06	1.05	0.94	846	9	29	86	131	462	9	27	82	138
	Fall ^{e/}															
Coho	1.34	0.82	0.47	0.85	0.50	500	2	1 ^{f/}	183	256	329	3	1 ^{f/}	215	504	
Chum	0.42	0.31	0.00	0.23	0.11	1 ^{g/}	0	0 ^{f/}	1 ^{f/}	402	854	12	0	1 ^{f/}	3	
TOTAL						1,606	12	29	270	402	854	12	28	298	648	
a/	Excluding pinks and sockeye salmon.															
b/	Gill net exvessel salmon prices are recorded in round weight and, therefore, are not strictly comparable to exvessel troll prices.															
c/	Preliminary.															
d/	Mainstem below Bonneville and Select Areas (Youngs Bay, Tongue Point, Blind Slough, and Deep River).															
e/	Includes fall brights, tulies, and jacks. Price changes may reflect a change in the mix of brights, tulies, and jacks rather than annual price changes.															
f/	Less than \$500 or 500 pounds.															
g/	Washington prices are based on a combination of Washington and Oregon value information.															
h/	Includes Klickitat dipnet, Drano Lake (Little White Salmon River mouth), and Priest Rapids Pool fisheries.															

an average weight of 15.4 pounds. For the 1996 harvest, the value at first sale for the harvest was estimated at \$525,000 (unadjusted for inflation, \$559,000 adjusted to 2000 dollars). The average weight of fish landed was 13.5 pounds. Records are not available for the weight and value of the 1999 and 2000 harvests, as each Indian fisher now markets their fish on their own.

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 fishery management plan.

RECREATIONAL SALMON FISHERIES

Ocean

The number of vessel-based ocean salmon sport angler trips taken on the West Coast in 2000 (332,200 angler trips) increased 36% from 1999 but was 41% less than the 1976 through 1999 average. The number of 2000 trips increased by 42% in California and by 59% in Oregon, and decreased by 5% in Washington, as compared to 1999 (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 2000, the proportion of angler trips taken on charter vessels was generally stable, decreasing slightly in California and increasing slightly Oregon and Washington, as compared to 1999 (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

Ocean salmon angler effort in California (208,600 angler trips) increased 42% in 2000 as compared to 1999 (Table IV-10) and was 9% above the 1976 through 1999 average. Effort increased in all port areas except San Francisco where effort was down by 9%. The most dramatic change in total effort was for the Monterey port area where effort increased by 179% to 81,400 trips. While for the state as a whole the share of trips taken on charter vessels was relatively stable, the decline in effort out of the San Francisco port area came in the private vessel sector (the proportion of charter trips increased) and out of the Monterey port area the increase in effort from private vessels was less than the increase from charter vessels (the proportion of charter trips increased). Charter trips out of the Fort Bragg area were up 261% from 2,300 trips in 1999 to 8,300 trips in 2000.

Angler success rates, measured in retained fish per angler trip, increased an average of 43% to 0.86 fish per day in 2000, compared to 0.60 fish per day in 1999. In 2000, anglers on charter vessels landed about 0.19 fish more per day than anglers fishing from private vessels (the difference in 1999 was 0.8 fish). The average differential between charter and private boat angler success rates from 1976 through 1999 was 0.32 fish per day.

Oregon

Ocean recreational salmon based angler trips in Oregon (78,600 angler trips) were up 59% compared to 1999 levels.^{1/} This is the highest effort level since 1993 but was still 72% below the average level seen from 1976 through 1990. Most of the increase came from the Coos Bay port area with significant increases also

1/ Fishing from the Columbia River jetty when Buoy 10 is closed is not included in the estimates of ocean angler effort.

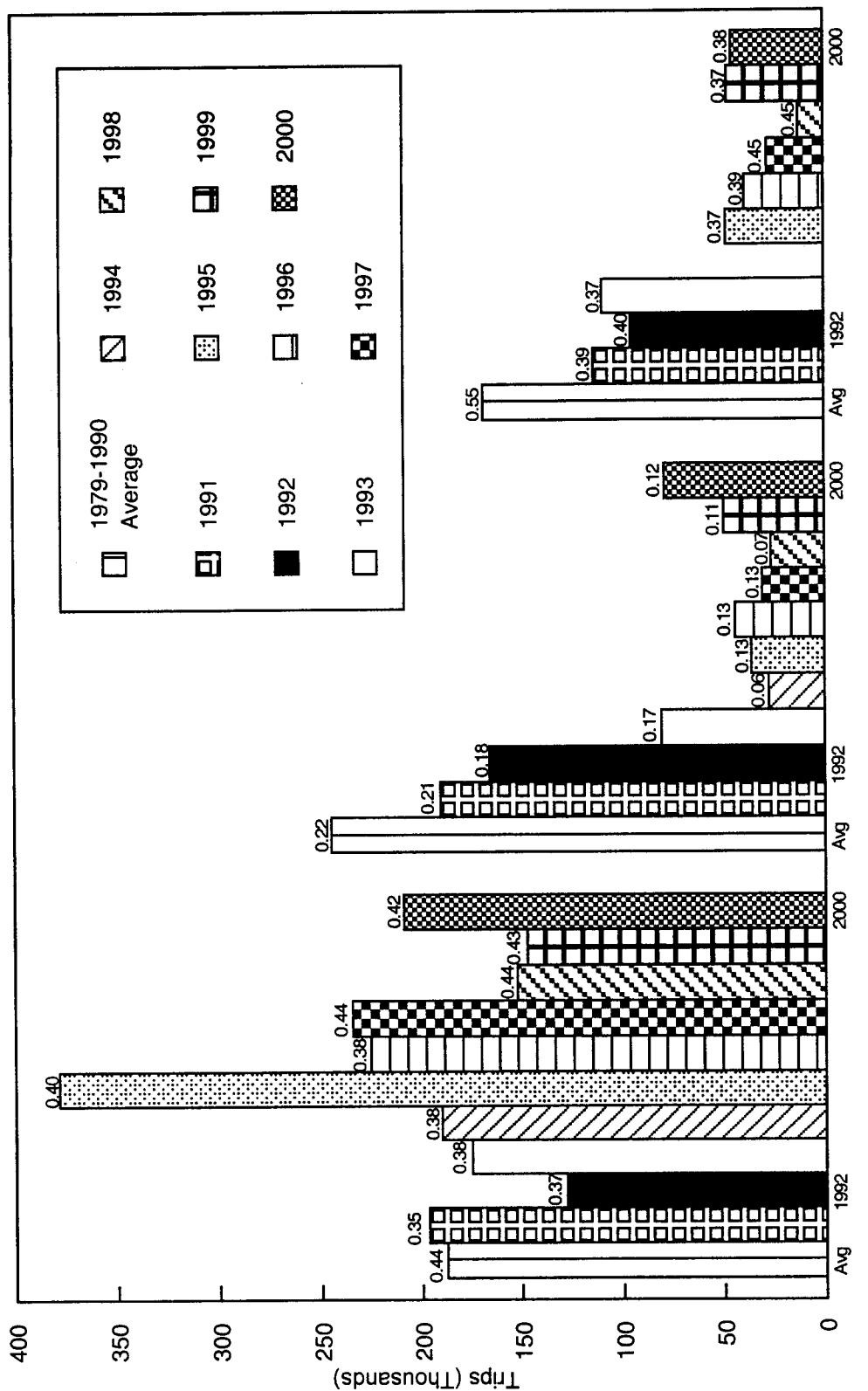


FIGURE IV-5. Total recreational ocean salmon trips by state (with proportion of charter trips shown above each bar).

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 ^{a/}		Coho Catch ^{a/}	
	Charter	Private	Charter	Private	Charter	Private
CALIFORNIA						
1981	61.1	60.8	59.8	24.2	1.1	9.5
1982	79.9	91.4	91.5	47.2	3.9	22.8
1983	56.9	65.8	46.5	17.3	0.5	26.7
1984	61.5	65.5	68.2	19.6	0.8	18.2
1985	85.1	106.8	107.3	63.8	1.4	14.4
1986	86.4	109.2	86.5	55.1	2.2	16.5
1987	105.0	163.3	121.8	70.7	4.3	43.0
1988	101.7	140.7	109.1	62.3	3.5	31.2
1989	108.0	137.0	105.0	81.7	6.2	43.4
1990	78.4	173.7	78.3	61.6	10.2	41.5
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	25.6
1994	72.8	117.1	99.1	84.1	b/	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 ^{c/}	88.3	120.4	85.9	94.0		0.4
OREGON^{d/e/}						
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	65.4	245.8	6.6	22.5	64.5	135.3
1982	43.3	182.7	8.2	30.6	48.5	126.7
1983	41.9	184.1	4.7	20.0	39.7	107.2
1984	24.3	128.7	2.2	14.8	27.3	96.1
1985	53.4	198.2	9.2	46.6	60.2	122.8
1986	43.7	143.3	4.2	18.7	75.0	143.9
1987	60.9	194.2	14.3	45.1	61.9	118.7
1988	62.5	188.2	7.3	31.0	73.5	153.3
1989	60.2	206.1	4.2	27.9	85.8	187.5
1990	55.3	191.2	5.1	21.5	61.6	139.1
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 ^{c/}	9.8	68.7	3.6	21.8	7.5	25.7

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 ^{a/}		Coho Catch ^{a/}	
	Charter	Private	Charter	Private	Charter	Private
WASHINGTON ^{f/g/}						
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	162.2	74.6	62.8	21.7	182.4	55.5
1982	131.9	86.8	85.8	21.0	124.0	82.5
1983	123.0	90.4	39.1	9.5	122.6	89.2
1984	29.9	46.8	7.7	7.4	38.5	49.6
1985	62.9	49.8	17.4	9.2	99.0	69.0
1986	58.1	51.4	13.3	7.9	98.0	77.7
1987	53.7	48.3	27.7	12.9	59.9	58.6
1988	32.4	37.1	11.2	7.8	46.1	43.7
1989	58.5	65.9	11.2	8.1	95.2	94.5
1990	65.0	94.4	16.6	13.0	90.9	113.6
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 ^{c/}	17.1	27.9	5.1	3.4	27.9	35.8

a/ Catch numbers may include some illegal harvest.

b/ Fewer than 50 fish.

c/ Preliminary.

d/ 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.

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

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

g/ 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 2)

Year	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	State Total
CHARTER TRIPS (thousands)						
1976	0.8	2.2	4.1	66.2	7.9	81.2
1977	1.0	1.2	1.7	72.0	4.8	80.7
1978	2.4	1.3	0.9	47.3	1.3	53.2
1979	2.2	0.7	3.3	69.6	3.1	79.0
1980	1.4	0.6	2.0	62.4	2.9	69.3
1981	0.6	0.5	1.3	56.1	2.7	61.1
1982	0.5	0.4	2.4	72.2	4.4	79.9
1983	0.5	1.4	1.6	50.8	2.7	56.9
1984	0.5	0.9	1.4	56.8	1.9	61.5
1985	1.6	3.5	2.3	74.6	3.2	85.1
1986	1.1	2.8	2.8	69.6	10.1	86.4
1987	1.5	3.8	4.6	82.9	12.3	105.0
1988	0.9	2.5	5.6	81.1	11.7	101.7
1989	0.6	5.4	4.5	83.5	14.0	108.0
1990	0.8	3.2	2.7	54.3	17.4	78.4
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 ^{b/}	a/	0.4	2.3	51.0	8.9	62.6
2000	a/	1.3	8.3	52.2	26.5	88.3
PRIVATE TRIPS (thousands)						
1976	27.9	28.2	13.0	30.5	6.3	106.0
1977	21.8	25.5	14.0	34.2	5.1	100.7
1978	15.0	19.8	8.5	48.7	5.4	97.5
1979	9.6	17.3	6.5	34.7	6.7	74.8
1980	17.8	22.5	4.4	23.7	6.7	75.1
1981	13.4	15.8	6.8	19.0	5.7	60.8
1982	24.6	22.3	8.0	28.7	7.7	91.4
1983	21.2	21.5	6.8	9.5	6.8	65.8
1984	23.3	17.9	4.6	8.2	11.4	65.5
1985	29.5	31.4	12.6	18.7	14.6	106.8
1986	24.5	26.1	10.4	22.1	26.1	109.2
1987	50.6	42.4	9.4	25.5	35.4	163.3
1988	43.0	30.3	12.2	27.0	28.2	140.7
1989	33.0	37.7	13.0	11.5	41.7	137.0
1990	41.9	35.4	11.9	35.4	49.0	173.7
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 ^{b/}	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

TABLE IV-11. Estimates of California recreational ocean salmon angler trips by port area and boat type. (Page 2 of 2)

Year	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	State Total
TOTAL TRIPS (thousands)						
1976	28.7	30.5	17.0	96.8	14.2	187.2
1977	22.8	26.7	15.7	106.2	9.9	181.3
1978	17.4	21.2	9.5	96.1	6.6	150.7
1979	11.7	18.0	9.8	104.3	9.9	153.7
1980	19.2	23.1	6.4	86.1	9.6	144.4
1981	14.1	16.3	8.1	75.1	8.4	122.0
1982	25.1	22.8	10.4	100.9	12.1	171.3
1983	21.7	22.8	8.4	60.3	9.5	122.7
1984	23.8	18.8	6.0	65.0	13.3	127.0
1985	31.0	34.9	15.0	93.3	17.8	191.9
1986	25.6	28.9	13.2	91.7	36.2	195.6
1987	52.1	46.1	14.0	108.4	47.7	268.3
1988	43.9	32.8	17.8	108.1	39.9	242.4
1989	33.6	43.0	17.5	95.0	55.7	244.9
1990	42.7	38.7	14.6	89.7	66.5	252.1
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 ^{b/}	7.2	12.8	25.3	82.1	81.4	208.7

a/ Fewer than 50 trips.

b/ Preliminary.

TABLE IV-12. Estimates of Oregon recreational ocean salmon angler trips by port area and boat type. (Page 1 of 2)

Year	Astoria	Tillamook	Newport	Coos Bay	Brookings	State Total
CHARTER TRIPS (thousands)						
1979	18.5	2.8	26.7	22.7	3.0	73.7
1980	26.3	3.7	26.7	19.6	2.8	79.1
1981	16.0	3.1	25.5	17.6	3.2	65.4
1982	11.8	2.1	14.6	11.4	3.4	43.3
1983	12.9	1.8	11.5	12.1	3.6	41.9
1984	2.7	2.5	11.1	5.9	2.1	24.3
1985	8.3	5.3	23.1	12.5	4.2	53.4
1986	7.7	3.0	20.0	9.6	3.4	43.7
1987	8.0	5.5	28.4	14.4	4.6	60.9
1988	2.4	7.3	34.2	15.6	3.0	62.5
1989	9.1	5.2	28.3	13.1	4.4	60.2
1990	8.5	5.5	26.6	12.2	2.5	55.3
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 ^{a/}	0.5	4.7	1.8	0.6	13.4
1994	0.0 ^{a/}	1.2	b/	b/	0.2	1.4
1995	2.5	1.2	0.6	b/	0.3	4.6
1996	1.9	0.8	2.1	0.1	0.6	5.6
1997	1.3	0.3	1.8	0.0	0.5	3.9
1998	0.4	0.1	0.8	0.2	0.3	1.8
1999	1.7	0.3	2.3	0.5	0.7	5.5
2000 ^{c/}	1.2	0.6	4.8	2.3	0.8	9.8
PRIVATE TRIPS (thousands)						
1979	24.3	16.3	45.4	52.9	48.8	187.7
1980	20.1	29.3	56.6	65.2	47.7	218.9
1981	28.7	34.9	51.8	66.3	64.0	245.8
1982	15.4	22.5	38.8	47.9	58.0	182.7
1983	18.0	23.5	31.0	59.6	52.1	184.1
1984	4.4	21.3	32.8	34.3	35.9	128.7
1985	11.7	33.2	47.4	51.0	54.8	198.2
1986	12.8	15.0	32.2	34.0	49.3	143.3
1987	9.1	23.6	48.6	48.1	64.8	194.2
1988	3.2	26.0	55.5	53.5	50.0	188.2
1989	10.7	26.1	54.4	53.5	61.3	206.1
1990	17.0	28.0	44.8	52.8	48.6	191.2
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 ^{a/}	5.1	12.4	13.6	23.2	66.9
1994	0.0 ^{a/}	9.1	0.1	0.4	16.0	25.5
1995	7.2	3.9	0.4	0.7	19.1	31.2
1996	3.7	7.5	0.6	3.8	22.7	38.3
1997	2.3	3.4	0.6	3.9	16.1	26.4
1998	1.7	5.9	0.5	2.2	13.8	24.2
1999	5.7	10.9	5.0	7.1	15.1	43.8
2000 ^{c/}	7.2	10.9	8.2	21.2	21.2	68.7

TABLE IV-12. Estimates of Oregon recreational ocean salmon angler trips by port area and boat type. (Page 2 of 2)

Year	Astoria	Tillamook	Newport	Coos Bay	Brookings	State Total
TOTAL TRIPS (thousands)						
1979	43.3	31.0	72.4	94.7	60.0	301.3
1980	46.3	47.8	83.9	97.4	56.0	331.4
1981	44.7	38.0	77.3	83.9	67.1	311.0
1982	27.2	24.6	53.5	59.4	61.4	226.0
1983	30.9	25.3	42.6	71.6	55.7	226.0
1984	8.3	25.0	41.5	40.2	38.0	153.1
1985	20.0	38.6	70.6	63.5	59.0	251.6
1986	20.5	17.9	52.2	43.6	52.7	187.0
1987	17.1	29.1	76.9	62.6	69.4	255.1
1988	5.7	33.3	89.6	69.0	53.1	250.7
1989	19.8	31.3	82.8	66.6	65.8	266.3
1990	25.5	33.5	71.4	65.0	51.1	246.6
1991	21.7	21.0	53.3	57.7	36.4	190.1
1992	12.9	26.1	53.1	55.6	17.7	165.3
1993	17.8	5.6	17.1	15.3	23.8	79.6
1994	0.0 ^{a/}	10.3	0.1	0.4	16.2	26.9
1995	9.6	5.1	0.9	0.7	19.4	35.8
1996	5.6	8.3	2.8	3.9	23.3	44.0
1997	3.6	3.7	2.4	3.9	16.6	30.2
1998	2.1	6.0	1.3	2.4	14.1	26.0
1999	7.4	11.2	7.4	7.6	15.8	49.4
2000 ^{c/}	8.4	11.5	13.0	23.6	22.0	78.6

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 fish.

c/ Preliminary.

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

Year	Neah Bay ^{a/}	La Push	Westport	Ilwaco ^{b/}	Coastal Area Total
CHARTER TRIPS (thousands)					
1984 ^{c/}	0.3	0.0	11.6	18.0	29.9
1985 ^{c/}	2.0	0.0	42.2	20.7	64.9
1986	2.4	0.0	36.6	19.1	58.1
1987	1.9	0.0	34.1	17.7	53.7
1988	2.0	0.0	23.5	6.9	32.4
1989	1.5	0.0	40.8	16.2	58.5
1990	2.1	0.0	43.4	19.5	65.0
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 ^{e/}	0.5	0.1	11.5	5.5	17.5
2000 ^{e/}	0.7	0.1	12.2	4.1	17.1
PRIVATE TRIPS (thousands)					
1984 ^{c/}	8.3	0.2	2.3	36.0	46.8
1985 ^{c/}	15.2	1.5	13.7	19.4	49.8
1986	17.4	1.7	14.8	17.5	51.4
1987	17.9	2.0	9.8	18.6	48.3
1988	14.8	2.8	13.9	5.6	37.1
1989	15.0	1.6	18.7	30.6	65.9
1990	19.5	4.2	25.9	44.8	94.4
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 ^{e/}	7.6	2.9	7.6	11.8	29.9
2000 ^{e/}	7.2	1.8	7.7	11.1	27.9
TOTAL TRIPS (thousands)					
1984 ^{c/}	8.6	0.2	13.9	54.0	76.7
1985 ^{c/}	17.2	1.5	55.9	40.1	114.7
1986	19.8	1.7	51.4	36.6	109.5
1987	19.8	2.0	43.9	36.3	102.0
1988	16.8	2.8	37.4	12.5	69.5
1989	16.5	1.6	59.5	46.8	124.4
1990	21.6	4.2	69.3	64.3	159.4
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 ^{e/}	8.1	2.9	19.1	17.3	47.4
2000 ^{e/}	7.9	2.0	19.8	15.2	45.0

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/ Less than 50 fish.

e/ Preliminary.

occurring in Newport and Brookings. The charter industry share of the Oregon recreational effort continued to be below historic levels (Figure IV-5 and Table IV-12).

Over the ten years from 1984 to 1993, coho comprised over 85% of the recreational fishery catch. Since 1994, the lack of opportunity to retain coho south of Cape Falcon has generally resulted in lower-than-average angler success rates. With the opportunity to retain coho in a selective fishery south of Cape Falcon in 1999, retained fish per day increased to 0.43, up from 0.25 in 1998 and above the 1994 through 1998 average of 0.37 retained fish per day. In 2000, retained chinook per day and retained coho per day both increased, increasing average catch per day to 0.75 fish (1.13 fish per day in the charter sector and 0.69 fish per day in the private vessel sector). These averages are strongly influenced by the success rates in areas south of Cape Falcon (Table IV-12).

Washington

In 2000, there were 45,000 ocean angler trips taken on vessels on the Washington coast, an decrease of 5% from 1999 and well above 1994 and 1996 through 1998 effort levels as a result of the second year of management under hatchery fish selective fishery regulations. The proportion of vessel angler trips made from charter vessels was relatively stable at 38% in 2000, compared to 37% in 1999 (Figure IV-5 and Table IV-13).

The angler success rates (in terms of retained fish per angler trip) for both charter and private vessels increased dramatically in 2000 to 1.61 retained fish per angler day, compared to 1.05 retained fish per angler day in 1999. The 1979 through 1999 average is 1.40 fish per trip. Not included in these figures is angler effort which occurs from the ocean side of the Columbia River jetty when the Buoy 10 fishery is closed and angler effort in the state managed Area 4B add-on fishery.

Partial week closures have been used in the recreational fishery north of Cape Falcon in an attempt to encourage increased angler participation in nonsalmon recreational fishing and to extend the salmon season. Since 1996, the Sunday through Thursday openings have been used 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 went to a seven day a week opening. Table IV-14 provides data on type and target species of angler trips by port. Bottomfish trips are reported for Washington only. In 2000, total bottomfish effort was generally stable with slight increases occurring out of the Columbia River and La Push port areas and slight decreases out of the Westport and Neah Bay port areas. The amount of sturgeon effort in the Columbia River was also stable, down 2% in 2000, compared to 1999. Sturgeon trips represented 41% of the total 2000 recreational effort out of the Columbia River estuary area reported in Table IV-14. In general sturgeon effort over the last three years has been above most levels seen for the period covered by Table IV-14 (1984 through 2000).

Buoy 10 and Area 4B Add-on Fisheries

The 2000 Buoy 10 fishery was selective for hatchery-marked coho (unmarked coho had to be released). Angler retention rates in the Buoy 10 fishery rose slightly, from 0.38 fish per day in 1999 to 0.39 fish per day in 2000. The 0.39 fish per day retention rate was generally above those rates seen since 1992 (with the exception of 1997 when the rate was 0.63 fish per day). Effort in 2000 was up 46% compared to 1999, to 72,500 trips, (including trips made from the jetty by bank anglers when the Buoy 10 fishery was open, Table IV-15).

In 2000, 3,400 trips were made in the late-season Area 4B add-on fishery. In 1999 there had been no late season fishery because effort out of Neah Bay through the end of September had not been sufficient to take the ocean quota (Table IV-15).

There are numerous other inside recreational 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).

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 2)

Year	Columbia River and Buoy 10				Westport				La Push				Neah Bay and Area 4B Add On			
	Charter	Private	Subtotal	Jetty	Charter		Private	Total	Charter		Private	Total	Charter		Private	Total
					Charter	Total			Charter	Total			Charter	Total		
Salmon Effort (thousands)																
1984	NA	NA	-	NA	54.0	11.6	2.3	13.9	0.0	0.2	0.2	0.3	8.3	8.6		
1985	NA	NA	-	NA	90.3	42.2	13.7	55.9	0.0	1.5	1.5	2.0	15.2	17.2		
1986	NA	NA	-	NA	144.3	36.6	14.8	51.4	0.0	1.7	1.7	2.4	17.4	19.8		
1987	39.5	130.0	169.5	9.0	178.5	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	13.0	201.9	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	18.6	228.2	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	11.6	173.1	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	28.6	239.2	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	22.3	161.2	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	18.5	142.0	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	2.4	9.2	-	-	-	-	-	-	-	-	-	-	
1995	9.0	43.4	52.4	6.0	58.4	12.7	9.0	21.7	0.1	1.4	1.4	1.5	0.3	9.2	9.5	
1996	7.3	26.8	34.1	5.2	39.3	10.3	5.2	15.5	c/	1.3	1.3	0.3	10.6	10.9		
1997	8.4	53.0	61.3	4.7	66.0	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	3.0	36.8	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	4.8	77.4	11.5	7.6	19.1	0.1	2.9	2.9	0.5	7.6	8.1		
2000 ^{a/}	9.8	82.2	92.0	4.8	96.8	12.2	7.7	19.8	0.1	1.8	2.0	1.1	10.3	11.4		
Bottomfish Effort (thousands)^{b/}																
1984	2.1	0.1	2.2	-	12.4	0.5	12.9	0.0	0.0	0.0	0.0	0.	1.8	12.3		
1985	1.9	0.2	2.1	-	15.3	1.0	16.3	0.0	0.1	0.1	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	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	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	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	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	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	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	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	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	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	c/	1.6	1.6	1.6	4.1	19.2	23.3	
1996 ^{d/e/}	1.2	0.5	1.7	1.7	3.4	21.4	1.2	22.6	0.0	1.6	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	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	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	1.1	4.5	20.3	24.9	
2000 ^{a/}	1.2	0.6	1.8	0.5	2.3	16.7	0.9	17.6	0.2	1.3	1.3	1.3	4.5	20.1	24.6	

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 2 of 2)

Year	Columbia River and Buoy 10			Westport			La Push			Neah Bay and Area 4B Add On				
	Charter	Private	Subtotal	Jetty	Total	Charter	Private	Total	Charter	Private	Total	Charter	Private	Total
STURGEON EFFORT (thousands of trips) ^{f/}														
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 ^{a/}	11.6	57.6	69.2	-	69.2	-	-	-	-	-	-	-	-	-

a/ Preliminary.

b/ 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.

c/ Fewer than 50 trips.

d/ No Oregon bottomfish trips are included.

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

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

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

Year	Angler Trips			Chinook Catch			Coho Catch			Pink Catch		
	Charter	Private	Jetty	Charter	Private	Jetty	Charter	Private	Jetty	Charter	Private	
OREGON BUOY 10												
1987	3,829	38,131	3,884	1,557	11,556	41	2,244	13,318	203	0	0	
1988	7,318	50,992	3,917	1,255	8,525	38	7,658	35,688	979	0	0	
1989	3,920	41,747	4,252	308	4,054	21	2,922	20,113	995	0	0	
1990	941	23,607	4,063	52	1,523	17	343	4,273	581	0	0	
1991	4,077	46,468	6,884	321	2,692	26	6,543	54,720	3,003	0	0	
1992	2,496	29,610	6,055	246	2,530	33	1,219	10,716	1,842	0	0	
1993	684	20,244	6,052	36	1,225	89	264	5,316	1,328	0	0	
1994	210	2,732	1,244	-	-	-	34	481	211	0	0	
1995	174	8,680	2,538	7	145	0	64	1,366	560	0	0	
1996	179	6,122	2,285	59	419	0	66	1,361	532	0	0	
1997	1,071	16,207	2,744	273	4,032	0	592	5,411	761	0	0	
1998	588	9,949	631	145	2,191	0	59	1,169	31	0	0	
1999	454	19,030	1,370	125	3,834	9	18	3,357	146	0	0	
2000 ^{b/c}	836	27,492	2,129	26	3,083	4	297	7,523	295	0	0	
WASHINGTON BUOY 10												
1987	9,845	63,851	5,054	3,610	25,188	148	5,651	24,607	1,147	0	9	
1988	17,839	94,534	8,842	2,847	18,051	54	18,208	78,767	2,117	0	6	
1989	11,217	86,111	8,367	966	10,984	59	8,193	47,079	2,613	3	30	
1990	3,809	43,213	4,003	206	3,368	12	1,380	11,208	631	0	0	
1991	11,795	85,392	17,064	1,098	7,443	67	20,217	118,284	5,506	0	63	
1992	6,147	60,827	10,346	907	6,796	143	4,415	23,489	1,401	0	0	
1993	2,035	46,151	608	290	3,648	0	912	13,090	22	0	16	
1994	316	3,561	1,126	-	-	-	101	826	96	0	0	
1995	516	12,921	396	37	664	0	246	2,716	103	0	0	
1996	352	9,096	0	37	894	0	123	2,455	0	0	0	
1997	3,614	30,334	1,755	1,125	7,701	22	2,143	11,290	160	0	0	
1998	1,080	16,388	1,362	333	3,075	40	188	1,584	44	0	0	
1999	1,055	27,672	0	185	5,697	0	175	5,165	0	0	0	
2000 ^{b/c}	3,685	36,268	2,108	286	2,626	60	2,123	11,033	207	0	0	

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

Year	Angler Trips			Chinook Catch			Coho Catch			Pink Catch		
	Charter	Private	Jetty	Charter	Private	Jetty	Charter	Private	Jetty	Charter	Private	
TOTAL BUOY 10												
1987	13,674	101,982	8,938	5,167	36,744	189	7,895	37,925	1,350	0	9	
1988	25,157	145,526	12,759	4,102	26,576	92	25,866	114,455	3,096	0	6	
1989	15,137	127,858	12,619	1,274	15,038	80	11,115	67,192	3,608	3	30	
1990	4,750	66,820	8,066	258	4,891	29	1,723	15,481	1,212	0	0	
1991	15,872	131,860	23,948	1,419	10,135	93	26,780	173,004	8,509	0	63	
1992	8,643	90,437	16,401	1,153	9,326	176	5,634	34,205	3,243	0	0	
1993	2,719	66,395	6,660	326	4,873	89	1,176	18,406	1,350	0	16	
1994	526	6,293	2,370	-	-	-	135	1,307	307	0	0	
1995	690	21,601	2,934	42	809	0	310	4,082	663	0	0	
1996	531	15,218	2,285	96	1,313	0	189	3,816	532	0	0	
1997	4,685	46,541	4,499	1,398	11,733	22	2,735	16,701	921	0	0	
1998	1,668	26,337	1,993	478	5,266	40	247	2,753	75	0	0	
1999	1,509	46,702	1,370	310	9,531	9	193	8,522	146	0	0	
2000 ^{b/c}	4,521	63,760	4,237	312	5,709	64	2,420	18,556	502	0	0	
TOTAL AREA 4B ADD-ON^d												
1989	1,238	10,572	-	67	385	-	2,278	17,603	-	71	423	
1990	962	11,283	-	57	359	-	1,974	18,312	-	0	0	
1991	553	8,684	-	31	349	-	1,064	14,068	-	86	1,457	
1992	406	7,589	-	0	33	-	757	10,954	-	0	0	
1993	623	7,257	-	16	202	-	908	7,260	-	143	884	
1994	-	-	-	-	-	-	-	-	-	0	0	
1995	134	3,877	-	0	26	-	169	4,471	-	61	1,539	
1996	36	1,511	-	0	5	-	61	2,266	-	0	0	
1997	136	1,788	-	0	4	-	65	1,429	-	139	412	
1998	71	6,296	-	5	98	-	125	7,937	-	0	3	
1999 ^e	-	-	-	0	8	-	-	-	-	-	-	
2000 ^f	373	3,046	-	0	8	-	614	3,796	-	0	0	

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/ Preliminary.

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

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.

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 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) 2000 dollars.

West Coast Ocean Fishery Income Impacts

The total state level income impact associated with the recreational and commercial ocean fisheries for all three states combined was \$55.8 million, up 86% from the recent historic low of \$30.0 million of 1998, but 54% below the 1976 through 1999 average in real (inflation adjusted) dollars. State level income impacts related to the commercial non-Indian commercial ocean fishery (\$27.6 million) were up 28% compared to 1999, but were 64% below the 1976 through 1999 average.^{2/} Impacts related to the 2000 ocean recreational fishery (\$28.2 million) were up 36% compared to 1999, but were 37% below the 1976 through 1999 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 2000, income impacts associated with the Columbia River commercial catch are estimated to be \$3.9 million, compared to \$2.6 million in 1999, and a 1987 through 1996 average of \$15.1 million (inflation adjusted, Table IV-19).

Buoy 10 and Area 4B Add-On

Estimated local community income impacts associated with the 2000 Buoy 10 fishery (\$3.2 million) were 50% above 1999 levels, but 17% below the 1987 through 1999 real (inflation adjusted) average of \$3.8 million (Table IV-20). In 2000, there were \$153,000 dollars of state level income impacts associated with the late season Area 4B add-on fishery. This fishery did not occur in 1999, because effort out of Neah Bay through the end of September had not been sufficient to take the ocean quota (Table IV-20).

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

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. (Page 1 of 1)

Year or Average	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	Coastal Community Total ^{b/}	State Total
OCEAN TROLL (thousands of dollars)^{c/}							
1976-1980	5,291	13,439	13,179	17,290	7,419	56,617	72,787
1981-1985	2,690	3,245	7,592	14,331	4,884	32,742	40,765
1986	777	2,163	9,910	16,377	10,507	39,734	50,126
1987	2,312	4,540	19,001	29,704	4	55,560	1,567
1988	87	3,841	26,432	53,771	12	84,143	121,876
1989	633	1,167	7,026	15,899	7,027	31,753	38,995
1990	2	61	4,181	719	8,312	13,275	1,777
1991	18	432	2,427	11,363	5,767	20,006	24,211
1992	0	4	103	41	2	150	51
1993	7	44	885	6,773	4,467	12,177	14,774
1994	0	26	328	10,274	3,365	13,994	16,541
1995	14	88	438	13,833	10,817	25,190	30,694
1996	10	295	811	5,702	6,005	12,821	16,053
1997	1	45	115	9,233	6,599	15,993	19,606
1998	4	80	132	4,106	2,077	6,399	7,697
1999	12	110	127	11,255	3,645	15,149	17,880
2000 ^{d/}	8	63	393	9,789	6,984	17,238	20,895
RECREATIONAL (thousands of dollars)							
1976-1980	1,029	1,193	695	10,445	700	14,062	15,773
1981-1985	1,127	1,162	557	9,250	739	12,835	14,447
1986	1,263	1,526	794	10,553	2,263	16,399	18,835
1987	2,528	2,391	936	12,524	2,919	21,297	24,817
1988	2,106	1,688	1,172	12,369	2,528	19,863	22,935
1989	1,608	2,342	1,098	11,806	3,390	20,244	23,565
1990	2,046	2,006	854	9,270	4,088	18,264	21,804
1991	1,261	1,414	1,391	7,347	3,348	14,760	17,610
1992	428	439	618	6,492	2,100	10,078	11,658
1993	745	918	1,031	8,796	2,353	13,842	15,994
1994	462	316	988	11,032	2,570	15,368	17,452
1995	568	642	1,604	14,141	12,526	29,481	35,367
1996	530	697	1,774	10,355	4,237	17,593	20,580
1997	308	627	1,080	11,634	5,686	19,335	22,501
1998	155	343	558	8,013	3,582	12,651	14,615
1999	271	586	618	9,030	1,871	12,377	13,978
2000	341	679	1,693	8,674	5,318	16,704	19,802

a/ Expressed in 2000 dollars. Per pound and per day estimates of income impacts provided from output of the Fishery Economic Assessment Model. 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.

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.^{a)} (Page 1 of 1)

Year or Average	Astoria	Tillamook	Newport	Coos Bay	Brookings ^{b/}	Coastal Community Total ^{c/}	State Total
OCEAN TROLL (thousands of dollars)^{d/}							
1976-1980	3,396	4,371	10,258	15,779	6,563	40,367	54,736
1981-1985	1,103	1,423	3,331	5,870	2,551	14,278	19,404
1986	603	1,580	5,351	8,762	1,836	18,132	24,562
1987	714	3,569	7,107	19,252	3,838	34,479	46,563
1988	310	5,539	13,792	18,510	3,573	41,726	56,170
1989	552	2,658	4,762	9,904	1,967	19,842	26,835
1990	365	1,512	2,060	7,531	790	12,258	16,321
1991	199	1,419	2,053	2,299	91	6,063	8,188
1992	94	579	3,080	1,024	28	4,805	6,481
1993	40	341	1,711	684	100	2,877	3,856
1994	1	128	636	181	186	1,131	1,551
1995	22	304	3,869	1,324	155	5,673	7,636
1996	57	365	3,246	1,101	388	5,157	7,001
1997	9	101	2,782	1,045	207	4,143	5,605
1998	0	194	2,548	890	164	3,796	5,102
1999	34	110	630	1,133	288	2,192	2,945
2000 ^{e/}	434	290	1,694	1,950	360	4,588	6,173
RECREATIONAL (thousands of dollars)							
1976-1980	2,902	2,212	4,105	5,440	3,584	18,243	23,616
1981-1985	1,683	1,357	3,241	3,305	2,300	11,887	15,433
1986	1,302	878	3,179	2,342	2,170	9,872	12,855
1987	1,175	1,454	4,630	3,393	2,864	13,517	17,626
1988	372	1,718	5,454	3,733	2,161	13,439	17,507
1989	1,351	1,526	4,855	3,491	2,714	13,938	18,165
1990	1,559	1,630	4,308	3,375	2,064	12,936	16,784
1991	1,376	971	3,176	2,862	1,490	9,876	12,775
1992	806	1,186	2,936	2,719	696	8,344	10,767
1993	1,110	250	942	739	933	3,975	5,146
1994	0	475	4	17	624	1,120	1,508
1995	552	267	73	29	751	1,672	2,211
1996	344	374	222	168	914	2,021	2,693
1997	226	164	193	162	655	1,400	1,861
1998	111	245	95	111	550	1,112	1,489
1999	409	463	418	343	635	2,268	2,969
2000 ^{e/}	423	491	782	1,104	875	3,675	4,800

a/ Expressed in 2000 dollars. Per pound and per day estimates of income impacts provided by the Fishery Economic Assessment Model. 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.

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. Since 1994, the average has been 61%. Port Orford is the other port included in the Brookings port area.

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

d/ Excludes pink salmon.

e/ Preliminary.

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

Year or Average	Neah Bay	La Push	Westport	Ilwaco ^{b/}	Coastal Community Total ^{c/d/}	Puget Sound	State Total
OCEAN TROLL (thousands of dollars)^{e/f/}							
1976-1980	4,903	6,693	14,776	4,753	31,125	6,601	47,262
1981-1985	967	392	4,074	873	6,307	1,414	9,249
1986	388	172	1,279	493	2,332	451	3,439
1987	272	173	3,252	484	4,182	393	5,253
1988	533	149	1,647	311	2,640	2,352	5,919
1989	416	13	1,552	294	2,275	640	3,470
1990	1,063	195	1,625	241	3,125	254	4,168
1991	722	64	1,091	143	2,020	236	2,764
1992	666	208	1,274	47	2,195	305	3,022
1993	453	136	734	10	1,333	178	1,837
1994 ^{g/}	0	0	0	0	0	27	33
1995	129	28	30	0	187	44	316
1996	67	2	67	2	138	36	223
1997	51	1	144	0	196	41	278
1998	74	0	106	0	180	46	273
1999	178	6	252	11	448	214	810
2000	199	1	176	50	426	1	550
RECREATIONAL (thousands of dollars)							
1976-1980	2,072	1,096	11,885	4,682	19,735	-	26,805
1981-1985	1,898	223	8,272	3,854	14,247	-	19,388
1986	898	66	4,037	2,226	7,228	-	9,795
1987	872	78	3,601	2,149	6,699	-	9,095
1988	760	109	2,770	778	4,417	-	5,905
1989	722	62	4,590	2,454	7,828	-	10,604
1990	953	164	5,124	3,240	9,481	-	12,893
1991	705	147	3,665	2,110	6,627	-	8,990
1992	493	108	3,674	1,412	5,688	-	7,647
1993	809	118	3,524	1,848	6,299	-	8,526
1994	0	0	0	0	0	-	0
1995	225	64	1,557	928	2,774	-	3,755
1996	377	50	1,176	685	2,288	-	3,103
1997	118	41	1,235	348	1,742	-	2,315
1998	0	23	564	185	773	-	1,029
1999 ^{h/}	342	122	1,388	884	2,736	-	3,706
2000	345	84	1,454	743	2,626	-	3,551

a/ Expressed in 2000 dollars. Per pound and per recreational day estimates of income impacts provided by the Fishery Economic Assessment Model. 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.

b/ Excludes recreational shorebased effort from the north side of the Columbia River jetty.

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

d/ Includes 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. ^{a/} (Page 1 of 1)

	Species ^{b/}	1987-1996	1997	1998	1999	2000 ^{c/}
OREGON						
Non-Indian Gillnet	Chinook					
	Spring	812	158	214	165	487
	Fall Brights	4,259	123	59	156	196
	Tules	231	58	20	14	13
	Coho	2,242	236	282	780	1,192
	Chum	1	0	d/	d/	4
	TOTAL	7,544	575	575	1,115	1,891
Treaty All Gears	Chinook					
	Spring	3	0	0	0	6
	Fall Brights	1,793	101	83	130	195
	Tules	76	52	16	27	27
	Coho	14	1	d/	6	11
	TOTAL	1,886	153	100	164	239
WASHINGTON						
Non-Indian Gillnet	Chinook					
	Spring	465	2	-	d/	29
	Fall	1,693	17	53	159	249
	Coho	907	5	1	357	615
	Chum	2	d/	0	1	2
	TOTAL	3,067	24	54	517	895
Treaty All Gears	Chinook					
	Spring	14	2	d/	d/	148
	Fall	2,552	782	651	826	701
	Coho	34	2	1	16	34
	TOTAL	2,601	787	653	843	882
Non-Indian		10,611	599	629	1,632	2,786
Treaty		4,487	940	753	1,007	1,121
Columbia River		15,098	1,539	1,382	2,639	3,907

a/ Expressed in 2000 dollars.

b/ See Table IV-10 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) ^{a/}		
		Oregon	Washington	Total
BUOY 10 (including bank fishing)				
1987	125	2,086	3,778	5,864
1988	183	2,958	5,975	8,933
1989	156	2,257	4,952	7,209
1990	80	1,216	2,295	3,511
1991	172	2,571	5,333	7,904
1992	115	1,695	3,500	5,196
1993	76	1,134	2,099	3,233
1994	9	182	222	404
1995	25	472	591	1,064
1996	18	359	404	763
1997	56	875	1,662	2,538
1998	30	488	828	1,315
1999	50	872	1,227	2,100
2000 ^{b/}	73	1,284	1,924	3,209
AREA 4B ADD-ON^{c/}				
1989	12		526	526
1990	12		526	526
1991	9		389	389
1992	8		333	333
1993	8		340	340
1994	-		-	-
1995	4		164	164
1996	2		62	62
1997	2		82	82
1998	6		252	252
1999	0		0	0
2000 ^{b/}	3		153	153

a/ Expressed in 2000 dollars.

b/ Preliminary.

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

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 catch area. (Page 1 of 2)

Year or Avg.	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	Oregon	Season
 DAYS FISHED (thousands)							
1978-1980 ^{a/}	17.0	18.4	21.9	21.1	16.5	-	95.0
1981-1985	5.9	6.4	13.8	22.1	11.5	b/	59.8
1986	1.1	2.6	14.5	19.1	17.4		54.7
1987	0.7	2.0	20.3	24.5	11.0	b/	58.6
1988	0.3	1.5	24.0	35.7	14.2	b/	75.7
1989	0.4	1.2	14.1	26.2	15.5	b/	57.4
1990	0.3	0.7	9.0	22.3	13.9	-	46.2
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 ^{c/}	b/	0.1	0.3	9.4	7.9	-	17.7
 CHINOOK (thousands)							
1976-1980	44.3	166.3	143.9	174.7	89.5	-	618.6
1981-1985	38.8	48.9	110.8	180.0	84.1	-	462.7
1986	13.8	36.7	272.4	302.3	200.2	0.2	825.6
1987	29.5	54.7	341.2	355.6	91.2	4.0	876.3
1988	14.9	46.4	424.7	642.7	187.8	0.7	1,317.2
1989	5.1	17.5	144.2	255.8	108.0	0.4	530.9
1990	1.4	6.3	79.6	199.1	137.1	-	423.4
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	228.7	-	487.4
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 ^{c/}	0.2	1.6	9.0	223.0	195.5	-	429.2

TABLE A-1. Summary of California commercial troll salmon fishing effort in days fished and landings in numbers of fish by catch area. (Page 2 of 2)

Year or Avg.	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	Oregon	Season
COHO (thousands)							
1976-1980	72.1	90.0	51.0	20.8	9.4	-	243.4
1981-1985	16.1	18.9	14.6	7.7	1.4	-	58.7
1986	4.8	4.3	20.8	5.1	1.3	-	36.4
1987	5.6	10.8	25.9	1.2	0.1	0.2	43.7
1988	2.8	10.1	30.9	6.7	0.4	-	51.0
1989	5.8	3.4	25.8	6.5	0.5	-	41.9
1990	-	1.2	26.6	27.4	5.7	-	61.0
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	-	-	-	-	-	-	-
<u>2000^{c/}</u>	-	-	-	-	-	-	-

a/ Data not available prior to 1978.

b/ Less than 50 days

c/ Preliminary.

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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
 DAYS FISHED (thousands)								
<u>Crescent City</u> ^{a/}								
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	-	b/	0.2	0.4	0.4	b/	-	1.1
1987	-	b/	0.7	b/	-	b/	-	0.7
1988	-	b/	0.2	-	-	b/	-	0.3
1989	-	b/	0.3	-	0.1	-	-	0.4
1990	-	-	-	-	0.3	-	-	0.3
1991	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-
1996	-	-	-	-	b/	b/	-	b/
1997	-	-	-	-	-	b/	-	b/
1998	-	-	-	-	-	b/	-	b/
1999	-	-	-	-	-	b/	-	b/
2000 ^{c/}	-	-	-	-	-	b/	-	b/
<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	-	-	0.6	0.5	1.1	0.3	-	2.6
1987	-	-	1.5	-	-	0.5	-	2.0
1988	-	-	0.8	-	-	0.8	-	1.5
1989	-	-	0.6	-	0.1	0.5	0.1	1.2
1990	-	-	-	-	0.4	0.3	b/	0.7
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 ^{c/}	-	-	-	-	-	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	-	3.4	3.4	4.4	3.1	0.2	-	14.5
1987	-	3.8	4.9	6.8	4.1	0.6	-	20.3
1988	-	4.6	4.9	7.1	5.5	1.8	-	24.0
1989	-	1.1	2.7	4.4	4.9	1.1	-	14.1
1990	-	0.9	3.6	3.0	1.5	0.1	-	9.0
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 ^{c/}	-	-	-	-	-	0.2	-	0.2
2000	-	-	-	-	-	0.3	-	0.3

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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
DAYs FISHED (thousands)								
San Francisco								
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	-	3.5	4.4	5.9	4.0	1.3	-	19.1
1987	-	6.7	6.4	5.1	4.1	2.3	-	24.5
1988	-	8.1	9.7	9.1	5.5	3.3	-	35.7
1989	-	7.9	7.9	4.0	4.4	2.0	-	26.2
1990	-	6.3	7.1	5.7	2.7	0.5	-	22.3
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 ^{c/}	-	1.8	2.5	1.8	1.6	1.7	-	9.4
Monterey								
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	-	7.1	5.4	3.6	1.1	0.3	-	17.4
1987	-	4.4	2.5	3.0	1.1	0.2	-	11.0
1988	-	4.2	4.6	3.7	1.6	0.1	-	14.2
1989	-	5.0	4.3	3.4	2.4	0.3	-	15.5
1990	-	5.5	4.5	3.2	0.6	0.1	-	13.9
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 ^{c/}	b/	1.3	2.5	1.1	0.1	0.2	-	5.3
2000 ^{c/}	-	3.3	3.3	1.2	0.2	-	-	7.9
Total Statewide								
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	-	14.0	14.0	14.8	9.7	2.2	-	54.7
1987	-	14.9	16.0	14.9	9.3	3.6	-	58.6
1988	-	17.0	20.2	20.0	12.5	6.0	-	75.7
1989	-	14.1	15.8	11.8	11.8	3.9	0.1	57.4
1990	-	12.7	15.2	11.9	5.5	0.9	b/	46.2
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 ^{c/}	-	5.1	5.8	3.0	1.7	2.0	-	17.7

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

b/ Less than 50 days.

c/ Preliminary.

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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)																
Crescent City ^{a/}																
1976-1980	0.3	14.1	11.0	10.3	6.5	2.0	-	44.3	-	10.0	37.3	20.4	3.5	0.9	-	72.1
1981-1985	-	8.6	5.5	7.1	14.2	3.4	-	38.8	-	2.2	3.1	5.2	5.0	0.5	-	16.1
1986	-	0.2	4.6	2.8	5.6	0.8	-	14.0	-	-	3.5	1.3	-	-	-	4.8
1987	-	0.8	29.2	3.2	-	0.4	-	33.5	-	-	5.5	0.2	-	0.1	-	5.8
1988	-	0.7	13.8	-	1.1	-	-	15.6	-	-	2.8	-	-	-	-	2.8
1989	-	0.4	4.4	-	0.6	-	-	5.5	-	-	5.8	-	-	b/	-	5.8
1990	-	-	-	1.4	-	-	-	1.4	-	-	-	-	-	-	-	-
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999 ^{c/}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000 ^{c/}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COHO (thousands)																
Eureka ^{a/}																
1976-1980	6.5	77.9	28.6	34.6	13.0	5.7	-	166.3	b/	30.9	39.7	13.7	5.1	0.6	-	90.0
1981-1985	-	20.9	6.0	9.1	10.1	2.7	-	48.9	-	1.3	4.1	8.0	5.3	0.3	-	18.9
1986	-	-	15.8	4.3	13.8	2.8	-	36.7	-	-	3.2	0.8	0.2	b/	-	4.3
1987	-	-	50.3	-	-	4.5	-	54.7	-	-	9.6	-	-	-	-	10.8
1988	-	-	28.8	-	-	17.6	-	46.4	-	-	8.6	-	-	-	-	10.1
1989	-	-	9.8	-	2.0	4.7	0.9	17.5	-	-	2.4	-	-	0.3	0.2	3.4
1990	-	-	-	-	4.3	1.9	0.1	6.3	-	-	-	-	-	0.1	1.2	b/
1991	-	-	-	-	-	4.3	0.4	4.7	-	-	-	-	-	3.0	0.1	-
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999 ^{c/}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000 ^{c/}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)																
Fort Bragg									b/	5.2	28.0	14.5	3.1	0.2	-	51.0
1976-1980	1.3	24.8	20.9	57.0	26.8	13.0	-	143.9	-	0.2	2.7	9.9	1.7	0.2	-	14.6
1981-1985	1.5	15.5	21.1	49.0	16.9	6.8	-	110.8	-	6.9	12.4	1.6	b/	-	-	20.8
1986	-	57.0	96.5	90.2	28.1	0.6	-	272.4	-	-	-	16.6	0.2	-	-	25.9
1987	-	71.5	89.4	127.6	49.2	3.4	-	341.2	-	9.1	-	-	-	-	-	30.9
1988	-	91.5	110.1	157.4	52.2	13.5	-	424.7	-	-	9.0	20.1	1.8	0.1	-	25.8
1989	-	7.4	20.5	64.4	46.3	5.6	-	144.2	-	3.9	13.6	7.9	0.3	-	-	26.6
1990	-	6.8	45.5	19.8	5.0	2.4	-	79.6	-	16.6	7.3	2.3	0.4	-	-	4.5
1991	-	-	-	-	34.3	1.3	-	35.5	-	-	-	4.5	-	-	-	-
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000 ^{c/}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COHO (thousands)																
San Francisco									b/	5.2	10.5	3.6	1.1	0.3	-	20.8
1976-1980	16.2	53.7	29.7	53.4	12.1	9.6	-	174.7	-	0.2	2.2	4.7	0.5	0.1	-	7.7
1981-1985	4.7	44.6	25.2	60.6	35.2	9.6	-	180.0	-	-	1.7	3.2	0.1	-	-	5.1
1986	-	72.9	119.6	79.8	27.0	3.1	-	302.3	-	-	0.7	0.5	-	-	-	1.2
1987	-	157.6	110.1	49.8	28.5	9.5	-	355.6	-	-	2.8	3.4	0.5	b/	-	6.7
1988	-	220.7	173.7	175.4	47.1	25.8	-	642.7	-	-	3.6	2.1	0.1	-	-	6.5
1989	-	121.3	77.8	25.6	20.9	10.3	-	255.8	-	-	18.0	7.2	2.1	-	-	27.4
1990	-	84.3	78.5	25.5	9.2	1.5	-	199.1	-	-	33.1	19.7	-	-	-	53.3
1991	-	58.3	52.2	30.5	28.3	5.5	-	174.8	-	-	-	-	-	-	-	0.4
1992	-	1.8	-	-	38.2	26.5	-	66.5	-	-	-	-	-	-	-	-
1993	-	60.8	14.8	35.5	40.3	3.6	-	155.0	-	-	-	-	-	-	-	-
1994	-	54.5	69.5	57.0	26.3	12.6	-	219.9	-	-	-	-	-	-	-	-
1995	-	157.0	78.0	84.3	17.0	21.1	-	357.5	-	-	-	-	-	-	-	-
1996	-	22.0	78.0	43.5	12.0	11.9	-	167.4	-	-	-	-	-	-	-	-
1997	-	112.3	14.2	84.2	24.7	17.9	-	253.5	-	-	-	-	-	-	-	-
1998	-	15.2	18.9	62.8	15.2	14.4	-	126.5	-	-	-	-	-	-	-	-
1999	3.3	16.9	72.7	67.8	31.8	12.2	-	204.6	-	-	-	-	-	-	-	-
2000 ^{c/}	-	83.0	74.9	31.8	18.7	14.5	-	223.0	-	-	-	-	-	-	-	-

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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	
CHINOOK (thousands)												COHO (thousands)					
Monterey																	
1976-1980	9.9	29.5	19.1	18.1	9.4	3.5	-	89.5	b/	3.5	4.0	1.8	0.1	b/	-	9.4	
1981-1985	6.1	35.0	16.9	19.4	5.6	1.1	-	84.1	b/	0.1	0.9	0.3	0.1	b/	-	1.4	
1986	-	93.5	56.7	38.0	10.1	1.9	-	200.2	-	0.6	0.6	0.6	0.1	b/	-	1.3	
1987	-	35.0	22.6	24.8	6.4	2.5	-	91.2	-	0.1	0.1	0.1	-	b/	-	0.1	
1988	-	77.8	56.4	38.2	12.6	2.8	-	187.8	-	0.3	b/	b/	-	b/	-	0.4	
1989	-	47.0	25.1	22.5	10.6	2.7	-	108.0	-	0.2	0.2	0.2	0.1	b/	-	0.5	
1990	-	54.1	49.9	26.4	5.4	1.3	-	137.1	-	3.9	1.7	0.1	b/	-	5.7		
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	-	229.0	-	-	-	-	-	-	-	-	
1998 ^{c/}	-	61.0	20.6	12.6	0.6	0.5	-	95.3	-	-	-	-	-	-	-	-	
1999 ^{c/}	b/	13.8	55.5	10.2	0.5	1.0	-	81.0	-	-	-	-	-	-	-	-	
2000 ^{c/}	-	121.8	62.2	10.9	0.6	-	-	195.5	-	-	-	-	-	-	-	-	
Total Statewide																	
1976-1980	34.2	200.0	109.4	173.4	67.9	33.8	-	618.6	b/	54.9	119.5	54.0	12.9	2.0	-	243.4	
1981-1985	12.4	124.6	74.7	145.1	82.1	23.7	-	462.7	b/	4.0	13.0	28.2	12.5	1.1	-	58.7	
1986	-	223.6	293.2	215.1	84.5	9.1	-	825.6	-	-	16.0	18.2	2.1	0.1	-	36.4	
1987	-	264.9	301.6	205.4	84.1	20.2	-	876.3	-	-	24.9	17.3	-	1.4	-	43.7	
1988	-	390.8	382.8	370.9	111.9	60.8	-	1317.2	-	-	23.4	23.6	-	1.6	-	51.0	
1989	-	176.2	137.6	112.5	80.5	23.3	0.9	530.9	-	-	16.0	15.9	8.9	0.8	0.2	41.9	
1990	-	145.2	174.0	71.7	25.4	7.1	0.1	423.4	-	-	38.6	16.3	4.5	1.7	b/	61.0	
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	-	-	-	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 ^{c/}	3.3	30.8	128.2	78.0	32.3	18.5	-	290.9	-	-	-	-	-	-	-	-	
2000 ^{c/}	-	204.7	137.1	42.7	19.3	25.3	-	429.2	-	-	-	-	-	-	-	-	

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

b/ Fewer than 50 fish.

c/ Preliminary.

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

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)											
Crescent City											
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	-	-	-	1.1	7.3	10.6	6.4	0.2	-	-	25.6
1987	-	-	-	2.0	13.8	22.6	10.7	3.0	-	-	52.1
1988	-	-	-	2.4	13.3	20.7	6.6	0.8	-	-	43.9
1989	-	-	-	1.1	7.4	18.6	6.2	0.3	-	-	33.6
1990	-	-	-	0.6	13.8	23.9	3.8	0.6	-	-	42.7
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 ^{b/}	-	-	-	a/	1.5	0.8	3.1	0.4	-	-	5.8
2000	-	-	-	0.1	1.8	2.1	3.0	0.2	-	-	7.2
Eureka											
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	-	-	-	1.1	7.5	12.7	7.2	0.3	-	-	28.9
1987	-	-	-	1.7	9.5	23.2	9.8	1.9	-	-	46.1
1988	-	-	-	1.5	6.8	17.0	6.1	1.5	-	-	32.8
1989	-	-	-	2.4	11.1	21.4	7.8	0.3	-	-	43.0
1990	-	-	-	1.6	12.5	19.1	4.7	0.8	-	-	38.7
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 ^{b/}	-	-	-	0.1	4.1	2.1	5.2	0.4	-	-	12.0
2000	-	-	-	0.8	3.1	3.0	5.0	0.9	-	-	12.8
Fort Bragg											
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	-	-	a/	0.2	3.9	6.6	2.6	a/	-	-	13.3
1987	-	a/	0.1	0.2	2.9	7.2	2.4	1.1	-	-	14.0
1988	-	-	0.2	1.5	4.6	8.1	2.8	0.8	-	-	18.0
1989	-	-	0.1	1.4	5.7	6.5	2.8	1.0	a/	-	17.5
1990	-	-	a/	0.2	5.4	7.0	1.8	0.3	-	-	14.6
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 ^{b/}	a/	0.1	0.2	0.4	1.7	3.0	4.3	0.5	-	-	10.2
2000	-	-	1.3	3.1	7.0	5.6	6.6	1.7	a/	-	25.3

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

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)											
San Francisco											
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	1.9	8.2	9.1	8.6	13.5	21.0	17.9	6.6	4.0	0.9	91.7
1987	4.3	9.6	11.3	10.1	10.2	19.5	22.2	12.3	7.2	1.6	108.4
1988	6.5	10.3	12.4	12.1	16.8	22.0	16.8	7.9	4.1	0.8	109.9
1989	6.0	9.3	14.8	7.7	11.5	15.1	14.1	10.6	4.0	1.9	95.0
1990	5.4	11.6	13.7	6.0	11.2	15.6	10.1	9.6	4.8	1.6	89.7
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 ^{b/}	-	1.4	8.0	3.7	13.0	32.0	17.4	8.8	5.4	-	89.8
2000	-	-	6.5	9.4	16.3	18.9	13.1	11.3	5.2	1.5	82.1
Monterey											
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	0.2	5.7	9.3	3.9	5.1	7.3	2.8	1.1	0.8	a/	36.2
1987	4.3	9.3	6.2	3.3	4.7	11.4	7.1	1.2	0.2	a/	47.7
1988	4.7	5.4	6.4	5.5	6.9	9.5	2.3	a/	0.1	a/	40.9
1989	3.9	6.6	20.1	5.1	5.7	8.8	5.3	0.3	a/	a/	55.7
1990	4.7	9.0	16.5	2.5	11.1	16.6	3.4	0.5	0.3	1.8	66.5
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 ^{b/}	-	7.2	3.6	2.4	7.4	6.3	2.1	0.3	-	-	29.2
2000	-	-	27.6	19.3	14.0	14.4	4.2	1.9	-	-	81.4
Total Statewide											
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	2.1	13.9	18.4	15.0	37.3	58.2	36.8	8.2	4.8	0.9	195.6
1987	8.6	18.9	17.6	17.2	41.1	84.0	52.3	19.6	7.3	1.7	268.3
1988	11.2	15.7	19.0	23.0	48.3	77.4	34.7	11.0	4.2	0.8	245.4
1989	9.8	15.9	35.0	17.7	41.4	70.4	36.2	12.5	4.0	1.9	244.9
1990	10.2	20.6	30.3	10.8	54.0	82.1	23.9	11.8	5.1	3.4	252.1
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 ^{b/}	a/	8.7	11.8	6.6	27.8	44.2	32.1	10.4	5.4	-	147.1
2000	-	-	35.3	32.8	42.2	43.9	31.9	16.0	5.3	1.5	208.7

a/ Less than 50 trips.

b/ Preliminary.

TABLE A-5. California ocean recreational salmon landings in numbers of fish by port of landing 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		
	CHINOOK (thousands)												COHO (thousands)											
Crescent City																								
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	-	-	-	a/	0.5	1.4	3.1	1.9	0.1	-	7.0	-	a/	a/	1.2	4.4	1.7	0.1	-	-	7.4	-	-	
1986	-	-	-	a/	0.3	1.6	2.6	1.3	a/	-	5.8	-	-	-	0.3	2.5	3.6	1.8	-	-	8.1	-	-	
1987	-	-	-	a/	0.3	3.7	4.3	2.3	1.5	-	12.1	-	-	-	0.9	10.7	2.7	0.6	-	-	14.9	-	-	
1988	-	-	-	a/	1.0	7.4	7.6	1.2	a/	-	17.2	-	a/	a/	0.6	10.3	1.4	a/	-	-	12.2	-	-	
1989	-	-	-	a/	0.4	3.6	18.0	3.2	0.1	-	25.3	-	a/	a/	4.9	11.7	1.8	0.1	-	-	18.5	-	-	
1990	-	-	-	a/	0.1	6.5	6.0	0.2	a/	-	12.7	-	a/	a/	9.0	5.9	0.5	a/	-	-	15.5	-	-	
1991	-	-	-	a/	1.3	1.9	a/	0.1	-	-	3.4	-	-	-	-	8.8	9.2	0.1	0.2	-	-	18.3	-	-
1992	-	-	-	a/	-	0.8	-	a/	-	-	0.9	-	-	-	-	-	2.6	-	0.2	-	-	2.8	-	-
1993	-	-	-	a/	0.1	a/	0.5	0.4	0.2	-	-	a/	-	a/	a/	0.1	3.6	2.7	0.3	-	-	6.7	-	-
1994	-	-	-	a/	4.5	1.3	-	0.4	0.1	-	6.3	-	a/	a/	-	-	0.1	a/	-	-	a/	-	0.1	-
1995	-	-	-	a/	0.7	3.0	-	0.3	1.6	-	5.6	-	a/	a/	a/	a/	-	a/	a/	-	-	a/	-	0.1
1996	-	-	-	a/	0.3	2.3	0.8	0.3	0.2	-	3.8	-	a/	a/	-	-	0.1	a/	a/	-	-	a/	-	0.1
1997	-	-	-	a/	0.3	0.5	0.8	0.8	a/	-	2.5	-	a/	a/	-	-	0.1	a/	a/	-	-	a/	-	0.1
1998	-	-	-	a/	0.2	0.7	0.1	0.1	a/	-	1.1	-	-	-	-	-	-	a/	a/	-	-	a/	-	0.1
1999	-	-	-	a/	-	0.1	0.2	0.6	0.1	-	1.0	-	-	-	-	-	-	a/	a/	-	-	a/	-	0.1
2000 ^{b/}	-	-	-	a/	0.5	1.4	0.1	-	-	-	3.6	-	-	-	-	-	-	a/	a/	-	-	a/	-	0.1
Eureka				a/	0.2	1.2	3.7	1.0	0.1	a/	-	6.1	-	a/	a/	0.1	4.1	7.1	1.7	0.1	a/	-	13.1	-
1976-1980	-	-	-	a/	1.3	2.2	4.9	1.1	0.1	a/	-	9.6	-	a/	a/	0.2	2.6	5.8	1.7	0.2	-	-	10.4	-
1981-1985	-	-	-	a/	0.5	2.6	3.3	4.1	a/	-	10.5	-	a/	a/	0.1	2.7	4.2	1.6	a/	-	-	8.6	-	
1986	-	-	-	a/	1.1	3.7	6.5	6.5	0.6	-	18.4	-	a/	a/	0.1	3.5	21.3	4.3	0.6	-	-	29.8	-	
1987	-	-	-	a/	0.6	5.2	6.8	0.8	0.3	-	13.8	-	a/	a/	0.7	3.3	12.0	2.0	0.5	-	-	18.3	-	
1988	-	-	-	a/	1.6	7.5	12.2	3.2	0.1	-	24.6	-	a/	a/	-	1.6	7.5	13.4	3.9	a/	-	-	26.4	-
1989	-	-	-	a/	0.9	5.1	4.6	0.4	a/	-	11.1	-	a/	a/	0.9	10.6	11.2	0.2	-	-	24.6	-	-	
1990	-	-	-	a/	0.1	6.4	2.8	a/	0.3	a/	-	9.5	-	a/	a/	0.1	12.6	8.7	0.2	a/	-	-	21.8	-
1991	-	-	-	a/	-	-	1.4	-	0.3	-	-	1.7	-	-	-	-	-	2.7	-	0.9	-	-	3.6	-
1992	-	-	-	a/	0.3	0.2	1.5	1.2	0.4	-	-	3.6	-	-	-	0.6	0.8	3.8	0.7	-	-	7.6	-	
1993	-	-	-	a/	1.5	1.8	-	0.4	0.1	-	-	3.7	-	a/	a/	-	a/	a/	-	a/	-	a/	-	a/
1994	-	-	-	a/	0.7	4.0	-	1.3	2.0	-	-	8.1	-	a/	a/	0.1	-	a/	a/	0.1	-	0.2	-	0.2
1995	-	-	-	a/	1.7	3.6	0.2	1.1	0.5	-	7.0	-	a/	a/	-	a/	a/	a/	a/	a/	-	a/	-	0.1
1996	-	-	-	a/	1.5	1.7	1.2	2.0	0.1	-	6.5	-	a/	a/	0.1	a/	a/	a/	a/	a/	-	a/	-	0.1
1997	-	-	-	a/	0.5	0.5	0.2	0.5	0.1	-	1.8	-	a/	a/	-	a/	a/	a/	a/	a/	-	a/	-	0.1
1998	-	-	-	a/	0.3	1.8	2.3	4.8	0.5	-	9.6	-	a/	a/	0.1	a/	a/	a/	a/	a/	-	a/	-	0.1
1999 ^{b/}	-	-	-	a/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000 ^{b/}	-	-	-	a/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE A-5. California ocean recreational salmon landings in numbers of fish by port of landing 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		
	CHINOOK (thousands)												COHO (thousands)											
<u>Fort Bragg</u>																								
1976-1980	-	-	a/	a/	0.4	1.7	1.2	0.1	a/	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/	a/	-	2.5	-	-	-	a/	0.2	0.2	0.6	0.1	a/	-	0.9	
1986	-	-	a/	a/	0.2	3.2	6.4	0.8	-	-	-	10.6	-	-	-	a/	0.2	1.1	0.2	0.1	a/	-	1.6	
1987	-	-	a/	a/	0.3	2.4	5.2	1.1	0.2	-	-	9.2	-	-	-	-	0.7	1.1	0.5	0.2	-	-	2.5	
1988	-	-	a/	a/	0.3	1.1	3.5	3.8	0.8	a/	-	9.5	-	-	-	-	0.1	0.2	2.8	0.1	-	-	3.2	
1989	-	-	a/	a/	0.1	0.2	2.5	2.4	0.6	a/	-	5.8	-	-	-	a/	1.1	2.1	0.4	0.1	-	-	3.7	
1990	-	-	a/	a/	0.1	1.6	1.5	0.2	0.1	-	-	3.4	-	-	-	-	0.1	2.2	2.1	0.1	a/	-	4.5	
1991	-	-	a/	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/	a/	0.1	1.0	0.1	2.4	-	0.7	a/	a/	4.3	-	-	-	-	0.3	0.2	2.5	-	0.4	a/	-
1993	a/	a/	0.2	0.3	0.5	2.6	1.9	0.2	a/	-	-	5.8	-	-	-	a/	0.1	0.7	9.4	1.9	0.1	a/	-	
1994	a/	0.2	0.7	3.2	6.9	-	1.9	0.3	a/	-	-	13.2	-	-	-	-	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/	-	-	-	0.1	
1998	-	a/	-	0.6	0.5	0.7	2.2	0.6	-	-	-	4.7	-	-	-	-	-	-	a/	-	-	-	a/	
1999 ^{b/}	-	a/	a/	a/	0.5	2.0	2.6	0.2	-	-	-	5.3	-	-	-	-	-	a/	a/	0.1	-	a/	-	0.2
2000 ^{b/}	-	-	a/	0.7	2.7	5.5	8.0	7.3	1.3	-	-	-	25.6	-	-	-	-	-	-	-	-	-	-	0.1
<u>San Francisco</u>																								
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	0.2	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/	a/	1.1
1986	1.0	12.3	11.4	7.3	13.4	19.7	14.0	4.9	1.7	0.6	86.3	-	-	-	a/	a/	0.1	0.1	0.1	0.1	a/	a/	a/	0.4
1987	3.8	7.4	16.8	9.3	9.8	22.4	29.7	12.3	7.1	1.1	119.5	-	-	-	a/	a/	0.1	0.1	0.1	0.1	a/	a/	a/	0.1
1988	5.4	13.7	20.9	15.6	19.0	21.8	9.6	4.8	3.8	0.5	115.1	-	-	-	a/	a/	0.1	0.1	0.1	0.1	a/	a/	a/	0.4
1989	7.3	8.2	20.4	4.8	12.3	11.4	11.0	12.2	3.7	2.4	93.7	-	-	-	a/	a/	0.1	0.2	0.4	0.1	a/	a/	a/	0.9
1990	5.1	13.3	15.1	4.3	6.6	10.6	13.6	4.9	3.5	0.6	77.6	-	-	-	a/	a/	0.1	0.4	1.0	2.3	0.1	a/	a/	5.8
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/	a/	7.7
1992	0.1	0.8	3.9	6.6	13.8	8.9	9.0	3.1	0.1	47.2	-	-	-	-	a/	a/	0.1	0.1	1.1	0.1	a/	a/	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/	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	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/	0.1	0.1	0.1	0.1	a/	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/	0.2	a/	a/	-	
1997	-	3.0	11.0	19.7	15.1	49.0	20.8	2.8	2.4	0.1	124.0	-	-	-	a/	a/	-	a/	a/	-	a/	a/	-	
1998	-	0.1	3.7	4.4	12.3	27.4	17.6	3.7	1.8	-	71.0	-	-	-	a/	a/	-	a/	a/	-	a/	a/	-	
1999 ^{b/}	-	0.7	6.3	1.3	10.7	29.9	11.6	6.2	2.6	-	69.3	-	-	-	a/	a/	0.2	0.1	a/	a/	a/	a/	0.3	
2000 ^{b/}	-	5.6	9.8	15.9	8.4	7.1	8.0	6.5	1.9	-	63.1	-	-	-	a/	a/	-	a/	a/	-	a/	a/	0.1	

TABLE A-5. California ocean recreational salmon landings in numbers of fish by port of landing 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	
CHINOOK (thousands)												COHO (thousands)											
Monterey																							
1976-1980	0.5	0.7	1.3	0.5	0.4	0.1	a/	a/	a/	a/	4.1	a/	a/	a/	a/	a/	a/	a/	a/	a/	a/	a/	
1981-1985	0.6	1.4	3.8	1.0	1.3	4.0	5.4	1.2	0.4	0.3	5.5	-	-	-	-	-	-	-	-	-	-	0.1	
1986	0.1	3.8	12.1	1.3	4.0	5.4	1.2	0.4	0.3	a/	28.6	-	-	-	-	-	-	-	-	-	-	a/	
1987	1.7	6.7	2.4	1.4	3.5	12.7	4.5	0.4	0.1	a/	33.3	-	-	-	-	-	-	-	-	-	-	a/	
1988	1.5	2.4	3.9	1.8	2.9	3.5	0.2	a/	-	a/	16.2	-	-	-	-	-	-	-	-	-	-	0.2	
1989	0.6	4.5	22.1	1.5	2.0	4.7	1.8	a/	a/	a/	37.2	-	-	-	-	-	-	-	-	-	-	0.2	
1990	1.6	4.3	6.6	0.7	8.4	11.3	0.8	a/	0.2	1.1	35.1	-	-	-	-	-	-	-	-	-	-	1.2	
1991	-	4.8	6.9	0.9	3.7	6.9	0.4	0.1	1.2	-	24.8	-	-	-	-	-	-	-	-	-	-	2.9	
1992	0.4	2.6	4.5	1.4	2.8	5.9	1.2	0.2	0.4	0.4	19.5	-	-	-	-	-	-	-	-	-	-	0.2	
1993	0.3	5.1	9.5	2.0	0.5	2.7	0.4	a/	0.1	-	20.6	-	-	-	-	-	-	-	-	-	-	0.2	
1994	0.3	3.0	6.3	1.9	4.1	3.8	1.4	0.8	2.5	-	24.2	-	-	-	-	-	-	-	-	-	-	a/	
1995	-	14.3	42.9	31.1	27.0	74.1	9.3	0.1	-	198.9	-	-	-	-	-	-	-	-	-	-	-	a/	
1996	-	10.3	16.1	5.2	2.3	7.8	3.2	-	-	44.8	-	-	-	-	-	-	-	-	-	-	-	a/	
1997	-	16.9	15.4	4.2	26.4	20.0	1.5	0.1	-	84.4	-	-	-	-	-	-	-	-	-	-	-	a/	
1998	-	2.9	9.4	10.3	11.0	9.0	0.9	0.1	-	43.5	-	-	-	-	-	-	-	-	-	-	-	a/	
1999 ^{b/}	-	0.9	0.3	0.3	2.3	2.1	1.1	0.1	-	-	7.1	-	-	-	-	-	-	-	-	-	-	0.1	
2000 ^{b/}	-	32.2	18.4	12.9	10.6	2.4	1.5	-	-	78.0	-	-	-	-	-	-	-	-	-	-	-	-	
Total Statewide																							
1976-1980	5.8	8.5	8.7	6.4	13.5	22.0	11.9	7.6	6.7	92.4	-	-	-	-	-	-	-	-	-	-	-	a/	
1981-1985	5.9	7.3	7.2	9.4	17.0	27.0	19.6	8.7	5.6	109.1	-	-	-	-	-	-	-	-	-	-	-	19.9	
1986	1.2	16.1	23.5	9.5	24.7	37.4	21.4	5.3	2.0	141.6	-	-	-	-	-	-	-	-	-	-	-	18.7	
1987	5.5	14.1	19.2	12.4	23.1	51.0	44.1	14.9	7.1	192.5	-	-	-	-	-	-	-	-	-	-	-	47.3	
1988	6.8	16.1	25.0	20.1	38.0	43.5	12.7	5.3	3.8	0.5	171.8	-	-	-	-	-	-	-	-	-	-	34.4	
1989	8.0	12.7	42.6	8.6	27.8	48.7	19.7	12.4	3.7	2.4	186.6	-	-	-	-	-	-	-	-	-	-	49.6	
1990	6.7	17.6	21.6	6.1	28.1	34.0	15.2	5.0	3.8	1.7	139.8	-	-	-	-	-	-	-	-	-	-	51.6	
1991	-	8.0	13.0	4.8	19.9	25.1	5.7	2.0	2.2	a/	80.8	-	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	11.5	
1993	0.4	9.9	15.0	8.9	7.6	40.4	18.8	5.4	3.6	-	110.0	-	-	-	-	-	-	-	-	-	-	29.8	
1994	1.3	7.3	15.7	18.3	38.8	53.3	24.7	14.1	9.7	-	183.2	-	-	-	-	-	-	-	-	-	-	0.5	
1995	0.2	27.3	57.9	47.2	80.3	133.7	31.4	17.0	2.1	-	397.2	-	-	-	-	-	-	-	-	-	-	0.9	
1996	a/	32.0	31.7	15.2	33.0	33.3	12.6	5.0	1.3	-	164.2	-	-	-	-	-	-	-	-	-	-	0.6	
1997	-	20.1	26.9	27.5	47.9	74.5	26.4	3.1	2.4	0.1	229.0	-	-	-	-	-	-	-	-	-	-	0.5	
1998	a/	3.0	13.1	16.0	24.9	37.5	21.2	4.5	1.8	a/	122.0	-	-	-	-	-	-	-	-	-	-	0.1	
1999 ^{b/}	-	1.7	6.6	1.6	15.7	35.2	17.7	6.7	2.6	-	87.8	-	-	-	-	-	-	-	-	-	-	0.6	
2000 ^{b/}	-	38.5	31.2	36.6	30.7	23.1	11.3	6.5	1.9	179.9	-	-	-	-	-	-	-	-	-	-	-	0.4	

a/ Fewer than 50 fish.
b/ Preliminary.

TABLE A-6. Summary of Oregon commercial troll salmon fishing effort in days fished and landings in numbers of fish by catch area. (Page 1 of 2)

Year or Average	Columbia River ^{a/}	Tillamook	Newport	Coos Bay	Brookings	Oregon Subtotal	Alaska	Washington	California	Total
DAYS FISHED (thousands)										
1976-1980 ^{b/}										
1981-1985	2.9	7.3	16.0	21.5	10.3	58.0	0.1	0.7	0.1	58.7
1986	1.1	3.4	6.0	10.0	5.0	25.5	c/	0.3	0.2	26.0
1987	1.2	3.7	8.6	15.8	3.2	32.5	0.0	c/	c/	32.5
1988	0.3	7.3	8.7	21.0	2.0	39.3	0.0	0.1	c/	39.5
1989	0.2	10.5	12.5	26.3	1.4	50.8	c/	0.1	0.1	51.1
1990	0.9	7.8	9.3	22.9	1.2	42.3	0.0	c/	c/	42.3
1991	0.7	5.1	4.3	15.6	0.4	26.2	0.0	0.1	c/	26.2
1992	0.3	3.5	5.1	5.6	c/	14.9	0.0	c/	c/	14.9
1993	0.2	2.6	5.8	0.4	-	9.2	0.0	0.1	-	9.2
1994	-	1.8	5.9	1.6	-	9.5	0.0	c/	c/	9.5
1995	-	0.5	2.1	0.8	0.3	3.8	0.0	-	c/	3.8
1996	-	1.3	4.7	1.6	0.3	7.9	0.0	0.0	c/	7.9
1997	c/	0.7	1.4	4.8	1.8	0.5	8.4	0.0	0.0	8.5
1998	0.0	1.0	0.7	5.2	1.6	0.4	7.8	0.0	c/	7.8
1999	c/	0.7	1.5	4.5	1.4	0.2	7.2	0.0	0.0	7.2
2000 ^{d/}	0.3	0.9	2.7	3.3	0.3	7.5	0.0	c/	c/	7.5
CHINOOK LANDINGS (thousands)										
1976-1980 ^{b/}										
1981-1985	15.3	11.2	46.6	85.6	73.9	232.6	0.3	2.8	0.9	236.6
1986	5.6	5.9	27.9	63.5	42.6	145.5	0.4	3.0	2.2	151.1
1987	6.1	14.1	88.0	240.0	53.7	401.9	0.0	0.4	0.4	402.7
1988	4.6	41.4	87.6	350.4	39.8	523.8	0.0	3.7	1.8	529.3
1989	1.6	32.8	129.0	268.5	31.6	463.5	0.5	1.4	4.6	470.0
1990	2.9	30.4	70.7	232.5	16.8	353.2	-	0.2	0.1	353.5
1991	2.3	12.5	39.3	175.8	2.2	232.1	0.0	0.3	c/	232.4
1992	0.9	9.5	33.5	30.5	0.2	74.6	0.0	c/	0.1	74.8
1993	1.5	7.3	94.7	6.2	-	109.7	0.0	0.8	-	110.5
1994	0.4	6.3	64.2	10.5	-	81.5	0.0	0.0	c/	81.5
1995	-	1.7	18.1	4.0	1.5	25.2	0.0	-	0.1	25.3
1996	-	9.7	174.4	26.6	3.3	214.0	0.0	0.0	0.8	214.8
1997	c/	2.4	13.1	127.8	25.6	8.6	175.2	0.0	0.0	177.1
1998	0.0	6.6	94.8	22.1	0.7	125.0	0.0	0.0	0.1	149.7
1999	c/	2.8	15.8	42.4	1.4	62.4	0.0	1.1	0.1	63.5
2000 ^{d/}	2.2	16.0	49.0	65.1	3.5	135.9	0.0	0.4	0.1	136.4

TABLE A-6. Summary of Oregon 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 River ^{a/}	Tillamook	Newport	Coos Bay	Brookings	Subtotal	Oregon	Alaska	Washington	California	Total
COHO LANDINGS (thousands)											
1976-1980 ^{b/}	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	46.1	96.7	192.3	86.2	19.1	440.4	0.0	-	-	440.4	
1987	7.4	74.7	83.0	177.0	4.1	346.2	0.0	7.5	0.3	354.0	
1988	-	172.3	252.5	196.4	1.3	622.4	c/ ^{c/}	-	0.8	623.2	
1989	21.1	136.3	137.8	159.5	1.0	455.7	0.0	-	c/ ^{c/}	455.7	
1990	10.9	53.3	13.8	43.4	-	121.4	0.0	0.9	c/ ^{c/}	122.3	
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/ ^{c/}	-	1.7	
1994	-	-	-	-	-	0.0	-	-	-	-	
1995	-	-	-	-	-	0.0	0.0	-	-	-	
1996	-	-	-	c/ ^{c/}	-	0.0	0.0	-	-	-	
1997	-	-	-	-	-	0.0	-	-	-	-	
1998	-	-	-	-	-	0.0	-	-	-	-	
1999	-	-	-	-	-	0.0	0.2	-	-	0.2	
2000 ^{d/}	-	12.0	-	-	-	12.0	0.0	0.0	-	12.0	

^{a/} Oregon ports only.^{b/} Reported by port of landing 1976-1978 and by area of catch 1979-1980.^{c/} Fewer than 50 fish.
Preliminary.^{d/} Preliminary.

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
DAYS FISHED (thousands)									
Columbia River									
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	-	0.3	-	-	0.8	-	-	-	1.2
1987	-	0.1	-	0.2	-	-	-	-	0.3
1988	-	0.1	0.1	-	-	-	-	-	0.2
1989	-	0.1	b/	-	0.6	0.2	-	-	0.9
1990	-	0.1	b/	-	0.2	0.4	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 ^{c/}	-	b/	b/	-	0.2	b/	-	-	0.3
Tillamook Area									
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	-	b/	b/	2.7	0.3	0.5	0.1	b/	3.7
1987	-	0.1	0.3	2.6	2.1	1.2	0.9	-	7.3
1988	-	0.2	0.6	4.5	2.9	1.2	1.2	-	10.5
1989	-	0.5	0.7	3.2	1.5	1.3	0.6	-	7.8
1990	-	0.1	0.1	2.2	1.7	0.6	0.5	-	5.1
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 ^{c/}	b/	0.1	0.3	0.1	0.2	0.2	0.1	b/	0.9
Newport Area									
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	-	0.9	0.8	5.5	0.4	0.3	0.7	-	8.6
1987	-	1.0	0.9	3.1	1.6	1.2	0.8	-	8.7
1988	-	0.9	1.1	4.8	4.0	0.7	1.0	-	12.5
1989	-	0.9	1.8	4.1	1.4	0.6	0.4	0.1	9.3
1990	-	0.5	1.4	1.8	0.3	0.2	0.1	-	4.3
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 ^{c/}	0.1	0.5	0.5	0.4	0.6	0.6	0.2	-	2.7

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
 DAYS FISHED (thousands)									
Coos Bay Area									
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	-	2.1	2.4	5.6	4.2	1.2	0.3	-	15.8
1987	-	1.7	1.7	10.3	3.5	3.1	0.7	-	21.0
1988	-	3.2	4.4	7.7	7.1	1.6	2.3	-	26.3
1989	-	4.5	4.2	6.4	4.9	1.1	1.2	0.7	22.9
1990	-	2.2	2.2	6.4	3.6	0.7	0.4	b/	15.6
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 ^{c/}	b/	0.2	0.8	0.4	0.7	0.2	0.2	0.1	2.6
2000 ^{c/}	0.1	0.2	0.2	0.7	1.1	0.5	0.3	0.3	3.3
Brookings Area									
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	-	0.5	0.7	0.6	1.1	-	0.2	0.1	3.2
1987	-	0.5	0.9	-	-	-	0.3	0.3	2.0
1988	-	0.3	0.6	-	-	0.1	0.1	0.3	1.4
1989	-	0.2	0.3	-	0.4	0.3	-	-	1.2
1990	-	b/	-	-	0.4	b/	-	-	0.4
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 ^{c/}	-	b/	-	-	0.1	b/	0.1	-	0.2
2000 ^{c/}	-	b/	-	-	0.1	0.1	0.1	-	0.3
South of Cape Falcon									
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	-	3.6	4.0	14.3	6.0	2.0	1.3	0.1	31.3
1987	-	3.3	3.9	16.1	7.3	5.5	2.7	0.3	39.0
1988	-	4.5	6.6	16.9	14.1	3.6	4.6	0.3	50.6
1989	-	6.2	7.1	13.6	8.2	3.3	2.1	0.8	41.3
1990	-	2.8	3.7	10.4	6.0	1.5	1.0	b/	25.4
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 ^{c/}	0.2	0.6	1.4	0.8	1.1	0.5	0.5	0.1 ^{d/}	5.1
2000 ^{c/}	0.3	0.7	1.0	1.2	1.9	1.3	0.8	0.3 ^{d/}	7.2

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
 DAYS FISHED (thousands)									
Total All Areas									
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	-	3.9	4.0	14.3	6.8	2.0	1.3	0.1	32.5
1987	-	3.5	3.9	16.2	7.3	5.5	2.7	0.3	39.3
1988	-	4.6	6.7	16.9	14.1	3.6	4.6	0.3	50.8
1989	-	6.2	7.1	13.6	8.8	3.5	2.1	0.8	42.3
1990	-	2.8	3.7	10.4	6.2	1.9	1.1	b/	26.2
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 ^{c/}	0.2	0.6	1.4	0.8	1.1	0.5	0.5	0.1	5.1
2000	0.2	0.7	1.0	1.2	2.1	1.3	0.8	0.3 ^{d/}	7.5

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 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 1968 includes Florence through Bandon and after 1987 includes Florence through Port Orford; Brookings area prior to 1968 includes Port Orford through Brookings and after 1987 includes Gold Beach through Brookings.

b/ Fewer than 50 days.

c/ Preliminary.

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)															
Columbia River															
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	-	4.5	-	-	1.6	-	-	-	6.1	-	46.1	-	-	-	46.1
1987	-	2.3	-	2.2	-	-	-	-	4.6	-	7.4	-	-	-	7.4
1988	-	1.0	0.6	-	-	-	-	-	1.6	-	-	-	-	-	-
1989	-	0.7	0.4	-	0.7	1.1	-	-	2.9	-	-	6.8	14.4	-	21.1
1990	-	0.5	0.1	-	0.4	1.2	0.1	-	2.3	-	-	3.5	7.0	0.3	10.9
1991	-	0.3	b/	-	0.5	0.1	-	-	0.9	-	-	21.6	5.2	-	26.7
1992	-	0.4	0.9	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	-	-	b/	b/	-	-	-	-	b/	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	b/	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	b/	-	-	-	-	-	-
1998	-	0.0	0.0	-	-	-	-	-	0.0	-	-	-	-	-	-
1999	-	0.0	b/	-	-	-	-	-	b/	-	-	-	-	-	-
2000 ^{a/}	-	b/	0.2	-	-	2.0	b/	-	2.2	-	-	11.4	0.6	-	12.0
COHO (thousands)															
Tillamook Area															
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	-	0.2	0.1	2.8	3.1	6.5	1.5	b/	14.1	-	96.7	-	-	-	96.7
1987	-	1.8	1.6	16.1	11.7	6.9	3.3	-	41.4	-	49.6	19.8	5.4	-	74.7
1988	-	0.9	5.7	9.5	8.8	4.2	3.6	-	32.8	-	124.2	48.1	-	-	172.3
1989	-	5.4	7.8	6.8	3.6	4.2	2.6	-	30.4	-	117.1	19.2	-	-	136.3
1990	-	0.4	0.6	6.2	2.3	1.8	1.2	-	12.5	-	29.6	23.7	-	-	53.3
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	-	-	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 ^{a/}	b/	0.2	3.8	0.6	5.8	1.5	4.2	b/	-	-	-	-	16.0	-	-

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	June	July	Aug.	Sept.	Oct.	Season
	CHINOOK (thousands)							COHO (thousands)							
<u>Newport Area</u>															
1976-1980	-	3.6	6.5	12.5	16.4	4.8	2.8	b/	46.6	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	-	10.2	11.9	30.9	5.5	6.9	22.5	-	88.0	-	192.3	-	-	-	192.3
1987	-	10.5	7.5	24.1	23.7	13.7	8.1	-	87.6	-	59.3	18.5	5.2	-	83.0
1988	-	8.4	15.2	46.7	32.3	8.9	17.5	-	129.0	-	146.3	106.2	-	-	252.5
1989	-	12.4	19.1	20.6	8.3	4.5	5.7	-	70.7	-	129.8	8.0	-	-	137.8
1990	-	2.5	16.5	16.6	2.3	0.6	0.8	-	39.3	0.1	13.7	-	-	-	13.8
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 ^{c/}	0.6	4.4	5.8	4.4	14.2	14.9	4.7	-	49.0	-	-	-	-	-	-
<u>Cape Bay Area</u>															
1976-1980	-	3.1	11.9	30.2	28.9	7.5	3.9	b/	85.6	-	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	-	18.2	21.3	94.9	83.3	20.6	1.7	-	240.0	-	86.2	-	-	-	86.2
1987	-	17.8	11.4	228.6	47.4	40.4	4.8	-	350.4	b/	146.3	20.5	10.2	-	177.0
1988	-	39.4	47.3	54.2	87.6	14.0	26.0	-	268.5	-	117.1	79.3	-	-	196.4
1989	-	64.8	45.2	42.8	57.7	7.2	11.3	3.4	232.5	-	125.2	34.3	-	-	159.5
1990	-	12.1	15.5	97.3	44.1	4.7	2.1	b/	175.8	-	43.4	-	-	-	43.4
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	-	-	-	5.3
1993	-	2.7	0.9	0.2	0.4	4.4	1.3	0.7	10.5	-	-	-	-	-	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	-	b/	-	-	-	b/
1996	-	2.2	10.1	-	6.1	4.5	1.9	0.8	25.6	-	-	-	-	-	-
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	42.4	-	-	-	-	-	-
2000 ^{c/}	0.6	1.5	1.9	14.8	27.2	13.9	3.4	1.9	65.1	-	-	-	-	-	-

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)															
COHO (thousands)															
Brookings Area															
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	-	3.7	16.7	9.6	22.1	-	1.0	0.6	53.7	12.0	7.1	-	-	-	19.1
1987	-	8.8	28.0	-	-	-	1.1	1.9	39.8	4.1	-	-	-	-	4.1
1988	-	8.2	20.7	-	-	0.1	0.8	1.9	31.6	1.3	-	-	-	-	1.3
1989	-	4.6	1.9	-	1.9	8.4	-	-	16.8	1.0	-	-	-	-	1.0
1990	-	0.1	-	-	2.1	0.1	-	-	2.2	-	-	-	-	-	-
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 ^{c/}	-	b/	-	-	0.8	0.2	0.4	-	-	1.4	-	-	-	-	-
2000 ^{c/}	-	b/	-	-	1.4	1.2	0.9	-	-	3.5	-	-	-	-	-
South of Cape Falcon															
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	-	32.4	50.0	138.1	114.0	34.0	26.7	0.6	395.8	12.0	382.3	-	-	-	394.3
1987	-	38.9	48.6	268.9	82.7	61.0	17.2	1.9	519.2	4.1	255.1	58.8	20.8	-	338.8
1988	-	56.9	88.8	110.4	128.8	27.2	47.9	1.9	461.8	1.3	387.5	233.6	-	-	622.4
1989	-	87.2	74.1	70.2	71.5	24.2	19.7	3.4	350.3	1.0	372.2	61.4	-	-	434.6
1990	-	15.1	32.6	120.1	50.8	7.1	4.2	b/	229.9	0.1	86.6	23.7	-	-	110.5
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/	b/	48.2
1993	-	20.3	14.7	12.9	10.4	15.6	6.4	0.7	81.1	-	-	-	-	-	-
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/	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 ^{c/}	0.8	6.1	23.5	8.1	17.9	1.9	2.8	1.3	62.4	-	-	-	-	-	-
2000 ^{c/}	1.2	6.0	11.4	19.8	48.7	31.6	13.1	2.0	133.6	-	-	-	-	-	-

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	June	July	Aug.	Sept.	Oct.	Season	CHINOOK (thousands)		COHO (thousands)	
Total All Areas	-	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				
1976-1980	-	19.8	8.7	54.8	43.9	10.7	6.4	1.1	145.5	-	241.2	67.8	1.7	-	310.6				
1981-1985	-	36.9	50.0	138.1	115.6	34.0	26.7	0.6	401.9	12.0	382.3	46.1	-	-	440.4				
1986	-	41.2	48.6	271.1	82.7	61.0	17.2	1.9	523.8	4.1	262.5	58.8	20.8	-	346.2				
1987	-	57.9	89.5	110.4	128.8	27.2	47.9	1.9	463.5	1.3	387.5	233.6	-	-	622.4				
1988	-	87.9	74.5	70.2	72.2	25.4	19.7	3.4	353.2	1.0	372.2	68.2	14.4	-	455.7				
1989	-	15.6	32.7	120.1	51.3	8.3	4.2	b/	232.1	0.1	86.6	27.3	7.0	0.3	121.4				
1990	-	3.6	12.6	15.5	12.1	8.3	12.4	-	74.6	91.2	188.7	21.6	5.2	-	306.6				
1991	-	21.0	0.9	31.6	26.2	0.7	19.3	-	109.7	-	23.7	25.9	-	b/	49.6				
1992	-	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				
1993	-	7.9	8.9	-	0.2	1.2	6.6	0.4	25.2	-	-	-	-	-	-				
1994	-	10.9	35.8	1.7	97.9	38.5	28.8	0.3	214.0	-	-	-	-	-	-				
1995	-	28.5	41.5	-	63.5	26.0	14.9	0.8	175.2	b/	-	-	-	-	-				
1996	-	4.5	33.4	35.4	-	44.7	25.8	5.4	0.5	149.6	-	-	-	-	-				
1997	-	20.0	39.7	33.7	-	21.0	5.0	4.0	0.9	124.2	-	-	-	-	-				
1998	-	0.8	6.1	23.5	8.1	17.9	1.9	2.8	1.3	62.4	-	-	-	-	-				
1999	-	1.2	6.1	11.7	19.8	50.6	31.6	13.1	2.0	135.9	-	-	1.4	0.6	-				
2000 ^{c/}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

a/ Excludes harvests off Alaska, Washington, and California that were landed in Oregon. Landings 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 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.

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)									
Columbia River									
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	-	-	0.7	12.1	7.7	-	-	-	20.5
1987	-	-	0.6	8.5	8.0	-	-	-	17.1
1988	-	-	-	5.7	-	-	-	-	5.7
1989	-	0.1	1.2	9.2	9.2	-	-	-	19.8
1990	-	-	1.9	8.9	13.2	1.4	-	-	25.5
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 ^{c/}	-	-	-	2.1	3.7	1.7	-	-	7.4
2000 ^{c/}	-	-	-	4.0	4.4	-	-	-	8.4
Tillamook Area									
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	-	b/	1.9	13.0	3.1	-	d/	-	17.9
1987	-	-	1.8	12.4	10.9	3.8	d/	-	29.1
1988	-	0.3	2.1	9.6	13.8	7.4	d/	-	33.3
1989	-	0.3	3.0	15.4	9.5	3.1	d/	-	31.3
1990	-	0.1	1.2	9.9	16.3	6.0	d/	-	33.5
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 ^{c/}	b/	0.6	0.1	3.4	0.3	3.1	3.5	0.1	11.2
2000 ^{c/}	b/	0.4	0.1	3.8	0.4	3.4	3.2	0.2	11.5
Newport Area									
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	-	1.4	3.9	38.9	8.0	-	-	-	52.2
1987	-	-	5.2	40.0	23.2	8.6	-	-	76.9
1988	-	1.0	7.1	37.9	34.2	9.4	-	-	89.6
1989	-	0.9	17.2	37.5	22.8	4.3	-	-	82.8
1990	-	0.7	5.5	32.8	28.3	4.1	-	-	71.4
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 ^{c/}	b/	b/	0.1	7.1	0.1	b/	b/	-	7.4
2000 ^{c/}	b/	b/	0.1	11.7	0.9	0.3	0.1	-	13.0

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)									
Coos Bay Area									
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	-	0.8	4.9	33.6	4.3	-	d/	d/	43.6
1987	-	-	3.9	40.6	12.8	5.2	d/	d/	62.5
1988	-	1.4	9.8	33.1	21.0	3.7	d/	d/	69.0
1989	-	0.8	16.2	33.9	13.6	2.1	d/	d/	66.6
1990	-	0.6	8.8	24.3	24.9	6.4	-	-	65.0
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 ^{c/}	b/	0.1	0.2	14.9	7.2	1.1	0.1	d/	23.6
Brookings Area									
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	-	3.6	10.4	20.1	13.0	0.6	5.0	-	52.7
1987	-	2.3	10.0	29.0	15.2	7.1	5.9	-	69.4
1988	-	0.8	14.2	25.2	11.3	1.6	-	-	53.1
1989	-	3.1	15.7	26.6	14.6	5.8	-	-	65.8
1990	-	1.4	14.5	22.8	11.5	0.8	-	-	51.1
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 ^{c/}	-	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
South of Cape Falcon									
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	-	5.7	21.2	105.6	28.3	0.6	5.0	d/	166.4
1987	-	2.3	20.9	122.0	62.1	24.7	5.9	d/	237.9
1988	-	3.5	33.2	105.8	80.4	22.1	d/	d/	245.0
1989	-	5.1	52.2	113.3	60.4	15.4	d/	d/	246.4
1990	-	2.8	30.0	89.8	81.1	17.4	d/	-	221.0
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 ^{c/}	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

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)									
Total All Areas									
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	-	5.7	21.9	117.7	36.0	0.6	5.0	d/	187.0
1987	-	2.3	21.5	130.5	70.2	24.7	5.9	d/	255.1
1988	-	3.5	33.2	111.5	80.4	22.1	d/	d/	250.7
1989	-	5.3	53.4	122.6	69.6	15.4	d/	-	266.3
1990	-	2.8	32.0	98.7	94.3	18.8	d/	-	246.6
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 ^{c/}	b/	0.7	2.9	37.0	24.9	6.3	6.5	0.2	78.6

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.

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

Year or Average	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	-	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	-	c/	0.1	1.3	0.7	-	-	-	2.1	-	1.7	23.3	14.1	-	39.1	
1987	-	-	0.2	2.0	1.9	-	-	-	4.1	-	0.9	12.5	12.3	-	25.6	
1988	-	-	-	0.5	-	-	-	-	0.5	-	-	9.8	-	-	9.8	
1989	-	c/	0.2	0.2	1.1	-	-	-	1.5	-	4.9	19.6	9.8	-	34.3	
1990	-	c/	0.1	0.9	2.2	0.1	-	-	3.3	-	3.5	14.7	16.6	1.3	36.1	
1991	-	c/	0.1	0.3	0.6	c/	-	-	1.0	-	2.4	16.4	17.2	3.4	39.4	
1992	-	c/	-	0.3	0.2	c/	-	-	0.5	-	-	17.9	3.0	1.4	22.3	
1993	-	c/	-	0.2	0.4	c/	-	-	0.8	-	-	7.1	10.3	3.8	21.2	
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1995	-	c/	-	-	-	c/	-	-	0.1	-	-	2.0	9.0	0.8	11.8	
1996	-	c/	-	-	-	c/	-	-	c/	-	-	1.4	4.7	0.9	7.0	
1997	-	c/	-	0.1	0.1	-	-	-	0.2	-	-	4.5	1.4	-	5.8	
1998	-	c/	-	-	-	c/	-	-	0.1	-	-	2.0	0.2	2.2	2.2	
1999	d/	-	-	-	-	0.2	0.6	0.1	-	0.9	-	-	2.5	3.4	1.7	7.5
2000	d/	-	-	-	-	0.4	0.3	-	-	0.8	-	-	6.8	7.0	-	13.7
<u>Tillamook Area</u>																
1976-1980	-	0.1	0.2	0.4	0.7	0.1	c/	c/	c/	c/	1.4	0.3	3.2	6.3	11.4	
1981-1985	-	c/	c/	0.8	0.6	0.1	c/	c/	c/	c/	1.5	0.1	0.5	10.3	8.7	
1986	-	c/	c/	0.2	0.2	-	c/	c/	c/	c/	0.5	-	3.4	15.8	5.1	
1987	-	c/	0.1	0.8	2.0	0.6	c/	c/	c/	c/	3.5	-	0.6	10.2	4.9	
1988	-	c/	0.1	0.3	1.3	1.0	c/	c/	c/	c/	2.7	0.1	1.8	8.2	5.7	
1989	-	c/	0.1	0.3	0.3	0.2	c/	c/	c/	c/	0.9	-	3.4	19.7	7.0	
1990	-	c/	0.5	0.4	0.3	c/	c/	c/	c/	c/	1.2	-	0.9	8.8	12.4	
1991	-	c/	0.3	0.4	-	c/	c/	c/	c/	c/	0.7	-	2.5	23.1	-	
1992	-	c/	0.1	0.3	0.6	0.3	c/	c/	c/	c/	1.5	0.1	1.8	11.3	6.1	
1993	-	c/	0.1	0.1	c/	0.2	c/	c/	c/	c/	0.3	-	0.3	0.9	1.4	
1994	-	c/	0.1	0.1	c/	-	c/	c/	c/	c/	2.2	-	2.4	-	-	
1995	-	c/	0.1	0.1	c/	-	c/	c/	c/	c/	0.1	-	0.5	-	-	
1996	-	c/	0.1	0.1	c/	c/	c/	c/	c/	c/	0.7	-	1.6	-	-	
1997	-	c/	0.0	0.1	c/	c/	c/	c/	c/	c/	0.3	0.1	0.5	-	-	
1998	-	c/	0.0	0.1	c/	c/	c/	c/	c/	c/	0.5	c/	1.1	-	-	
1999	d/	0.0	0.1	c/	c/	c/	c/	c/	c/	c/	0.7	0.5	c/	1.6	-	
2000	d/	c/	c/	c/	c/	c/	c/	c/	c/	c/	0.5	0.4	0.1	1.2	-	

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	CHINOOK (thousands)						COHO (thousands)					
										May	June	July	Aug.	Sept.	Oct.	Nov.	Season	May	June	July	Aug.
<u>Newport Area</u>																					
1976-1980 ^{b/}	-	0.1	0.5	0.8	0.8	0.2	c/	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	-	0.1	0.1	1.9	0.1	-	-	-	-	2.3	1.5	7.6	57.4	13.9	-	80.4					
1987	-	c/	0.2	2.4	2.1	1.7	-	-	-	6.4	-	1.3	43.1	14.5	6.3	65.3					
1988	-	0.1	1.6	1.8	1.6	0.2	-	-	-	5.3	c/	2.8	42.5	44.5	11.0	100.9					
1989	-	0.1	0.7	0.5	0.4	c/	-	-	-	1.8	0.8	24.2	47.4	29.6	0.6	102.5					
1990	-	c/	0.3	1.4	0.8	0.2	-	-	-	2.7	0.2	5.8	37.9	19.0	1.2	64.1					
1991	-	c/	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/	9.4	7.0	-	-	16.4					
1994	-	c/	0.0	-	-	c/	c/	c/	c/	c/	c/	-	-	-	-	-	-	-	-	-	-
1995	-	c/	c/	c/	c/	0.4	0.4	0.1	0.1	c/	c/	0.1	-	-	-	-	w/	w/	w/	w/	w/
1996	-	c/	c/	c/	c/	0.1	0.2	0.9	0.1	c/	c/	0.6	-	-	-	-	w/	w/	w/	w/	w/
1997	0.0	c/	0.1	0.1	0.1	0.2	c/	c/	c/	c/	c/	1.3	-	-	-	-	w/	w/	w/	w/	w/
1998	0.0	c/	c/	c/	c/	0.3	c/	c/	c/	c/	c/	0.4	-	-	-	-	w/	w/	w/	w/	w/
1999 ^{d/}	0.0	c/	c/	c/	c/	0.8	0.5	0.3	c/	c/	c/	0.3	-	-	-	-	4.0	-	-	-	-
2000 ^{d/}	0.0	c/	c/	c/	c/	c/	c/	c/	c/	c/	c/	1.6	-	-	-	-	12.3	w/	w/	w/	w/
<u>Coos Bay Area</u>																					
1976-1980 ^{b/}	-	0.5	2.1	2.9	3.6	1.2	0.1	c/	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	-	c/	1.0	4.5	0.5	-	e/	e/	e/	6.1	1.1	8.0	48.0	6.1	-	63.2					
1987	-	c/	0.9	10.7	4.6	2.8	e/	e/	e/	19.0	-	1.0	44.6	6.4	2.1	54.1					
1988	-	c/	0.2	1.7	2.8	3.1	0.2	e/	e/	8.1	c/	5.2	45.0	17.7	3.3	71.3					
1989	-	c/	0.1	1.8	4.3	0.6	c/	e/	e/	6.7	0.7	22.3	38.5	11.6	c/	73.1					
1990	-	c/	0.6	2.8	2.3	0.8	-	-	-	6.6	c/	12.4	23.5	23.2	3.1	62.2					
1991	-	c/	2.1	2.9	-	-	-	-	-	5.1	0.8	23.4	66.5	-	-	90.8					
1992	-	c/	0.1	2.0	1.0	0.3	0.4	e/	e/	3.8	0.5	13.1	43.9	15.8	2.7	76.0					
1993	-	c/	c/	c/	c/	0.6	0.4	-	e/	e/	1.1	0.1	0.1	7.6	4.4	-	12.2				
1994	-	c/	c/	c/	c/	-	-	c/	c/	e/	e/	-	-	-	-	-	w/	w/	w/	w/	w/
1995	-	c/	c/	c/	c/	0.2	-	c/	c/	e/	e/	0.2	-	-	-	-	w/	w/	w/	w/	w/
1996	-	c/	c/	c/	c/	0.1	0.3	0.1	e/	e/	e/	0.8	-	-	-	-	w/	w/	w/	w/	w/
1997	c/	c/	c/	c/	c/	0.1	0.4	0.1	e/	e/	e/	0.7	-	-	-	-	0.1	0.1	-	1.1	-
1998	0.0	c/	c/	c/	c/	0.9	0.4	c/	e/	e/	e/	0.5	-	-	-	-	1.1	-	-	1.1	-
1999 ^{d/}	0.0	c/	c/	c/	c/	0.2	-	c/	e/	e/	e/	1.4	-	-	-	-	5.1	c/	c/	c/	c/
2000 ^{d/}	c/	c/	c/	c/	c/	7.0	2.6	0.5	c/	c/	c/	10.1	-	-	-	-	-	-	-	-	-

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	May	June	July	Aug.	Sept.	Season
CHINOOK (thousands)															
COHO (thousands)															
Brookings Area															
1976-1980 ^{b/}	-	0.1	1.0	2.8	3.4	0.6	0.7	0.1	8.6	0.4	10.6	15.4	5.3	0.5	32.5
1981-1985	-	0.7	1.3	9.2	4.2	0.6	0.5	c/	16.4	0.2	1.9	7.5	2.4	0.1	12.1
1986	-	1.1	2.8	3.5	3.9	c/	0.6	-	12.0	1.5	2.6	5.7	2.1	-	12.0
1987	-	0.1	3.8	9.8	5.6	5.9	1.1	-	26.4	c/	0.5	14.0	3.1	1.4	19.0
1988	-	0.1	12.4	6.5	2.6	0.1	-	-	21.7	c/	1.0	12.1	1.8	0.1	15.0
1989	-	0.4	3.6	9.4	6.8	1.0	-	-	21.2	0.2	4.2	20.3	7.5	0.8	33.0
1990	-	0.4	4.6	6.5	1.2	c/	-	-	12.7	0.1	8.4	5.0	1.8	c/	15.3
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	-	-	v	v	v	v
1995	-	0.2	1.6	-	0.5	2.6	0.8	-	5.7	-	v	v	v	0.1	0.1
1996	-	0.5	2.7	0.3	2.8	0.6	1.3	-	8.2	-	v	v	v	v	0.1
1997	-	0.8	0.8	1.0	1.6	0.1	0.7	-	5.1	v	v	v	v	v	0.1
1998	-	0.2	0.3	0.3	0.4	0.2	0.4	-	2.0	-	v	v	v	-	v
1999	c/	c/	0.9	1.7	0.5	0.3	-	-	3.5	-	v	v	v	-	v
2000 ^{d/}	c/	0.4	2.1	8.0	0.5	0.8	-	-	11.8	-	v	v	v	-	v
South of Cape Falcon															
1976-1980 ^{b/}	-	0.8	3.8	6.9	8.4	2.0	0.8	0.1	22.8	9.5	57.5	91.6	60.1	6.1	225.7
1981-1985	-	0.7	2.1	15.5	7.7	1.2	0.5	c/	27.7	1.6	12.7	70.2	43.3	3.9	131.6
1986	-	1.2	4.0	10.2	4.7	c/	0.6	e/	20.8	4.1	21.6	126.8	27.3	-	179.8
1987	-	0.1	5.1	23.8	14.3	11.0	1.1	e/	55.4	c/	3.4	111.9	29.0	10.5	154.9
1988	-	0.4	15.8	11.5	8.6	1.6	e/	e/	37.8	0.1	10.9	107.8	78.1	20.1	217.0
1989	-	0.6	6.2	14.5	8.0	1.2	e/	e/	30.6	1.6	54.2	125.9	55.7	1.5	239.0
1990	-	0.4	5.6	11.2	4.7	1.3	e/	-	23.2	0.3	27.5	75.1	56.4	5.2	164.5
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	c/	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	-	v	v	v	v	v
1995	-	0.3	1.8	-	0.5	2.8	1.1	0.1	6.6	-	v	v	v	0.1	0.1
1996	c/	0.7	2.9	0.6	3.5	1.4	2.0	e/	11.2	-	v	v	v	0.1	v
1997	c/	0.9	1.5	2.8	0.5	1.0	e/	e/	7.5	-	v	v	v	0.1	0.2
1998	0.0	0.3	0.4	0.5	1.0	0.8	0.9	e/	4.0	-	v	v	v	0.1	0.1
1999	0.0	0.1	0.3	2.2	2.1	1.2	0.9	0.1	6.8	-	v	v	6.0	v	6.1
2000 ^{d/}	c/	0.1	0.5	10.0	11.0	1.8	1.2	0.1	24.7	-	-	-	19.3	0.1	19.5

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	May	June	July	Aug.	Sept.	Season			
CHINOOK (thousands)															COHO (thousands)			
Total All Areas																		
1976-1980 ^v	-	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	-	1.2	4.1	11.5	5.4	c/	0.6	e/	22.8	4.1	23.3	150.1	41.3	-	218.9			
1987	-	0.1	5.3	25.8	16.1	11.0	1.1	e/	59.4	c/	4.3	124.4	41.2	10.5	180.5			
1988	-	0.4	15.8	12.0	8.6	1.6	e/	e/	38.3	0.1	10.9	117.7	78.1	20.1	228.9			
1989	-	0.6	6.4	14.7	9.1	1.2	e/	e/	32.0	1.6	59.1	145.5	65.5	1.5	273.3			
1990	-	0.4	5.7	12.2	6.9	1.4	e/	-	26.5	0.3	31.0	89.8	73.0	6.5	200.6			
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	e/	3.3	e/	6.0	-	-	e/	e/	e/	e/	e/	e/
1995	-	0.3	1.8	1/	0.6	2.8	1.1	0.1	6.7	-	e/	2.0	9.0	0.9	11.9			
1996	-	0.7	2.9	0.6	3.5	1.5	2.0	-	11.2	-	e/	1.5	4.7	1.0	7.2			
1997 ^{c/}	0.0	0.9	1.4	3.0	0.5	1.0	e/	7.7	e/	e/	4.5	1.4	e/	6.0				
1998	0.0	0.3	0.4	0.5	1.1	0.8	0.9	e/	4.1	-	e/	2.1	0.2	2.3				
1999 ^{d/}	0.0	0.1	0.3	2.4	2.7	1.3	0.9	c/	7.7	-	e/	8.5	3.4	1.7	13.6			
2000 ^{j/}	c/	0.1	0.5	10.5	11.4	1.8	1.2	0.1	25.5	-	-	26.1	7.1	e/	33.2			

a/ Monthly totals are the sum of statistical weeks with closest fit to the calendar month. The 1976-1980 catch is from combined salmon/steelhead punch card and sampled port data. Since 1981, data 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/ Illegal catch, fewer than 50 fish.

g/ The 1976-1980 average includes fewer than 600 coho during Oct. and Nov.

h/ The 1976-1980 average includes fewer than 900 coho during Oct. and Nov.

v/ 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 River	Grays Harbor	Quillayute	Cape Flattery ^{a/}	Washington Subtotal	Oregon	California	Alaska	Total
 DAYS FISHED (thousands)									
1976-1980	9.007	15.023	9.446	9.707	43.184	0.664	0.042	0.970	44.860
1981-1985	1.961	5.194	1.553	3.112	11.819	0.244	0.018	0.025	12.107
1986	1.435	1.611	0.349	0.860	4.255	0.061	0.000	0.015	4.331
1987	0.478	2.234	0.131	0.282	3.125	0.152	0.000	0.000	3.277
1988	0.317	3.700	0.712	1.067	5.796	0.140	0.000	0.002	5.938
1989	0.922	3.221	0.000	0.861	5.004	0.117	0.000	0.000	5.121
1990	1.203	2.331	0.309	1.571	5.414	0.031	0.000	0.000	5.445
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 ^{b/}	0.000	0.006	0.038	0.095	0.139	0.000	0.000	0.000	0.139
1999 ^{b/}	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
 CHINOOK (thousands)									
1976-1980	23.517	81.083	44.971	33.932	183.503	4.878	0.648	12.666	201.695
1981-1985	9.172	34.995	7.061	10.074	61.303	0.901	0.184	0.203	62.591
1986	11.571	13.628	2.985	4.656	32.840	0.837	0.000	0.006	33.683
1987	5.338	42.182	2.368	4.838 ^{c/}	54.726	2.381	0.000	0.000	57.107
1988	3.282	32.782	14.233	21.941 ^{c/}	72.238	1.386	0.000	0.000	73.624
1989	3.160	36.773	0.000	0.282	40.215	2.130	0.000	0.000	42.345
1990	2.095	11.054	1.669	16.286	31.104	0.423	0.000	0.000	31.527
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 ^{b/}	0.000	0.079	1.690	4.160	5.929	0.000	0.000	0.000	5.929
1999 ^{b/}	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
 COHO (thousands)									
1976-1980	136.924	207.455	203.328	155.834	703.541	21.460	1.595	15.218	741.814
1981-1985	32.087	50.907	27.216	42.272	152.482	8.260	0.033	0.876	161.651
1986	45.602	2.588	7.806	19.040	75.036	0.346	0.000	0.501	75.883
1987	10.844	34.992	0.350	1.171 ^{d/}	47.357	1.425	0.000	0.000	48.782
1988	0.000	0.002	0.000	2.229 ^{d/}	2.231	2.124	0.000	0.016	4.371
1989	16.036	0.020	0.000	41.089	57.145	3.484	0.000	0.000	60.629
1990	22.576	24.862	8.401	34.287 ^{e/}	90.126	0.126	0.000	0.000	90.252
1991	16.248	12.393	1.405	24.124 ^{e/}	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 ^{b/}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999 ^{b/}	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

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 River	Grays Harbor	Quillayute	Cape Flattery ^{a/}	Washington Subtotal	Oregon	California	Alaska	Total
PINK (thousands)									
1976-1980 ^{f/}	3.598	27.218	143.276	238.787	412.878	1.829	0.000	2.380	417.087
1981-1985 ^{f/}	1.272	7.589	22.914	107.620	139.394	0.342	0.001	0.263	140.000
1987	0.087	0.390	0.728	1.524	2.729	0.012	0.000	0.000	2.741
1989	0.002	0.434	0.000	36.263	36.699	0.026	0.000	0.000	36.725
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

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

b/ Preliminary.

c/ Includes 300 chinook landed in illegal fishing.

d/ Includes 2,200 coho landed in illegal fishing.

e/ Includes 100 coho landed in illegal fishing.

f/ Odd-year average.

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

Year or Average	May	June	July	Aug.	Sept. ^{b/}	Total
DAYs FISHED (thousands)						
<u>Cape Flattery^{c/}</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	0.233	0.004	0.316	0.307	0.000	0.860
1987	0.263	0.000	0.012	0.007	0.000	0.282
1988	0.576	0.464	0.003	0.024	0.000	1.067
1989	0.000	0.000	0.000	0.860	0.001	0.861
1990	0.848	0.065	0.001	0.657	0.000	1.571
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 ^{d/}	0.087	0.008	0.000	0.000	0.000	0.095
1999 ^{d/}	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
<u>Quillayute</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	0.141	0.009	0.094	0.105	0.000	0.349
1987	0.126	0.000	0.005	0.000	0.000	0.131
1988	0.405	0.307	0.000	0.000	0.000	0.712
1989	0.000	0.000	0.000	0.000	0.000	0.000
1990	0.072	0.013	0.000	0.209	0.015	0.309
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 ^{d/}	0.034	0.004	0.000	0.000	0.000	0.038
1999 ^{d/}	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
<u>Grays Harbor</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	1.504	0.002	0.024	0.081	0.000	1.611
1987	1.379	0.000	0.855	0.000	0.000	2.234
1988	2.443	1.255	0.000	0.000	0.002	3.700
1989	2.151	1.068	0.000	0.002	0.000	3.221
1990	1.136	0.131	0.001	1.063	0.000	2.331
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 ^{d/}	0.006	0.000	0.000	0.000	0.000	0.006
1999 ^{d/}	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

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

Year or Average	May	June	July	Aug.	Sept. ^{b/}	Total
DAY'S FISHED (thousands)						
Columbia River						
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	0.482	0.000	0.316	0.637	0.000	1.435
1987	0.194	0.000	0.284	0.000	0.000	0.478
1988	0.189	0.128	0.000	0.000	0.000	0.317
1989	0.098	0.042	0.000	0.302	0.480	0.922
1990	0.021	0.012	0.000	0.495	0.675	1.203
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 ^{d/}	0.000	0.000	0.000	0.000	0.000	0.000
1999 ^{d/}	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
Total All Areas						
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	2.360	0.015	0.750	1.130	0.000	4.255
1987	1.962	0.000	1.156	0.007	0.000	3.125
1988	3.613	2.154	0.003	0.024	0.002	5.796
1989	2.249	1.110	0.000	1.164	0.481	5.004
1990	2.077	0.221	0.002	2.424	0.690	5.414
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 ^{d/}	0.127	0.012	0.000	0.000	0.000	0.139
1999 ^{d/}	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

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

b/ Data for Sept. include any effort after Sept.

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

d/ Preliminary.

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

Year or Average	May	June	July	Aug.	Sept. ^{b/}	Total	May	June	July	Aug.	Sept. ^{b/}	Total	CHINOOK (thousands)						COHO (thousands)						PINKS (thousands in odd years)					
Cape Flattery ^{c/}																														
1976-1980	6.781	3.805	12.440	8.782	2.124	33.932	0.000	3.850	66.954	58.596	26.434	155.834	0.044	0.235	42.002	192.168	4.336	238.786												
1981-1985	3.293	0.319	5.031	1.423	0.008	10.074	0.000	0.000	26.379	15.852	0.041	42.272	0.113	0.013	12.112	95.105	0.277	107.620												
1986	3.459	0.050	0.282	0.865	0.000	4.656	0.000	6.124	12.916	0.000	19.040																			
1987	4.747	0.000	0.081	0.010	0.000	4.838	0.000	0.848	0.323	0.000	1.171	0.000	0.000	0.781	0.743	0.000	1.524													
1988 ^{d/}	10.040	11.602	0.057	0.242	0.000	21.941	0.000	0.000	0.381	1.848	0.000	2.229	0.000	0.000	0.000	0.000	0.000	36.263	0.000	36.263										
1989	0.000	0.000	0.000	0.268	0.014	0.282	0.000	0.000	41.070	0.019	41.089																			
1990	14.381	0.888	0.000	1.017	0.000	16.286	0.000	0.000	0.002	34.285	0.000	34.287	0.000	0.006	0.016	0.006	40.636	0.282	40.943											
1991 ^{e/}	8.814	5.470	0.009	0.579	0.366	15.238	0.000	0.000	0.103	18.647	5.374	24.124	0.003	0.016	0.006	0.006	0.000	0.000	0.000	0.000										
1992	9.073	6.191	0.979	0.833	0.000	17.076	0.000	0.000	4.571	3.093	0.000	7.864	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000										
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	0.011	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	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	0.003	0.000	0.003	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	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
1997	3.236	0.549	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
1998	4.043	0.117	0.000	0.000	0.000	0.000	4.160	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	0.000	0.000			
1999 ^{f/}	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
2000 ^{f/}	5.462	2.086	0.000	0.000	0.000	7.548	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	0.000	0.000				
Quillayute																														
1976-1980	6.487	5.777	19.674	10.996	2.038	44.971	0.003	9.374	112.61	63.373	17.961	203.328	0.280	0.432	39.294	102.976	0.292	143.276												
1981-1985	1.879	0.154	3.977	1.050	0.000	7.061	0.000	0.000	23.686	3.530	0.000	27.216	0.039	0.000	7.150	15.723	0.002	22.914												
1986	1.910	0.085	0.253	0.737	0.000	2.985	0.000	0.000	2.067	5.739	0.000	7.806	0.000	0.000	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
1987	2.328	0.000	0.040	0.000	0.000	2.368	0.000	0.000	0.350	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				
1988	7.753	6.480	0.000	0.000	0.000	14.233	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	0.000	0.000				
1989	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				
1990	0.910	0.158	0.000	0.590	0.011	1.869	0.000	0.000	8.385	0.016	8.401																			
1991	0.414	0.399	0.000	0.104	0.011	0.928	0.000	0.000	1.154	0.251	1.405	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				
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	0.000	0.000	1.701	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
1993	0.805	0.635	0.332	0.063	0.000	1.835	0.000	0.000	1.344	0.357	0.000	2.049	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				
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	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	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				
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	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	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 ^{f/}	0.128	0.000	0.336	0.150	0.000	0.614	0.000	0.000	0.035	0.394	0.328	1.257	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				
2000 ^{f/}	1.072	0.341	0.000	0.000	0.000	1.413	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	0.000	0.000				

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

Year or Average	May	June	July	Aug.	Sept. ^{b/}	Total	May	June	July	Aug.	Sept. ^{b/}	Total	May	June	July	Aug.	Sept. ^{b/}	Total	
							CHINOOK (thousands)						COHO (thousands)						PINKS (thousands in odd years)
Grays Harbor	28.493	15.087	18.923	13.306	5.274	81.083	0.020	13.96	123.24	52.640	17.592	207.455	0.239	0.053	13.298	13.510	0.118	27.217	
1976-1980	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	
1981-1985	13.182	0.028	0.046	0.372	0.000	13.628	0.000	0.000	0.440	2.148	0.000	2.588	0.000	0.000	0.390	0.000	0.000	0.390	
1986	24.543	0.000	17.639	0.000	0.000	42.182	0.000	0.000	34.992	0.000	0.000	34.992	0.002	0.000	0.000	0.000	0.000	0.434	
1987	22.219	10.550	0.000	0.000	0.013	32.782	0.002	0.000	0.000	0.000	0.000	0.000	0.229	0.182	0.000	0.023	0.000	0.434	
1988	22.220	14.553	0.000	0.000	0.000	36.773	0.000	0.000	0.000	0.000	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.434	
1989	7.714	0.780	0.001	2.559	0.000	11.054	0.000	0.000	0.000	24.862	0.000	24.862	0.001	0.001	0.000	0.005	0.005	0.007	
1990	4.414	6.483	0.000	0.160	0.214	11.271	0.000	0.000	0.000	5.526	6.867	12.393	5.153	0.002	0.000	0.004	0.006	0.003	0.015
1991	8.961	4.375	3.130	1.812	0.000	18.278	0.000	0.000	2.716	2.437	0.000	5.153	0.000	0.000	0.000	0.000	0.000	0.000	
1992	4.980	4.622	0.483	0.602	1.484	12.171	0.000	0.000	1.220	2.128	5.173	8.521	0.000	0.000	0.000	0.000	0.000	0.000	
1993	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	
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	0.001	
1997	0.241	0.098	0.000	0.000	0.000	0.000	0.000	0.000	0.339	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
1998	0.079	0.000	0.000	0.000	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	0.002	
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	0.000	
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	0.000	0.000	0.000	0.000	0.000	0.000	
Columbia River	7.990	5.095	3.933	3.312	3.187	23.517	0.002	18.97	71.700	28.995	17.249	136.924	0.005	0.005	1.817	1.348	0.423	3.598	
1976-1980	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	
1981-1985	8.135	0.000	0.384	3.102	0.000	11.571	0.000	0.000	12.165	33.437	0.000	45.602	0.000	0.000	0.087	0.000	0.000	0.087	
1986	4.014	0.000	1.324	0.000	0.000	5.338	0.000	0.000	10.844	0.000	0.000	10.844	0.000	0.000	0.000	0.000	0.000	0.000	
1987	1.662	1.620	0.000	0.000	0.000	3.282	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
1988	1.044	0.917	0.000	0.496	0.703	3.160	0.000	0.000	0.000	0.000	5.398	10.638	16.036	0.000	0.000	0.000	0.001	0.001	0.002
1989	0.135	0.166	0.000	0.623	1.171	2.095	0.000	0.000	0.000	0.000	7.163	15.413	22.576	0.000	0.000	0.000	0.059	0.000	0.059
1990	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	0.000	0.000	0.000	
1991	2.584	0.038	0.093	0.015	0.000	2.730	0.000	0.000	0.783	0.301	0.000	1.084	0.000	0.000	0.000	0.000	0.000	0.000	
1992	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	
1993	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	
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	0.000	0.000	0.000	0.027	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	2.414	0.385	2.799	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

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

Year or Average	May	June	July	Aug.	Sept. ^{b/}	Total	May	June	July	Aug.	Sept. ^{b/}	Total	COHO (thousands)						PINKS (thousands in odd years)					
													CHINOOK (thousands)						COHO (thousands)					
Total All Areas																								
1976-1980	49.751	29.784	54.970	36.395	12.624	183.504	0.026	46.16	374.51	203.60	79.236	703.541	0.568	0.726	96.412	310.003	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	152.482	0.234	0.033	24.858	113.990	0.279	139.394						
1986	26.686	0.163	0.915	5.076	0.000	32.840	0.000	0.000	20.796	54.240	0.000	75.036	0.000	0.000	1.986	0.743	0.000	2.729						
1987	35.632	0.000	19.084	0.010	0.000	54.726	0.000	0.000	47.034	0.323	0.000	47.357	0.000	0.000	2.231									
1988	41.674	30.252	0.057	0.242	0.013	72.238	0.002	0.000	0.381	1.848	0.000	2.231	0.229	0.182	0.000	36.287	0.001	36.699						
1989	23.264	15.470	0.000	0.764	0.717	40.215	0.000	0.000	0.000	46.488	10.657	57.145												
1990	23.140	1.992	0.001	4.789	1.182	31.104	0.000	0.000	0.002	74.695	15.429	90.126												
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	43.261	0.295	43.583						
1992	22.161	12.631	5.338	3.498	0.000	43.628	0.000	0.000	10.272	7.407	0.000	17.679												
1993	14.359	10.626	2.632	0.953	1.502	30.072	0.000	0.000	4.918	3.625	5.380	13.923	0.016	0.001	0.088	2.742	0.014	2.861						
1994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000												
1995	0.000	0.000	0.000	0.003	0.000	0.003	0.000	0.000	0.000	18.366	7.060	25.426	0.000	0.000	0.000	30.060	0.872	30.932						
1996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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 ^{f/}	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 ^{f/}	6.534	2.427	0.000	1.265	0.043	10.269	0.000	0.000	4.833	0.434	5.267													

^{a/} Summary of WDFW fish receiving ticket information by statistical month excluding Washington landings from Oregon, California and Alaska.^{b/} Data for Sept. include any catch after Sept.^{c/} Cape Flattery area includes effort and catches from Strait of Juan de Fuca Area 4B.^{d/} Includes 2,200 coho and 300 chinook landed illegally.^{e/} Includes 100 coho landed illegally.^{f/} Preliminary.

TABLE A-14. Treaty Indian commercial troll salmon fishing effort (in deliveries) by catch area and statistical month. (Page 1 of 3)

Year	Jan. Thru Sept.						Nov. Thru Dec.		Total May Thru Sept.	Year Total
	Apr.	May	June	July	Aug.	Sept.	Oct.	Dec.		
DELIVERIES										
Area 4B										
1976	516	47	28	23	17	4	1	62	119	698
1977	613	31	73	47	84	49	4	82	284	983
1978	819	114	123	28	86	50	12	119	401	1,351
1979	482	67	65	78	105	18	2	76	333	893
1980	665	13	14	24	14	11	4	122	76	867
1981	839	109	65	45	69	19	12	224	307	1,382
1982	1,099	109	62	77	113	36	29	80	397	1,605
1983	1,546	293	143	118	115	16	12	114	685	2,357
1984	1,108	128	52	28	6	0	31	101	214	1,454
1985	688	136	2	27	8	8	36	66	181	971
1986	425	145	69	62	42	2	0	60	320	805
1987	691	125	0	44	55	0	4	145	224	1,064
1988	731	590	316	56	139	3	0	129	1,104	1,964
1989	528	328	176	168	138	56	0	250	866	1,644
1990	550	366	522	155	540	39	0	85	1,622	2,257
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 a/	204	36	84	2	23	11	0	7	156	367
1997 a/	31	39	40	0	48	7	0	3	134	168
1998 a/	17	13	3	0	21	6	0	4	43	64
1999 a/	16	27	22	0	25	1	0	1	75	92
2000 a/	9	32	41	0	8	0	0	1	81	91
Area 4										
1976	0	3	69	189	92	37	6	9	390	405
1977	9	80	69	49	121	25	0	0	344	353
1978	1	3	56	31	11	8	0	0	109	110
1979	2	14	12	41	63	4	1	0	134	137
1980	0	4	100	79	24	9	3	0	216	219
1981	0	1	49	75	80	185	7	2	390	399
1982	0	6	168	307	494	447	5	0	1,422	1,427
1983	0	11	220	175	564	297	0	0	1,267	1,267
1984	0	38	25	148	182	0	6	0	393	399
1985	1	25	32	206	207	154	1	0	624	626
1986	0	45	94	274	80	0	0	0	493	493
1987	0	190	0	256	311	0	0	0	757	757
1988	3	30	203	372	467	98	0	0	1,170	1,173
1989	0	105	250	242	156	127	0	0	880	880
1990	0	123	115	187	198	123	0	1	746	747
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 a/	1	28	19	0	45	85	0	0	177	178
1997 a/	0	11	88	0	77	30	0	0	206	206
1998 a/	0	47	17	2	22	32	0	3	120	123
1999 a/	0	49	65	6	72	105	0	0	297	297
2000 a/	0	38	65	0	39	0	0	0	142	142

TABLE A-14. Treaty Indian commercial troll salmon fishing effort (in deliveries) by catch area and statistical month. (Page 2 of 3)

Year	Jan. Thru		June	July	Aug.	Sept	Oct.	Nov. Thru	Total May	Year Total							
	Apr.	May							Dec.								
DELIVERIES																	
Area 3																	
1976	0	2	24	34	19	8	0	0	87	87							
1977	0	4	10	34	38	14	0	0	100	100							
1978	0	7	21	20	17	7	0	0	72	72							
1979	0	12	16	30	31	0	0	0	89	89							
1980	0	18	35	37	18	0	0	0	108	108							
1981	0	18	21	46	28	40	0	0	153	153							
1982	0	6	15	24	57	17	0	0	119	119							
1983	0	16	34	33	39	0	0	0	122	122							
1984	0	4	1	41	46	0	0	0	92	92							
1985	0	2	12	84	54	24	0	0	176	176							
1986	0	11	69	87	31	0	0	0	198	198							
1987	0	14	0	37	101	0	0	0	152	152							
1988	0	61	49	61	98	10	0	0	279	279							
1989	0	17	18	66	54	39	0	0	194	194							
1990	0	28	19	110	196	52	0	0	405	405							
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 a/	0	0	0	0	3	6	0	0	9	9							
1997 a/	0	0	0	0	0	0	0	0	0	0							
1998 a/	0	0	1	0	4	0	0	0	5	5							
1999 a/	0	0	2	0	3	0	0	0	5	5							
2000 a/	0	0	0	0	0	0	0	0	0	0							
Area 2																	
1976	0	4	3	4	0	0	0	0	11	11							
1977	0	0	0	0	7	1	0	0	8	8							
1978	0	0	0	0	0	0	0	0	0	0							
1979	0	1	0	27	29	0	0	0	57	57							
1980	0	0	0	12	19	0	0	0	31	31							
1981	0	5	14	51	15	0	0	0	85	85							
1982	0	14	14	36	26	8	0	0	98	98							
1983	0	8	5	2	1	0	0	0	16	16							
1984	0	3	1	2	52	0	0	0	58	58							
1985	0	23	5	31	37	0	0	0	96	96							
1986	0	9	60	44	0	0	0	0	113	113							
1987	0	22	0	42	73	0	0	0	137	137							
1988	0	23	32	118	196	43	0	0	412	412							
1989	0	24	55	118	33	39	0	0	269	269							
1990	0	9	28	49	25	5	0	0	116	116							
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 a/	0	0	1	0	19	12	0	0	32	32							
1997 a/	0	0	1	0	26	6	0	0	33	33							
1998 a/	0	4	1	0	3	0	0	0	8	8							
1999 a/	0	1	7	0	1	0	0	0	9	9							
2000 a/	0	0	3	0	6	0	0	0	9	9							

TABLE A-14. Treaty Indian commercial troll salmon fishing effort (in deliveries) by catch area and statistical month. (Page 3 of 3)

Year	Jan. Thru		June	July	Aug.	Sept	Oct.	Nov. Thru	Total May	Year Total
	Apr.	May							Dec.	
DELIVERIES										
Total Treaty Troll										
1980	665	35	149	152	75	20	7	122	431	1,225
1981	839	133	149	217	192	244	19	226	935	2,019
1982	1,099	135	259	444	690	508	34	80	2,036	3,249
1983	1,546	328	402	328	719	313	12	114	2,090	3,762
1984	1,108	173	79	219	286	0	37	101	757	2,003
1985	689	186	51	348	306	186	37	66	1,077	1,869
1986	425	210	292	467	153	2	0	60	1,124	1,609
1987	691	351	0	379	540	0	4	145	1,270	2,110
1988	734	704	600	607	900	154	0	129	2,965	3,828
1989	528	474	499	594	381	261	0	250	2,209	2,987
1990	550	526	684	501	959	219	0	86	2,889	3,525
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 a/	205	64	104	2	90	114	0	7	374	586
1997 a/	31	50	129	0	151	43	0	3	373	407
1998 a/	17	64	22	2	50	38	0	7	176	200
1999 a/	16	77	96	6	101	106	0	1	386	403
2000 a/	9	70	109	0	53	0	0	1	232	242

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 Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. to Dec.	CHINOOK			COHO			Nov. to Dec.	Total May to Sept.	Total Year Total				
									Total	Total May to Sept.	Year Total	Jan. to Apr.	May	June	July	Aug.	Sept.				
Area 4B																					
1976-	8,512	360	640	98	103	26	10	776	1,228	10,525	406	22	499	191	249	148	5	1,109	1,582		
1981-	13,109	1,066	248	94	49	57	151	788	1,514	15,562	42	245	184	825	1,014	222	6	2,489	2,560		
1986	3,299	1,243	539	86	79	0	0	615	1,947	5,861	6	0	221	2,090	4,704	13	0	8	7,028	7,042	
1987	8,410	1,044	0	87	218	0	52	1,530	1,349	11,341	31	1	0	2,136	2,970	0	33	0	5,107	5,171	
1988	6,958	5,080	1,903	189	68	2	0	1,265	7,242	15,465	3	0	101	151	4,379	21	0	15	4,652	4,670	
1989	4,395	2,409	1,602	580	173	109	0	8,741	4,873	18,009	1	0	0	4,559	3,941	3,085	0	32	11,585	11,618	
1990	6,982	2,924	4,685	479	1,075	206	8	1,234	9,369	17,593	2	0	1	1,814	22,833	944	1	8	25,592	25,603	
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	985	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	0	0	0	0	0	0	
1996	2,555	437	1,440	120	75	106	0	81	2,178	4,814	0	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	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	0	434	145	0	0	579	579
1999	237	386	144	0	132	0	0	15	662	914	0	0	0	0	0	1,048	0	0	0	1,048	1,048
2000 ^{a/}	135	298	299	0	8	0	0	10	605	750	0	0	0	0	0	207	0	0	0	207	207
Cape Flattery																					
1976-	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-	0	520	1,191	2,405	673	772	54	11	5,561	5,626	0	8	4,647	9,017	16,514	13,404	18	0	43,590	43,608	
1986	0	1,829	1,239	1,890	250	0	0	0	5,208	5,208	0	0	517	28,925	5,089	0	0	0	33,631	33,631	
1987	0	3,869	0	1,443	4,163	0	0	0	9,475	9,475	0	15	0	30,832	21,559	0	0	0	52,406	52,406	
1988	32	352	3,774	3,560	4,619	952	0	0	13,257	13,289	0	0	13	3,352	23,668	6,513	0	0	33,546	33,546	
1989	0	3,181	4,647	3,841	3,080	529	0	0	15,278	15,278	0	1	0	11,869	13,245	17,247	0	0	42,362	42,362	
1990	0	3,773	1,923	4,837	1,143	1,943	0	1	13,619	13,620	0	0	0	10,699	20,627	12,447	0	0	43,143	43,143	
1991	0	3,452	4,795	5,495	2,361	0	0	0	16,103	16,103	0	0	0	29,190	14,255	0	0	0	43,445	43,445	
1992	0	8,106	3,284	3,616	2,298	0	0	80	17,304	17,384	0	2	3	30,710	16,685	0	0	5	47,410	47,410	
1993	0	7,014	4,106	5,024	1,988	2,447	0	0	20,579	20,579	0	1	0	3,476	13,285	24,380	0	0	41,142	41,142	
1994	0	104	1,841	1	0	0	0	0	1,946	1,946	0	0	0	0	0	0	0	0	0	0	
1995	0	540	0	23	6,926	0	0	0	7,489	7,489	0	0	0	0	0	24,812	0	0	0	24,812	24,812
1996	6	997	534	0	4,732	3,421	0	0	9,684	9,680	0	0	0	0	0	2,937	12,054	0	0	14,991	14,991
1997	0	175	7,053	0	3,451	888	0	0	11,567	11,567	0	0	0	0	0	6,008	3,411	0	0	9,419	9,419
1998	0	5,056	4,358	47	3,470	1,118	0	85	14,049	14,134	0	0	0	74	3,115	4,017	0	0	7,206	7,206	
1999	0	2,142	16,781	0	3,887	3,619	0	0	26,429	26,429	0	0	0	0	0	11,932	20,196	0	0	32,128	32,128
2000 ^{a/}	0	2,584	0	0	1,329	0	0	0	6,607	6,607	0	0	0	0	0	21,193	0	0	0	21,193	21,193

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	
									CHINOOK	COHO									CHINOOK	COHO	
<u>Quillayute</u>																					
1976-	0	118	243	483	141	27	203	11	1,011	1,225	0	641	3,216	1,184	473	34	1,06	20	5,548	6,631	
1981-	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	0	613	1,700	1,450	87	0	0	0	3,850	3,850	0	0	13,472	17,409	1,913	0	0	0	32,794	32,794	
1987	0	1,240	0	353	1,679	0	0	0	3,272	3,272	0	0	0	8,566	13,729	0	0	0	0	22,285	
1988	0	1,868	2,136	1,150	427	73	0	0	5,654	5,654	0	0	0	4,536	6,744	2,041	0	0	0	13,321	
1989	0	824	649	2,502	1,089	724	0	0	5,788	5,788	0	0	0	4,439	3,020	6,455	0	0	0	13,914	
1990	0	700	234	4,767	498	499	0	0	6,688	6,688	0	0	0	7,200	9,698	2,755	0	0	0	19,653	
1991	0	189	212	534	1,659	0	0	0	2,594	2,594	0	0	0	4,936	15,520	0	0	0	0	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	0	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	0	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	0	18	0	0	18	18	0	0	0	0	0	0	0	0	0	237	
1996	0	0	0	0	6	44	0	0	50	50	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	115	
1999	0	0	42	0	62	0	0	0	104	104	0	0	0	0	0	0	0	0	0	143	
2000 ^{a/}	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<u>Grays Harbor</u>																					
1976-	0	30	25	6	10	0	0	0	71	71	0	0	0	35	58	0	0	0	93	93	
1980-	0	280	123	308	103	6	0	0	820	820	0	0	0	353	1,252	557	199	0	0	2,361	
1986	0	614	24	390	148	0	0	0	1,176	1,176	0	0	0	6,956	4,098	0	0	0	0	11,054	
1987	0	2,288	0	298	1,206	0	0	0	3,792	3,792	0	0	0	0	4,085	5,689	0	0	0	9,784	
1988	0	275	1,943	1,480	1,711	941	0	0	6,350	6,350	0	0	0	0	3,774	11,445	1,592	0	0	16,811	
1989	0	297	747	3,188	955	220	0	0	5,407	5,407	0	0	0	0	10,941	3,293	1,803	0	0	16,037	
1990	0	102	1,064	1,187	42	42	0	0	2,437	2,437	0	0	0	0	1,597	667	339	0	0	2,603	
1991	0	58	565	749	150	0	0	0	1,522	1,522	0	0	0	0	3,880	1,551	0	0	0	5,381	
1992	0	11	10	30	4	0	0	0	55	55	0	0	0	0	96	38	0	0	0	134	
1993	0	6	159	1,285	372	0	0	0	1,822	1,822	0	0	0	0	1,763	5,526	1,141	0	0	8,430	
1994	0	541	0	0	0	0	0	0	541	541	0	0	0	0	0	0	0	0	0	0	
1995	0	0	0	0	0	1,580	0	0	0	1,580	0	0	0	0	2,634	0	0	0	0	2,634	
1996	0	39	0	304	52	0	0	0	395	395	0	0	0	0	663	1,041	0	0	0	1,704	
1997	0	0	17	0	864	222	0	0	1,103	1,103	0	0	0	0	1,792	653	0	0	0	2,445	
1998	0	41	35	0	104	0	0	0	180	180	0	0	0	0	107	0	0	0	0	107	
1999	0	8	189	0	20	0	0	0	217	217	0	0	0	0	28	0	0	0	0	28	
2000 ^{a/}	0	0	246	0	167	0	0	0	413	413	0	0	0	0	774	0	0	0	0	774	

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	Jan. to Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. to Dec.	Total May to Sept.	Jan. to Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. to Dec.	Total May to Sept.	Year Total	
										CHINOOK	COHO	CHINOOK	COHO	CHINOOK	COHO	CHINOOK	COHO	CHINOOK	COHO	
Total Treaty Troll																				
1976- 1981-	8,515 13,109	543 2,109	2,067 1,883	1,870 3,633	462 1,326	94 1,046	219 205	796 799	5,036 9,988	14,566 24,110	407 42	720 283	7,237 7,435	2,893 16,388	1,261 24,473	438 16,680	1,07 41	83 6	12,550 65,259	14,115 65,347
1986	3,299	4,299	3,502	3,816	584	0	615	12,181	16,095	6	0	21,166	51,622	11,706	13	0	8	84,507	84,521	
1987	8,410	8,441	0	2,181	7,266	0	52	1,530	17,888	27,980	31	16	0	45,619	43,957	0	33	0	89,592	89,656
1988	6,990	7,575	9,756	6,379	6,825	1,968	0	1,285	32,503	40,758	3	0	114	11,813	46,236	10,167	0	15	68,330	68,348
1989	4,395	6,711	7,645	10,111	5,297	1,582	0	8,741	31,346	44,482	1	1	0	31,808	23,499	28,590	0	32	83,888	83,931
1990	6,982	7,499	7,906	11,270	2,748	2,690	8	1,235	32,113	40,338	2	0	1	20,680	53,825	16,485	1	8	90,981	91,002
1991	5,203	4,439	5,990	6,875	4,497	0	147	716	21,801	27,867	8	0	0	38,943	38,011	0	498	15	76,984	77,475
1992	4,131	8,781	5,538	4,724	4,027	0	0	3,187	23,070	30,388	0	2	3	40,215	35,369	0	15	23	75,589	75,627
1993	6,498	7,578	5,367	5,827	3,718	2,943	0	562	25,433	32,493	1	1	0	7,007	25,459	26,679	0	0	59,146	59,147
1994	1,116	449	4,009	5	0	0	99	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	0	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	0	0	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	0	0	0	0	15,660	15,660
1998	97	5,189	4,442	47	3,823	1,136	0	125	14,637	14,859	0	0	0	74	3,771	4,162	0	0	8,007	8,007
1999	237	2,536	17,156	0	4,101	3,619	0	15	27,412	27,864	0	0	0	0	13,151	20,196	0	0	33,347	33,347
2000 ^{a/}	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

^{a/} Preliminary.

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 1)

Year or Average	Jan. Through Apr.						Nov. Through Dec.		Total May Through Sept.	Year Total
	May	June	July	Aug.	Sept.	Oct.				
PINKS										
<u>Area 4B</u>										
1976-1980	0	2	267	158	648	15	0	0	1,090	1,090
1981-1985	0	23	2	108	698	7	0	0	838	838
1986-1990	0	0	0	1,394	642	142	0	0	2,178	2,178
1989	0	0	0	2,542	664	283	0	0	3,489	3,489
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 ^{a/}	0	0	0	0	475	4	0	0	479	479
<u>Cape Flattery</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
1989	0	0	8	4,417	1,869	754	0	0	7,048	7,048
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 ^{a/}	0	0	0	0	987	97	0	0	1,084	1,084
<u>Quillayute</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
1989	0	6	12	225	107	129	0	0	479	479
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 ^{a/}	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
1989	0	0	0	22	27	16	0	0	65	65
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 ^{a/}	0	0	0	0	0	0	0	0	0	0
<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
1989	0	6	20	7,206	2,667	1,182	0	0	11,081	11,081
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 ^{a/}	0	0	0	0	1,462	101	0	0	1,563	1,563

a/ Preliminary.

TABLE A-17. Washington ocean recreational salmon fishing effort in angler trips by port and month.
a/
(Page 1 of 2)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
ANGLER TRIPS (thousands)								
<u>Neah Bay</u>								
1976-1980	0.6	1.1	4.1	13.0	17.9	7.0	0.5	44.2
1981-1985	0.1	0.4	1.1	9.0	13.4	3.4	0.1	27.5
1986	-	-	0.4	10.8	7.3	-	-	18.6
1987	-	-	0.6	12.2	6.4	-	-	19.2
1988	-	b/	-	13.5	1.9	0.5	-	15.9
1989	-	0.9	0.9	14.7	6.5	5.4	-	28.3
1990	-	-	b/	18.6	14.5	0.7	-	33.8
1991	-	-	b/	16.2	9.2	b/	-	25.4
1992	0.3	1.0	-	10.4	7.9	0.0	-	19.7
1993	b/	1.1	0.0	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 ^{c/}	-	-	-	2.5	4.0	1.6	0.1	8.1
2000 ^{c/}	-	-	-	5.0	4.7	1.6	-	11.4
<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	-	-	0.1	0.9	0.8	-	-	1.7
1987	-	-	0.1	1.2	0.8	-	-	2.0
1988	-	-	-	2.4	0.3	0.1	-	2.8
1989	-	0.1	0.1	1.5	-	-	-	1.6
1990	-	-	-	2.8	1.1	0.2	-	4.2
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 ^{c/}	-	-	-	1.0	1.2	0.7	b/	2.9
2000 ^{c/}	-	-	-	1.2	0.7	-	-	2.0
<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	-	-	2.0	30.1	19.3	0.9	0.1	52.4
1987	-	-	2.1	29.7	11.4	0.8	b/	43.9
1988	-	-	-	35.4	1.9	-	b/	37.3
1989	-	1.5	3.4	29.2	23.1	2.7	-	59.9
1990	-	-	7.2	26.8	22.0	13.3	-	69.3
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 ^{c/}	-	-	-	5.3	9.4	4.2	0.1	19.1
2000 ^{c/}	-	-	-	12.3	7.5	-	-	19.8

TABLE A-17. Washington ocean recreational salmon fishing effort in angler trips by port and month.^{a/} (Page 2 of 2)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
ANGLER TRIPS (thousands)								
<u>Ilwaco</u> ^{d/}								
1976-1980								
1981-1985	0.4	4.6	20.8	42.0	62.4	18.7	1.7	150.6
1986	-	-	1.1	19.6	15.9	-	-	36.6
1987	-	-	1.0	17.6	17.7	-	-	36.3
1988	-	-	-	12.2	0.6	b/	-	12.8
1989	-	0.3	0.6	22.3	29.2	-	-	52.4
1990	-	-	3.9	27.0	33.5	3.5	-	67.8
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 ^{c/}	-	-	-	-	4.3	0.4	-	4.7
1999 ^{c/}	-	-	-	4.4	11.1	5.1	b/	20.7
2000 ^{c/}	-	-	-	6.8	8.9	-	-	15.8
<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	-	-	3.6	61.4	43.2	0.9	0.1	109.3
1987	-	-	3.7	60.6	36.3	0.8	b/	101.5
1988	-	b/	-	63.5	4.8	0.7	b/	68.9
1989	-	2.7	5.0	67.7	58.8	8.1	-	142.2
1990	-	-	11.1	75.2	71.1	17.7	-	175.1
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	0.0	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	-	43.2
1997	-	-	-	16.4	12.1	1.2	-	29.7
1998 ^{c/}	-	-	-	-	18.3	1.4	-	19.7
1999 ^{c/}	-	-	-	13.3	25.7	11.5	0.2	50.8
2000 ^{c/}	-	-	-	25.4	21.9	1.6	-	48.9

a/ Summary of effort is by statistical month.

b/ Includes effort from the Washington state waters Area 4B fishery which began in 1989.

c/ Preliminary.

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

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Apr.	May	June	July	Aug.	Sept.	Oct.	Total			
CHINOOK (thousands)																COHO (thousands)			
<u>Neah Bay</u>																			
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	0.886	8.395	16.452	3.414	0.090	29.436			
1986 ^{c/}	0.000	0.002	0.116	2.595	0.537	0.000	0.000	3.250	0.000	0.000	0.550	10.522	10.687	0.000	0.000	21.759			
1987 ^{b/}	0.000	0.000	0.110	2.423	0.066	0.000	0.000	2.599	0.000	0.000	0.218	15.042	10.146	0.000	0.000	25.406			
1988	0.000	0.002	0.000	3.537	0.208	0.020	0.000	3.767	0.000	0.000	0.000	12.790	2.593	0.426	0.000	15.809			
1989 ^{c/}	0.000	0.114	0.202	1.761	0.304	0.148	0.000	2.529	0.000	0.000	0.071	20.157	11.036	8.855	0.000	40.119			
1990 ^{d/}	0.000	0.000	0.000	2.003	0.621	0.050	0.000	2.674	0.000	0.000	0.016	20.884	23.685	1.057	0.000	45.642			
1991 ^{c/}	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 ^{c/}	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 ^{c/}	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	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	0.000	0.000	0.017	0.000	12.843		
1996	0.000	0.000	0.000	0.000	0.055	0.005	0.000	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.961		
1997 ^{c/}	0.000	0.000	0.000	0.478	0.008	0.000	0.000	0.486	0.000	0.000	0.000	0.000	0.000	1.494	0.000	0.000	1.494		
1998 ^{c/}	0.000	0.000	0.000	0.000	0.103	0.000	0.000	0.103	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.062		
1999 ^{d/}	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	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	0.000	3.603	5.960	2.067	0.000	11.630		
<u>La Push</u>																			
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	0.043	0.861	2.786	0.100	0.000	0.000	3.791			
1986 ^{c/}	0.000	0.000	0.002	0.138	0.199	0.000	0.000	0.339	0.000	0.000	0.078	1.141	0.995	0.000	0.000	2.214			
1987 ^{c/}	0.000	0.000	0.017	0.193	0.004	0.000	0.000	0.214	0.000	0.030	1.478	1.233	0.000	0.000	2.741				
1988	0.000	0.000	0.000	0.527	0.034	0.013	0.000	0.574	0.000	0.000	0.000	0.000	0.000	2.243	0.453	0.071	0.000	2.767	
1989	0.000	0.009	0.012	0.205	0.000	0.000	0.000	0.226	0.000	0.000	0.002	0.000	0.000	2.177	0.000	0.000	0.000	2.179	
1990	0.000	0.000	0.000	0.450	0.133	0.017	0.000	0.600	0.000	0.000	0.000	0.000	0.000	3.608	1.421	0.1178	0.000	5.207	
1991	0.000	0.000	0.000	0.411	0.000	0.000	0.000	0.411	0.000	0.000	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	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	2.000	0.733	0.446	0.000	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	0.000	0.000	
1995	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.010	0.000	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	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.802	0.809	0.000	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	0.057	0.000	0.000	0.000	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	0.000	0.000	0.000	0.000	0.000	0.577	
1999 ^{d/}	0.000	0.000	0.000	0.396	0.488	0.100	0.000	0.984	0.000	0.000	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	0.000	0.000	0.965	0.961	0.000	0.000	1.926	

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
CHINOOK (thousands)								COHO (thousands)								
Westport																
1976-1980	1,395	5,479	20,759	18,01	15,844	5,707	0,743	67,945	0,217	12,221	43,808	89,416	63,127	21,910	1,819	232,518
1981-1985	0,000	1,429	13,435	17,39	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	0,000	0,000	0,503	7,899	6,887	0,000	0,000	15,289	0,000	0,000	3,096	49,662	29,310	0,943	0,086	83,097
1987	0,000	0,000	2,985	20,49	6,239	0,017	0,000	29,733	0,000	0,000	0,369	27,590	13,473	0,044	0,003	41,479
1988	0,000	0,000	0,000	12,52	0,914	0,000	0,000	13,442	0,000	0,000	45,936	2,608	0,000	0,000	48,544	
1989	0,000	0,667	1,383	3,971	4,419	1,222	0,000	11,662	0,000	0,019	0,012	46,172	38,182	3,880	0,000	88,265
1990	0,000	0,000	1,283	6,780	5,399	3,367	0,000	16,829	0,000	0,000	5,402	31,267	29,407	20,026	0,000	86,102
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	
1995	0,000	0,000	0,000	0,012	0,033	0,046	0,000	0,091	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	0,008	0,000	0,016	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 ^d	0,000	0,000	0,000	2,271	3,103	1,191	0,020	6,585	0,000	0,000	4,060	7,264	1,219	0,052	12,595	
2000 ^d	0,000	0,000	0,000	4,153	2,183	0,000	0,000	6,336	0,000	0,000	18,554	10,240	0,000	0,000	28,794	
Iwaco ^{a/}																
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	0,000	0,000	0,051	0,982	1,192	0,000	0,000	2,225	0,000	0,000	2,156	36,721	28,811	0,000	0,000	67,688
1987	0,000	0,000	0,187	2,845	4,934	0,000	0,000	7,966	0,000	0,000	1,632	26,336	26,336	0,000	0,000	54,304
1988	0,000	0,000	0,000	1,088	0,064	0,004	0,000	1,156	0,000	0,000	20,834	0,904	0,066	0,000	21,804	
1989	0,000	0,000	0,111	0,476	0,731	4,123	0,000	5,441	0,000	0,000	0,024	39,904	42,363	0,000	0,000	82,291
1990	0,000	0,000	0,000	0,218	3,327	6,204	0,148	0,000	9,897	0,000	0,739	40,527	36,471	4,161	0,000	87,898
1991	0,000	0,000	0,000	0,171	1,180	0,941	0,052	0,000	2,344	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	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	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	
1995	0,000	0,000	0,000	0,040	0,187	0,045	0,000	0,272	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	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	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	4,025	0,348	0,000	0,000	4,373	
1999 ^d	0,000	0,000	0,000	0,495	1,507	0,316	0,000	2,318	0,000	0,000	5,171	9,486	4,906	0,020	19,583	
2000 ^d	0,000	0,000	0,000	0,748	0,800	0,000	0,000	1,548	0,000	0,000	11,455	14,394	0,000	0,000	25,849	

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Apr.	May	June	July	Aug.	Sept.	Oct.	Total		
CHINOOK (thousands)															COHO (thousands)			
Total All Areas																		
1976-1980	1.946	8.334	31.259	28.90	34.363	8.801	1.028	114.63	0.638	18.611	89.239	178.59	164.21	56.656	3.873	511.827		
1981-1985	0.057	1.667	16.432	23.30	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	0.000	0.002	0.672	11.61	8.815	0.000	0.000	21.103	0.000	0.000	5.880	98.046	69.803	0.943	0.086	174.758		
1987	0.000	0.000	3.299	25.95	11.243	0.017	0.000	40.512	0.000	0.000	2.249	70.446	51.188	0.044	0.003	123.930		
1988	0.000	0.002	0.000	17.68	1.220	0.037	0.000	18.939	0.000	0.000	81.803	6.558	0.563	0.000	88.924			
1989	0.000	0.901	2.073	6.668	8.846	1.370	0.000	19.858	0.000	0.019	0.109	108.41	91.581	12.735	0.000	212.854		
1990	0.000	0.000	1.501	12.56	12.357	3.582	0.000	30.000	0.000	0.000	12.157	96.286	90.984	25.422	0.000	224.849		
1991	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	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	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	7.200	45.545	15.507	0.000	68.252			
1996	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	0.000	0.000	0.000	1.898	1.756	0.315	0.000	3.969	0.000	0.000	14.380	11.958	0.424	0.000	26.762			
1998 ^{e/}	0.000	0.000	0.000	0.000	1.917	0.270	0.000	2.187	0.000	0.000	0.000	19.292	1.414	0.000	20.706			
1999 ^{d/}	0.000	0.000	0.000	3.162	5.098	1.607	0.020	9.887	0.000	0.000	11.348	21.031	7.674	0.072	40.125			
2000 ^{d/}	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		

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-Aug. 20).

c/ Includes catch from the Washington state-waters Area 4B fishery.

d/ Preliminary.

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

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
PINKS (thousands)								
<u>Neah Bay</u> ^{b/}								
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
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 ^{c/}	0.000	0.000	0.000	0.730	1.165	0.081	0.000	1.976
<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
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 ^{c/}	0.000	0.000	0.000	0.087	0.047	0.000	0.000	0.134
<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
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 ^{c/}	0.000	0.000	0.000	0.035	0.040	0.000	0.000	0.075
<u>Ilwaco</u> ^{d/}								
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
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 ^{c/}	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.003
<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
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 ^{c/}	0.000	0.000	0.000	0.852	1.255	0.081	0.000	2.188

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). 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 area and month. (Page 1 of 2)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
DAYs FISHED (thousands)									
Cape Falcon to Humbug Mt.									
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	2.0	1.9	-	1.7	1.0	0.6	0.1	7.5
1998	0.9	1.8	1.7	-	1.4	0.6	0.6	0.1	7.0
1999 ^{c/}	0.2	0.6	1.4	0.8	1.0	0.4	0.4	0.1	4.8
2000 ^{c/}	0.2	0.7	1.0	1.2	1.8	1.2	0.6	0.3	6.9
Humbug Mt. to Horse Mt. (KMZ)									
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	-	0.4
1998	0.0	b/	-	-	b/	0.2	0.2	-	0.4
1999 ^{c/}	-	b/	-	-	0.1	0.3	0.1	-	0.5
2000 ^{c/}	-	b/	-	-	0.1	0.2	0.1	-	0.4
Horse Mt. to U.S.-Mexico Border									
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 ^{c/}	0.1	2.6	5.0	4.8	2.2	1.6	-	-	16.3
2000 ^{c/}	-	5.1	5.8	3.0	1.7	2.0	-	-	17.6

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

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
DAYs FISHED (thousands)									
Total South of Cape Falcon									
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	8.6	3.9	5.5	4.0	2.8	0.8	0.1	26.4
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	21.6
2000 ^{c/}	0.2	5.9	6.7	4.2	3.6	3.4	0.8	0.3	25.0

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/ Less than 50 days.

c/ Preliminary.

TABLE A-21. Cape Falcon to U.S.-Mexico border commercial troll chinook and coho salmon landings in numbers of fish by catch area and month. ^{a/} (Page 1 of 2)

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season			
CHINOOK (thousands)										COHO (thousands)											
<u>Cape Falcon to Humbug Mt.</u>																					
1976-1980	-	7.9	18.4	45.9	36.6	12.3	8.5	0.1	129.7	-	b/	-	78.2	289.2	101.8	5.9	0.1	-	475.2		
1981-1985	-	13.5	7.0	44.4	23.6	6.9	2.9	b/	98.4	-	-	224.2	52.0	1.4	-	-	-	-	277.6		
1986	-	28.7	33.3	128.7	91.9	34.6	25.7	b/	342.9	-	-	375.4	-	0.1	-	-	-	375.5			
1987	-	30.1	20.6	273.0	83.6	61.6	16.1	-	485.0	-	b/	256.0	59.3	21.0	-	-	-	336.3			
1988	-	48.7	68.7	110.6	129.1	27.4	47.1	-	431.6	-	-	389.3	234.0	-	-	-	-	623.3			
1989	-	83.1	73.2	70.8	69.6	15.9	19.7	3.4	335.7	-	-	375.6	61.5	-	-	-	-	437.1			
1990	-	15.0	32.7	120.4	48.8	7.0	4.2	b/	228.1	-	-	0.1	86.7	23.8	-	-	-	110.6			
1991	-	3.3	12.6	15.8	11.7	18.0	12.4	-	73.8	-	-	91.4	191.4	b/	-	-	-	282.7			
1992	-	20.6	-	31.5	26.1	10.7	19.3	-	108.3	-	-	b/	-	23.1	25.2	b/	-	48.3			
1993	-	20.3	14.7	13.2	10.4	15.6	6.4	0.7	81.3	-	b/	b/	-	-	-	-	-	b/			
1994	-	7.7	9.7	-	-	1.2	5.5	0.4	24.5	-	-	-	-	-	-	-	-	-			
1995	-	10.6	35.9	-	98.2	38.6	28.9	0.3	212.5	-	b/	-	-	-	-	-	-	b/			
1996	-	25.6	40.5	-	60.8	26.0	14.1	0.8	167.8	-	-	-	-	-	-	-	-	-			
1997	4.4	31.0	36.2	-	44.4	25.8	5.0	0.5	147.3	-	-	-	-	-	-	-	-	-			
1998	20.0	39.7	33.7	-	20.9	5.0	3.4	0.9	123.5	-	-	-	-	-	-	-	-	-			
1999	0.8	6.1	23.5	8.1	17.1	1.8	2.5	1.2	61.0	-	-	-	-	-	-	-	-	-			
2000 ^{c/}	1.2	6.1	11.4	19.8	47.3	30.3	12.2	2.0	130.2	-	-	-	-	-	-	-	-	-			
<u>Humbug Mt. to Horse Mt. (KMZ)</u>																					
1976-1980	3.1	22.5	19.3	32.9	35.1	9.6	7.9	2.0	134.2	-	b/	21.2	82.2	81.2	20.4	4.1	0.1	b/	209.3		
1981-1985	-	31.2	13.4	26.6	44.5	10.1	3.5	1.1	130.4	-	-	3.5	7.2	25.9	17.4	0.8	-	54.8			
1986	-	3.9	37.1	16.7	41.9	3.6	1.0	0.6	104.8	-	-	18.8	9.2	0.2	b/	-	-	28.3			
1987	-	9.6	108.8	-	-	4.8	1.1	1.9	126.2	-	-	19.4	-	-	-	1.3	-	20.7			
1988	-	8.9	65.2	-	-	18.9	0.8	1.9	95.6	-	-	12.9	-	-	-	1.5	-	14.4			
1989	-	5.0	16.2	-	4.6	13.1	0.9	-	39.8	-	-	9.3	-	-	-	0.3	0.4	10.2			
1990	-	0.1	-	-	7.8	2.0	0.1	-	9.9	-	b/	4.6	5.0	-	-	0.1	1.2	b/			
1991	-	-	-	-	b/	-	-	-	-	-	-	-	-	-	-	3.0	0.1	-			
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	-	5.3	6.2	0.8	-	17.4	-	-	-	-	-	-	-	-	-			
1997	0.1	2.3	-	-	0.3	1.4	0.9	-	5.0	-	-	-	-	-	-	-	-	-			
1998	-	0.1	-	-	0.1	2.5	0.6	-	3.1	-	-	-	-	-	-	-	-	-			
1999	-	b/	-	-	0.8	2.9	0.4	-	4.2	-	-	-	-	-	-	-	-	-			
2000 ^{c/}	-	b/	-	-	1.4	3.0	0.9	-	5.3	-	-	-	-	-	-	-	-	-			

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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	CHINOOK (thousands)						COHO (thousands)						
										Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	b/	b/	b/	
Horse Mt. to U.S.-Mexico Border																						
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	-	223.4	272.8	208.0	65.1	5.5	-	-	774.9	-	-	9.2	16.1	1.8	0.1	-	-	27.2	27.2			
1987	-	264.1	222.2	202.7	84.1	15.4	-	-	788.5	-	-	9.9	17.2	-	0.2	-	-	-	27.2			
1988	-	390.1	340.2	372.5	113.0	42.1	-	-	1257.8	-	-	12.1	23.9	2.5	0.1	-	-	38.5				
1989	-	175.8	123.3	112.5	77.9	18.6	-	-	508.0	-	-	7.8	15.9	8.6	0.5	-	-	32.8				
1990	-	145.2	174.0	71.8	19.6	5.2	-	-	415.8	-	-	38.6	16.3	4.4	0.5	-	-	59.8				
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	-	-	-	-	-	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	24.9	21.8	-	-	486.2	-	-	-	-	-	-	-	-	-				
1998	-	76.3	39.4	75.5	15.8	17.8	-	-	224.8	-	-	-	-	-	-	-	-	-				
1999 ^{c/}	3.3	30.7	128.2	78.0	32.3	15.6	-	-	288.1	-	-	-	-	-	-	-	-	-				
2000 ^{c/}	-	204.7	137.1	42.7	19.3	23.5	-	-	427.4	-	-	-	-	-	-	-	-	-				
Total South of Cape Falcon										b/	23.2	175.8	387.5	125.9	10.5	0.2	38.4	723.1				
1976-1980	10.7	148.4	105.7	236.1	120.8	50.5	16.4	2.1	692.6	b/	4.0	13.0	265.4	71.9	2.4	-	23.7	356.8				
1981-1985	12.4	140.1	83.9	200.3	126.5	35.0	6.4	1.1	605.8	b/	-	28.0	400.7	2.1	0.3	-	431.0					
1986	-	256.0	343.2	353.4	199.0	43.7	26.7	0.6	1222.6	-	-	29.3	273.2	59.3	22.4	-	384.2					
1987	-	303.8	351.5	475.7	167.8	81.9	17.2	1.9	1399.7	-	-	25.0	413.1	236.5	1.6	-	676.3					
1988	-	447.7	474.1	483.1	242.1	88.4	47.9	1.9	1785.0	-	-	17.0	39.5	70.4	0.8	0.2	480.0					
1989	-	263.9	212.7	183.3	152.0	47.6	20.6	3.4	883.5	-	-	38.7	103.0	28.2	1.7	b/	171.7					
1990	-	160.3	206.6	192.2	76.3	14.2	4.2	b/	653.8	-	-	141.5	215.3	5.2	3.0	0.1	-	365.1				
1991	-	83.3	99.7	65.4	77.2	30.5	12.8	-	369.0	-	-	1.5	23.6	25.6	-	b/	-	50.7				
1992	-	72.2	19.0	52.6	68.8	39.8	19.3	-	271.7	-	-	b/	-	b/	-	b/	-	b/				
1993	-	131.4	55.1	69.0	58.8	39.6	6.4	0.7	360.9	-	-	-	-	-	-	-	-	-				
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	-	-	b/	-	-	-	-	b/	-	b/			
1996	-	125.6	173.0	95.4	94.7	52.6	14.9	0.8	557.0	-	-	-	-	-	-	-	-	-				
1997	16.4	232.3	110.8	154.0	69.6	49.0	5.9	0.5	638.5	-	-	-	-	-	-	-	-	-				
1998	20.0	116.0	73.1	75.5	36.8	25.3	4.0	0.9	351.6	-	-	-	-	-	-	-	-	-				
1999 ^{c/}	4.1	36.8	151.7	86.1	50.2	20.3	2.9	1.2	353.3	-	-	-	-	-	-	-	-	-				
2000 ^{c/}	1.2	210.8	148.5	62.5	68.0	56.9	13.1	2.0	562.8	-	-	-	-	-	-	-	-	-				

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/ Less than 50 days.

c/ Preliminary.

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

Year or Average	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	
ANGLER TRIPS (thousands)												
<u>Cape Falcon to Humbug Mt.</u>												
1976-1980	-	-	-	9.0	44.4	97.2	83.0	17.6	1.4	0.1	252.6	
1981-1985	-	-	-	2.1	13.1	78.0	49.0	8.5	0.3	-	151.1	
1986	-	-	-	2.2	10.7	85.4	15.3	-	-	-	113.7	
1987	-	-	-	-	10.9	93.0	47.0	17.6	-	-	168.5	
1988	-	-	-	2.7	19.0	80.6	69.0	20.5	-	-	191.9	
1989	-	-	-	2.0	36.5	86.8	45.8	9.6	-	-	180.7	
1990	-	-	-	1.4	15.5	67.0	69.5	16.5	-	-	169.9	
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 ^{c/}	-	-	b/	0.5	0.3	30.4	8.5	4.8	3.3	0.2	48.1	
<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	
1986	-	-	-	5.8	25.2	33.8	26.6	1.1	5.0	-	107.2	
1987	-	-	-	6.0	33.3	55.8	35.7	11.9	5.9	-	167.6	
1988	-	-	-	4.7	34.2	51.9	24.0	3.9	-	-	129.7	
1989	-	-	-	6.5	34.2	66.6	28.6	6.4	-	-	142.4	
1990	-	-	-	3.5	40.8	65.8	20.1	2.3	-	-	132.5	
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	-	-	-	5.9	8.6	6.5	11.7	1.6	1.3	-	35.6	
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 ^{c/}	-	-	-	1.2	7.5	7.7	19.9	2.5	3.2	-	42.0	
<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	2.1	13.9	18.4	12.8	22.5	34.9	23.2	7.7	4.8	0.9	141.1	
1987	8.6	18.9	17.6	13.6	17.8	38.1	31.7	14.7	7.3	1.7	170.1	
1988	11.2	15.7	19.0	19.1	28.3	39.6	22.0	8.7	4.2	0.8	168.7	
1989	9.8	15.9	35.0	14.2	22.9	30.4	22.2	11.9	4.0	1.9	168.3	
1990	10.2	20.6	30.3	8.6	27.7	39.2	15.3	10.4	5.1	3.4	170.8	
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 ^{c/}	-	-	35.3	31.8	37.3	38.8	23.8	14.9	5.3	1.5	188.7	

TABLE A-22. Cape Falcon to U.S.-Mexico border ocean recreational fishing effort in salmon angler trips by area and month. (Page 2 of 2)

Year or Average	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
ANGLER TRIPS (thousands)											
Total South of Cape Falcon											
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	2.1	13.9	18.4	20.7	58.5	154.1	65.2	8.8	9.8	0.9	362.0
1987	8.6	18.9	17.6	19.6	62.0	186.9	114.4	44.3	13.3	1.7	506.2
1988	11.2	15.7	19.0	26.5	81.5	172.2	115.1	33.2	4.2	0.8	490.4
1989	9.8	15.9	35.0	22.8	93.6	183.8	96.6	27.9	4.0	1.9	491.4
1990	10.2	20.6	30.3	13.5	84.0	171.9	105.0	29.2	5.1	3.4	473.2
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	36.3	48.5	64.0	44.8	9.7	6.3	0.4	261.0
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 ^{c/}	-	-	35.3	33.4	45.1	76.9	52.3	22.3	11.8	1.7	278.9

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/ Less than 50 trips.

c/ Preliminary.

TABLE A-23. Cape Falcon to U.S.-Mexico border ocean recreational salmon landings in numbers of fish by catch area and month. ^{a/} (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		
CHINOOK (thousands)																								
Cape Falcon to Humbug Mt.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1976-1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1981-1985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2000 ^{d/}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
COHO (thousands)																								
Cape Falcon to Humbug Mt.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1976-1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1981-1985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2000 ^{d/}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Humbug Mt. to Horse Mt. (KMZ)																								
Cape Falcon to Humbug Mt.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1976-1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1981-1985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2000 ^{d/}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE A-23. Cape Falcon to U.S.-Mexico border ocean recreational salmon landings in numbers of fish by catch area and month. ^{a/} (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						
CHINOOK (thousands)												COHO (thousands)																
Horse Mt. to U.S.-Mexico Border												b/	b/	b/	b/	b/	b/	b/	b/	b/	b/	b/	b/					
1976-1980	5.8	8.5	8.7	6.2	11.8	16.6	9.7	7.4	6.7	1.3	82.8	-	0.2	1.4	1.6	2.2	0.6	0.1	b/	b/	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/	0.1	0.7	0.9	0.3	0.3	b/	b/	b/	b/	2.1					
1986	1.2	16.1	23.5	8.8	20.6	31.5	16.0	5.2	2.0	0.6	125.4	-	b/	-	0.1	0.3	1.3	0.3	b/	b/	b/	b/	2.0					
1987	5.5	14.1	19.2	11.0	15.7	40.3	35.3	12.9	7.1	1.1	162.0	-	b/	-	0.7	1.1	0.5	0.3	-	b/	b/	b/	b/	2.6				
1988	6.8	16.1	25.0	18.5	25.3	29.1	10.6	4.9	3.8	0.5	140.8	-	b/	0.2	0.5	2.9	0.2	b/	-	b/	b/	b/	3.8					
1989	8.0	12.7	42.6	6.5	16.7	18.5	13.3	12.2	3.7	2.4	136.7	-	b/	0.1	0.2	1.7	2.2	0.5	0.1	-	b/	b/	b/	4.8				
1990	6.7	17.6	21.6	5.0	16.5	23.4	14.7	5.0	3.8	1.7	116.0	-	b/	-	0.1	0.6	3.5	4.4	2.5	0.4	0.1	-	b/	b/	11.6			
1991	-	8.0	13.0	4.8	12.2	20.4	5.7	1.6	2.2	b/	68.0	-	b/	b/	b/	b/	b/	b/	0.6	13.1	14.0	1.3	0.1	b/	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/	b/	b/	b/	b/	0.4	3.6	0.1	0.5	b/	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	1.4	2.0	0.1	b/	-	b/	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/	b/	b/	b/	b/	0.2	0.1	b/	b/	b/	b/	0.4			
1995	0.2	27.3	57.9	45.8	73.4	133.	29.8	13.4	2.1	-	383.6	-	b/	b/	b/	b/	b/	b/	0.3	0.1	b/	b/	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/	b/	b/	b/	b/	0.2	b/	0.1	b/	b/	b/	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/	b/	b/	b/	b/	-	0.1	b/	b/	b/	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/	b/	b/	-	b/	b/	b/	b/	b/	b/			
1999	-	1.7	6.6	1.6	13.4	34.0	15.2	6.5	2.6	-	81.7	-	-	-	-	-	-	0.2	0.1	b/	b/	b/	b/	0.5				
2000	c/	-	38.5	30.9	34.3	27.0	16.8	10.7	6.6	1.9	166.7	-	-	-	-	-	-	0.1	0.1	b/	b/	b/	b/	0.2				
Total South of Cape Falcon												b/	b/	b/	b/	b/	b/	b/	0.2	11.0	66.3	107.	64.5	6.5	0.7			
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/	b/	b/	b/	b/	b/	1.9	17.2	81.2	47.0	4.2	b/	-	151.5		
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/	-	b/	-	4.6	27.1	135.	30.9	b/	b/	-	198.6		
1986	1.2	16.1	23.5	10.7	28.7	47.6	26.1	5.3	2.6	0.6	162.4	-	b/	-	b/	-	b/	-	0.1	8.5	145.	36.5	12.0	b/	b/	-	202.1	
1987	5.5	14.1	19.2	12.5	28.2	74.8	58.3	26.0	8.3	1.1	247.9	-	b/	-	b/	-	b/	-	0.1	1.0	15.2	133.	81.7	20.6	-	251.4		
1988	6.8	16.1	25.0	20.5	53.7	55.0	21.3	6.8	3.8	0.5	209.7	-	b/	-	b/	-	b/	-	0.1	3.5	68.3	153.	61.9	1.7	-	-	288.6	
1989	8.0	12.7	42.6	9.1	34.1	63.2	27.8	13.6	3.7	2.4	217.2	-	b/	-	b/	-	b/	-	0.1	1.7	50.6	96.7	61.1	5.9	0.1	-	-	216.2
1990	6.7	17.6	21.6	6.5	33.7	45.3	19.9	6.3	3.8	1.7	163.1	-	b/	-	b/	-	b/	-	0.1	1.5	85.9	197.	2.1	1.4	b/	-	-	289.0
1991	-	8.0	13.0	5.0	26.8	31.1	5.8	2.3	2.2	b/	94.3	-	b/	b/	b/	b/	b/	b/	1.0	25.1	101.	38.9	8.3	0.1	-	-	175.1	
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/	b/	b/	b/	b/	0.1	1.0	2.5	38.7	22.8	1.6	b/	-	-	66.7
1993	0.4	9.9	15.0	10.2	7.8	42.1	20.7	5.9	3.6	-	115.6	-	b/	0.1	b/	0.1	b/	b/	0.2	0.1	0.1	0.1	0.2	b/	-	0.4	-	0.6
1994	1.3	7.3	15.7	20.2	39.1	53.3	25.0	14.4	13.0	-	189.2	-	b/	b/	b/	b/	b/	b/	0.5	0.1	0.1	0.1	0.2	b/	-	0.6	-	0.6
1995	0.2	27.3	57.9	47.5	82.2	133.	31.9	19.8	3.3	0.1	403.8	-	b/	-	b/	-	b/	-	0.2	0.1	0.1	0.2	b/	b/	-	1.1	-	1.1
1996	b/	32.0	31.7	16.0	36.0	33.9	16.0	6.5	3.4	-	175.3	-	b/	b/	b/	b/	b/	b/	0.4	0.1	0.2	0.1	0.1	b/	-	0.8	-	0.8
1997	b/	20.1	26.9	28.4	48.9	76.0	29.2	3.6	0.1	236.2	-	b/	-	b/	-	b/	-	0.1	0.1	0.1	0.2	b/	b/	-	0.4	-	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/	b/	b/	b/	b/	0.2	6.1	0.2	b/	b/	b/	b/	-	0.2	
1999	-	1.7	6.6	1.7	15.9	37.5	19.8	7.8	3.4	b/	94.6	-	b/	-	b/	-	b/	-	0.2	19.4	0.3	b/	b/	b/	b/	-	6.7	
2000	c/	-	38.5	31.3	37.1	40.7	34.1	13.1	7.8	2.0	204.6	-	b/	-	b/	-	b/	-	0.2	19.4	0.3	b/	b/	b/	b/	-	19.9	

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

b/ Fewer than 50 fish.

c/ Preliminary.

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

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
DAYs FISHED (thousands)							
U.S.-Canada Border to Leadbetter Pt. - Non-Indian							
1976-1980	3.6	2.3	11.9	12.4	4.5	-	34.8
1981-1985	2.8	0.3	4.7	2.4	b/	-	10.2
1986	1.9	b/	0.4	0.5	-	-	2.9
1987	1.9	-	0.9	b/	b/	-	2.8
1988	3.5	2.1	b/	b/	b/	-	5.6
1989	2.2	1.1	-	0.9	b/	-	4.1
1990	2.1	0.2	b/	1.9	b/	-	4.3
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 ^{c/}	0.2	0.1	-	0.1	a/	-	0.4
U.S.-Canada Border to Leadbetter Pt. - Treaty Indian ^{d/}							
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	0.2	0.3	0.5	0.2	b/	-	1.1
1987	0.4	-	0.4	0.5	-	b/	1.3
1988	0.7	0.6	0.6	0.9	0.2	-	3.0
1989	0.5	0.5	0.6	0.4	0.3	-	2.2
1990	0.5	0.7	0.5	1.0	0.2	-	2.9
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 ^{c/}	0.1	0.1	-	0.1	-	-	0.2
U.S.-Canada Border to Leadbetter Pt. - Total ^{d/}							
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	2.1	0.3	0.9	0.6	b/	-	4.0
1987	2.2	-	1.3	0.5	-	-	4.1
1988	4.2	2.7	0.6	0.9	0.2	-	8.6
1989	2.6	1.6	0.6	1.2	0.3	-	6.3
1990	2.6	0.9	0.5	2.9	0.2	-	7.2
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 ^{c/}	0.3	0.2	-	0.1	a/	-	0.6

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

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
DAY'S FISHED (thousands)							
Leadbetter Pt. to Cape Falcon - Non-Indian							
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	0.8	-	0.3	1.5	-	-	2.6
1987	0.3	-	0.5	-	-	-	0.8
1988	0.3	0.2	-	-	-	-	0.5
1989	0.2	0.1	-	0.9	0.7	-	1.8
1990	0.1	b/	-	0.7	1.1	b/	1.9
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 ^{c/}	a/	a/	-	0.3	a/	-	0.3
U.S.-Canada Border to Cape Falcon - Non-Indian							
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	2.7	b/	0.8	1.9	-	-	5.4
1987	2.2	-	1.4	b/	-	-	3.6
1988	3.8	2.2	b/	b/	b/	-	6.1
1989	2.3	1.1	-	1.8	0.7	-	6.0
1990	2.2	0.2	b/	2.7	1.1	b/	6.2
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 ^{c/}	0.2	0.1	-	0.3	0.1	-	0.7
U.S.-Canada Border to Cape Falcon - Treaty Indian ^{d/}							
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	0.2	0.3	0.5	0.2	b/	-	1.1
1987	0.4	-	0.4	0.5	-	b/	1.3
1988	0.7	0.6	0.6	0.9	0.2	-	3.0
1989	0.5	0.5	0.6	0.4	0.3	-	2.2
1990	0.5	0.7	0.5	1.0	0.2	-	2.9
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 ^{c/}	0.1	0.1	-	0.1	-	-	0.2

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

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
DAYS FISHED (thousands)							
U.S.-Canada Border to Cape Falcon - Total							
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	2.9	0.3	1.2	2.1	b/	-	6.6
1987	2.5	-	1.8	0.5	-	-	4.9
1988	4.5	2.8	0.6	0.9	0.2	-	9.0
1989	2.8	1.6	0.6	2.2	1.0	-	8.2
1990	2.7	0.9	0.5	3.6	1.3	b/	9.1
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 ^{c/}	0.3	0.3	0.1	0.2	0.1	-	1.1
2000 ^{d/}	0.3	0.2	-	0.4	0.1	-	1.0

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

b/ Fewer than 50 days.

c/ Preliminary.

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

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

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season	
CHINOOK (thousands)															
North of Leadbetter Pt. - Non-Indian															
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	18.9	0.2	0.6	2.0	-	-		21.6	-	-	8.6	20.8	-	29.4	
1987	33.7	-	19.3	b/	-	-		53.1	-	-	43.7	0.3	-	44.0	
1988 ^{c/}	40.9	29.1	0.1	0.2	b/	-		70.3	b/	-	0.4	1.8	-	2.2	
1989	22.4	14.6	-	0.3	b/	-		37.2	-	-	41.1	b/	-	41.1	
1990	23.3	1.8	b/	4.2	b/	-		29.3	-	b/	68.4	b/	-	68.4	
1991 ^{d/}	13.6	12.4	b/	0.8	0.6	-		27.5	-	-	0.1	25.4	12.7	38.2	
1992	19.7	13.3	5.2	3.5	-	-		41.7	-	-	9.5	7.2	-	16.7	
1993	14.4	10.6	2.6	0.9	1.5	-		30.0	-	-	4.8	3.5	5.2	13.4	
1994	-	-	-	-	-	-		-	-	-	-	-	-	-	
1995	-	-	-	b/	-	-		-	b/	-	-	18.4	7.1	-	25.4
1996	-	-	-	-	-	-		-	-	-	7.1	10.4	-	17.5	
1997	4.5	1.9	-	-	-	-		6.4	-	-	-	-	-	-	
1998	5.7	0.2	-	-	-	-		5.9	-	-	-	-	-	-	
1999	4.2	7.1	4.0	2.2	-	b/		17.5	-	-	0.7	3.0	0.3	4.0	
2000 ^{e/}	6.8	2.6	-	0.8	-	-		10.2	-	-	2.4	b/	-	2.5	
COHO (thousands)															
North of Leadbetter Pt. - Treaty Indian ^{f/}															
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	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	65.3	
1986	4.3	3.5	3.8	0.6	-	-		12.2	-	21.2	51.6	11.7	b/	84.5	
1987	8.4	-	2.2	7.3	-	0.1		17.9	b/	-	45.6	44.0	-	89.6	
1988	7.6	9.8	6.4	6.8	2.0	-		32.5	-	0.1	11.8	46.2	10.2	68.3	
1989	6.7	7.6	10.1	5.3	1.6	-		31.3	b/	-	31.8	23.5	28.6	83.9	
1990	7.5	7.9	11.3	2.7	2.7	b/		32.1	b/	-	20.7	53.8	16.5	91.0	
1991	4.4	6.0	6.9	4.5	-	0.1		21.8	b/	-	38.9	38.0	-	77.0	
1992	8.8	5.5	4.7	4.0	-	-		23.1	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	-	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 ^{e/}	2.9	3.0	0.2	1.5	-	-		-	-	-	22.2	-	-	22.2	

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

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)														COHO (thousands)
North of Leadbetter Pt. - Total ^{f/}														
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	23.2	3.7	4.4	2.5	-	-		33.8	-	21.2	60.3	32.5	b/	113.9
1987	42.2	-	21.5	7.3	-			71.0	b/	-	89.3	44.3	-	133.6
1988	48.5	38.9	6.4	7.1	2.0	-		102.8	b/	0.1	12.2	48.1	10.2	70.6
1989	29.1	22.2	10.1	5.6	1.6			68.6	b/	-	31.8	64.6	28.6	125.0
1990	30.8	9.7	11.3	6.9	2.7			61.4	-	b/	20.7	122.2	16.5	159.4
1991	18.1	18.4	6.9	5.3	0.6			49.3	-	b/	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 ^{e/}	6.7	24.2	4.0	6.3	3.6	b/		44.8	-	-	0.7	16.0	20.6	37.2
2000 ^{e/}	9.7	5.6	0.2	2.3	-	b/		17.8	-	-	b/	24.6	b/	24.6
South of Leadbetter Pt. - Non-Indian														
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
1981-1985	11.2	0.8	1.9	0.8	0.1	b/		14.7	-	29.2	20.7	3.6	-	53.4
1986	12.6	-	0.3	4.7	-			17.7	-	12.2	79.5	-	-	91.7
1987	6.3	-	3.5	-	-			9.9	-	18.2	-	-	-	18.2
1988	2.6	2.3	-	-	-			4.9	-	-	-	-	-	-
1989	1.7	1.3	-	1.2	1.8	-		6.0	-	-	12.1	25.0	-	37.2
1990	0.6	0.2	-	1.1	2.3	0.1		4.3	-	-	10.7	22.4	0.3	33.5
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	0.1	-			0.5	b/	-	0.4	1.4	0.4	2.2
1994	-	-	-	-	-			-	-	-	-	-	-	-
1995	-	-	-	-	-			-	-	-	-	-	-	-
1996	-	-	-	-	-			-	-	-	-	-	-	-
1997	b/	b/	-	-	-			-	b/	-	-	-	-	-
1998	-	-	b/	0.2	0.2	-		-	-	-	b/	-	-	b/
1999 ^{e/}	-	b/	0.2	2.4	0.2	-		-	-	-	13.3	1.5	-	-
2000 ^{e/}	-	b/	0.2	-	-			-	-	-	-	-	-	-

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

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)														
North of Cape Falcon - Non-Indian														
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	31.6	0.2	0.9	6.7	-	-	39.3	-	20.8	100.3	-	-	-	121.1
1987	40.1	-	22.9	b/	-	-	63.0	-	61.9	0.3	-	-	-	62.2
1988 ^{d/}	43.5	31.4	0.1	0.2	b/	-	75.2	b/	-	0.4	1.8	-	-	2.2
1989	24.1	15.8	-	1.5	1.9	-	43.3	-	-	53.2	25.0	-	-	78.3
1990	23.9	2.1	b/	5.3	2.4	0.1	33.6	-	b/	79.1	22.5	0.3	-	101.9
1991 ^{d/}	14.8	12.5	b/	1.7	0.7	-	29.8	-	-	0.1	61.5	19.5	-	81.2
1992	22.6	14.3	5.5	3.6	-	-	45.9	-	-	10.9	8.3	-	-	19.2
1993	14.6	10.6	2.7	1.0	1.6	-	30.5	-	-	5.1	4.8	5.6	-	15.6
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	b/	-	-	b/	-	-	-	18.4	7.1	-	25.4
1996	-	-	-	b/	-	-	b/	-	-	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 ^{e/}	6.8	2.8	-	3.1	0.2	-	12.9	-	-	15.7	1.6	-	-	17.3
COHO (thousands)														
North of Cape Falcon - Treaty Indian ^{f/}														
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	4.3	3.5	3.8	0.6	-	-	12.2	-	21.2	51.6	11.7	b/	-	84.5
1987	8.4	-	2.2	7.3	-	0.1	17.9	b/	-	45.6	44.0	-	b/	89.6
1988	7.6	9.8	6.4	6.8	2.0	-	32.5	-	0.1	11.8	46.2	10.2	-	68.3
1989	6.7	7.6	10.1	5.3	1.6	-	31.3	b/	-	31.8	23.5	28.6	-	83.9
1990	7.5	7.9	11.3	2.7	2.7	b/	32.1	b/	20.7	53.8	16.5	b/	-	91.0
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/	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	-	38.4
2000 ^{e/}	2.9	3.0	0.2	-	-	-	7.6	-	-	-	-	22.2	-	-

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

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
CHINOOK (thousands)														
North of Cape Falcon - Total Treaty Indian and Non-Indian														
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/ ^{c/}	79.8	0.3	7.4	149.4	71.3	20.3	-	248.6
1986	35.8	3.7	4.7	7.2	-	-	51.5	-	21.2	72.4	112.0	b/ ^{d/}	-	205.6
1987	48.5	-	25.1	7.3	-	-	80.9	b/ ^{e/}	-	107.5	44.3	-	-	151.8
1988	51.1	41.2	6.4	7.1	2.0	-	107.7	b/ ^{f/}	0.1	12.2	48.1	10.2	-	70.6
1989	30.8	23.5	10.1	6.8	3.4	-	74.6	b/ ^{f/}	-	31.8	76.7	53.6	-	162.2
1990	31.4	10.0	11.3	8.0	5.1	0.1	65.8	b/ ^{f/}	-	20.7	133.0	38.9	0.3	192.9
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/ ^{f/}	b/ ^{f/}	51.1	43.7	-	-	94.8
1993	22.2	16.0	8.5	4.7	4.5	-	55.9	b/ ^{f/}	-	12.1	30.3	32.3	-	74.7
1994	0.4	4.0	b/ ^{f/}	-	-	-	4.5	-	-	-	-	-	-	-
1995	0.7	-	b/ ^{f/}	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	-
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 ^{a/}	9.7	5.9	0.2	4.6	0.2	-	20.6	-	-	37.9	1.6	-	-	39.5

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.

d/ Includes 100 coho landed illegally.

e/ Preliminary.

f/ Season totals do not include Oct. 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).^{a/} (Page 1 of 2)

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
PINKS (thousands)							
<u>North of 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
1989	0.2	0.2	-	36.3	-	-	36.7
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 ^{c/}	-	b/	b/	b/	-	-	0.1
<u>North of Leadbetter Pt. - Treaty Indian</u> ^{d/}							
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
1989	b/	b/	7.1	2.4	1.6	7.5	11.1
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 ^{c/}	-	-	-	1.5	0.1	-	1.6
<u>North of Leadbetter Pt. - Total</u> ^{d/}							
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
1989	0.2	0.2	7.1	38.7	1.6	-	47.8
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 ^{c/}	-	b/	b/	1.5	0.1	-	1.6
<u>South of Leadbetter Pt. - 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
1989	-	-	-	b/	b/	-	b/
1991	-	-	-	0.2	-	-	0.2
1993	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-
1999 ^{c/}	-	-	-	-	-	-	-
<u>North of Cape Falcon - Non-Indian</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
1989	0.2	0.2	-	36.3	b/	-	36.7
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 ^{c/}	-	b/	b/	b/	-	-	0.1

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

Year or Average	May	June	July	Aug.	Sept.	Oct.	Season
PINKS (thousands)							
<u>North of Cape Falcon - Treaty Indian^{d/}</u>							
1976-1980	b/	0.8	0.6	1.8	b/	2.4	3.2
1981-1985	b/	0.2	2.3	7.5	0.5	9.6	10.6
1986-1990	b/	b/	9.2	3.9	0.8	11.2	13.9
1989	b/	b/	7.1	2.4	1.6	7.5	11.1
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 ^{c/}	-	-	-	1.5	0.1	-	1.6
<u>North of Cape Falcon - Total^{d/}</u>							
1976-1980	0.6	1.6	98.3	316.7	5.8	-	423.0
1981-1985	0.3	1.0	27.5	123.1	0.8	-	152.7
1986-1990	0.1	0.1	10.2	22.4	0.8	-	33.7
1989	0.2	0.2	7.1	38.7	1.7	-	47.8
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 ^{c/}	b/	b/	-	1.7	b/	-	1.7
1999 ^{c/}	-	b/	b/	1.5	0.1	-	1.6

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

b/ Fewer than 50 fish.

c/ Preliminary.

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

TABLE A-27. U.S.-Canada border to Cape Falcon ocean recreational fishing effort in salmon angler trips by area and month.^{a/} (Page 1 of 2)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
ANGLER TRIPS (thousands)								
b/								
North of Leadbetter Pt.								
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	-	-	2.5	41.8	27.3	0.9	0.1	72.6
1987	-	-	2.7	43.1	18.6	0.8	c/	65.2
1988	-	c/	-	51.3	4.2	0.6	c/	56.1
1989	-	2.4	4.4	45.5	22.8	2.7	-	77.7
1990	-	-	7.2	48.2	25.2	14.2	-	94.9
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	0.0	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	-	-	-	11.9	9.9	1.2	-	23.0
1998	-	-	-	-	14.1	0.9	-	15.0
1999	-	-	-	8.9	14.6	6.4	0.2	30.1
2000 ^{c/}	-	-	-	18.6	11.2	-	-	29.7
South of Leadbetter Pt.								
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	-	-	1.8	31.8	23.6	-	-	57.2
1987	-	-	1.6	26.1	25.8	-	-	53.4
1988	-	-	-	17.9	0.6	c/	-	18.5
1989	-	0.4	1.8	31.5	38.5	-	-	72.2
1990	-	-	5.8	35.9	48.1	3.5	-	93.4
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 ^{d/}	-	-	-	6.5	14.8	6.7	c/	28.1
2000	-	-	-	10.8	13.4	-	-	24.2

TABLE A-27. U.S.-Canada border to Cape Falcon ocean recreational fishing effort in salmon angler trips by area and month. ^{a/} (Page 2 of 2)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
ANGLER TRIPS (thousands)								
North of Cape Falcon ^{b/}								
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	-	-	4.3	73.6	50.9	0.9	0.1	129.8
1987	-	-	4.3	69.2	44.4	0.8	c/	118.6
1988	-	c/	-	69.1	4.8	0.7	c/	74.6
1989	-	2.8	6.2	77.0	61.3	2.7	-	149.9
1990	-	-	13.0	84.2	73.3	17.7	-	188.2
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	0.0	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	-	-	-	19.2	12.9	1.2	-	33.3
1998	-	-	-	-	20.1	1.6	-	21.7
1999 ^{d/}	-	-	-	15.4	29.4	13.2	0.2	58.2
2000	-	-	-	29.4	24.6	-	-	53.9

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/ Preliminary.

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

Year or Area	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	
CHINOOK (in thousands)															COHO (in thousands)		
North of Leadbetter Pt.^{b/}															305.5		
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	-	-	0.6	10.6	7.6	-	c/	-	18.9	-	3.7	61.3	41.0	0.9	0.1	107.1	
1987	-	-	3.1	23.1	6.3	c/	-	-	32.5	-	0.6	44.1	24.9	c/	c/	69.6	
1988	-	-	c/	-	16.6	1.2	c/	-	17.8	-	-	61.0	5.7	0.5	-	67.1	
1989	-	0.8	1.6	5.9	4.4	1.2	-	-	14.0	c/	0.1	68.5	38.2	3.9	-	110.7	
1990	-	-	1.3	9.2	5.7	3.4	-	-	19.7	-	5.4	55.8	34.2	21.3	-	116.7	
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	c/	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	-	2.5	4.1	3.4	-	-	10.2	c/	c/	28.8	30.3	12.5	-	71.6	
1994	-	-	c/	-	c/	-	-	-	-	-	-	-	-	-	-	-	
1995	-	-	-	-	0.2	-	c/	-	0.2	-	-	3.2	27.1	8.7	-	39.0	
1996	-	-	c/	0.1	c/	-	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	c/	-	1.8	-	-	-	7.2	1.1	-	8.3	
1999	-	-	-	2.7	3.6	1.3	-	-	7.6	-	-	6.2	11.5	2.8	0.1	20.5	
2000d/	-	-	-	-	4.6	2.4	-	-	7.6	-	-	-	23.1	14.8	-	37.9	
South of Leadbetter Pt.^{b/}															269.8		
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	-	-	0.1	2.2	1.9	-	c/	-	4.3	-	-	3.8	60.0	42.9	-	106.8	
1987	-	-	0.4	4.9	6.8	-	c/	-	12.0	-	-	2.5	38.8	38.6	-	80.0	
1988	-	-	-	1.6	0.1	c/	-	-	1.6	-	-	30.7	0.9	0.1	-	31.6	
1989	-	0.1	0.6	0.9	5.2	-	c/	-	6.9	-	-	4.9	59.5	52.2	-	116.6	
1990	-	-	0.3	4.3	8.5	0.1	-	-	13.2	-	-	10.3	55.2	54.4	4.2	124.0	
1991	-	-	0.3	1.5	1.5	0.1	-	-	3.3	-	-	7.9	62.2	33.6	10.9	-	
1992	-	-	-	1.2	0.6	0.2	-	-	2.0	-	-	-	55.3	9.5	4.4	-	
1993	-	-	-	-	1.0	0.7	-	-	3.5	-	-	-	22.3	31.4	13.6	-	
1994	-	-	-	-	-	c/	-	-	-	-	-	-	-	-	-	-	
1995	-	-	0.1	0.3	c/	-	c/	-	-	0.4	-	-	6.0	22.9	7.6	-	36.4
1996	-	-	c/	0.0	c/	-	c/	-	-	0.1	-	-	7.2	13.9	3.8	-	24.8
1997	-	-	0.3	0.2	-	c/	-	-	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	-	27.1
2000d/	-	-	-	-	1.2	1.1	-	-	-	-	-	-	18.2	21.4	-	-	39.6

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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season			
CHINOOK (thousands)																COHO (thousands)			
North of Cape Falcon																			
1976-1980	1.9	8.7	34.5	33.0	42.3	10.3	1.1	131.8	0.6	19.5	102.2	199.3	185.9	63.8	4.1	575.4			
1981-1985	0.1	1.7	17.2	25.7	14.3	1.1	c/ ^{b/}	60.0	c/ ^{b/}	2.1	22.1	89.7	78.7	13.2	0.3	206.2			
1986	-	-	0.8	12.9	9.5	-	-	23.2	-	-	7.6	121.3	83.9	0.9	0.1	213.8			
1987	-	-	3.5	28.0	13.1	c/ ^{b/}	-	44.6	-	-	3.1	82.9	63.5	c/ ^{b/}	c/ ^{b/}	149.6			
1988	-	-	c/ ^{b/}	-	18.2	1.2	c/ ^{b/}	-	19.4	-	-	91.6	6.6	0.6	-	98.8			
1989	-	-	0.9	2.2	6.9	9.6	1.2	-	20.9	-	c/ ^{b/}	5.0	128.0	90.4	3.9	-	227.3		
1990	-	-	-	1.6	13.5	14.2	3.6	-	32.9	-	-	15.7	111.0	88.6	25.4	-	240.7		
1991	-	-	-	2.2	8.1	2.8	0.3	-	13.3	-	-	14.7	151.3	48.2	17.9	-	232.0		
1992	c/ ^{b/}	0.1	-	9.3	6.6	2.6	0.2	18.9	-	c/ ^{b/}	-	86.2	35.8	11.8	0.3	134.1			
1993	c/ ^{b/}	0.2	c/ ^{b/}	3.4	5.9	4.1	c/ ^{b/}	13.6	c/ ^{b/}	c/ ^{b/}	c/ ^{b/}	51.1	61.7	26.2	-	139.0			
1994	-	-	-	-	0.1	0.4	0.1	-	0.6	-	-	-	-	-	-	-	-	-	
1995	-	-	-	-	c/ ^{b/}	0.1	c/ ^{b/}	-	0.2	-	-	-	13.1	36.2	6.8	-	56.1		
1996	-	-	-	-	-	2.0	1.8	0.3	-	4.1	-	-	18.8	11.8	0.4	-	31.1		
1997	-	-	-	-	-	-	1.9	0.3	-	2.2	-	-	-	13.3	1.6	-	14.8		
1998	-	-	-	-	-	3.4	5.7	1.7	c/ ^{b/}	10.8	-	-	13.8	24.4	9.4	0.1	47.7		
1999	-	-	-	-	-	5.8	3.5	-	-	-	-	41.3	36.2	-	-	77.5			
2000 d/	-	-	-	-	-	-	-	-	9.9	-	-	-	-	-	-	-	-	-	

^{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). (Page 1 of 1)

Year or Average	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
PINKS (thousands)								
b/								
<u>North of Leadbetter Pt.</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
1989	-	-	-	1.5	c/	-	-	1.5
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 ^{d/}	-	0.0	0.0	0.9	1.3	0.1	0.0	2.2
<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
1989	-	-	-	c/	c/	c/	-	c/
1991	-	-	-	0.1	c/	c/	-	0.1
1993	-	-	-	c/	c/	-	-	c/
1995	-	-	-	c/	-	-	-	c/
1997	-	-	-	-	-	-	-	-
1999 ^{d/}	-	-	-	0.0	c/	0.0	-	c/
<u>North of 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 ^{d/}	-	-	-	0.9	1.3	0.1	-	2.2

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

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

c/ Fewer than 50 fish.

d/ Preliminary.

APPENDIX B

HISTORICAL RECORD OF ESCAPEMENTS TO INLAND FISHERIES AND SPAWNING AREAS

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TABLE B-1. California Central Valley natural fall chinook salmon spawning escapements in thousands of fish. ^{a/} (Page 1 of 1)

Year	Upper Sacramento River		Feather River		Yuba River		American River		Lower Sacramento River Totals		San Joaquin River Totals		Central Valley Totals	
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1970	64.0	21.0	45.0	13.0	12.0	2.0	26.0	3.0	83.0	18.0	147.0	39.0	30.0	8.0
1971	62.6	24.4	34.0	10.0	5.3	0.4	36.0	6.0	75.3	16.4	137.9	40.8	40.0	4.0
1972	35.0	20.0	27.0	16.0	4.0	5.0	13.0	4.0	44.0	25.0	79.0	45.0	12.0	2.0
1973	48.0	19.0	52.0	13.0	22.0	2.0	77.0	5.0	151.0	20.0	199.0	39.0	6.5	0.7
1974	66.0	16.0	54.0	7.0	16.0	1.0	52.0	2.0	122.0	10.0	188.0	26.0	3.7	0.7
1975	71.0	25.0	35.0	3.0	5.0	1.0	29.0	3.0	69.0	7.0	140.0	32.0	5.8	0.9
1976	79.0	14.0	50.0	6.0	3.3	0.5	22.0	1.0	75.3	7.5	154.3	21.5	3.5	0.5
1977	46.8	28.4	36.0	2.0	7.0	2.0	40.0	2.0	83.0	6.0	129.8	34.4	6.6	0.1
1978	76.0	10.0	29.0	4.0	6.0	1.0	12.0	1.0	47.0	6.0	123.0	16.0	2.3	0.3
1979	77.0	44.0	25.0	3.0	10.0	2.0	36.0	1.0	71.0	6.0	148.0	50.0	4.0	0.5
1980	53.0	5.0	30.0	2.0	10.0	2.0	32.0	2.0	72.0	6.0	125.0	11.0	5.0	1.0
1981	51.0	35.0	41.0	4.0	12.0	2.0	38.0	5.0	91.0	11.0	142.0	46.0	15.9	8.9
1982	37.0	17.0	41.0	7.0	23.5	15.9	29.0	4.0	93.5	26.9	130.5	43.9	14.0	3.0
1983	40.6	24.7	19.1	4.5	11.4	2.4	19.0	7.4	49.5	14.3	90.1	39.0	11.1	3.2
1984	48.7	27.5	36.2	6.5	7.1	2.6	25.2	2.2	68.5	11.3	117.2	38.8	40.8	16.1
1985	107.7	25.3	46.5	3.7	10.1	2.9	44.7	11.4	101.3	18.0	209.0	43.3	72.6	3.5
1986	109.5	12.5	41.0	6.4	17.0	2.4	44.9	4.4	102.9	13.2	212.4	25.7	23.2	2.8
1987	73.4	41.4	43.6	11.6	15.2	3.5	18.2	3.0	77.0	18.1	150.4	59.5	15.8	9.1
1988	126.2	20.0	51.0	3.0	6.7	1.8	14.1	1.8	71.8	6.6	197.0	26.6	20.7	1.2
1989	65.9	16.8	31.5	3.5	8.3	1.6	14.7	2.4	54.5	7.5	120.4	24.3	3.2	0.1
1990	50.8	6.2	25.0	3.0	3.5	0.5	5.6	1.1	34.1	4.6	84.9	10.8	0.9	0.1
1991	33.6	4.7	25.2	2.5	11.4	2.7	16.5	1.7	53.1	6.9	86.7	11.6	0.6	0.2
1992	33.0	7.3	19.8	4.3	4.5	1.4	4.9	2.1	29.2	7.8	62.2	15.1	1.1	0.9
1993	54.4	6.9	24.3	3.1	5.5	0.8	19.1	3.4	48.9	7.3	103.3	14.2	2.3	0.9
1994	50.4	14.5	29.6	6.7	7.0	3.9	25.5	2.2	62.1	12.8	112.5	27.3	5.3	1.6
1995	92.8	6.6	56.2	3.4	12.2	1.1	65.0	3.0	133.4	7.5	226.2	14.1	1.5	1.1
1996	83.8 ^{b/}	10.4 ^{b/}	46.3	10.2	18.4	4.6	63.0	4.0	127.7	18.8	211.5	29.2	8.4	7.7
1997	154.8	20.3	38.2	17.2	19.0	6.8	47.3	4.7	104.5	28.7	259.3	49.0	19.8	0.9
1998	60.1 ^{b/}	5.3 ^{b/}	39.6	3.4	25.7	5.1	43.0	14.3	108.2	22.9	168.3	28.2	12.6	6.0
1999	148.3	4.5	31.2	4.7	17.9	5.2	34.9	12.9	83.9	22.8	232.3	27.3	14.2	5.5
2000 ^{c/}	153.6	3.9	116.0	7.4	12.9	1.9	93.7	6.2	222.6	15.5	376.3	19.4	34.6	2.5

^{a/} Upper Sacramento River jack estimates based on Red Bluff Diversion Dam samples. All other estimates generally are based on carcass surveys. ^{b/} Upper Sacramento River estimates also include Tehama Colusa Spawning Channel for 1971 to 1980. Adult and jack numbers generally are based on a 24-inch fork length cut-off (unpublished CDFG data).^{c/} Total includes Butte Creek, for which a fall spawner survey was conducted in 1996 and 1998.

Preliminary.

TABLE B-2. California Central Valley hatchery fall chinook salmon spawning escapements in thousands of fish. ^{a/} (Page 1 of 1)

Year	Coleman ^{b/}				Feather River				Nimbus				Sacramento Hatchery Totals				Mokelumne River				Merced River				San Joaquin Hatchery Totals				Central Valley Hatchery Totals			
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks				
1970	3.0	0.5	2.4	0.9	7.8	0.8	13.2	2.2	0.3	0.2	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4		
1971	1.5	0.5	2.3	1.2	7.9	1.3	11.7	3.0	0.8	0.1	0.2	0.0	1.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1		
1972	1.6	1.2	1.4	2.2	5.4	1.7	8.4	5.1	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4		
1973	3.0	0.8	7.2	1.3	10.8	1.7	21.0	3.8	0.3	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0		
1974	1.3	0.3	4.3	1.1	7.3	0.7	12.9	2.1	0.1	0.1	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3		
1975	1.8	0.6	4.2	1.1	6.6	0.8	12.6	2.5	0.2	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7		
1976	1.8	0.5	4.3	0.9	4.3	0.9	10.4	2.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3		
1977	4.7	0.5	6.8	2.0	6.4	0.5	17.9	3.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0		
1978	1.1	0.8	3.9	0.9	6.1	2.1	11.1	3.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8		
1979	4.7	3.9	3.6	0.6	7.0	3.2	15.3	7.7	0.5	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9		
1980	8.8	0.7	3.0	0.7	13.5	2.0	25.3	3.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6		
1981	5.7	7.5	7.3	1.0	17.8	2.8	30.8	11.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6		
1982	16.2	3.3	6.4	1.2	8.1	2.8	30.7	7.3	1.8	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2		
1983	5.4	3.4	6.1	1.6	6.4	2.5	17.9	7.5	1.7	2.9	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0		
1984	18.7	2.9	8.9	0.4	10.2	2.0	37.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5		
1985	13.1	3.2	5.6	0.2	7.3	1.8	26.0	5.2	0.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4		
1986	11.3	1.2	5.7	2.8	5.6	0.1	22.6	4.1	0.3	0.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5		
1987	11.3	7.1	6.5	3.6	3.4	2.9	21.2	13.6	0.1	0.5	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5		
1988	12.5	1.1	6.2	0.3	8.0	0.7	26.7	2.1	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1		
1989	10.2	1.8	6.5	1.1	9.2	0.5	25.9	3.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4		
1990	13.5	1.2	4.3	1.9	4.6	0.3	22.4	3.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6		
1991	10.0	0.7	7.9	1.4	6.8	0.4	24.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6		
1992	6.2	1.0	10.3	6.1	5.1	1.3	21.6	8.4	0.3	0.4	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1		
1993	7.1	0.6	9.8	1.6	7.3	3.3	24.2	5.5	1.5	0.6	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3		
1994	11.5	7.4	10.1	5.0	7.6	3.3	29.2	15.7	1.2	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8		
1995	24.8	1.9	11.6	0.6	5.2	1.3	41.6	3.8	2.4	0.9	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0		
1996	18.8	2.4	6.5	1.6	7.6	0.5	32.9	4.4	1.8	2.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9		
1997	45.4	6.1	13.4	1.7	5.8	0.3	64.6	8.1	6.3	0.2	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4		
1998	42.4	1.9	16.8	1.0	9.9	1.8	69.2	4.8	2.5	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7		
1999	23.7	3.2	11.1	1.3	6.2	3.6	41.0	8.1	1.6	1.5	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6		
2000 ^{d/}	20.8	0.9	21.0	0.2	10.2	0.8	52.0	1.9	4.6	0.9	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0		
GOALS	9.0	7.5	5.0	-	6.0	-	20.0	-	5.0	-	1.0	-	6.0	-	6.0	-	6.0	-	6.0	-	6.0	-	6.0	-	6.0	-	26.0	-				

a/ Counts of fewer than 50 fish are shown as 0.
b/ Fall spawning fish. Some spring run are included.
c/ Preliminary.

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	Late Fall ^{b/}		Upper Sacramento River ^{b/}		Tributary ^{c/}		Sacramento River ^{d/}		Feather River ^{d/e/}		Grand Totals	
	Late Fall		Winter ^{b/}		Adults and Jacks ^{f/}		Adults		Jacks		Adults	
	Adults	Jacks	Adults	Jacks	Adults and Jacks ^{f/}	Adults	Adults	Jacks	Adults	Jacks	Adults	Jacks
1971-1975	17.7	1.5	22.9	9.0	5.2	5.3	1.8	0.4	0.0	0.0	51.5	12.3
1976-1980	10.4	0.8	13.5	2.6	1.2	8.8	2.8	0.4	0.0	0.0	34.3	6.2
1981	6.3	0.7	18.3	1.7	0.3	12.8	8.2	0.8	0.2	0.2	38.5	10.8
1982	4.1	0.8	1.0	0.3	2.7	19.5	4.0	1.8	0.2	0.2	29.1	5.3
1983	12.9	2.3	1.4	0.4	0.6	3.3	0.6	1.6	0.1	0.1	19.8	3.4
1984	6.5	3.9	0.8	1.9	0.2	3.9	4.2	1.3	0.3	0.3	12.7	10.3
1985	8.0	2.2	3.6	0.3	0.7	7.2	3.5	1.6	0.0	0.0	22.2	6.1
1986	6.6	0.4	2.0	0.5	2.2	15.4	1.3	1.2	0.2	0.2	27.4	2.4
1987	12.6	3.1	1.8	0.2	0.3	7.2	4.0	0.9	0.3	0.3	22.8	7.6
1988	15.7	0.9	1.4	0.7	2.2	8.0	1.8	7.2	0.3	0.3	35.0	3.9
1989	10.1	1.3	0.5	0.1	1.9	4.6	0.6	4.4	0.7	0.7	21.5	2.7
1990	6.6	1.8	0.4	0.0	1.4	3.3	0.6	1.4	0.2	0.2	13.1	2.6
1991	7.4	1.2	0.1	0.1	0.9	0.6	0.2	3.3	0.2	0.2	12.3	1.7
1992	9.4	1.0	1.1	0.1	1.2	0.4	0.1	1.3	0.2	0.2	13.4	1.4
1993	5.0	1.0	0.3	0.1	1.0	0.3	0.1	3.9	0.9	0.9	10.5	5.1
1994	5.0	1.0	0.2	0.0	1.7	0.4	0.3	2.8	0.9	0.9	10.1	2.2
1995	0.6 ^{g/}	0.1 ^{g/}	1.3	0.1	9.3	0.3	0.0	5.0	0.4	0.4	16.5	0.6
1996	1.0 ^{g/}	0.4 ^{g/}	0.6	0.3	2.3	0.2	0.1	5.3	0.7	0.7	9.7	1.7
1997	0.4 ^{g/}	0.5 ^{g/}	0.5	0.4	1.4	0.0	0.1	3.0	0.7	0.7	5.3	1.7
1998	11.2 ^{h/}	1.6 ^{h/}	1.8	0.8	23.6	0.3	0.2	6.8	0.8	0.8	44.7	3.4
1999	7.5 ^{h/}	1.2 ^{h/}	0.9	2.3	6.0	0.2	0.2	3.5	0.2	0.2	18.1	3.9
2000 ^{i/}	10.2 ^{h/}	2.5 ^{h/}	0.6	0.8	5.5	0.1	0.0	3.4	0.3	0.3	19.7	3.6

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

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

i/ Preliminary.

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			Klamath River			Trinity River			Spawning Escapement		
			Indian	Sport	Total	Hatchery	Natural	Total	Hatchery	Natural	Total	Hatchery	Natural	Total	Total	Total	
1978	Adults	92.8	18.2	1.7	19.9	1.5	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	51.2	13.7	2.1	15.8	1.1	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	80.1	33.0	6.0	39.0	2.8	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	0.3	0.5	10.6	11.1	1.0	5.9	6.9	1.5	16.5	18.1		
1982	Adults	66.5	14.5	8.3	22.8	1.3	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	0.7	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	47.1	18.7	3.3	22.0	1.6	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	1.0	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	0.3	2.2	6.5	8.7	18.2	29.5	47.6	20.3	36.0	56.3		
1986	Adults	194.8	25.1	21.0	46.2	2.4	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	208.8	53.1	20.2	73.3	4.7	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	191.3	51.7	22.2	73.9	4.6	16.1	34.8	50.9	17.4	44.6	62.0	33.5	79.4	112.8		
	Jacks	24.0	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	124.0	45.6	8.8	54.3	3.8	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	35.8	7.9	3.6	11.5	0.7	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	32.6	10.2	3.4	13.6	0.9	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	57.1	9.6	3.2	12.8	0.8	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	61.6	11.7	1.8	13.5	1.0	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	4.5	4.4	2.5	5.2	6.2	1.4	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 Flun			Inriver Harvest			Nonlanded Fishery Mortality			Klamath River			Spawning Escapement		
		Indian		Sport	Total	Hatchery		Natural	Total	Hatchery		Natural	Total	Trinity River		
1995	Adults	213.7	15.6	6.1	21.7	1.4	13.7	67.9	87.7	15.2	77.9	97.6	28.9	161.7	190.7	
	Jacks	22.8	0.6	4.4	5.0	0.1	0.3	8.5	8.8	0.1	9.3	13.1	0.3	17.7	17.7	
1996	Adults	175.4	56.5	12.8	69.2	4.8	13.6	38.7	52.3	6.4	42.6	49.1	20.0	81.0	101.0	
	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	8.1	8.9	
1997	Adults	83.7	12.1	5.7	17.8	1.0	13.3	34.6	47.9	5.4	11.5	16.9	18.7	46.1	64.8	
	Jacks	7.9	0.1	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	90.5	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	50.9	14.7	2.3	16.9	1.2	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 ^{a/}	Adults	214.8	29.4	5.3	34.7	2.5	71.5	55.3	126.8	26.0	24.7	50.7	97.6	80.0	177.6	
	Jacks	8.8	0.3	1.6	1.8	0.1	0.9	2.9	3.9	1.0	2.0	3.0	2.0	4.9	6.9	

^{a/} Preliminary.

TABLE B-5. Estimates of Yurok and Hoopa Valley reservation Indian gillnet harvest.^{a/} (Page 1 of 3)

Year	Area	Chinook Salmon (numbers of fish)					
		Spring Run			Fall Run		
		Jack	Adult	Total	Jack	Adult	Total
1977	Total	b/	b/	b/	2,700	27,300	30,000
1978	Total	b/	b/	b/	1,800	18,200	20,000
1979	Total	b/	b/	b/	1,350	13,650	15,000
1980	Total	20	980	1,000	987	12,013	13,000
1981	Estuary	21	1,320	1,341	912	23,097	24,009
	Resighinni	0	16	16	338	4,293	4,631
	Upper Klamath	19	381	400	766	4,112	4,878
	Trinity River	17	1,090	1,107	449	1,531	1,980
	Total	57	2,807	2,864	2,465	33,033	35,498
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	10	715	725	314	1,511	1,825
	Total	45	3,155	3,200	1,799	14,482	16,281
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	5	75	80	30	1,390	1,420
	Total	10	585	595	163	7,890	8,053
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	0	380	380	140	1,170	1,310
	Total	12	627	639	455	18,670	19,125
1985 ^{c/}	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	115	1,000	1,115	947	1,941	2,888
	Total	160	2,074	2,234	1,555	11,566	13,121
1986 ^{c/}	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	81	2,022	2,103	586	4,808	5,394
	Total	95	2,714	2,809	1,154	24,127	25,281
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	122	4,146	4,268	262	4,982	5,244
	Total	176	5,792	5,962	415	53,096	53,511
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	84	2,727	2,811	267	5,070	5,337
	Total	92	5,645	5,737	578	51,651	52,229
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	20	1,978	1,998	71	3,474	3,545
	Total	20	6,723	6,743	191	45,565	45,756

TABLE B-5. Estimates of Yurok and Hoopa Valley reservation Indian gillnet harvest.^{a/} (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	<u>24</u>	<u>2,278</u>	<u>2,302</u>	<u>187</u>	<u>7,794</u>	<u>7,981</u>
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	<u>3</u>	<u>546</u>	<u>549</u>	<u>62</u>	<u>10,228</u>	<u>10,290</u>
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	<u>0</u>	<u>742</u>	<u>742</u>	<u>366</u>	<u>5,785</u>	<u>6,151</u>
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	<u>0</u>	<u>778</u>	<u>778</u>	<u>175</u>	<u>9,636</u>	<u>9,811</u>
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	<u>26</u>	<u>756</u>	<u>782</u>	<u>249</u>	<u>11,713</u>	<u>11,962</u>
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	<u>93</u>	<u>3,767</u>	<u>3,860</u>	<u>476</u>	<u>15,608</u>	<u>16,084</u>
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	<u>673</u>	<u>682</u>	<u>7</u>	<u>1,570</u>	<u>1,577</u>
	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	<u>35</u>	<u>7,087</u>	<u>7,122</u>	<u>190</u>	<u>56,476</u>	<u>56,666</u>
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	<u>1</u>	<u>6,690</u>	<u>6,691</u>	<u>35</u>	<u>12,087</u>	<u>12,122</u>
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	<u>47</u>	<u>2,764</u>	<u>2,811</u>	<u>53</u>	<u>10,187</u>	<u>10,240</u>

TABLE B-5. Estimates of Yurok and Hoopa Valley reservation Indian gillnet harvest.^{a/} (Page 3 of 3)

Year	Area	Chinook Salmon (numbers of fish)					
		Spring Run			Fall Run		
		Jack	Adult	Total	Jack	Adult	Total
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	13	776	789	96	2,978	3,074
2000 ^{d/}	Total	15	3,168	3,183	509	14,415	14,924
	Commercial Estuary	-	-	-	-	3,933 ^{e/}	3,933
	Middle Klamath	-	-	-	-	175 ^{e/}	175
	Upper Klamath	-	-	-	-	814 ^{e/}	814
	Subsistence: Estuary	0 ^{a/}	1,778	1,778	51 ^{a/}	13,380	13,431
	Middle Klamath	0 ^{a/}	511	511	25 ^{a/}	1,089	1,114
	Upper Klamath	0 ^{a/}	918	918	79 ^{a/}	4,237	4,316
	Trinity River	29	1,904	1,933	113	5,977	6,090
	Total	29	5,111	5,150	268	29,605	29,873

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.

e/ Jack and commercial estimates are preliminary.

TABLE B-6. Shasta River fall chinook salmon weir counts or spawning escapement estimates.^{a/} (Page 1 of 1)

Year	Adults	Jacks	Total	Year	Adults	Jacks	Total
1930	7,280	12,082	19,362	1966	5,573	451	6,024
1931	61,811	20,037	81,848	1967	10,478	1,836	12,314
1932	30,534	5,058	35,592	1968	13,039	1,003	14,042
1933 ^{b/}	4,700	6,886	11,586	1969	10,576	3,049	13,625
1934	26,614	21,807	48,421	1970	12,693	712	13,405
1935	63,711	9,660	73,371	1971	4,970	1,649	6,619
1936	33,264	14,669	47,933	1972	2,802	839	3,641
1937	32,027	1,229	33,256	1973	4,516	4,902	9,418
1938	6,497	1,118	7,615	1974	7,376	2,729	10,105
1939	8,313	19,670	27,983	1975 ^{c/}	11,821	4,211	16,032
1940	50,725	4,431	55,156	1976	4,154	1,919	6,073
1941	7,372	5,860	13,232	1977	5,478	1,969	7,447
1942	9,342	1,834	11,176	1978	12,024	6,707	18,731
1943	8,048	1,974	10,022	1979	7,111	1,040	8,151
1944	8,604	2,686	11,290	1980	3,762 ^{d/}	4,334	8,096
1945	14,905	3,291	18,196	1981	7,890 ^{d/}	4,330	12,220
1946	6,949	641	7,590	1982	6,533	1,922	8,455
1947	298	43	341	1983	3,119	753	3,872
1948	31	6	37	1984	2,362	480	2,842
1949	171	21	192	1985	2,897	2,227	5,124
1950	-- Incomplete Count --			1986	3,274	683	3,957
1951	1,565	459	2,024	1987	4,299	398	4,697
1952	1,488	178	1,666	1988 ^{e/}	2,586	256	2,842
1953	1,444	161	1,605	1989	1,440	137	1,577
1954	1,768	857	2,625	1990	415	118	533
1955	1,620	197	1,817	1991	716	10	726
1956	-- No Count --			1992	520	66	586
1957	1,781	453	2,234	1993	1,341	85	1,426
1958	4,694	1,379	6,073	1994	3,363	1,840	5,203
1959	8,619	1,256	9,875	1995	12,816	695	13,511
1960	9,489	1,209	10,698	1996	1,404	46	1,450
1961	5,250	3,514	8,764	1997	1,677	334	2,011
1962	9,907	4,991	14,898	1998	2,466	76	2,542
1963	22,825	9,012	31,837	1999 ^{f/}	1,296	1,901	3,197
1964	30,715	3,648	34,363	2000	10,699	1,597	12,296
1965	7,136	775	7,911				

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 ^{a/b/}			Sproul Creek, Eel River ^{a/c/}			Tomki Creek, Eel River
	Number of Surveys	Chinook	Coho	Number of Surveys	Chinook	Coho	
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 ^{e/}	2	137	0	2	82	0	-
1984-1985 ^{e/}	1	16	0	6	67	13	1,292
1985-1986 ^{e/}	10	514	14	6	320	0	3,558
1986-1987 ^{e/}	4	90	3	5	307	13	2,173
1987-1988	4	117	29	3	2,187	4	3,666
1988-1989 ^{e/}	2	69	7	3	339	12	556
1989-1990 ^{e/}	4	9	9	5	89	14	0
1990-1991	1	0	3	2	0	0	0
1991-1992 ^{e/}	2	8	0	2	159	0	3
1992-1993 ^{e/}	3	57	1	2	142	2	15
1993-1994	3	20	0	4	171	36	5
1994-1995	3	33	3	7	52	0	22
1995-1996 ^{e/}	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 ^{e/}	2	66	0	4	79	11	65
1999-2000 ^{e/f/}	8	162	1	7	34	1	35
2000-2001	3	79	3	4	12	0	50

a/ Numbers reflect peak daily 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/ 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	Pistol River Deep Creek (0.4 mile)		Chetco River Big Emily Creek (1.0 mile)		Winchuck River Bear Creek (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 ^{a/}	2 ^{a/}	91	8	13	4	64	6
1986	0 ^{a/}	0 ^{a/}	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 ^{b/}	26	3	63	6	6	0	43	4

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

b/ Preliminary.

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

Year	Gold Ray Dam, Rogue River ^{a/}				Winchester Dam, Umpqua River ^{a/}			
	Natural	Hatchery	Total	Jacks ^{b/}	Natural	Hatchery	Total	Jacks ^{b/}
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
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

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 ^{a/}				Winchester Dam, Umpqua River ^{a/}			
	Natural	Hatchery	Total	Jacks ^{b/}	Natural	Hatchery	Total	Jacks ^{b/}
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
<u>2000^{c/}</u>	<u>3.4</u>	<u>26.8</u>	<u>30.3</u>	<u>3.8</u>	<u>2.6</u>	<u>5.4</u>	<u>8.0</u>	<u>4.6</u>

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	1,102	1,941	3,043
1978	9,174	1,019	10,193
1979	7,954	187	8,141
1980	2,222	411	2,633
1981	4,404	987	5,391
1982	2,813	708	3,521
1983	1,602	158	1,760
1984	1,997	242	2,239
1985	5,486	2,500	7,986
1986	16,886	3,169	20,055
1987	29,144	2,847	31,991
1988	20,716	886	21,602
1989	7,408	481	7,889
1990	1,868	46	1,914
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 ^{a/}	3,278	183	3,461

a/ Preliminary.

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

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

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

Year	River Tributaries										Coquille Salmon Index (0.8 mile)			
	Nehalem		Tillamook		Nestucca		Siletz Sunshine		Yaquina Grant		Alsea Buck		Siuslaw Lake (0.8 mile)	
	Humbug (1.0 mile)	Tillamook (1.8 mile)	Niagara (0.4 mile)	(0.4 mile)	(0.4 mile)	(1.2 mile)	(1.7 mile)	(1.2 mile)	Adults	Jacks	Adults	Jacks	Adults	Jacks
1994	83	5	36	1	201	2	113	2	b/	b/	46	4	300	19
1995	57	3	41	4	124	1	41	0	b/	b/	59	4	346	5
1996	86	2	60	0	40	0	122	0	b/	b/	62	2	614	29
1997	162	1	47	1	24	1	60	0	b/	b/	49	3	325	9
1998	93	2	42	1	42	0	83	3	b/	b/	78	0	176	2
1999	116	3	38	1	60	2	36	3	b/	b/	55	5	478	14
2000 ^{c/}	175	3	40	4	32	2	63	1	b/	b/	38	3	205	18

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						Hatchery Escapement ^{d/}	
		Williamette			Will. Falls ^{b/} Escapement	Sandy	Cowlitz ^{c/}		
		Lower River Catch ^{a/}	Commercial	Sport					
1971-1975	84.0	13.8	3.7	53.3	17.0	34.3	NA	11.9	
1976	80.7	4.7	3.2	38.8	15.8	21.0	NA	26.6	
1977	92.1	6.8	3.1	56.1	14.6	38.5	0.6	20.9	
1978	106.9	13.5	5.0	69.2	20.6	45.7	0.7	13.8	
1979	68.9	5.5	1.7	43.1	13.9	25.5	0.8	13.4	
1980	73.1	0.4	0.8	41.6	10.0	26.4	1.8	23.7	
1981	93.9	6.8	3.5	46.6	12.5	28.6	2.8	27.9	
1982	110.1	4.6	2.2	70.3	20.6	45.1	1.4	19.3	
1983	93.3	7.0	2.4	52.1	17.8	28.7	1.8	21.4	
1984	115.6	9.1	1.8	72.9	23.4	42.4	2.3	21.3	
1985	83.3	11.5	1.1	55.0	17.6	33.1	1.4	9.9	
1986	90.6	8.6	4.4	59.6	18.1	37.3	1.3	7.3	
1987	133.2	10.6	2.4	80.9	21.6	52.8	2.4	18.0	
1988	145.9	13.2	3.2	101.8	27.0	68.7	2.9	12.3	
1989	136.9	12.4	2.5	97.7	26.4	65.9	2.0	8.3	
1990	151.2	16.2	9.1	103.5	27.3	69.1	3.5	7.6	
1991	130.2	11.7	4.1	90.9	33.9	48.7	3.7	8.9	
1992	102.5	5.2	4.1	65.6	16.1	39.7	9.2	10.4	
1993	89.7	2.1	1.5	60.7	23.0	29.7	6.4	9.5	
1994	60.6	1.6	1.6	46.5	12.9	25.5	3.5	3.1	
1995	50.1	0.2	0.0	40.8	16.0	19.3	2.5	2.2	
1996	42.3	0.9	0.0	33.2	7.8	20.4	4.1	1.8	
1997	46.1	1.9	0.0	34.3	3.6	26.2	5.2	1.9	
1998	50.6	0.1	0.0	43.3	4.1	33.1	4.2	1.1	
1999	60.2	0.1	0.0	52.3	7.4	38.9	3.3	1.6	
2000 ^{e/}	67.1	0.4	0.2	57.4	9.9	39.1	3.8	1.7	
							2.2	1.4	
								24.1	

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 Youngs Bay 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 ^{c/}						Upper Columbia River Escapement ^{e/}			Hatchery ^{a/} Escapement		
		Lower River Catch		Bonneville Dam Count		Commercial Treaty Catch		Treaty Ceremonial/ Subsistence		Zone 6 Escapement ^{b/}		Total		Wild		Escape ^{d/}		Total	
		Commercial	Sport	Dam	Count	Treaty	Catch	Ceremonial	Subsistence	Total	NA	NA	NA	NA	NA	NA	NA	NA	NA
1971-1975	167.5	31.4	16.0	120.1	21.3	NA	NA	98.8	28.9	NA	8.2	13.4							
1976	63.9	0.0	0.0	63.9	0.4	NA	NA	63.5	15.9	NA	11.5	14.8							
1977	138.4	8.6	14.2	115.6	17.0	1.8	NA	96.8	36.2	NA	20.6	20.1							
1978	127.0	0.0	0.0	127.0	2.6	4.9	NA	119.5	40.7	NA	21.2	14.4							
1979	48.7	0.1	0.0	48.6 ^{f/}	0.5	1.6	NA	46.5	6.8	2,573	7.4	9.3							
1980	<53.2	0.1	0.0	<53.1 ^{f/}	g/	1.8	<51.2	5.5	3,478	8.5	11.2								
1981	<63.8	0.7	0.2	<62.8 ^{f/}	1.6	1.8	<59.4	13.1	7,941	14.5	15.2								
1982	71.3	0.7	0.6	70.0	3.3	2.0	64.7	12.4	7,117	8.7	15.7								
1983	57.8	2.4	0.5	54.9 ^{g/}	2.5	52.4	9.5	6,181	10.4	16.4									
1984	48.7	1.5	0.3	46.9	0.1	3.4	43.4	6.5	3,199	12.1	13.7								
1985	86.5	3.0	0.4	83.2	0.1	3.0	80.1	25.2	5,245	24.1	30.6								
1986	120.6	1.3	1.3	118.1	0.4	7.1	110.6	31.7	6,895	21.3	37.2								
1987	100.2	1.2	0.4	98.6	0.3	6.4	91.9	28.8	7,883	18.5	33.8								
1988	97.2	5.3	1.4	90.5	0.2	6.8	83.5	29.5	8,581	13.1	28.1								
1989	83.4	1.6	0.5	81.3	0.1	6.6	74.5	13.0	3,029	11.7	23.3								
1990	99.5	2.2	3.1	94.2 ^{g/}	6.9	87.2	17.3	3,216	12.2	34.9									
1991	59.9	1.0	1.5	57.3 ^{g/}	3.9	53.5	6.6	2,206	7.7	17.5									
1992	90.0	0.4	1.2	88.4 ^{g/}	5.7	82.7	21.4	11,285	19.6	30.9									
1993	111.8	0.5	0.4	110.8	0.0	7.3	103.6	21.0	6,008	29.3	36.4								
1994	21.1	0.5	0.4	20.2 ^{g/}	1.1	19.0	3.1	1,416	3.1	7.2									
1995	10.2	g/	0.0	10.2 ^{g/}	0.6	9.6	1.1	0.745	1.1	4.9									
1996	51.5	g/	0.0	51.5 ^{g/}	0.0	2.8	48.7	4.2	1,358	2.4	17.8								
1997	114.1	g/	g/	114.1 ^{g/}	8.3	105.8	33.9	1,434	6.8	29.6									
1998	38.4	0.0	0.0	38.3 ^{g/}	2.2	36.1	9.9	5,028	4.1	11.6									
1999	38.7	g/	g/	38.6 ^{g/}	2.0	36.7	3.3	1,644	4.1	18.2									
2000 ^{h/}	178.6	g/	g/	178.3 ^{g/}	112	167.0	33.8	8,049	19.1	22.9									
								115.0	35.0	25.0									

GOAL

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. Commercial catch includes estimated miscellaneous fishery related impacts from test fisheries, commercial shad fisheries, and terminal area commercial gillnet fisheries beginning in 1979.

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/ Includes hatcheries operated by all agencies.

f/ Maximum figure not adjusted for fallback at the dam.

g/ 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.
 (Page 1 of 1)

a/Year or Average	Inriver Run Size	Lower River Catch			Bonneville Dam Count	Mainstem			Snake River Escapement ^{c/}			Upper Columbia River Escapement ^{d/}
		Commercial		Sport		Commercial	Treaty Catch	Ceremonial/ Subsistence	Zone 6 Escapement ^{b/}	Total	Wild	
		Commercial	Sport									
1971-1975	47.8	1.1	1.4	45.4	2.1	NA	NA	43.3	13.4	13,429	14.6	
1976	26.7	0.0	0.0	26.7	<0.1	NA	NA	26.7	7.0	6,965	17.2	
1977	34.3	0.2	0.0	34.1	<0.1	0.8	33.3	7.7	7.710	16.3		
1978	38.7	0.2	0.0	38.5	0.1	0.8	37.6	11.6	11,649	19.2		
1979	28.0	0.3	0.0	27.7	/	1.0	26.8	2.7	2.712	20.3		
1980	27.0	/	0.0	27.0	0.1	1.1	25.8	2.7	2,404	16.0		
1981	22.4	/	0.0	22.4	/	1.3	21.0	3.3	2,739	11.6		
1982	20.4	0.2	0.0	20.1	/	1.3	18.8	4.2	3,631	8.8		
1983	18.2	0.2	0.0	18.0	0.0	0.3	17.7	3.9	3,219	8.5		
1984	22.5	/	0.0	22.4	0.1	0.3	22.0	5.4	4,229	16.2		
1985	24.3	0.1	0.0	24.2	1.3	0.1	22.8	5.1	2,696	15.9		
1986	26.4	0.2	/	26.2	0.7	0.4	25.1	6.2	2,684	16.2		
1987	33.3	0.3	/	33.0	1.4	0.3	31.3	5.9	1,855	14.1		
1988	31.5	0.2	/	31.3	1.5	/	29.8	6.1	1,807	13.4		
1989	28.8	/	/	28.8	0.0	0.1	28.7	3.2	2,299	19.7		
1990	25.0	/	/	25.0	0.0	0.1	24.9	5.1	3,342	15.6		
1991	18.9	/	/	18.9	0.0	0.2	18.7	3.8	2,967	14.8		
1992	15.1	0.1	/	15.1	0.0	0.1	15.0	3.0	0.441	8.5		
1993	22.2	0.2	/	22.0	0.0	0.4	21.7	7.9	4,082	16.4		
1994	17.7	/	/	17.6	0.0	0.2	17.4	0.8	0,183	14.9		
1995	15.0	/	/	15.0	0.0	0.4	14.6	0.7	0,343	12.2		
1996	16.1	/	/	16.0	0.0	0.5	15.5	2.6	1,916	10.9		
1997	28.0	/	/	27.9	0.0	0.3	27.6	10.7	5,678	13.1		
1998	21.5	/	0.1	21.4	0.0	0.4	21.1	4.4	2,913	13.4		
1999	26.2	/	0.1	26.2	0.0	0.4	25.7	3.3	1,584	20.9		
2000 ^{e/}	30.6	/	/	30.6	0.0	0.3	30.3	3.9	0,846	22.3		

GOAL

a/ Includes estimated miscellaneous fishery related impacts from test fisheries, commercial shad fisheries, and terminal area commercial gillnet fisheries beginning in 1979.

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/ Preliminary.

f/ Fewer than 50 fish.

TABLE B-15. Estimates of inriver run size, catch, and escapement in thousands of Columbia River adult SCH stock
 fall chinook. ^{a/}
 (Page 1 of 1)

Year or Average	Inriver Run Size	Bonneville Dam Count	Treaty Commercial and Subsistence	Harvest		Escapement	
				Non-Indian Commercial ^{b/}	Sport	Natural	Hatchery ^{c/}
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	19.5	17.1	4.8	0.0	1.4	2.7	5.4
1999 ^{d/}	50.2	46.8	28.2	0.3	2.6	2.4	14.5
2000	19.6	18.4	6.4	0.7	0.5	4.1	6.3
GOAL							7.0^{e/}

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

b/ Includes select area fisheries.

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

d/ Preliminary.

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

TABLE B-16. Estimates of inriver run size, catch, and escapement in thousands of Columbia River adult LRH stock fall chinook.^{a/} (Page 1 of 1)

Year or Average	Inriver Run Size	Treaty Commercial	Harvest		Escapement	
			Non-Indian		Natural	Hatchery ^{d/}
			Commercial ^{b/}	Sport ^{c/}		
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	44.3	0.0	0.8	4.5	14.9	23.6
1999 ^{e/}	40.0	0.0	2.3	6.1	12.6	19.0
2000 ^{e/}	16.5	0.0	1.5	4.0	5.0	6.0

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 LRW stock fall chinook. (Page 1 of 1)

Year or Average	Inriver Run Size	Treaty Commercial	Harvest		Escapement	
			Non-Indian		Natural	Hatchery
			Commercial	Sport ^{a/}		
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	1.8	11.2	0.0
1998	7.0	0.0	0.0	0.4	6.6	0.0
1999 ^{b/}	3.3	0.0	0.0	0.0	3.3	0.1
2000	11.4	0.0	0.2	0.3	10.9	0.0
GOAL					5.7	

a/ Includes tributary catches.

b/ Preliminary.

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

Year or Average	Inriver Run Size	Bonneville Dam Count	Harvest			Escapement			Wild Snake River Lower Granite Count
			Treaty		Non-Indian	McNary	Total		
			Commercial	Subsistence	Commercial	Sport ^b	Dam	Ice Harbor Dam Count	Lower Granite Count
1971-1975	110.5	80.4	35.1	29.3	3.1	36.8	2.6	39.5	5.6
1976	115.1	86.6	55.9	28.0	2.1	27.7	1.1	28.8	1.1
1977	95.1	65.9	29.0	28.8	0.7	37.0	2.0	37.6	1.2
1978	85.3	68.7	32.6	16.3	0.7	25.2	2.1	27.3	1.1
1979	89.2	71.2	32.5	17.7	0.5	28.7	2.5	31.2	1.2
1980	76.8	69.4	10.8	5.1	0.9	28.8	2.2	29.9	1.2
1981	66.6	62.8	14.2	2.4	0.7	23.9	3.0	21.1	0.8
1982	79.0	71.8	7.0	4.5	0.2	34.1	3.7	31.1	1.6
1983	86.1	78.0	18.1	4.3	0.7	48.3	5.9	48.7	1.8
1984	131.4	101.4	35.1	23.7	4.4	47.3	13.9	61.0	1.7
1985	196.4	156.6	59.1	34.5	9.1	76.7	14.0	93.3	2.0
1986	281.5	214.1	95.8	58.9	11.0	95.8	17.2	113.3	3.1
1987	420.7	304.0	125.0	104.3	18.1	126.4	24.8	154.1	6.8
1988	339.9	249.7	127.7	79.9	16.6	98.9	11.5	114.7	3.8
1989	261.1	211.9	101.0	42.8	12.8	82.8	7.9	96.5	4.6
1990	153.4	132.0	60.8	20.8	4.9	48.8	4.8	57.6	3.5
1991	102.7	87.3	26.0	13.7	5.9	38.9	3.6	46.6	4.5
1992	81.0	74.0	13.9	5.6	4.0	38.8	9.1	51.2	4.6
1993	102.9	95.5	20.3	5.3	5.3	49.8	9.9	54.9	2.8
1994	132.9	132.8	24.1	0.0	4.8	68.5	14.2	85.9	2.1
1995	106.5	105.6	18.7	0.0	5.4	58.5	10.2	68.2	2.8
1996	143.2	135.5	29.8	3.7	8.9	59.6	15.9	73.9	3.8
1997	161.7	152.9	42.7	1.4	11.5	68.9	13.1	67.1	2.7
1998	141.5	137.5	42.4	2.3	8.1	60.5	14.0	63.8	4.2
1999	166.2	154.9	38.7	2.2	15.2	48.3	30.3	78.4	6.6
2000 ^{d/}	152.5'	143.6	36.1	4.1	8.9	69.9	9.6	66.4	6.5
GOAL								40.0^{e/}	

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/ Adjusted for stray hatchery fish.

d/ Preliminary.

e/ CRFMP 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 allowable adult wild Snake River fall chinook impacts rather than a McNary Dam escapement goal.

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

Year	Inriver Run Size	Bonneville Dam Count	Treaty Commercial and Subsistence	Harvest		Escapement	
				Commercial	Sport ^{b/}	Natural	Hatchery
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	36.5	29.9	7.8	3.0	6.1	13.1	8.8
1999	50.5	40.4	9.6	1.6	5.9	15.7	7.3
2000 ^{c/}	39.7	27.4	7.8	4.3	4.1	8.5	7.9

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/ Preliminary.

TABLE B-20. Estimates of minimum inriver run size, catch, and escapement in thousands of adult coho entering the Columbia River.^{a/} (Page 1 of 1)

Year or Average	Minimum Inriver Run Size	Below Bonneville Dam						Above Bonneville Dam					
		Lower River Catch ^{b/}			Lower River Escapement			Tributary Dam			Bonneville ^{c/} Dam Counts		
		Commercial	Recreational Buoy 10	Mainstem	Hatchery ^{d/}	Counts	Commercial	Treaty Catch ^{e/}	Escapement ^{f/}	Hatchery Escapement	Commercial	Treaty Catch ^{e/}	Escapement
1971-1975	373.4	199.4	-	11.8	117.1	9.5	35.6	9.1	26.6	11.6			
1976	337.0	168.4	-	11.1	117.3	3.5	36.7	4.0	32.7	14.4			
1977	93.8	39.0	-	6.2	37.1	2.2	9.3	1.0	8.3	2.0			
1978	307.5	132.7	-	9.7	131.8	2.9	30.3	3.7	26.6	7.8			
1979	276.5	127.6	-	12.3	102.6	4.4	29.6	3.9	25.7	7.5			
1980	301.6	150.1	-	11.2	122.2	5.1	13.0	0.3	12.7	3.4			
1981	170.2	59.8	-	7.7	77.9	2.8	21.9	1.8	20.1	9.2			
1982	453.1	201.7	18.9	17.7	154.1	5.0	55.8	4.3	51.5	32.4			
1983	111.2	7.1	3.6	5.3	76.2	3.3	15.7	0.2	15.5	2.2			
1984	425.9	201.5	74.4	15.6	102.8	4.2	27.3	1.6	25.7	7.1			
1985	367.2	190.0	25.4	10.5	95.3	7.5	38.6	5.2	33.4	11.5			
1986	1,549.1	981.0	120.4	24.7	285.1	8.9	129.0	16.8	112.2	29.4			
1987	316.6	165.3	47.2	7.0	66.3	4.2	26.6	2.3	24.3	8.6			
1988	670.8	361.4	143.4	12.3	113.8	6.9	32.9	5.1	27.8	4.9			
1989	712.8	387.3	81.9	18.5	190.3	6.8	31.2	2.5	28.7	11.4			
1990	196.7	66.2	18.5	10.1	88.3	2.0	11.6	1.0	10.6	3.0			
1991	954.3	407.5	208.7	31.6	243.3	5.5	58.9	6.7	52.2	18.0			
1992	217.7	54.1	43.1	9.0	88.6	5.2	17.8	1.0	16.8	5.2			
1993	114.2	35.6	20.9	6.9	39.4	0.8	10.6	0.9	9.7	1.7			
1994	169.1	60.7	1.8	4.1	78.0	4.1	20.3	1.0	19.3	3.9			
1995	75.2	21.4	5.0	3.2	32.2	2.9	10.4	0.3	10.1	1.5			
1996	104.6	19.8	4.5	3.9	60.2	0.6	15.7	0.1	15.6	1.4			
1997	145.3	16.4	20.4	11.6	69.9	2.8	24.2	0.6	23.6	4.4			
1998	164.5	23.0	3.2	6.7	83.8	1.3	46.6	0.2	46.4	11.3			
1999	272.9	79.0	8.9	19.1	123.9	1.0	40.7	1.7	39.0	10.0			
2000 ^{g/}	550.7	168.4	21.0	37.3	232.0	5.7	85.8	6.3	79.5	26.6			

a/ These numbers match OPI databases. Adjustments were made to the escapement figures and catches in the Chinook/Hammond area of 3,195 in 1989, 28 in 1990, and 1,151 in 1991.

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 1986-1989.

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-21. Estimated catch and effort in the Buoy 10 fishery.^{a/} (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
b/ ^{c/}	160,692	16,884	85,110	0.63
1990 ^{d/}	79,636	5,179	18,429	0.30
1991 ^{d/}	171,680	11,647	208,638	1.28
1992	115,481	10,655	43,082	0.47
1993	75,774	5,288	20,932	0.35
1994	9,253	0	1,795	0.19
1995	25,186	853	5,026	0.23
1996	18,034	1,409	4,537	0.33
1997	55,725	13,153	20,357	0.60
1998	29,998	5,784	3,175	0.30
1999	49,581	9,850	8,861	0.38
2000 ^{e/}	72,578	6,085	21,478	0.38

- 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.

TABLE B-22. 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 ^{a/}	Terminal Catch		Spawning Escapement		Terminal Run Size ^{b/}
		Gillnet	Sport ^{c/}	Natural ^{d/}	Hatchery	
CHINOOK (thousands)						
1976-1980	8.1	14.7	0.4	3.2	5.6	23.9
1981	3.2	13.7	0.3	2.8	4.2	21.0
1982	0.7	8.8	0.6	2.7	4.6	16.7
1983	0.1	2.3	0.9	3.1	6.2	12.5
1984	0.4	3.7	0.2	5.4	9.5	18.8
1985	0.2	8.6	0.9	3.2	6.1	18.8
1986	0.5	7.1	1.0	3.0	7.7	18.8
1987	0.5	7.6	1.2	5.9	21.7	36.4
1988	5.6	33.0	2.6	18.0	17.4	71.0
1989	3.6	24.6	2.0	26.4	17.6	70.6
1990	1.9	18.9	1.1	12.5	8.7	41.2
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	4.8	6.3	12.5	54.8
1994	0.0	21.9	2.8	4.8	11.1	40.6
1995	0.0	25.5	2.9	10.2	10.4	49.0
1996	0.0	37.1	2.0	6.3	7.7	53.1
1997	0.0	12.3	2.4	11.0	6.0	31.7
1998	0.0	6.9	2.2	7.1	4.7	20.9
1999 ^{e/}	0.0	0.3	1.0	3.4	4.8	9.5
2000 ^{e/}	0.0	5.9	NA	NA	4.7	NA
GOAL				4.4	8.2	

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-23. 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 ^{a/}
	Gillnet	Sport ^{b/}	Natural ^{c/}	Hatchery ^{d/}	
COHO (thousands)					
1976-1980	15.0	1.5	4.8	12.2	33.5
1981	30.0	0.7	7.5	22.9	61.1
1982	70.0	3.6	2.1	33.4	109.1
1983	9.0	2.1	1.1	18.6	30.8
1984	50.7	2.9	e/	33.4	87.0
1985	35.3	1.5	e/	24.9	61.7
1986	118.6	5.7	e/	73.5	197.8
1987	63.8	2.0	e/	21.8	87.6
1988	49.4	2.4	e/	30.3	82.1
1989	68.4	1.7	e/	31.0	101.1
1990	48.0	1.2	e/	23.7	72.9
1991	95.5	6.3	e/	62.3	164.2
1992	10.8	2.0	e/	15.4	28.2
1993	19.8	1.9	e/	12.4	34.1
1994	11.7	2.4	e/	15.6	29.6
1995	33.6	1.8	f/	30.1	65.4
1996	38.3	4.1	16.0	49.8	106.4
1997	1.5	0.8	5.5	9.3	17.1
1998	13.1	0.9	14.0	8.2	36.2
1999 ^{f/}	5.4	1.8	12.8	22.6	42.6
2000 ^{f/}	10.3	NA	NA	12.9	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 put upstream.
- d/ Does not include natural spawning escapement between 1984 and 1995.
- e/ Estimates of natural spawning escapement were not made 1984-1995.
- f/ Preliminary.

TABLE B-24. Grays Harbor chinook terminal catch, spawning escapement, and run size in numbers of fish. (Page 1 of 2)

Year or Average	Early Non-local Catch	Non-Indian Gillnet	Treaty Gillnet	Terminal Catch		Spawning Escapement			Terminal Run Size
				Chehalis	Tribal Gillnet	Sport a/	Natural b/	Hatchery c/	
SPRING CHINOOK (thousands)									
1976-1980	-	-	-	0.6	e/	0.6	-	-	1.2
1981	-	-	-	0.3	e/	0.6	-	-	0.9
1982	-	-	-	0.1	e/	0.6	-	-	0.7
1983	-	-	-	0.1	e/	0.8	-	-	0.9
1984	-	-	-	-	e/	1.1	-	-	1.1
1985	-	-	-	-	e/	1.2	-	-	1.2
1986	e/	-	-	e/	e/	2.0	-	-	2.0
1987	-	-	-	0.2	e/	0.9	-	-	1.1
1988	e/	-	-	0.1	e/	3.5	-	-	3.6
1989	-	-	-	0.3	e/	2.1	-	-	2.4
1990	-	-	-	0.1	e/	1.5	-	-	1.6
1991	-	-	-	0.2	e/	1.3	-	-	1.5
1992	-	-	-	e/	e/	1.7	-	-	1.7
1993	-	-	-	0.1	e/	1.3	-	-	1.4
1994	-	-	-	0.1	e/	1.4	-	-	1.5
1995	-	-	-	0.1	e/	2.1	-	-	2.2
1996	v	0.1	e/	4.5g/	-	4.6	-	-	4.6
1997	v	0.2	e/	4.5h/	-	4.9	-	-	4.9
1998	v	0.2	e/	2.3	-	2.6	-	-	2.6
1999	v	0.2	e/	1.3	-	1.5	-	-	1.5
2000 ^b	e/	0.1	NA	NA	NA	NA	-	-	NA
GOAL									
						1.4			

TABLE B-24. Grays Harbor chinook terminal catch, spawning escapement, and run size in numbers of fish. (Page 2 of 2)

Year or Average	Early Non-local Catch	Non-Indian Gillnet	Treaty Gillnet	Chehalis Tribal Gillnet	Sport ^{a/}	Natural ^{b/}	Hatchery ^{c/}	Spawning Escapement	
								Terminal Catch	Terminal Run Size ^{d/}
FALL CHINOOK (thousands)									
1976-1980	4.4	1.8	3.1	1.0	1.1	6.5	0.3	13.9	
1981	1.6	0.6	3.5	0.7	0.2	7.6	0.8	13.4	
1982	0.6	3.1	4.6	0.7	0.2	5.6	0.4	14.6	
1983	0.1	0.1	3.3	0.3	0.1	5.5	0.6	9.9	
1984	0.5	0.2	0.9	0.3	0.4	21.0	0.9	23.7	
1985	0.1	0.1	5.3	0.3	0.6	9.5	1.1	16.9	
1986	0.2	2.2	5.4	0.3	0.4	13.7	1.3	23.3	
1987	0.3	3.1	9.7	0.2	0.8 ^v	18.8	2.0	34.6 ^v	
1988	0.7	3.5	4.9	0.8	2.0 ^v	28.2	0.3	39.7 ^v	
1989	0.4	8.0	18.5	1.0	2.1 ^v	25.7	0.7	56.0 ^v	
1990	0.3	6.3	13.5	0.6	2.0 ^v	17.0	0.5	39.8 ^v	
1991	0.2	6.0	8.0	0.6	3.7 ^v	14.4	0.5	33.2 ^v	
1992	0.2 ^{e/}	5.6	6.6	0.9	2.1 ^v	16.9	1.1	33.2 ^v	
1993	5.8	8.8	1.6	3.5 ^v	13.3	0.9	33.9 ^v		
1994	-	3.7	7.9	0.7	3.6 ^v	14.3	0.8	31.0 ^v	
1995	-	5.1	7.4	0.7 ^{e/}	5.4 ^v	12.7	0.4	31.7 ^v	
1996	-	1.4	7.1	5.7 ^v	5.7 ^v	20.2	0.7	35.1 ^v	
1997	-	2.7	6.6	0.3	2.8 ^v	18.2	0.4	31.0 ^v	
1998	-	0.2	4.1 ^v	0.0	2.9 ^v	12.5	0.5	18.4	
1999 ^v	-	1.0	1.9	0.0	0.1 ^{h/v}	10.4	0.8	14.2	
2000 ^v	-	1.3	3.3	0.0	NA	NA	0.3	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 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.^v 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 opener. Therefore, the expanded catch would be equal to 4,970.

TABLE B-25. 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 ^{a/}	Hatchery ^{a/}	
COHO (thousands)							
1976-1980	5.2	9.8	3.5	2.5	29.5	9.4	59.9
1981	3.0	24.8	3.2	0.9	13.0	19.9	64.7
1982	17.4	26.0	6.0	3.9	18.1	10.1	81.7
1983	1.8	11.5	0.8	1.8	25.3	12.2	54.0
1984	3.2	6.6	3.4	16.3	105.2	24.4	159.1
1985	0.5	9.2	0.9	1.4	22.0	5.2	39.2
1986	12.5	36.6	1.9	6.2	36.9	33.9	128.0
1987	17.3	30.6	3.5	3.2 ^{b/}	23.0	11.7	89.4
1988	3.5	20.1	0.5	5.7	61.9	39.4	131.1
1989	1.3	23.3	1.7	4.8 ^{b/}	56.7	25.4	113.3
1990	4.0	40.0	1.5	6.7	45.6	21.7	119.3
1991	47.8	68.9	8.1	23.8 ^{b/}	64.3	76.1	289.0
1992	0.7	14.1	1.1	4.3 ^{b/}	32.9	8.7	61.8
1993	4.4	15.9	1.3	6.4 ^{b/}	25.5	14.1	67.6
1994	0.7	8.6	0.9	1.8 ^{b/}	12.4	14.4	38.8
1995	9.5	38.4	2.1	9.7	47.4	35.4	142.5
1996	10.1	51.8	2.9	5.8 ^{b/}	63.6	46.6	179.8
1997	0.1	5.4	0.1	1.5 ^{b/}	22.5	11.6	41.4
1998	0.7	13.4	0.4	2.1 ^{b/c/}	35.6	13.9	66.7
1999	1.7	10.7	0.8	1.0	33.3	27.4	76.3
2000 ^{c/}	5.6	10.8	0.3	NA	NA	15.5	NA
GOAL					35.4		

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. Quinalt 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-26. Treaty Indian gillnet catch of chinook, chum, and sockeye salmon in the Quinault River in numbers of fish. (Page 1 of 1)

Year	Spring/Summer		Fall	
	Chinook ^{a/}	Chinook ^{a/}	Chum	Sockeye
1976	52	3,200	7,400	14,800
1977	51	600	3,600	30,500
1978	163	6,900	13,700	21,000
1979	299	6,500	3,200	4,700
1980	178	4,400	11,900	16,800
1981	148	5,300	4,500	21,700
1982	146	5,500	7,400	15,300
1983	45	4,400	3,700	400
1984	118	5,500	4,300	900
1985	115	4,800	3,700	24,700
1986	115	6,700	7,100	1,900
1987	346	12,220	3,486	24,347
1988	437	9,801	8,623	18,186
1989	530	10,108	2,563	2,691
1990	260	5,282	1,660	8,965
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 ^{b/}	0	3,420	755	0

a/ Preliminary. Stock separation under review.

b/ Preliminary.

TABLE B-27. Estimated inriver run size, catch and escapement for Quinault River coho in thousands of fish.
(Page 1 of 1)

Year	Terminal Catch ^{a/}		Escapement		Terminal Run Size			
	Gillnet	Ceremonial & Subsistence	River Sport	Natural	Hatchery	Natural	Hatchery	Total
1977	1,900	-	-	1,500	300	3,000	600	3,600
1978	6,900	-	-	2,500	1,600	6,600	4,200	10,800
1979	17,800	-	-	7,200	4,700	18,000	11,700	29,700
1980	12,400	-	-	2,500	4,900	6,300	13,400	19,700
1981	10,400	-	-	2,200	7,300	4,500	15,400	19,900
1982	11,000	-	-	7,200	4,900	14,400	8,700	23,100
1983	3,700	-	-	7,000	6,400	9,000	8,100	17,100
1984	21,100	-	-	3,200	9,800	7,800	26,200	34,000
1985	7,300	-	-	1,500	3,100	3,300	8,700	12,000
1986	24,382	-	-	4,780	4,907	11,483	21,332	32,815
1987	13,987	-	-	2,167	1,431	8,419	8,801	17,220
1988	12,757	-	-	1,194	6,156	2,282	16,582	18,864
1989	8,989	-	-	4,443	3,964	7,993	8,526	16,519
1990	8,770	-	-	3,301	4,738	5,329	10,787	16,116
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 ^{b/}	16,214	-	-	7,138	10,356	14,276	19,182	33,458
GOAL	Hatchery Production							

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

b/ Preliminary.

TABLE B-28. Estimated inriver run size, catch, and escapement of Queets River spring/summer chinook. (Page 1 of 1)

Year	Terminal Catch			Escapement		Terminial Run Size			Total
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}	Natural ^{b/}	Hatchery	Natural	Hatchery		
1976	160	11	61	505	0	737	0		737
1977	364	25	34	732	0	1,155	0		1,155
1978	229	16	51	1,110	0	1,406	0		1,406
1979	475	31	60	870	118	1,369	185		1,554
1980	108	8	59	1,038	0	1,213	0		1,213
1981	299	20	22	988	0	1,329	0		1,329
1982	495	35	6	781	119	1,244	180		1,424
1983	104	9	20	1,044	38	1,173	42		1,215
1984	150	18	63	958	0	1,189	0		1,189
1985	165	19	25	677	0	886	0		886
1986	201	22	45	925	0	1,193	0		1,193
1987	858	59	28	598	0	1,543	0		1,543
1988	391	34	77	1,765	0	2,267	0		2,267
1989	1,181	76	129	2,568	0	3,954	0		3,954
1990	601	41	58	1,780	0	2,480	0		2,480
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	NA	426	0		426
2000 ^{c/}	0	2	NA	NA	0	NA	NA		NA
GOAL				700 ^{d/}					

a/ Sport catch of adults.

b/ Natural escapement includes hatchery strays.

c/ Preliminary.

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

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

Year	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Subsistence	Ceremonial & River	Natural ^b	Hatchery	Natural	Hatchery	Total
1976	1,300	NA	20	1,200	0	2,500	0	2,500
1977	2,000	NA	20	3,600	0	5,500	0	5,500
1978	900	NA	100	2,200	0	3,100	0	3,100
1979	900	100	20	3,900	0	4,700	0	4,700
1980	2,600	NA	20	3,200	0	5,800	0	5,800
1981	3,800	NA	100	4,300	100	8,000	200	8,200
1982	2,300	NA	200	4,100	200	6,200	400	6,600
1983	1,300	20	200	2,600	300	3,800	600	4,400
1984	1,600	20	100	3,900	600	5,300	1,000	6,300
1985	1,518	20	74	3,702	598	5,153	757	5,910
1986	965	20	194	7,805	239	8,890	290	9,180
1987	3,851	20	175	6,504	203	10,045	593	10,638
1988	2,556	20	333	8,390	1,254	11,000	1,505	12,505
1989	2,519	20	200	8,689	785	11,154	1,059	12,213
1990	2,247	20	169	10,103	616	12,297	858	13,155
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 ^c	262	20	NA	3,572	333	NA	NA	NA
GOAL				2,500 ^d				

a/ River sport catch of 3-year olds and older.

b/ Includes fish taken for hatchery brood stock.

c/ Preliminary.

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

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

Year	Terminal Catch ^a			Escapement			Terminal Run Size				
	Gillnet	Ceremonial	River	Sport ^b	Natural ^c	Supplemental	Hatchery	Natural ^c	Supplemental	Hatchery	Total
1976	2,900	NA	100	100	1,200		100	4,100		300	4,400
1977	1,000	NA	100	100	1,500		300	2,600		500	3,100
1978	2,400	NA	100	100	2,700		600	4,100		900	5,000
1979	2,700	100	200	200	6,800		1,600	8,700		2,100	10,800
1980	3,200	20	200	200	4,700		2,400	6,000		4,400	10,400
1981	4,200	NA	200	200	4,800		2,400	6,100		4,500	10,600
1982	1,610	NA	100	100	7,000		4,500	7,800		5,400	13,200
1983	1,017	20	20	20	2,282		1,100	2,438		1,800	4,238
1984	1,314	20	20	20	9,200		4,042	9,748		4,400	14,148
1985	3,782	20	180	180	4,001		1,228	5,984		2,868	8,852
1986	9,885	20	49	49	5,160		3,654	5,826		11,441	17,267
1987	12,413	20	140	140	4,747		2,401	8,892		9,774	18,666
1988	5,400	20	255	255	4,288	3,897	4,782	4,530	4,462	9,239	18,231
1989	5,900	20	247	247	4,501	693	1,872	5,416	876	6,821	13,113
1990	8,667	10	514	514	5,422	1,793	4,123	7,120	3,626	9,512	20,258
1991	10,342	20	709	709	6,525	d/	4,129	8,574	d/	12,441	21,015
1992	2,049	20	363	363	6,266	922	1,402	6,999	998	2,923	10,920
1993	3,896	150	367	367	5,020	2,208	5,938	5,350	2,482	9,663	17,495
1994	1,611	30	18	18	1,105	95	2,901	1,242	176	4,222	5,640
1995	4,203	30	103	103	6,181	592	2,385	7,273	794	5,311	13,378
1996	16,035	30	279	279	8,993	3,574	5,191	10,715	5,319	17,646	33,680
1997	3,087	30	106	106	1,851	d/	2,137	1,970	d/	5,086	7,056
1998	7,379	30	135	135	4,102	1,413	3,504	4,576	1,562	10,364	16,502
1999	3,972	300	119	119	4,791	521	3,551	5,029	557	7,061	12,647
2000 ^{e/}	4,984	30	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					5,800-14,500						

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

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

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

d/ Included in natural escapement / run size.

e/ Preliminary.

TABLE B-31. Estimated inriver run size, catch, and escapement for Hoh River spring/summer chinook
in numbers of fish. (Page 1 of 1)

Year	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}	Natural ^{b/}	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	341	2,605	10	3,712	294	4,006
1989	1,735	38	565	4,697	119	6,863	334	7,197
1990	1,387	38	371	3,886	40	5,294	442	5,736
1991	600	13	155	1,078	0	1,693	153	1,846
1992	445	26	84	1,018	0	1,406	167	1,573
1993	509	25	373	1,411	0	2,077	242	2,319
1994	378	20	419	1,699	0	2,361	155	2,516
1995	230	25	397	1,132	0	1,657	102	1,759
1996	471	40	400	1,371	16	2,190	98	2,280
1997	416	57	350	1,826	0	2,728	53	2,781
1998	294	20	307	1,287	0	1,880	28	1,908
1999	155	20	100	1,000	0	1,207	68	1,275
2000 ^{c/}	87	38	d/	492	0	537	88	625
GOAL				900 ^{e/}				

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

b/ Includes fish taken for hatchery brood stock.

c/ Preliminary.

d/ Nonretention.

e/ Minimum. Terminal run managed at 31% harvest rate.

TABLE B-32. 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 ^{a/} Sport	Natural ^{b/}	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	2,600	20	188	4,128	20	6,873	100	6,973
1989	2,700	50	187	5,148	60	8,682	100	8,782
1990	1,921	50	149	4,236	46	6,327	50	6,377
1991	1,076	15	113	1,420	21	2,611	13	2,624
1992	940	30	181	4,003	0	5,136	18	5,154
1993	1,148	30	399	2,280	0	3,766	91	3,857
1994	687	30	228	3,967	0	4,806	179	4,985
1995	502	30	180	2,202	0	2,898	22	2,920
1996	836	30	151	3,022	0	3,944	100	4,044
1997	1,114	35	159	1,773	0	3,059	22	3,081
1998 ^{c/}	846	30	249	4,257	0	5,369	13	5,382
1999 ^{c/}	596	30	413 ^{d/}	1,924	0	2,942	21	2,963
2000 ^{c/}	404	20	NA	1,786	0	2,176	15	2,191
GOAL				1,200 ^{e/}				

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

b/ Includes fish taken for hatchery brood stock.

c/ Preliminary.

d/ From 1994 through 1998, the sport fishery was closed to retention of adults above the Oxbow Campground. In 1999 and 2000, the area from the Oxbow boat ramp (RM 15.0) to Morgan's Crossing (RM 22.9) was open to adult retention beginning October 16.

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

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

Year	Terminal Catch ^{a/}			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River ^{b/} Sport	Natural ^{c/}	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	3,444	43	79	2,218	0	5,178	606	5,784
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 ^{d/}	972	50	102	4,858	0	5,836	146	5,982
1997 ^{d/}	85	25	4	1,386	0	1,449	51	1,500
1998 ^{e/}	650	20	213	4,931	0	5,683	118	5,801
1999 ^{e/}	1,705	25	256	4,900	0	6,559	350	6,909
2000 ^{e/}	1,900	20	250	4,000	0	6,000	200	6,200
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.

e/ Preliminary.

TABLE B-34. Estimated inriver run size, catch, and escapement for Quillayute River spring/summer chinook in numbers of fish.
(Page 1 of 1)

Yea	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport ^{a/}	Natural ^{b/}	Hatchery	Natural	Hatchery ^{c/}	Total
1976	2,400	20	800	1,300	1,800	NA	NA	4,970
1977	3,200	20	400	3,800	900	NA	NA	5,393
1978	3,400	20	400	2,300	700	NA	NA	3,891
1979	2,600	20	200	2,100	200	NA	NA	2,545
1980	1,000	20	100	964	400	NA	NA	1,692
1981	1,000	20	100	815	300	NA	NA	1,416
1982	1,700	20	36	1,126	100	NA	NA	1,402
1983	400	20	68	548	200	NA	NA	928
1984	300	20	18	618	400	NA	NA	1,162
1985	100	20	18	550	300	NA	NA	910
1986	400	20	74	853	300	NA	NA	1,336
1987	1,800	20	182	666	1,500	NA	NA	3,608
1988	1,968	20	431	2,599	1,200	3,943	2,275	6,218
1989	2,255	25	277	2,407	1,150	3,472	2,642	6,114
1990	1,730	25	326	1,483	867	1,840	2,591	4,431
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 ^{d/}	199	50	128	1,599	247	1,829	369	2,198
1999 ^{d/}	368	50	238	713	596	818	1,147	1,965
2000	254	50	NA	924	227	NA	NA	NA
GOAL				1,200 ^{e/}				

a/ Recreational catch of adults.

b/ Natural escapement includes hatchery strays.

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

d/ Preliminary.

e/ WDFW goal for summer chinook only. Includes jacks.

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

Year	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River ^{a/} Sport	Natural ^{b/}	Hatchery ^{c/}	Natural	Hatchery ^{c/}	Total
1976	2,300	20	300	2,500	100	4,700	400	5,100
1977	5,400	20	100	3,300	200	7,600	1,400	9,000
1978	1,500	20	300	4,700	300	6,200	500	6,700
1979	2,700	20	200	3,900	100	6,600	200	6,800
1980	1,300	20	200	6,700	20	7,600	700	8,300
1981	1,328	50	109	5,963	127	7,102	428	7,530
1982	2,765	50	97	7,107	76	9,651	330	9,981
1983	2,539	50	120	3,069	83	5,530	296	5,826
1984	1,384	50	124	9,128	80	10,447	330	10,777
1985	2,360	50	204	6,145	20	8,367	142	8,509
1986	2,990	50	651	10,006	94	13,380	257	13,637
1987	7,996	50	386	12,352	172	20,349	453	20,802
1988	6,241	50	949	15,168	171	22,115	502	22,617
1989	7,288	50	458	9,951	108	17,260	586	17,846
1990	2,860	50	377	13,711	14	16,914	98	17,012
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 ^{d/}	762	100	326	6,752	0	7,940	0	7,940
1999 ^{d/}	1,129	100	195	3,334	0	4,758	0	4,758
2000 ^{d/}	570	100	NA	4,000	0	NA	0	NA
GOAL				3,000 ^{e/}				

a/ River recreational catch of 3-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/ Minimum. Terminal run managed at 40% harvest rate.

TABLE B-36. Estimated inriver run size, catch, and escapement for Quillayute River coho stocks in numbers of fish. (Page 1
of 2)

Year	Terminal Catch ^{a/}			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River ^{b/} Sport	Natural ^{c/}	Hatchery ^{d/}	Natural ^{c/}	Hatchery ^{d/}	Total
SUMMER COHO								
1976	499	20	43	1,200	1,239	1,477	1,524	3,001
1977	1,304	20	39	1,000	1,847	1,479	2,731	4,210
1978	837	20	137	1,500	1,000	2,096	1,398	3,494
1979	10,563	100	580	1,460	9,720	2,928	19,495	22,423
1980	11,985	120	530	800	9,018	1,830	20,623	22,453
1981	2,104	30	114	800	500	2,183	1,365	3,548
1982	11,712	100	74	900	3,667	3,242	13,211	16,453
1983	391	20	104	784	4,048	868	4,479	5,347
1984	4,022	50	162	1,573	4,519	2,666	7,660	10,326
1985	2,082	50	72	674	986	1,569	2,295	3,864
1986	5,745	50	158	700	8,932	1,133	14,452	15,585
1987	7,520	50	50	600	737	4,020	4,937	8,957
1988	1,404	50	93	900	1,912	1,395	2,964	4,359
1989	797	50	58	950	3,631	1,138	4,348	5,486
1990	554	50	111	465	4,795	528	5,447	5,975
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 ^{e/}	1,310	50	93	346	1,688	593	2,894	3,487
1999 ^{e/}	945	50	292	624	7,527	723	8,715	9,438
2000 ^{e/}	1,138	50	NA	NA	3,745	NA	NA	NA
GOAL	Hatchery Production							

TABLE B-36. Estimated inriver run size, catch, and escapement for Quillayute River coho stocks in numbers of fish. (Page 2 of 2)

Year	Terminal Catch ^{a/}			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport ^{b/}	Natural ^{c/}	Hatchery ^{d/}	Natural ^{c/}	Hatchery ^{d/}	Total
FALL COHO								
1976	8,527	75	109	3,900	391	11,807	1,195	13,002
1977	2,809	30	18	3,526	109	6,296	196	6,492
1978	4,187	45	88	10,344	3,473	13,557	4,580	18,137
1979	7,384	60	101	20,224	4,984	26,257	6,496	32,753
1980	7,018	53	36	7,017	3,220	11,878	5,466	17,344
1981	3,734	50	119	6,268	624	9,807	988	10,795
1982	5,420	48	171	10,400	2,140	15,042	3,137	18,179
1983	674	48	125	2,660	675	3,322	860	4,182
1984	595	50	202	10,508	6,633	11,004	6,984	17,988
1985	8,520	50	203	7,484	438	15,764	931	16,695
1986	6,408	100	534	10,687	1,062	17,055	1,736	18,791
1987	13,849	100	433	11,416	751	23,787	2,762	26,549
1988	2,240	100	165	7,218	2,149	9,132	2,740	11,872
1989	2,492	100	433	8,995	3,591	11,117	4,494	15,611
1990	3,980	100	359	5,512	1,300	9,506	1,745	11,251
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 ^{f/}	11,009	11,515	14,596	17,783	32,379
1997	456	50	38 ^{f/}	4,623	2,645	5,021	2,791	7,812
1998 ^{e/}	4,606	50	1,340	13,866	12,834	16,980	15,716	32,696
1999 ^{e/}	22,946	50	1,150	9,365	13,528	19,524	27,515	47,039
2000 ^{e/}	5,606	50	NA	11,600	13,118	NA	NA	NA
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.

TABLE B-37. Puget Sound commercial net and troll fishery salmon catches.^{a/} (Page 1 of 1)

Year or Average	Fishery	Chinook	Coho	Pink	Chum	Sockeye
THOUSANDS OF FISH						
1971-1975	Non-Indian	103.9	523.6	1,942.9 ^{b/}	331.1	2,159.0
	Treaty Indian	54.0	224.7	114.4 ^{b/}	78.2	37.8
	Total	157.9	748.3	2,057.3 ^{b/}	409.3	2,196.8
1976-1980	Non-Indian	103.5	413.4	2,626.1 ^{b/}	408.0	1,095.6
	Treaty Indian	126.1	488.5	464.4 ^{b/}	294.9	277.8
	Total	229.6	901.9	3,090.5 ^{b/}	702.9	1,373.4
1981-1985	Non-Indian	71.1	344.1	1,917.1 ^{b/}	368.7	924.6
	Treaty Indian	144.4	606.6	1,377.8 ^{b/}	388.0	912.6
	Total	215.5	950.7	3,294.9 ^{b/}	756.7	1,837.2
1986	Non-Indian	73.5	493.5	0.0	505.7	1,394.0
	Treaty Indian	150.4	863.6	0.1	650.1	1,357.4
	Total	223.9	1,357.1	0.1	1,155.8	2,751.3
1987	Non-Indian	57.3	664.0	963.3	597.3	974.7
	Treaty Indian	155.8	1,118.2	1,106.4	704.3	971.3
	Total	213.1	1,782.2	2,069.8	1,301.6	1,946.1
1988	Non-Indian	50.4	459.8	0.0	706.3	348.0
	Treaty Indian	181.1	777.7	0.1	862.4	501.4
	Total	231.4	1,237.5	0.1	1,568.7	849.4
1989	Non-Indian	54.1	344.4	1,583.9	368.1	1,127.8
	Treaty Indian	199.8	621.1	1,843.8	518.4	1,124.0
	Total	253.9	965.4	3,427.7	886.5	2,251.7
1990	Non-Indian	52.5	390.9	0.0	526.9	982.4
	Treaty Indian	197.7	676.9	0.3	573.6	1,184.4
	Total	250.2	1,067.7	0.3	1,100.5	2,166.7
1991	Non-Indian	21.6	196.4	1,578.4	476.8	983.4
	Treaty Indian	121.6	401.8	1,710.0	545.0	844.7
	Total	143.3	598.2	3,288.5	1,021.8	1,828.1
1992	Non-Indian	19.5	98.9	0.1	617.6	316.1
	Treaty Indian	94.0	300.0	0.1	763.6	292.1
	Total	113.5	398.9	0.2	1,381.2	608.2
1993	Non-Indian	18.1	27.7	974.9	588.6	1,328.5
	Treaty Indian	64.2	162.0	1,117.2	539.4	1,364.5
	Total	82.3	189.7	2,092.1	1,128.0	2,693.0
1994	Non-Indian	19.8	20.0	<50	579.9	878.4
	Treaty Indian	61.5	427.8	1.7	772.4	956.1
	Total	81.3	447.8	1.7	1,352.3	1,834.5
1995	Non-Indian	6.7	24.5	1,366.9	373.9	170.6
	Treaty Indian	74.1	278.3	1,340.4	382.0	243.7
	Total	80.8	302.7	2,707.3	755.9	414.3
1996	Non-Indian	9.2	20.0	0.0	530.5	50.5
	Treaty Indian	69.0	145.3	0.0	261.5	286.1
	Total	78.2	165.3	0.0	792.1	336.6
1997	Non-Indian	21.6	9.6	868.9	234.9	681.7
	Treaty Indian	58.0	142.4	985.2	186.3	660.6
	Total	79.6	152.0	1,854.1	421.2	1,342.3
1998	Non-Indian	12.4	12.5	0.4	505.3	229.3
	Treaty Indian	43.6	149.1	0.5	320.1	309.7
	Total	56.0	161.6	0.9	825.4	539.0
1999	Non-Indian	9.2	11.4	1.1	128.3	0.0
	Treaty Indian	77.0	96.9	51.3	110.4	20.0
	Total	86.2	108.2	52.4	238.7	20.1
2000 ^{c/}	Non-Indian	11.3	22.4	-	140.9	230.3
	Treaty Indian	60.4	363.2	0.2	145.1	314.3
	Total	71.7	385.6	0.2	286.0	544.6

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/ Preliminary from soft data.

TABLE B-38. Summary of Puget Sound marine **recreational** salmon catches. (Page 1 of 1)

<u>Year or Average</u>	<u>Chinook</u>	<u>Coho</u>	<u>Pink</u>
THOUSANDS OF FISH			
1971-1975	225.6	119.3	14.8 ^{b/}
1976	307.2	223.9	0.2
1977	196.1	177.3	24.4
1978	228.7	223.6	0.1
1979	285.7	258.2	69.6
1980	244.5	118.2	0.2
1981	164.4	177.4	25.5
1982	120.2	209.7	0.0
1983	194.5	274.1	16.5
1984	174.6	140.7	0.1
1985	147.3	186.2	28.0
1986 ^{c/}	170.0	261.0	0.0
1987 ^{c/}	102.9	247.5	30.9
1988 ^{c/}	108.3	195.0	d/
1989 ^{c/}	135.7	220.6	48.8
1990 ^{c/}	125.5	317.2	d/
1991 ^{c/}	90.6	252.4	44.9
1992 ^{c/}	97.7	189.4	0.4
1993 ^{c/}	80.2	136.0	67.6
1994	48.2	31.7	d/
1995	67.7	74.3	100.5
1996	70.7	85.4	d/
1997	58.5	130.2	28.5
1998 ^{e/}	26.1	89.5	0.2
1999 ^{e/}	28.7	24.0	28.1

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-39. Puget Sound **commercial net** fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound chinook stocks. (Page 1 of 3)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{b/}		
	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total
ALL CHINOOK (thousands)									
Strait of Juan de Fuca									
1981	0.0	0.1	0.2	0.4	0.9	1.3	0.5	1.0	1.5
1982	0.1	0.3	0.4	0.9	2.2	3.1	1.0	2.5	3.5
1983	0.1	0.1	0.2	0.7	1.6	2.3	0.8	1.7	2.5
1984	0.1	0.0	0.1	1.4	1.1	2.5	1.4	1.1	2.6
1985	0.0	0.1	0.1	0.6	1.5	2.1	0.6	1.5	2.2
1986	0.1	0.2	0.2	1.3	2.7	4.0	1.4	2.8	4.2
1987	0.1	0.5	0.6	1.3	5.2	6.5	1.4	5.7	7.1
1988	0.3	0.9	1.2	2.1	6.6	8.7	2.4	7.5	9.9
1989	0.1	0.3	0.3	1.1	5.2	6.3	1.2	5.5	6.7
1990	0.1	0.4	0.5	0.6	3.1	3.7	0.7	3.5	4.1
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 ^{e/}	0.0	0.0	0.0	1.7	1.9	3.6	1.7	1.9	3.6
1999 ^{e/}	0.0	0.0	0.0	0.7	2.7	3.4	0.7	2.7	3.4
2000 ^{e/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					5.3				
Nooksack-Samish									
1981	48.1	28.2	76.3	10.2	3.6	13.8	58.4	31.7	90.1
1982	54.6	36.1	90.7	15.0	5.6	20.6	69.6	41.7	111.3
1983	33.0	22.3	55.3	19.7	7.4	27.1	52.8	29.7	82.4
1984	69.7	33.7	103.4	18.8	9.6	28.4	88.5	43.2	131.7
1985	64.4	47.5	111.9	16.7	6.5	23.2	81.1	54.0	135.1
1986	50.3	42.9	93.2	10.7	5.3	16.0	60.9	48.3	109.2
1987	31.4	23.2	54.6	5.8	2.7	8.6	37.2	26.0	63.2
1988	19.4	19.6	39.0	5.2	2.7	8.0	24.7	22.4	47.0
1989	43.7	9.1	52.7	18.0	1.9	20.0	61.7	11.0	72.7
1990	45.5	36.5	81.9	13.9	7.9	21.8	59.4	44.4	103.7
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 ^{e/}	13.4	7.9	21.2	5.1	3.1	8.3	18.5	11.0	29.5
1999 ^{e/}	24.9	7.6	32.6	5.7	2.6	8.3	30.6	10.2	40.9
2000 ^{e/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				8.7					

TABLE B-39. Puget Sound **commercial net** fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound chinook stocks. ^{a/} (Page 2 of 3)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{b/}		
	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total
ALL CHINOOK (thousands)									
<u>Skagit</u>									
1981	0.7	13.1	13.7	0.4	8.7	9.1	1.1	21.7	22.8
1982	1.1	13.7	14.8	0.8	10.4	11.3	2.0	24.1	26.1
1983	0.6	6.7	7.3	0.8	9.1	9.9	1.4	15.8	17.2
1984	0.3	2.8	3.1	1.6	13.2	14.8	1.9	16.0	17.9
1985	0.1	9.7	9.9	0.2	16.3	16.5	0.4	26.0	26.4
1986	0.2	4.5	4.7	0.8	18.1	18.9	1.0	22.6	23.6
1987	0.1	4.0	4.1	0.3	9.6	10.0	0.4	13.6	14.0
1988	0.4	3.4	3.8	1.3	12.0	13.2	1.7	15.3	17.0
1989	0.4	6.3	6.6	0.4	6.8	7.2	0.8	13.0	13.8
1990	0.2	2.2	2.3	1.3	17.2	18.5	1.5	19.4	20.8
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 ^{e/}	0.0	0.3	0.3	0.1	14.6	14.7	0.1	14.9	15.0
1999 ^{e/}	0.0	0.3	0.3	0.0	4.9	4.9	0.0	5.2	5.2
2000 ^{e/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					14.9				
<u>Hood Canal</u>									
1981	8.4	2.3	10.6	3.0	0.3	3.2	11.3	2.6	13.9
1982	3.5	2.5	6.0	5.0	0.4	5.4	8.5	2.9	11.4
1983	1.8	2.7	4.6	2.0	1.8	3.8	3.8	4.5	8.3
1984	5.7	4.3	10.0	4.8	2.5	7.3	10.5	6.8	17.2
1985	5.1	6.4	11.6	4.2	5.2	9.5	9.4	11.7	21.0
1986	8.8	6.5	15.4	4.7	2.8	7.5	13.6	9.3	22.9
1987	12.1	6.3	18.4	6.6	2.3	8.8	18.7	8.6	27.3
1988	11.8	4.8	16.6	10.3	2.9	13.2	22.1	7.7	29.8
1989	12.9	5.1	18.0	6.1	1.4	7.5	19.0	6.5	25.5
1990	6.9	1.9	8.7	3.4	0.7	4.1	10.3	2.6	12.9
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 ^{e/}	1.0	0.1	1.1	13.4	1.8	15.2	14.4	1.9	16.3
1999 ^{e/}	7.2	0.9	8.2	18.4	3.0	21.4	25.6	3.9	29.6
2000 ^{e/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				3.4					

TABLE B-39. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound chinook stocks. (Page 3 of 3)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{b/}		
	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total
ALL CHINOOK (thousands)									
Stillaguamish-Snohomish									
1981	8.5	8.8	17.3	3.7	4.0	7.7	12.2	12.8	25.0
1982	2.9	7.2	10.2	2.3	5.2	7.5	5.3	12.4	17.6
1983	2.6	7.1	9.6	1.2	4.9	6.1	3.7	12.0	15.7
1984	3.3	5.6	8.9	1.4	4.1	5.5	4.7	9.7	14.4
1985	2.1	5.8	7.9	1.4	6.3	7.7	3.5	12.1	15.6
1986	5.5	5.4	10.9	0.9	5.8	6.7	6.4	11.2	17.6
1987	1.3	2.9	4.3	1.2	6.0	7.2	2.5	8.9	11.5
1988	2.6	3.7	6.3	1.1	5.2	6.4	3.7	9.0	12.7
1989	4.4	4.0	8.4	1.5	3.9	5.4	5.9	7.9	13.8
1990	3.1	5.1	8.2	1.0	5.1	6.0	4.1	10.2	14.3
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 ^{e/}	7.2	0.1	7.3	1.1	7.9	9.0	8.3	7.9	16.2
1999 ^{e/}	15.2	0.0	15.2	1.6	5.9	7.5	16.8	5.9	22.7
2000 ^{e/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					7.3				
South Puget Sound									
1981	23.9	4.6	28.5	26.1	8.6	34.7	50.0	13.2	63.2
1982	14.1	7.2	21.3	19.1	8.8	27.8	33.2	16.0	49.2
1983	24.2	18.7	42.9	21.8	11.3	33.1	45.9	30.1	76.0
1984	28.8	13.7	42.5	27.8	11.9	39.7	56.5	25.7	82.2
1985	24.7	11.9	36.6	22.0	10.3	32.3	46.6	22.3	68.9
1986	15.1	9.7	24.8	23.8	13.2	37.0	38.8	22.9	61.8
1987	18.9	22.3	41.2	29.7	23.3	53.0	48.7	45.6	94.2
1988	23.4	27.6	51.0	26.9	18.6	45.6	50.3	46.2	96.5
1989	25.0	24.6	49.5	47.4	24.9	72.3	72.4	49.5	121.9
1990	31.7	30.6	62.3	40.3	28.1	68.4	72.0	58.8	130.8
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 ^{e/}	11.7	7.1	18.7	42.5	20.2	62.7	54.5	27.7	82.2
1999 ^{e/}	18.2	8.2	26.4	56.5	18.9	75.4	74.7	27.1	101.8
2000 ^{e/}	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. Does not include fish caught by troll and recreational fisheries.
- c/ Includes estimated off-station returns.
- d/ Fewer than 50.
- e/ Preliminary.

TABLE B-40. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound coho stocks. (Page 1 of 3)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{b/}		
	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total
COHO (thousands)									
<u>Strait of Juan de Fuca</u>									
1981	11.7	1.5	13.3	16.0	3.2	19.2	27.7	4.7	32.5
1982	37.7	11.0	48.7	11.5	10.1	21.6	49.2	21.1	70.3
1983	20.7	2.7	23.4	6.7	4.4	11.1	27.4	7.1	34.5
1984	6.1	0.8	6.9	3.6	5.3	8.9	9.7	6.1	15.8
1985	10.9	1.1	12.0	7.1	2.6	9.7	18.0	3.7	21.7
1986	5.9	3.4	9.3	4.4	10.3	14.7	10.3	13.7	24.0
1987	10.2	4.8	15.1	2.7	5.8	8.5	13.0	10.6	23.6
1988	3.9	1.3	5.1	2.4	4.2	6.6	6.2	5.5	11.7
1989	7.0	2.1	9.1	2.5	6.6	9.1	9.5	8.7	18.2
1990	4.3	1.3	5.7	2.7	3.3	6.0	7.1	4.6	11.7
1991	2.7	1.0	3.7	2.7	4.1	6.8	5.4	5.1	10.6
1992	2.4	0.3	2.7	3.5	6.1	9.5	5.9	6.4	12.3
1993	0.3	0.1	0.3	4.0	3.3	7.4	4.3	3.4	7.7
1994	1.4	0.3	1.7	2.3	2.4	4.6	3.7	2.6	6.3
1995	1.0	2.3	3.4	7.2	5.7	12.9	8.2	8.0	16.3
1996 ^{d/}	4.3	0.1	4.3	7.5	2.4	10.0	11.8	2.5	14.3
1997 ^{d/}	1.0	0.1	1.0	13.9	5.8	19.7	14.9	5.9	20.7
1998 ^{d/}	5.3	1.1	6.3	6.1	17.6	23.7	11.4	18.7	30.0
1999 ^{d/}	2.9	0.5	3.3	6.3	10.2	16.5	9.1	10.6	19.8
2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						14.8			
<u>Nooksack-Samish</u>									
1981	91.4	14.1	105.5	34.3	7.5	41.8	125.7	21.6	147.3
1982	160.4	15.3	175.7	22.0	4.4	26.4	182.4	19.7	202.1
1983	133.7	26.2	159.8	15.2	8.9	24.1	148.9	35.1	183.9
1984	118.9	18.9	137.8	18.6	9.5	28.1	137.5	28.4	165.9
1985	150.4	20.0	170.5	32.0	5.7	37.7	182.4	25.7	208.2
1986	172.3	17.6	189.9	22.0	6.7	28.7	194.4	24.3	218.7
1987	187.0	49.4	236.5	33.3	12.6	45.9	220.4	62.0	282.4
1988	158.0	15.4	173.4	21.2	6.9	28.1	179.2	22.3	201.5
1989	106.0	12.6	118.6	15.8	3.6	19.4	121.8	16.2	138.0
1990	111.0	19.1	130.1	13.1	7.3	20.4	124.1	26.4	150.5
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	63.6	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 ^{d/}	51.0	1.6	52.5	38.2	2.0	40.3	89.2	3.6	92.8
1997 ^{d/}	13.0	2.4	15.4	34.4	6.7	41.1	47.4	9.1	56.5
1998 ^{d/}	17.9	7.5	25.3	21.1	10.3	31.4	39.0	17.8	56.7
1999 ^{d/}	36.6	8.6	45.2	41.7	8.1	49.7	78.3	16.7	75.0
2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				17.9					

TABLE B-40. Puget Sound ^{a/} commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound coho stocks. (Page 2 of 3)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{b/}		
	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total
COHO (thousands)									
<u>Skagit</u>									
1981	18.1	6.4	24.5	42.1	15.0	57.1	60.2	21.4	81.6
1982	12.0	23.0	35.0	4.7	9.0	13.7	16.7	32.0	48.7
1983	4.9	11.1	15.9	10.6	24.0	34.6	15.5	35.1	50.5
1984	5.6	4.2	9.9	44.1	33.0	77.1	49.7	37.2	87.0
1985	5.3	13.3	18.6	7.2	18.0	25.2	12.5	31.3	43.8
1986	9.8	28.4	38.2	15.4	45.0	60.4	25.2	73.4	98.6
1987	7.5	8.2	15.7	30.0	33.0	63.0	37.5	41.2	78.7
1988	5.9	10.9	16.8	10.3	19.0	29.3	16.2	29.9	46.1
1989	4.2	10.6	14.8	6.8	17.0	23.8	11.0	27.6	38.6
1990	4.9	10.9	15.7	6.7	15.0	21.7	11.6	25.9	37.5
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	1.9	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 ^{d/}	0.7	0.4	1.2	18.0	8.3	26.2 ^{e/}	18.7	8.7	27.4
1997 ^{d/}	2.4	7.6	10.0	3.1	32.6	35.7 ^{e/}	5.5	40.2	45.7
1998 ^{d/}	7.2	6.4	13.6	7.9	76.8	84.7	15.1	83.2	98.3
1999 ^{d/}	-	-	11.9	2.4	-	-	-	-	-
<u>2000</u>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>GOAL</u>				<u>30.0</u>					
<u>Hood Canal</u>									
1981	29.9	13.2	43.1	36.6	23.8	60.4	66.5	37.0	103.5
1982	59.2	41.2	100.4	13.8	28.3	42.1	73.0	69.5	142.5
1983	38.2	23.2	61.4	11.3	13.9	25.2	49.5	37.1	86.6
1984	41.5	20.5	62.0	25.4	37.0	62.4	66.9	57.5	124.4
1985	33.7	23.6	57.3	8.0	14.9	22.9	41.7	38.5	80.2
1986	72.8	42.3	115.1	24.8	39.9	64.7	97.5	82.2	179.7
1987	79.1	53.7	132.8	10.1	18.0	28.1	89.3	71.7	160.9
1988	9.2	3.9	13.1	9.5	11.6	21.1	18.7	15.5	34.2
1989	29.1	10.2	39.4	18.6	15.3	33.9	47.8	25.5	73.3
1990	35.9	7.4	43.3	10.5	6.8	17.3	46.4	14.2	60.7
1991	21.6	2.8	24.4	6.4	12.5	18.9	28.0	15.3	43.2
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	32.3	24.8	56.1	80.9	56.2	57.0	113.2
1995	9.5	0.8	10.3	25.2	40.3	65.5	34.7	41.1	75.8
1996 ^{d/}	4.2	0.2	4.4	27.3	37.1	64.3	31.5	37.3	68.7
1997 ^{d/}	7.1	4.0	11.1	41.5	96.4	137.9	48.6	100.4	149.0
1998 ^{d/}	8.3	16.9	25.2	12.4	101.0	113.4	20.7	117.9	138.6
1999 ^{d/}	10.6	11.5	22.0	1.4	16.5	31.0	25.0	28.0	53.1
<u>2000</u>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>GOAL</u>				<u>21.5</u>					

TABLE B-40. Puget Sound ^{a/}commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound coho stocks. (Page 3 of 3)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{b/}		
	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total
COHO (thousands)									
Stillaguamish-Snohomish									
1981	38.6	64.8	103.5	11.9	46.0	57.9	50.5	110.8	161.4
1982	19.9	41.8	61.7	3.7	65.0	68.7	23.6	106.8	130.4
1983	9.2	54.6	63.8	9.0	160.0	169.0	18.2	214.6	232.8
1984	9.7	35.6	45.3	25.9	89.0	114.9	35.6	124.6	160.2
1985	34.8	85.7	120.5	14.2	80.0	94.2	49.0	165.7	214.7
1986	36.3	113.6	149.9	26.2	140.0	166.2	62.5	253.6	316.0
1987	93.4	126.5	219.9	34.0	105.0	139.0	127.4	231.5	358.8
1988	51.0	74.3	125.3	25.0	96.0	121.0	76.1	170.3	246.3
1989	55.5	67.5	123.0	25.5	99.0	124.5	81.0	166.5	247.5
1990	73.2	92.3	165.4	20.0	112.0	132.0	93.1	204.3	297.4
1991	60.3	56.3	116.6	19.2	45.0	64.2	79.5	101.3	180.9
1992	42.8	36.8	79.6	26.4	97.5	123.9	69.2	134.3	203.4
1993	23.7	10.9	34.5	15.2	62.8	78.0	38.8	73.7	112.5
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 ^{d/}	23.5	7.3	30.8	23.6	59.2	82.8	47.1	66.5	113.6
1997 ^{d/}	15.8	17.8	33.6	25.0	69.1	94.1	40.8	86.9	127.7
1998 ^{d/}	17.9	9.5	27.4	18.7	177.0	195.7	37.7	191.8	229.5
1999 ^{d/}	2.1	23.7	25.8	7.0	68.0	75.0	9.1	97.7	100.8
2000 ^{d/}	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				87.0					
South Puget Sound									
1981	245.1	65.0	310.1	73.3	34.0	107.3	318.4	99.0	417.4
1982	419.2	160.5	579.8	87.4	51.2	138.6	506.6	211.7	718.4
1983	401.3	132.3	533.6	93.5	31.1	124.6	494.8	163.4	658.2
1984	367.3	138.9	506.2	80.0	37.4	117.4	447.3	176.3	623.6
1985	341.0	277.7	618.7	48.6	39.6	88.2	389.6	317.3	706.9
1986	547.8	180.2	728.0	72.0	26.9	98.9	619.8	207.1	826.9
1987	706.0	359.4	1065.4	85.2	42.6	127.8	791.2	402.0	1193.2
1988	553.4	267.0	820.3	80.6	37.4	118.0	634.0	304.3	938.3
1989	421.3	110.8	532.1	57.3	14.5	71.8	478.6	125.3	603.9
1990	410.0	205.1	615.1	50.8	27.0	77.8	460.8	232.1	692.9
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	161.8	291.4	141.1	432.5
1995	115.6	50.6	166.2	103.5	32.4	135.9	219.1	83.0	302.1
1996 ^{d/}	56.4	13.6	70.0	107.5	22.0	129.5	163.9	35.6	199.5
1997 ^{d/}	111.4	3.0	114.4	53.1	50.0	103.1	164.5	53.0	217.5
1998 ^{d/}	78.1	5.0	83.1	30.4	22.0	52.4	108.5	27.0	135.5
1999 ^{d/}	14.0	8.6	22.5	26.1	8.9	35.0	40.0	17.5	57.5
2000 ^{d/}	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. Does not include fish caught by troll and recreational fisheries.
- c/ Includes estimated off-station returns.
- d/ Preliminary.
- e/ Calculated using different method than 1981-1996 estimates.

TABLE B-41. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks. ^{a/} (Page 1 of 2)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{b/}		
	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total
PINK (thousands)									
Strait of Juan de Fuca									
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 ^{d/}	0.0	0.0	0.0	0.0	7.3	7.3	0.0	7.3	7.3
GOAL	Not Agreed Upon								
Nooksack-Samish									
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 ^{d/}	0.0	2.4	2.4	0.0	95.0	95.0	0.0	97.4	97.4
GOAL	50.0								
Skagit									
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 ^{d/}	0.0	32.6	32.6	0.0	320.0	320.0	0.0	352.6	352.6
GOAL	330.0*								

TABLE B-41. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks. (Page 2 of 2)

Year	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size ^{b/}		
	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total	Hatchery ^{c/}	Wild	Total
PINK (thousands)									
Hood Canal									
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 ^{d/}	0.0	0.0	0.0	7.6	9.5	17.1	7.6	9.5	17.1
GOAL				Not Agreed Upon					
Stillaguamish-Snohomish									
1981	0.0	38.7	38.7	0.1	108.0	108.1	0.1	146.7	146.8
1983	0.0	48.9	48.9	0.3	324.1	324.4	0.3	373.0	373.3
1985	0.1	170.8	171.0	0.2	502.0	502.2	0.3	672.8	673.2
1987	0.7	84.9	85.6	0.4	271.0	271.4	1.1	355.9	357.0
1989	0.0	313.9	313.9	0.0	150.5	150.5	0.0	464.4	464.5
1991	0.1	50.6	50.7	0.4	260.0	260.4	0.5	310.6	311.2
1993	7.0	2.9	9.9	0.1	210.0	210.1	7.1	212.9	220.0
1995	47.5	16.4	63.9	0.0	309.6	309.6	47.5	326.0	373.5
1997	35.0	24.2	59.2	0.0	192.1	192.1	35.0	216.3	251.3
1999 ^{d/}	11.3	2.2	13.4	0.0	461.5	461.5	11.3	463.7	474.9
GOAL - Stillaguamish				155.0					
GOAL - Snohomish				120.0					
South Puget Sound									
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 ^{e/}	2.4	64.8	67.2	0.3	16.0	16.3	2.7	80.8	83.5
1993 ^{e/}	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 ^{d/}	0.0	0.0	0.1	0.0	4.7	4.7	0.0	4.7	4.8
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. Does not include fish caught by troll and recreational fisheries.

c/ Includes estimated off-station returns.

d/ Preliminary.

e/ Nisqually escapement estimate incomplete in 1993.

TABLE B-42. Puget Sound spring chinook spawning escapement estimates in numbers of adult fish.
 (Page 1 of 1)

Year	Stock						
	Skagit Hatchery	Skagit Natural	NF Nooksack ^{a/} Natural	NF Nooksack Hatchery	SF Nooksack Hatchery/Natural	White River Hatchery ^{b/}	Quilcene Hatchery
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	1979	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	4,571	471	911	4,019	213	2,789	4
2000	1,121	1,021	1,235	2,052	NA	3,189	0
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.

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

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

Year/Area/Species ^{a/}	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions ^{b/}
1971-1978			
<u>Statewide</u>			
All except coho	Apr. 15-May 14	30	
All	May 15-Sept. 30	139	
1979 Statewide			
All except coho	Apr. 15-May 14	30	State waters.
All except coho	May 1-23	23	EEZ.
All	May 15-Sept. 30	139	State waters.
All	May 24-June 15; July 1-Sept. 30	115	EEZ.
1980 Statewide			
All except coho	May 1-15	15	
All	May 16-31; July 1-Sept. 30	108	Closed north of Cape Vizcaino July 1-15, except open in state waters July 4-12.
1981 Statewide			
All except coho	May 1-15	15	
All	June 1-30	30	
All	May 16-31; July 1-Sept. 30	108	State waters.
1982 Statewide			
All except coho	May 1-15	15	Open in state waters south of Pt. Arena Apr. 22-30 (approval of 1982 federal regulations was delayed).
All	May 16-June 15; July 1-Sept. 30	123	Closed north of Pt. Arena June 9-15.
1983 Oregon-California Border to Cape Vizcaino			
All except coho	May 16-31	16	
All	June 1-15; July 1-Aug. 31	77	Klamath River mouth 12 mi square closed in Aug.
All	June 17-27	11	State waters.
<u>Cape Vizcaino to Pt. Arena</u>			
All except coho	May 1-31	31	
All	June 1-15; July 1-Sept. 30	107	
<u>South of Pt. Arena</u>			
All except coho	Apr. 22-May 31	40	
All	June 1-15; July 1-Sept. 30	107	
1984 Oregon-California Border to Pt. Delgada			
All except coho	May 16-June 6; July 16-Aug. 22	60	Klamath River mouth 12 mi square closed in Aug.
All	Aug. 16-22	7	State waters opened by California Legislature; Klamath River mouth 12 mi square closed.
<u>Pt. Delgada to Pt. Arena</u>			
All except coho	May 1-Sept. 30	153	
All	Aug. 16-Sept. 30	46	State waters opened by California Legislature.
<u>South of Pt. Arena</u>			
All except coho	May 1-31	31	
All	June 1-Sept. 30	122	
1985 Oregon-California Border to Pt. Delgada			
All except coho	Closed		
<u>South of Pt. Delgada</u>			
All except coho	May 1-31	31	
All	June 1-Sept. 30	122	
1986 Oregon-California Border to Pt. Delgada			
All	June 16-19; 23-26; June 30-July 5; July 17-24	22	Klamath River mouth 12 mi square closed; no more than 2 coho per chinook.
All except coho	July 25-Aug. 26	33	Klamath River mouth 12 mi square closed.
All	Sept. 8-30	23	Open from south jetty of Humboldt Bay to Punta Gorda 0-6 mi.
<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 5)

Year/Area/Species ^{a/}	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions ^{b/}
1987 Oregon-California Border to Pt. Delgada			
All	June 1-3; 7-10; 14-25	19	Klamath River mouth 12 mi square closed; 2 coho, then no more than 1 coho per chinook.
All	Sept. 8-30	23	Open from Trinidad Head to Punta Gorda 0-6 mi.
Pt. Delgada to Pt. Arena			
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	
South of Pt. Arena			
All except coho	May 1-31; July 22-Sept. 30	102	
All	June 1-July 21	51	
1988 Oregon-California Border to Horse Mt.			
All	June 5-7	3	Klamath River mouth 12 mi square closed.
All	Sept. 1-8	8	Open from Trinidad Head to Punta Gorda 0-6 mi.
Horse Mt. to Pt. Arena			
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	
South of Pt. Arena			
All except coho	May 1-31; Aug. 20-Sept. 30	42	
All	June 1-Aug. 19	80	
1989 Oregon-California Border to Punta Gorda			
All	June 5-8	4	Klamath River mouth 12 mi square closed.
All except coho	Aug. 18-20; 22-31	13	Klamath River mouth 12 mi square closed.
All	Sept. 15-Oct. 31	47	Open from Trinidad Head to Punta Gorda 0-6 mi.
Horse Mt. to Pt. Arena			
All except coho	May 1-17	17	
All	June 5-17; July 2-14; July 29-Sept. 30	90	
South of Pt. Arena			
All except coho	May 1-31	31	
All	June 1-Sept. 30	122	
1990 Oregon-California Border to Punta Gorda			
All except coho	Aug. 1-6; 8-31;	30	Klamath River mouth 12 mi square closed.
All	Sept. 3-Oct. 31	59	Open from Trinidad Head to Punta Gorda 0-6 mi.
Horse Mt. to Pt. Arena			
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	
South of Pt. Arena			
All except coho	May 1-31; Sept. 22-30	40	
All	June 1-Sept. 21	113	
1991 Oregon-California Border to Punta Gorda			
All	Sept. 1-Oct. 31	61	Open from Trinidad Head to Punta Gorda 0-6 mi.
Horse Mt. to Pt. Arena			
All	Aug. 1-2; 12-27;	18	
All except coho	Aug. 3-11; Aug. 28-Sept. 30	43	
Pt. Arena to Pt. San Pedro			
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	
South of Pt. San Pedro			
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 5)

Year/Area/Species ^{a/}	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions ^{b/}
1992 Oregon-California Border to Horse Mt.			
<u>Closed</u>			
<u>Horse Mt. to Pt. Arena</u>			
<u>Closed</u>			
<u>Pt. Arena to Pt. San Pedro</u>			
All except coho May 1-10; Aug. 8-Sept. 30	64	May 1-10, open only south of Pt. Reyes.	
All Aug. 1-7	7		
<u>South of Pt. San Pedro</u>			
All except coho May 1-31; Aug. 8-Sept. 30	85		
All June 1-Aug. 7	68		
1993 Oregon-California Border to Horse Mt.			
<u>Closed</u>			
<u>Horse Mt. to Pt. Arena</u>			
All except coho May 1-6; Sept. 1-30	36	May 1-6, open only 0-3 mi.	
<u>Pt. Arena to Pt. San Pedro</u>			
All except coho May 1-31; July 26-Aug. 31; Sept. 6-30	93		
<u>South of Pt. San Pedro</u>			
All except coho May 1-Aug. 31; Sept. 6-30	148		
1994 Oregon-California Border to Horse Mt.			
<u>Closed</u>			
<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		
1995 Oregon-California Border to Horse Mt.			
<u>Closed</u>			
<u>Horse Mt. to Pt. Arena</u>			
All except coho Sept. 1-30	30		
<u>Pt. Arena to Pt. Reyes</u>			
All except coho July 5-Sept. 30	88		
<u>Pt. Reyes to Pt. San Pedro</u>			
All except coho May 24-July 4; July 19-Sept. 30	86		
<u>South of Pt. San Pedro</u>			
All except coho May 1-June 15; July 19-Sept. 30	120		
1996 Oregon-California Border to Humboldt South Jetty			
All except coho Aug. 15-22	8	No more than 4 spreads per line; minimum size limit 27 in; 30 fish daily landing limit; Klamath River mouth 12 mi square closed.	
All except coho Sept. 1-14	14	No more than 4 spreads per line; minimum size limit 27 in; 30 fish daily landing limit; Klamath River mouth 12 mi square closed.	
<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. San Pedro 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 5)

Year/Area/Species ^{a/}	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions ^{b/}
1997 Oregon-California Border to Humboldt South Jetty			
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; Klamath River mouth 12 mi square closed.
Horse Mt. to Pt. Arena			
All except coho Sept. 1-30		30	
Pt. Arena to Pt. Reyes			
All except coho July 16-Sept. 30		77	
Pt. Reyes to Pt. San Pedro			
All except coho July 1-Sept. 30		92	
Pt. San Pedro to U.S.-Mexico Border			
All except coho May 1-31; June 23-July 18; Sept. 1-30		87	
Pt. Lopez to Pt. Mugu			
All except coho Apr. 15-22 (10,000 chinook quota)		8	All fish must be landed within the area.
1998 Oregon-California Border to Humboldt South Jetty			
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; Klamath River mouth 12 mi square closed.
Horse Mt. to Pt. Arena			
All except coho Sept. 1-30		30	
Pt. Arena to Pt. Reyes			
All except coho Aug. 1-Sept. 30		61	
Fort Ross to Pt. Reyes			
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.
Pt. Reyes to Pt. San Pedro			
All except coho July 1-Sept. 30		92	
Pt. San Pedro to Pt. Sur			
All except coho May 1-31; June 16-Sept. 30		138	
Pt. Sur to U.S.-Mexico Border			
All except coho May 1-Sept. 30		153	
1999 Oregon-California Border to Humboldt South Jetty			
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; Klamath River mouth 12 mi square closed.
Horse Mt. to Pt. Arena			
All except coho Sept. 1-30		30	
Pt. Arena to Pt. Reyes			
All except coho July 17-Sept. 30		76	Minimum size limit 27 in.
Fort Ross to Pt. Reyes			
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.
Pt. Reyes to Pt. San Pedro			
All except coho July 1-Sept. 30		92	Minimum size limit 27 in.
Pt. San Pedro to U.S.-Mexico Border			
All except coho May 1-Aug. 21; Sept. 1-30		143	Minimum size limit 27 in. after June 30.
Pillar Pt. to Pigeon Pt.			
All except coho Apr. 14-16 (3,000 chinook quota)		3	Test fishery. Landing limit 30 fish per day; all fish must be landed within the area.
Pt. Piedras Blancas to Pt. Conception			
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.
Pt. Conception to Pt. Pitas			
All except coho April 14-16; 21-23; 26-28 (2,500 chinook quota)		9	Test fishery. Same as above.

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

Year/Area/Species ^{a/}	Season Dates	Days	Area, Minimum Size, Gear and Other Restrictions ^{b/}
2000 Oregon-California Border to Humboldt South Jetty			
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; Klamath River mouth 12 mi square closed. Special gear restriction.	
Horse Mt. to Pt. Arena			
All except coho Sept. 1-30	30	Special gear restriction. ^{c/}	
Pt. Arena to Pt. Reyes			
All except coho July 18-Sept. 30	75	Minimum size limit 27 in. Special gear restriction. ^{c/}	
Fort Ross to Pt. Reyes			
All except coho July 1-3; 5-15 (4,500 chinook quota)	14	Minimum size limit 26 in.; open 0-6 nautical miles; landing limit 30 fish per day; all fish must be landed within the area. Special gear restriction.	
Pt. Reyes to Pt. San Pedro			
All except coho May 29-Sept. 30	124	Minimum size limit 26 in. thru June 30, and 27 in. thereafter. Special gear restriction.	
Pt. San Pedro to U.S.-Mexico Border			
All except coho May 1-Aug. 27	119	Minimum size limit 26 in. thru June 30, and 27 in. thereafter. Special gear restriction.	

a/ Major ports located as follows: Oregon-California border to Horse Mt. includes Crescent City and Eureka; Horse Mt. to Pt. Arena includes Shelter Cove and Fort Bragg; Pt. Arena to Pt. Reyes includes Bodega Bay; Pt. Reyes to Pt. San Pedro includes San Francisco and Sausalito Bay; South of Pt. San Pedro includes Half Moon Bay, Santa Cruz, Moss Landing, Monterey, and Morro Bay.

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/ 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)
				All Salmon
1977	North of Tomales Pt.	All Year	3	22 ^{a/}
	South of Tomales Pt.	Feb. 12-Nov. 13	3	22 ^{a/}
1978	North of Tomales Pt.	All Year	3	22 ^{a/}
	South of Tomales Pt.	Feb. 18-Nov. 12	3	22 ^{a/}
1979	Statewide	Feb. 17-Oct. 14	2	22 ^{a/}
1980	Statewide	Feb. 17-Oct. 13	2	22 ^{a/}
1981	Statewide	Feb. 14-Nov. 15	2	22 ^{a/}
1982	Statewide	Feb. 13-Nov. 14	2	22 ^{a/}
1983	Statewide	Feb. 12-Nov. 13	2	22 ^{a/}
1984 ^{b/}	North of Cape Vizcaino ^{c/}	Feb. 18-June 15; July 1-Nov. 18	2	20
	South of Cape Vizcaino	Feb. 18-Nov. 18	2	20
1985 ^{b/}	Statewide ^{d/}	Feb. 16-Nov. 17	2	20
1986 ^{b/}	North of Pt. Delgada ^{c/}	Feb. 16-Mar. 28; May 24-Sept. 7	2 ^{e/f/}	20
	South of Pt. Delgada	Feb. 15-Nov. 16	2	20
1987 ^{g/}	North of Pt. Delgada ^{c/}	May 23-Sept. 13	2 ^{f/}	20
	South of Pt. Delgada	Feb. 14-Nov. 15	2	20
1988 ^{g/}	North of Horse Mt. ^{c/}	May 28-Sept. 11 ^{h/} Sept. 12-30 ^{i/}	2 ^{f/} 2 ^{f/}	20 20
	South of Horse Mt.	Feb. 13-Nov. 13	2	20
1989 ^{g/}	North of Horse Mt. ^{c/}	May 1-Sept. 30	2 ^{f/}	20
	South of Horse Mt.	Feb. 18-Nov. 12	2	20
1990 ^{g/}	North of Horse Mt.	May 1-Sept. 9 ^{h/} Sept. 10-Oct. 31 ^{h/}	2 ^{f/m/} 2 ^{f/}	20 20
	South of Horse Mt. ^{j/}	Feb. 17-Nov. 18	2	20
1991 ^{g/}	North of Horse Mt. ^{c/}	May 25-July 28 ^{k/} Aug. 31-Sept. 30 ^{l/} Oct. 1-31 ^{h/}	2 ^{f/m/} 2 ^{f/m/} 2 ^{f/}	20 20 20
	Horse Mt. to Pt. Arena	Feb. 16-Nov. 17	2	20
1992 ^{g/}	South of Pt. Arena ^{m/}	Mar. 2-Nov. 3	2	20
	North of Horse Mt.	July 6-8; July 13-15; July 20; Sept. 1-7	1	20
1992 ^{g/}	Horse Mt. to Pt. Arena	Feb. 15-May 31; June 30-July 16; Sept 1-Nov. 15	2	20
	Pt. Arena to Pt. San Pedro ^{o/}	Feb. 29-May 31; June 30-Nov. 1 June 1-29 ^{p/}	2 2	20 20
1993 ^{g/}	South of Pt. San Pedro	Feb. 29-Nov. 1	2	20
	North of Horse Mt. ^{c/}	May 1-June 19; July 14-Aug. 28 ^{q/} Sept. 1-6	1 1	20 20
1993 ^{g/}	Horse Mt. to Pt. Arena	Feb. 13-Nov. 14	2	20
	South of Pt. Arena ^{r/}	Feb. 27-Oct. 31	2 ^{s/}	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)
				All Salmon
1994 ^{g/}	North of Horse Mt. ^{c/t/}	May 1-June 7; Aug. 27-31; Sept. 1-5	2	20
	Horse Mt. to Pt. Arena ^{w/}	Feb. 12-June 30; Aug. 1-Nov. 13	2	20
	South of Pt. Arena ^{u/v/}	Feb. 26-Oct. 30	2	20
1995 ^{g/}	North of Horse Mt. ^{c/t/}	May 17-July 1; Aug. 16-18 ^{g/} Sept. 1-9	1 ^{f/} 1 ^{f/}	20 20
	Horse Mt. to Pt. Arena ^{w/}	Feb. 18-June 30; Aug. 1-Nov. 12	2	20
	South of Pt. Arena ^{u/v/}	Mar. 4-Oct. 29	2	20
1996 ^{g/}	North of Horse Mt. ^{c/t/w/}	May 12-July 7; Aug. 18-Sept. 21	1 ^{f/}	20
	Horse Mt. to Pt. Arena ^{t/w/x/}	Feb. 17-July 7; Aug. 1-Nov. 17	2	24
	Pt. Arena to Pt. San Pedro ^{t/v/w/}	Mar. 2-Oct. 14 ^{y/}	2	24 ^{z/}
	South of Pt. San Pedro ^{t/w/}	Mar. 2-Aug. 25 ^{y/}	2	24 ^{z/}
1997 ^{g/}	North of Horse Mt. ^{c/t/w/}	May 24-30; June 17-July 6; Aug. 12-Sept. 14	1 ^{f/}	20
	Horse Mt. to Pt. Arena ^{t/w/x/}	Feb. 15-July 6; Aug. 1-Nov. 16	2	24
	Pt. Arena to Pigeon Pt. ^{t/v/w/x/}	Mar. 29-Nov. 2	2	24 ^{aa/}
	South of Pigeon Pt. ^{t/w/x/}	Mar. 15-Oct. 19	2	24
1998 ^{g/}	North of Horse Mt. ^{c/t/w/}	May 23-June 10; June 21-July 5; Aug. 11-Sept. 13	1 ^{f/}	20
	Horse Mt. to Pt. Arena ^{t/w/x/}	Feb. 14-July 5; Aug. 1-Nov. 15	2	24
	Pt. Arena to Pigeon Pt. ^{t/v/w/x/}	Mar. 28-Nov. 1	2	24 ^{aa/}
	South of Pigeon Pt. ^{t/w/x/}	Mar. 14-Sept. 7	2	24
1999 ^{g/}	North of Horse Mt. ^{c/t/w/}	May 29-July 4; July 29-Sept. 14	1 ^{f/}	20
	Horse Mt. to Pt. Arena ^{t/w/x/}	Feb. 13-July 4; July 25-Nov. 14	2	24
	Pt. Arena to Pigeon Pt. ^{t/v/w/x/}	Mar. 27-Oct. 31	2	24 ^{aa/}
	South of Pigeon Pt. ^{t/w/x/}	Mar. 14-Sept. 6	2	24 ^{aa/}
2000 ^{bb/}	North of Horse Mt. ^{c/t/w/}	May 27-July 6; July 29-Sept. 10	1 and 2 ^{cc/f/}	20
	Horse Mt. to Pt. Arena ^{t/w/x/}	Feb. 12-July 6; July 22-Nov. 12	2	20 ^{dd/}
	Pt. Arena to Pigeon Pt. ^{t/w/x/}	Apr. 15-Nov. 5	2	20 ^{dd/}
	South of Pigeon Pt. ^{t/w/x/}	Apr. 1-Oct. 1	2	20 ^{dd/}

- a/ Except that 1 salmon per day could be less than 22 inches, but not less than 20 inches.
- b/ Only single-point barbless hooks.
- c/ The 12-mile square off the Klamath River mouth closed during the month of Aug.
- 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; 12-mile square closed off Klamath River mouth Aug. 1-31.
- e/ Prior to June 23, not more than 1 coho and 1 chinook.
- f/ After May 1, not more than 6 salmon in any 7 consecutive days.
- g/ Only single-point barbless hooks north of Pt. Conception. In 1993, only one rod could be used per angler north of Pt. Conception (see footnote ^{w/} for similar restriction on the number of rods in 1996-1998).
- h/ Open only from Trinidad Head to Punta Gorda inside 6 miles.
- i/ Only 1 could be a chinook, June 30-Aug. 15.
- j/ A control zone near the mouth of San Francisco Bay closed Mar. 1-Apr. 30 and Nov. 1-18.
- 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.

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

- n/ Control zone at the mouth of San Francisco Bay closed Mar. 2-31.
- o/ Control zone at the mouth of San Francisco Bay closed Feb. 29-Apr. 3.
- p/ Open inside conservation zone near the mouth of San Francisco Bay.
- q/ Open Wednesday through Saturday only.
- r/ Control zone at the mouth of San Francisco Bay closed Feb. 27-Apr. 2.
- s/ Sept. 1 through end of season only 1 fish of the 2-fish bag limit could be 26 inches or longer.
- t/ All salmon except coho.
- u/ All salmon through Apr. 30; thereafter, all salmon except coho.
- v/ Control zone at mouth of San Francisco Bay closed from opening of season through Mar. 31.
- w/ All persons fishing for salmon, and all persons fishing from a boat with salmon on board, may use no more than one rod per angler north of Point Conception.
- x/ 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, the size, number, and spacing of hooks was restricted.
 - 1997: May 1-Sept. 1 - when fishing with bait and 1 pound or less of weight, the size, number, and spacing of hooks was restricted, and circle hooks were required beginning Sept. 2.
 - 1998: When fishing by any means other than trolling, the number and spacing of hooks was restricted, and circle hooks required, except circle hooks were not required when fishing with artificial lures without bait.
 - 1999: Same as 1998.
 - 2000: Same as 1998.
- y/ 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.
- z/ After July 1, minimum size limit 26 inches; except the 24 inch limit remained in effect within state waters through July 14.
- aa/ 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.
- bb/ Only two single-point barbless hooks could be used north of Pt. Conception.
- cc/ Bag limit of 1 fish May 27-July 6; bag limit of 2 fish July 29-Sept. 10.
- dd/ Except 24 inches prior to June 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				
1979	North of Cape Falcon	May 1-31	July 1-24; Aug. 4-31 ^{a/}	31	52	28	16
	Cape Falcon to OR/CA Border	May 1-31; Sept. 4-Oct. 31	July 1-Sept. 3 ^{b/}	89	65	26	16
	Cape Blanco to Humbug Mt. and Goat Island to OR/CA Border	Nov. 1-30 ^{c/}	-	30	-	26	-
1980	North of Cape Falcon	May 1-31	July 15-Sept. 8	31	56	28	16
	Cape Falcon to Cape Blanco	May 1-31; June 16-30; Sept. 9-Oct. 31	July 15-Sept. 8	99	56	26	16
	Cape Blanco to OR/CA Border	May 1-31; Sept. 9-Oct. 31	July 15-Sept. 8	84	56	26	16
	Cape Blanco to Humbug Mt. and Goat Island to OR/CA Border	Nov. 1-30 ^{c/}	-	30	-	26	-
1981	North of Cape Falcon	May 1-31	July 15-Aug. 21 ^{d/e/}	31	38	28	16
	Cape Falcon to OR/CA Border	May 1-31; Aug. 22-Sept. 8 ^{f/} ; Sept. 9-Oct. 31	July 1-Aug. 21 ^{e/}	102	52	26	16
	Cape Blanco to Humbug Mt. and Goat Island to OR/CA Border	Nov. 1-30 ^{c/}	-	30	-	26	-
1982	North of Cape Falcon	May 1-31	July 1-8	31	8	28	16
	Cape Falcon to Cape Blanco	May 1-June 15; July 13-Oct. 31	July 1-12	157	12	26	16
	Cape Blanco to OR/CA Border	May 1-June 8; July 13-Oct. 31	July 1-12	150	12	26	16
	Cape Blanco to Humbug Mt. and Goat Island to OR/CA Border	Nov. 1-30 ^{c/}	-	30	-	26	-
1983	North of Cape Falcon	May 1-31	July 1-31; g/ Aug. 10-Sept. 8 ^{h/}	31	61	28	16
	Cape Falcon to Cape Kiwanda	May 1-31	Aug. 1-Sept. 4	103	35	26	16
	Cape Kiwanda to Heceta Head	May 1-31; June 1-15; Sept. 5-Oct. 31 ^{i/}	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 ^{j/}	July 1-25	144	25	26	16
	Cape Blanco to OR/CA Border	May 16-31; June 1-15; July 26-Sept. 15 ^{j/}	July 1-25	114	25	26	16
	Cape Blanco to Humbug Mt.	Oct. 1-31	-	30	-	26	-
		Nov. 1-30 ^{c/}					

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

Year	Area	All-Salmon-Except-Coho	Seasons		Number of Days	Minimum Size Limit
			All Salmon	All Coho		
1984	North of Cape Falcon	May 1-7	-	-	7	-
	Columbia River to Cape Falcon	-	Aug. 4-6	-	3	28
	Cape Falcon to Cape Blanco	May 1-June 15; July 1-Sept. 21 ^k	-	129	-	16
	Manhattan Beach to Pyramid Rock	Oct. 1-31 ^c	-	31	-	-
	Cape Blanco to OR/CA Border	May 16-June 6; July 16-Aug. 22	-	60	-	-
1985	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 30 ^d	-	61	-	-
	North of Cape Falcon	May 1-14; May 21-31	Aug. 21	25	1	28
	Cape Falcon to Cape Blanco	May 1-June 30; July 27-Oct. 31	July 1-28 ^l	158	26	16
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 30 ^d	-	61	-	-
	Tower Rock to Cape Blanco	Nov. 1-30 ^c	-	30	-	-
1986	North of Cape Falcon	May 1-10; 14-17; 24-27; 30-31	Aug. 2-3; Aug. 7-9	20	5	28
	Cape Falcon to Cape Perpetua	May 1-June 30; July 25-Oct. 31	July 1-20; July 23-24 ^m	160	22	16
	Cape Perpetua to Cape Blanco	May 1-June 30; July 25-Oct. 31	July 1-20; July 23-24 ⁿ	160	22	16
	Twin Rocks to Pyramid Rock	Nov. 1-15	-	15	-	26
	Sisters Rocks to Chetco Pt. of	May 1-June 6	-	37	-	26
C-10	Cape Blanco to OR/CA Border	July 25-Aug. 26	June 16-19; 23-26; June 30-July 5; July 17-24 ^p	24	22	22
	Sisters Rocks to Mack Arch	Aug. 29	-	1	-	-
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 26	-	57	-	-
	May 1-10; May 14-15	July 25-26	12	2	28	16
	May 1-July 14; Sept. 16-Oct. 31	July 15-28; Aug. 1-Sept. 15 ^{q/l}	121	60	26	16
1987	Cascade Head to Cape Perpetua	July 15-28; Aug. 1-Sept. 15 ^{r/s}	121	60	26	16
	Cape Perpetua to Cape Blanco	July 1-28; Aug. 1-Sept. 15 ^{r/u}	107	74	26	16
	Sisters Rocks to Chetco Pt. of	May 1-14	-	14	-	-
	Cape Blanco to OR/CA Border	June 1-3; June 7-10; June 14-25 ^v	-	19	26	22
	Cape Blanco to Humbug Mt. ^d	Oct. 1-Nov. 30	-	61	-	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	
1988	North of Cape Falcon	May 1-June 14	-	45	-	28
	Cape Falcon to Cascade Head	May 1-June 30; Aug. 20-Oct. 31	July 1-Aug. 19	134	50	26
	Cascade Head to Cape Arago	May 1-June 30; Aug. 20-Oct. 31	July 1-13; July 16-Aug. 19 ^v	134	48	26
	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
	Sisters Rocks to Chetco Pt. ^{a/}	May 1-4	-	4	-	26
	Orford Reef Red Buoy to ORICA Border	-	June 5-7	-	3	26
	Sisters Rocks to Mack Arch ^{a/}	Sept. 1-14	-	14	-	26
	Orford Reef Red Buoy to Humbug Mt. ^{c/}	Oct. 1-31	-	31	-	26
	Cape Blanco to Humbug Mt. ^{c/}	Nov. 1-30	-	30	-	26
1989	North of Cape Falcon	May 1-June 8; June 13-15	Aug. 21; Aug. 24-Sept. 10 ^{v/w/}	42	19	28
	Cape Falcon to Cascade Head	May 1-July 11; Aug. 18-Oct. 31	July 12-14; July 18-Aug. 17 ^y	147	34	26
	Cascade Head to Cape Arago	May 1-June 23; Aug. 18-Oct. 31	July 1-14; July 18-Aug. 17 ^y	129	45	26
	Cape Arago to Orford Reef Red Buoy	May 1-June 23; Sept. 1-Oct. 31	July 1-14; Aug. 1-Aug. 17 ^y	115	31	26
	Orford Reef Red Buoy to Humbug Mt. ^{c/}	Oct. 1-31	-	31	-	26
	Cape Blanco to Humbug Mt. ^{c/}	Nov. 1-30	-	30	-	26
	Humbug Mt. to ORICA Border	Aug. 18-20; Aug. 22-31 ^{z/}	June 5-8 ^{z/}	13	4	26
	Sisters Rocks to House Rock ^{a/}	May 1-2	-	2	-	26
	Sisters Rocks to Mack Arch ^{a/}	Sept. 1-14	-	14	-	26
1990	North of Cape Falcon	May 1-14; 18-27; May 31-June 2; June 8-11; June 14	Aug. 18-21; 25-26; Aug. 30-Sept. 14; Sept. 18-19; Sept. 22-Oct. 15 ^{aa/}	32	48	28
	Cape Falcon to Cascade Head	May 1-June 25; July 4-15; Sept. 1-Oct. 31	July 16-Aug. 31 ^{bb/}	129	47	26
	Cascade Head to Cape Arago	May 1-June 25; Aug. 1-Oct. 31	July 4-31 ^{cc/}	148	28	26
	43°30'00"N to Cape Arago ^{c/}	-	Nov. 1-14 ^{dd/}	-	14	26
	Cape Arago to Humbug Mt.	May 1-June 25; Aug. 1-6; Aug. 15-Oct. 31	July 4-9; July 18-23 ^{ee/}	140	12	26
	Sisters Rocks to House Rock ^{a/}	May 1-24	-	24	-	26
	Sisters Rocks to ORICA Border	Aug. 1-6; Aug. 8-31	-	30	-	26
	Sisters Rocks to Mack Arch ^{a/}	Sept. 3-16	-	14	-	26

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

Year	Area	All-Salmon-Except-Coho	All Salmon	Seasons		Number of Days	Minimum Size Limit
				All Except Coho	All Coho		
1991	North of Cape Falcon	May 1-June 15	Aug. 10-11 ee/	Sept. 1-2 ff/		46	4
	Cape Falcon to Cascade Head	May 1-June 30; gg/ July 15-23;	July 1-14			162	14
		Aug. 1-Oct. 31					16
	Cascade Head to Florence South Jetty	May 1-June 23; gg/ July 12-28; Aug. 1-Oct. 31	June 24-July 11			158	18
	Florence South Jetty to Cape Arago	July 12-14; Aug. 1-9	June 24-July 11			12	18
	Florence South Jetty to Humbug Mt.	Sept. 1-Oct. 31	-			61	-
	Sisters Rocks to Mack Arch	Sept. 1-15 ^{c/}	-			15	-
		Sept. 1-15 ^{c/}					-
	North of Cape Falcon	May 1-June 15	July 20-21; 25-27; July 31-Aug. 2 ^{g/h/v/}			46	17
		Aug. 6-8; 12-14; Aug. 20-22 ^{g/h/v/}					16
1992	Cape Falcon to Cascade Head	May 1-31; gg/ Sept. 1-Oct. 31	July 22-Aug. 21; ^{p/}	Aug. 22-31 ^{v/}		92	41
	Cascade Head to Florence South Jetty	May 1-31; gg/ Aug. 8-Oct. 31	July 22-Aug. 7 ^{p/}			116	17
	Cape Blanco to Humbug Mt.	Oct. 24-26 ^{c/}	-			3	-
		Oct. 24-26 ^{c/}					-
	North of Cape Falcon	May 1-June 15	July 14-17; 21-24; 28-31; Aug. 4-6;			46	29
		27-28; Sept. 1-4; 9-12; 16-19 ^{k/p/}					16
	Cape Falcon to Florence South Jetty	May 1-Oct. 31 gg/	-			184	-
	Florence South Jetty to Cape Arago	May 1-June 30; Sept. 1-Oct. 31 gg/	-			122	-
	Cape Arago to Humbug Mt.	May 1-31; Sept. 1-Oct. 31 gg/	-			92	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 ^{c/}	-			30	26
1993	North of Cape Falcon	-	-	-	-	-	-
	Cape Falcon to Florence South Jetty	May 1-June 30; Oct. 1-31 gg/				92	26
	Florence South Jetty to Cape Arago	May 1-June 30; Sept. 1-Oct. 31 gg/				15	26
	Cape Arago to Humbug Mt.	May 1-31; Sept. 1-Oct. 31 gg/				122	26
	Cape Blanco to Humbug Mt.	Nov. 1-30 ^{c/}				122	26
		Nov. 1-30 ^{c/}					-
	Sisters Rocks to House Rock	May 1-2; 5-6; 10-11; 14-15; 18-31 o/gg/				7	26
	Sisters Rocks to Mack Arch	Aug. 8-31 o/gg/				22	26
	Goat Island to Red Pt.	Oct. 10-25; 30-31 c/z/gg/				24	-
		Oct. 10-25; 30-31 c/z/gg/				18	26
C-12	North of Cape Falcon	-	-	-	-	-	-
	Cape Falcon to Cascade Head	May 1-June 30; Oct. 1-31 gg/				92	26
	Twin Rocks to Pyramid Rock	Nov. 1-15 c/gg/				15	26
	Cascade Head to Florence South Jetty	May 1-June 30; Sept. 1-Oct. 31 gg/				122	26
	Florence South Jetty to Humbug Mt.	May 1-June 30; Sept. 1-Oct. 31 gg/				122	26
	Cape Blanco to Humbug Mt.	Nov. 1-7 c/gg/				7	26
	Sisters Rocks to House Rock	May 1-2; 5-6; 10-11; 14-15; 18-31 o/gg/				22	26
	Sisters Rocks to Mack Arch	Aug. 8-31 o/gg/				24	-
	Goat Island to Red Pt.	Oct. 10-25; 30-31 c/z/gg/				18	26

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

Year	Area	Seasons		All	All Except Coho	All Salmon	All Coho	Salmon	Coho	Chinook	Coho	Minimum Size Limit
		All	Salmon									
1995	North of Cape Falcon	-	-	-	-	-	-	-	-	-	-	26
	Cape Falcon to Cape Arago	May 1-June 30; Aug. 1-Oct. 31 g/q/	-	153	-	-	-	-	-	-	-	26
	Cape Arago to Humbug Mt.	May 1-June 30; Sept. 1-Oct. 31 g/q/	-	122	-	-	-	-	-	-	-	26
	Cape Blanco to Humbug Mt.	Nov. 1-7 mm/mm/	-	7	-	-	-	-	-	-	-	26
	Sisters Rocks to House Rock	May 1-2; 5-6; 10-11; 14-15; 18-31 ^{oo/rr}	-	22	-	-	-	-	-	-	-	26
	Sisters Rocks to Mack Arch	July 24-25 ^{oo/rr}	-	2	-	-	-	-	-	-	-	26
	Goat Isl. to 42°01'20" N	Oct. 10-20 pp/mm/	-	11	-	-	-	-	-	-	-	26
1996	North of Cape Falcon	-	-	-	-	-	-	-	-	-	-	-
	Cape Falcon to Cape Arago	May 1-Jun. 30; Aug. 7-Oct. 31 g/q/q/	-	147	-	-	-	-	-	-	-	26
	Cape Arago to OR/CA Border	May 1-4; May 8-11; May 15-June 4 g/q/	-	29	-	-	-	-	-	-	-	26
	Cape Arago to Humbug Mtn.	Aug. 7-Oct. 31 g/q/	-	86	-	-	-	-	-	-	-	26
	Cape Blanco to Humbug Mtn.	Nov. 1-30 mm/mm/	-	30	-	-	-	-	-	-	-	26
	Sisters Rocks to Mack Arch	Aug. 3-4; 7-8; 11-12; 15-31 ^{rr/rr}	-	23	-	-	-	-	-	-	-	26
	Goat Island to 42°01'20" N	Oct. 14-31 ^{rr/rr/rr}	-	18	-	-	-	-	-	-	-	26
1997	North of Cape Falcon	May 1-June 15	-	46	-	-	-	-	-	-	-	28
	Cape Falcon to Cape Arago	Apr. 15-June 27; Aug. 1-31; Sept. 4-Oct. 31 g/q/q/	-	163	-	-	-	-	-	-	-	26
	Twin Rocks to Pyramid Rock	Nov. 1-15 ^{c/g/q/}	-	15	-	-	-	-	-	-	-	26
	Cape Arago to OR/CA Border	Apr. 15-May 28	-	44	-	-	-	-	-	-	-	26
	Cape Arago to Humbug Mtn.	Aug. 1-Oct. 31 g/q/	-	92	-	-	-	-	-	-	-	26
	Cape Blanco to Humbug Mtn.	Nov. 1-30 mm/mm/	-	30	-	-	-	-	-	-	-	26
	Sisters Rocks to Mack Arch	Aug. 1-2; 5-6; 9-10; 13-31 ^{rr/rr}	-	25	-	-	-	-	-	-	-	26
	Goat Island to 42°01'20" N	Oct. 13-25; 29-30 ^{rr/rr/rr/rr}	-	15	-	-	-	-	-	-	-	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	All-Salmon-Except-Coho	All Coho	All Salmon	All Coho	Chinook
1998	North of Cape Falcon	May 1-12; 20-23; June 2-4		19	-	28	-
	Cape Falcon to Heceta Banks (43°58'00")	Apr. 15-June 30; Aug. 1-28; Sept. 1-Oct. 31 ^{a/g/q}		166	-	26	-
	Twin Rocks to Pyramid Rock	Nov. 1-15 ^{c/g/g/}		15	-	26	-
	Heceta Banks (43°58'00") to Humbug Mt.	Apr. 15-June 30; Aug. 1-26; Sept. 1-Oct 31 ^{g/g/}		164	-	26	-
	Humbug Mt. to OR/CA Border	Apr. 15-May 31 ^{g/g/}		47	-	26	-
	Cape Blanco to Humbug Mtn.	Nov. 1-30 ^{m/m/m/m/}		30	-	26	-
	Sisters Rocks to Mack Arch	Aug. 1-2; 5-6; 9-10; 13-31 ^{r/r/}		25	-	26	-
	Goat Island to 42°01'20"N	Oct. 15-31 ^{m/p/p/}		17	-	26	-
1999	North of Cape Falcon	May 1-June 15		46	-	28	-
	Cape Falcon to Humbug Mt.	Apr. 1-July 17; Aug. 1-29; Sept. 1-Oct. 31 ^{g/g/q/q/}		198	-	26	-
	Twin Rocks to Pyramid Rock	Nov. 1-15 ^{c/g/g/}		15	-	26	-
	Cape Blanco to Humbug Mtn.	Nov. 1-Dec. 15 ^{m/m/m/m/}		45	-	26	-
	Humbug Mt. to OR/CA Border	May 1-31 ^{g/g/}		31	-	26	-
	Sisters Rocks to Mack Arch	Aug. 1-31 ^{r/r/}		31	-	26	-
	Goat Island to 42°01'20"N	Oct. 15-31 ^{m/p/p/}		17	-	26	-
	South of House Rock	Sept. 1-30 ^{s/s/}		30	-	26	-
2000	North of Cape Falcon	May 1-June 15	Aug. 4-7, 11-14, 18-21, 25-28, Sept. 1-5	46	21	28	16
	Cape Falcon to Humbug Mt.	Apr. 1-July 22; Aug. 1-29; Sept. 1-Oct. 31 ^{g/g/q/q/}		203	-	26	-
	Twin Rocks to Pyramid Rock	Apr. 1-July 22; Aug. 1-29; Sept. 1-Nov. 15 ^{c/g/g/}		218	-	26	-
	Cape Blanco to Humbug Mtn.	Nov. 1-Dec. 15 ^{m/m/m/m/}		45	-	26	-
	Humbug Mt. to OR/CA Border	May 1-31 ^{g/g/}		31	-	26	-
	Sisters Rocks to OR/CA Border	Aug. 1-11 ^{r/r/}		11	-	26	-
	Goat Island to 42°01'20"N	Oct. 16-31 ^{m/p/p/}		16	-	26	-
	South of House Rock	Sept. 1-5 ^{s/s/}		5	-	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.

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

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 \geq 5 inch plugs.
g/	Incidental coho allowance \leq 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/	At least 1 chinook must be possessed or landed for each coho waters only.
l/	At least 1 chinook must be possessed or landed for each coho permitted without chinook restrictions. Over 50 coho, at least 1 chinook must be possessed or landed for each 2 coho possessed or landed.
m/	A single daily possession or landing of 50 coho is permitted without chinook restrictions. Over 50 coho, at least 1 chinook must be possessed or landed for each 2 coho possessed or landed.
n/	July 1-20, at least 1 chinook must be possessed or landed for each 2 coho possessed or landed. July 23-24, see footnote m/.
o/	Open from 0 to 6 nautical miles only.
p/	At least 1 chinook must be possessed or landed for each 2 coho possessed or landed during the all salmon season.
q/	July 15-Aug. 28, a single daily possession limit of 100 coho is permitted without chinook restrictions. Over 100 coho, at least 1 chinook must be possessed or landed for each 2 coho possessed or landed.
r/	Aug. 29-Sept. 15, no more than 200 coho may be possessed or landed without chinook restrictions. Over 200 coho, at least 1 chinook must be possessed or landed for each 2 coho possessed or landed.
s/	Aug. 1-28, at least 1 chinook must be possessed or landed for each 2 coho possessed or landed, except that 1 coho may be possessed or landed without having chinook.
t/	Sept. 16-18 closed to all commercial salmon fishing from Cape Arago to Cape Blanco.
u/	One chinook must be possessed or landed for each 2 coho possessed or landed, except that the first 2 coho may be landed without a chinook.
v/	Open from Columbia River to Cape Falcon on Aug. 21, open area extended north to Leadbetter Pt. from Aug. 24-Sept. 10.
w/	A single daily limit of 40 coho and 4 chinook in effect Aug. 21 and Aug. 24-27. Daily landing limit of 40 coho and 8 chinook in effect from Aug. 28-Sept. 10.
x/	A single daily landing of 50 coho in effect from July 18-Aug. 13. From Aug. 14-17, at least 1 chinook must be landed for each 2 coho landed 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.
a/	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.
b/	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.
c/	At least 1 chinook must be landed for each coho landed, except 1 coho may be landed without having chinook.
d/	Special test fishery restricted to 10 lottery selected vessels.
e/	Open period restriction of not more than 100 coho per vessel.
f/	Open period restriction of not more than 75 coho per vessel.
g/	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.
h/	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.
i/	Gear restricted to 6 inch plugs or larger.
j/	Single daily landing limit of 25 coho without landing chinook. Above 25 coho, at least 1 chinook must be landed for each 2 coho.
k/	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.

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

- 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. Single daily landing limit of 20 chinook into the port of Brookings.
- qq/ Closed at mouth of Tillamook Bay: 1996 - June 1 through Sept. 15; 1997 - April 15 through Sept. 15; 1998 - April 1 through 30 and June 1 through Sept. 15; 2000 - April 1 through April 30 and June 1 through Sept. 15.
- 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 salmon except all retained coho must have a healed adipose fin clip.

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 5)

Year	Area	Season ^{a/}	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
1980	North of Cape Falcon	May 10-July 15	67	3	24	16
		July 16-Sept. 1 ^{b/}	48	2	24	16
		Sept. 2-14 ^{b/}	13	2 ^{c/}	24	-
	South of Cape Falcon	May 10-July 15	67	3	22	16
		July 16-Sept. 1 ^{b/}	48	2	22	16
		Sept. 2-14 ^{b/}	13	2	22	16
	Cape Blanco to Humbug Mt. Goat Island to OR/CA Border	Sept. 15-Oct. 31	60	2 ^{d/}	22	-
		Nov. 1-30 ^{b/}	30	2 ^{c/}	22	-
		Nov. 1-30 ^{b/}	30	2 ^{c/}	22	-
1981	North of Cape Falcon	May 23-Aug. 26	108	2	24	16
		Aug. 27-Sept. 7 ^{b/}	12	2	24	16
		May 15-Aug. 13	115	2	22	16
	South of Cape Falcon	Aug. 14-26	13	3	22	16
		Aug. 27-Sept. 20 ^{b/}	25	3	22	16
		Sept. 21-Oct. 31 ^{b/}	41	2 ^{c/}	22	-
	South of Cape Blanco Cape Blanco to Humbug Mt. Goat Island to OR/CA Border	Nov. 1-30 ^{b/}	30	2 ^{c/}	22	-
		Nov. 1-30 ^{b/}	30	2 ^{c/}	22	-
		Nov. 1-30 ^{b/}	30	2 ^{c/}	22	-
1982	Leadbetter Pt. to Cape Falcon Columbia River South Jetty to Cape Falcon Cape Falcon to Cape Blanco	June 12-July 24	43	2	24	16
		July 25-Aug. 1 ^{b/}	8	2 ^{e/}	24	16
		May 29-July 21 ^{b/}	54	2 ^{f/}	None	None
	Cape Blanco to Humbug Mt. Goat Island to OR/CA Border	July 22-Aug. 1 ^{b/}	11	2 ^{f/}	None	None
		Aug. 2-Oct. 31 ^{b/}	91	2 ^{c/f/}	None	-
		Nov. 1-30 ^{b/}	30	2 ^{c/f/}	None	-
		Nov. 1-30 ^{b/}	30	2 ^{c/f/}	None	-
	Klipsan Beach to Cape Falcon Columbia River South Jetty to Cape Falcon Cape Falcon to Cape Blanco Twin Rocks to Pyramid Rock South of Cape Blanco Cape Blanco to Humbug Mt.	June 18-July 29 ^{g/h/}	42	2	24	16
		July 30-Aug. 15 ^{h/i/}	17	2	24	16
		Aug. 16-Sept. 11 ^{h/i/}	44	2 ^{f/}	24	16
		June 18-Sept. 18 ^{b/}	93	2 ^{c/}	None	None
		Sept. 19-Oct. 31 ^{b/}	43	2 ^{f/}	24	-
		May 28-Sept. 18 ^{b/}	114	2 ^{c/f/}	None	None
		Sept. 19-Oct. 31 ^{b/}	43	2 ^{c/f/}	None	None
1983		Nov. 1-30 ^{b/}	30	2 ^{c/f/}	None	-
1984	Columbia River South Jetty to Cape Falcon Cape Falcon to Cape Blanco	June 18-July 29 ^{g/h/}	42	2	24	16
		July 30-Aug. 15 ^{h/i/}	17	2	24	16
		Aug. 16-Sept. 11 ^{h/i/}	44	2 ^{f/}	24	16
	Manhattan Beach to Pyramid Rock South of Cape Blanco	June 18-Sept. 18 ^{b/}	93	2 ^{c/}	None	None
		Sept. 19-Oct. 31 ^{b/}	43	2 ^{f/}	24	-
		July 9-Aug. 7 ^{b/}	30	2 ^{c/}	None	None
	Cape Blanco to Humbug Mt.	Aug. 8-24 ^{b/}	17	2 ^{e/}	20	-
		Aug. 25-Sept. 3 ^{b/l/}	10	2 ^{e/}	20	20
		Sept. 4-Oct. 31 ^{b/}	58	2 ^{c/}	20	-
1985		Nov. 1-30 ^{b/}	30	2 ^{c/}	20	-
1985	Leadbetter Pt. to Cape Falcon Cape Falcon to Cape Blanco Twin Rocks to Pyramid Rock	June 30-Aug. 22 ^{h/j/m/}	40	2 ^{f/n/}	24	16
		July 1-Sept. 2 ^{b/}	64	2 ^{c/n/}	None	None
		Sept. 15-Oct. 31 ^{b/}	47	2 ^{f/n/}	None	-
	South of Cape Blanco Tower Rock to Humbug Mt.	May 25-31; July 1-Sept. 2 ^{b/}	71	2 ^{c/f/n/}	None	None
		Sept. 3-Oct. 31 ^{b/}	59	2 ^{c/n/}	None	-
		Oct. 1-Nov. 30 ^{b/}	61	2 ^{c/n/}	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 5)

Year	Area	Season ^{a/}	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
1986	Columbia River South Jetty to Cape Falcon Cape Falcon to Cape Blanco Twin Rocks to Pyramid Rock South of Cape Blanco Cape Blanco to Humbug Mt. Bird Isl. to OR/CA Bdr. East of 124°20'W	June 29-Aug. 19 ^{h/m/v}	37	2 ^{t/n}	24	16
		May 24-26; June 28-July 26 ^{a/}	32	2 ^{t/p}	None	None
		July 27-Aug. 13 ^{b/}	9	2 ^{c/n}	None	None
		Sept. 15-Nov. 15 ^{b/}	62	2 ^{q/n}	None	-
		May 24-June 22	30	2 ^{r/n}	20	20
		June 23-Sept. 7 ^{b/}	77	2 ^{c/n}	20	20
		Oct. 1-Nov. 26 ^{b/}	57	2 ^{c/n}	20	-
1987	North of Cape Falcon Cape Falcon to Cape Blanco Twin Rocks to Pyramid Rock South of Cape Blanco Cape Blanco to Humbug Mt. Bird Isl. to OR/CA Bdr. East of 124°20'W	Oct. 1-31 ^{b/}	31	2 ^{c/n}	20	-
		June 29-Aug. 19 ^{h/j/m/r/}	39	2 ^{t/n}	24	16
		June 13-Sept. 13	93	2 ^{t/n}	None	None
		Sept. 15-Oct. 31 ^{b/}	46	2 ^{t/n}	None	-
		May 23-Sept. 13 ^{b/}	114	2 ^{r/n}	20	20
		Oct. 1-Nov. 30 ^{b/}	61	2 ^{c/n}	20	-
		Oct. 1-31 ^{b/}	31	2 ^{c/n}	20	-
1988	Klipsan Beach to Cape Falcon Cape Falcon to Orford Reef Red Buoy Twin Rocks to Pyramid Rock South of Orford Reef Red Buoy Orford Reef Red Buoy to Humbug Mt. Cape Blanco to Humbug Mt.	July 11-24 ^{h/m/s/}	10	2 ^{t/}	24	16
		May 1-27 ^{b/u}	27	2 ^{r/n}	20	16
		May 28-Sept. 11 ^{b/}	107	2 ^{r/n}	20	16
		Sept. 12-Oct. 31 ^{b/}	50	2 ^{c/n}	None	-
		May 28-July 9	43	2 ^{r/n}	20	20
		July 10-Sept. 11 ^{b/}	64	1 ^{r/n}	20	20
		Oct. 1-31 ^{b/}	31	2 ^{c/n}	None	-
1989	North of Cape Falcon Leadbetter Pt. to Cape Falcon Cape Falcon to Orford Reef Red Buoy Twin Rocks to Pyramid Rock South of Orford Reef Red Buoy Cape Blanco to Humbug Mt.	Nov. 1-30 ^{b/}	30	2 ^{c/n}	None	-
		May 28-June 12 ^{h/v/}	10	2 ^{c/}	24	-
		June 26-Aug. 17 ^{h/m/}	39	2 ^{r/n}	24	16
		May 1-26 ^{u/}	26	2 ^{r/n}	20	16
		May 27-July 27	62	2 ^{r/n}	20	16
		July 28-Aug. 20 ^{m/}	16	2 ^{r/n}	20	16
		Sept. 2-4	3	2 ^{r/n}	20	16
1990	Leadbetter Pt. to Cape Falcon Cape Falcon to Humbug Mt. Twin Rocks to Pyramid Rock South of Humbug Mt.	Sept. 16-Oct. 31 ^{b/}	46	2 ^{c/n}	24	-
		May 1-Sept. 30 ^{b/}	153	2 ^{c/n}	20	20
		Oct. 1-Nov. 30 ^{b/}	61	2 ^{c/n}	20	-
		June 24-Aug. 30 ^{h/m/}	50	2 ^{r/n}	24	16
		May 1-27 ^{u/}	27	2 ^{r/n}	20	16
		May 28-June 22;	26	2 ^{r/n}	20	16
		June 30-July 31;	32	2 ^{r/n}	20	16
1991	North of Cape Falcon Cape Falcon to Humbug Mt. Twin Rocks to Pyramid Rock South of Humbug Mt.	Aug. 8-Sept. 16 ^{b/}	98	2 ^{r/n}	20	16
		Sept. 17-Oct. 31 ^{b/}	45	2 ^{c/n}	None	-
		May 1-Sept. 9	132	2 ^{w/n/}	20	20
		June 24-Aug. 12 ^{h/m/}	36	2 ^{r/n}	24	16
		Sept. 15-18; Sept. 26 ^{x/}	5	2 ^{r/n}	24	16
		May 1-26 ^{u/}	26	2 ^{r/n}	20	16
		May 27-July 28	62	2 ^{r/n}	20	16

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 5)

Year	Area	Season ^{a/}	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
1992	North of Cape Falcon	June 29-July 30 ^{b/m/v}	24	2 ^{aa/}	24	16
		Aug. 2-6 ^{v/h}	5	2 ^{aa/}	24	16
		Sept. 14-17; Sept. 27 ^{h/v}	5	2 ^{aa/}	24	16
	Cape Falcon to Heceta Head	May 3-June 11 ^{m/v}	30	2 ^{aa/bb/}	20	16
		June 14-Sept. 10 ^{m/v}	65	2 ^{aa/bb/}	20	16
	Twin Rocks to Pyramid Rock	Sept. 16-Oct. 31 ^{b/}	46	2 ^{c/n/bb/}	None	-
	Heceta Head to Humbug Mt.	May 3-June 11 ^{m/v}	30	2 ^{aa/bb/}	20	16
		June 14-July 2 ^{m/cc/v}	15	2 ^{aa/bb/}	20	16
		July 5-Aug. 31 ^{m/v}	42	2 ^{aa/bb/}	-	16
	Cape Blanco to Humbug Mt.	Sept. 1-Sept. 10 ^{m/v}	8	2 ^{c/aa/bb/}	20	16
		Oct. 24-26 ^{b/}	3	1 ^{c/n/}	20	-
		July 6-20 ^{dd/}	7	1 ^{c/n/}	20	20
	South of Humbug Mt.	Sept. 1-7 ^{b/}	7	1 ^{c/n/}	20	20
		Oct. 15-26 ^{b/}	12	1 ^{c/n/}	20	-
1993	North of Cape Falcon	July 5-Sept. 9 ^{h/m/v}	49	2 ^{aa/}	24	16
		Sept. 12-23 ^{h/v}	12	2 ^{aa/}	24	16
	Cape Falcon to Humbug Mt.	May 1-June 6 ^{m/v}	37	2 ^{p/ff/}	20	16
		July 13-Aug. 10 ^{ee/v}	13	2 ^{p/ff/}	20	16
	Twin Rocks to Pyramid Rock	Sept. 16-Oct. 31 ^{b/}	46	2 ^{c/n/ff/}	None	-
	Cape Blanco to Humbug Mt.	Oct. 1 - Nov. 30 ^{b/}	61	1 ^{c/n/ff/}	20	-
		May 5-June 19 ^{gg/v}	28	1 ^{n/}	20	20
	South of Humbug Mt.	July 14-Aug. 28 ^{gg/v}	28	1 ^{n/}	20	20
		Sept. 1-6 ^{b/}	6	1 ^{n/}	20	20
1994	North of Cape Falcon	-	-	-	-	-
	Cape Falcon to Humbug Mt.	May 1-June 5 ^{u/v}	36	2 ^{c/p/ff/}	20	-
	Twin Rocks to Pyramid Rock	June 6-19 and ^{b/} Oct. 1-Nov. 15 ^{b/}	60	2 ^{c/p/ff/}	20	-
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 7 ^{b/}	38	1 ^{d/aa/}	20	-
	South of Humbug Mt.	May 1-June 7; Aug. 27-31; Sept. 1-5 ^{b/}	48	2 ^{c/n/}	20	-
	Goat Island to Red Pt.	Oct. 10-20 ^{b/}	11	1 ^{d/aa/}	20	-
	-	-	-	-	-	-
1995	North of Cape Falcon	July 24-Sept. 5; Sept. 10-11 ^{m/v}	37	2 ^{aa/cc/hh/}	-	16
	Cape Falcon to Humbug Mt.	May 1-June 30 ^{b/}	61	2 ^{c/ii/}	20	-
	Twin Rocks to Pyramid Rock	Sept. 16-Nov. 15 ^{b/}	61	2 ^{d/ii/}	20	-
	Cape Foulweather to Seal Rock	Sept. 16-Oct. 31 ^{b/}	46	2 ^{d/ii/}	20	-
	3 Miles North of North Coos Bay Jetty to Cape Arago	Sept. 16-Oct. 31 ^{b/}	46	2 ^{d/ii/}	20	-
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 7 ^{b/}	38	2 ^{d/aa/ii}	20	-
	South of Humbug Mt.	May 17-July 1; Aug. 16-18 ^{gg/v}	31	1 ^{c/}	20	-
	Goat Isl. to 42°01'20" N	Sept. 1-9 ^{b/}	9	1 ^{c/n/}	20	-
	-	Oct. 10-15; 21-22 ^{b/}	8	1 ^{d/aa/}	20	-
1996	North of Cape Falcon	July 22-Sept. 26 ^{m/v}	49	2 ^{aa/cc/}	-	16
	Cape Falcon to Humbug Mt.	May 1-July 7; Aug. 16-Sep. 30 ^{b/}	114	2 ^{c/n/jj/}	20	-
	Twin Rocks to Pyramid Rock	Oct. 1-31 ^{b/}	31	2 ^{aa/d/jj/}	20	-
	Cape Blanco to Humbug Mt.	Oct. 1-Nov. 30 ^{b/}	61	1 ^{d/aa/}	20	-
	South of Humbug Mt.	May 12-July 7; Aug. 18- Sept. 21 ^{b/}	92	1 ^{c/aa/}	20	-
	Goat Isl. to 42°01'20"	Oct. 5-13 ^{b/}	9	1 ^{d/aa/}	20	-

TABLE C-4. Summary of actual Oregon recreational ocean salmon seasons, size limits and bag limits in state and federal (EEZ) waters. (Page 4 of 5)

Year	Area	Season ^{a/}	Days	Bag Limit	Minimum Size Limit (inches)	
					Chinook	Coho
1997	North of Cape Falcon	July 21-Aug. 7 ^{m/}	14	2 ^{aa/} 2 ^{c/n/kk/}	24	16
	Cape Falcon to Humbug Mt.	Apr. 15-July 6; Aug. 1-Oct. 31	175	2 ^{b/}	20	-
	Twin Rocks to Pyramid Rock	Apr. 15-July 6; Aug. 1-Nov. 15 ^{b/}	190	2 ^{aa/d/kk/}	20	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 ^{b/}	30	1 ^{d/aa/}	20	-
	South of Humbug Mt.	May 24-30; June 17-July 6; Aug. 12-Sept. 14	61	1 ^{c/aa/}	20	-
	Goat Isl. to 42°01'20"	Oct. 4-12 ^{b/}	9	1 ^{d/aa/}	20	-
1998	North of Cape Falcon	Aug. 3-9; Sept. 3 ^{m/}	6	2 ^{ll/} 2 ^{c/n/mm/}	24	16
	Cape Falcon to Humbug Mt.	Apr. 15-July 5; Aug. 1-Oct. 31	174	2 ^{b/}	20	-
	Twin Rocks to Pyramid Rock	Apr. 15-July 5; Aug. 1-Nov. 15 ^{b/}	179	2 ^{aa/d/mm/}	20	-
	Cape Blanco to Humbug Mt.	Nov. 1-30 ^{b/}	30	1 ^{d/aa/} 1 ^{c/aa/}	20	-
	South of Humbug Mt.	May 23-June 10; June 21- July 5; Aug. 11-Sept. 13	68	1 ^{d/aa/}	20	-
	Goat Isl. to 42°01'20"	Oct. 5-14 ^{b/}	10	1 ^{d/aa/}	20	-
1999	North of Cape Falcon	July 19-Sept. 30 ^{nn/}	62	2 ^{ll/} 2 ^{c/n/mm/}	24	16
	Cape Falcon to Humbug Mt.	Apr. 1-July 9; Aug. 1-Oct. 31	207	2 ^{n/oo/}	20	-
	Twin Rocks to Pyramid Rock	July 10-11; 14-15; 18-19; 22- 23; 26-27; 30-31 Apr. 1-July 9; Aug. 1-Nov. 15 ^{b/} July 10-11; 14-15; 18-19; 22- 23; 26-27; 30-31 ^{b/}	12	2 ^{d/aa/mm/} 2 ^{oo/aa/mm/}	20	16
	Cape Blanco to Humbug Mt.	Nov. 1-Dec. 15 ^{b/}	45	1 ^{d/aa/}	20	-
	South of Humbug Mt.	May 29-July 4; July 29- Sept. 14 ^{b/}	85	1 ^{c/aa/}	20	-
	Goat Isl. to 42°01'20"	Oct. 2-11 ^{b/}	10	1 ^{d/pp/}	20	-
2000	North of Cape Falcon	July 10-Aug. 13 ^{m/}	25	2 ^{ll/}	24	16
	Cape Falcon to Humbug Mt.	Apr. 1-Jun. 30; July 26-Oct. 31	189	2 ^{c/n/mm/}	20	-
	Twin Rocks to Pyramid Rock	July 1-2; 4-6; 8-9; 11-13; 15- 16; 18-20; 22-23; 25 Apr. 1-Jun. 30 ^{b/} July 26-Nov. 15 ^{b/}	18	2 ^{n/oo/} 2 ^{d/p/mm/}	20	16
	Cape Blanco to Humbug Mt.	July 1-2; 4-6; 8-9; 11-13; 15- 16; 18-20; 22-23; 25 ^{b/}	18	2 ^{oo/aa/mm/}	20	-
	South of Humbug Mt.	Nov. 1-Dec. 15 ^{b/}	45	1 ^{d/aa/}	20	-
	Goat Isl. to 42°01'20"	May 27-July 6; July 29- Sept. 10 ^{b/}	85	1 ^{c/aa/qq/}	20	-
		Oct. 7-15 ^{b/}	9	1 ^{d/pp/}	20	-

a/ Dates are inclusive.

b/ Open in state waters only.

c/ Open for all-salmon-except-coho.

d/ Open for chinook only.

e/ Only 1 coho allowed in bag limit.

f/ Must retain the first 2 salmon caught.

g/ Open inside of 6 miles from Cape Falcon north to 46°06'00" and inside of 3 miles from 46°06'00" to the south jetty of the Columbia River.

h/ Mouth of the Columbia River is closed.

i/ Open inside of 10 miles from Cape Falcon north to the Lightship Buoy then on a line to the south jetty of the Columbia River.

j/ Closed inside 3 miles from Leadbetter Pt. to Klipsan Beach and 0 to 200 miles from Klipsan Beach to Red Buoy Line.

k/ Open for all-salmon-except-chinook.

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 5)

- / 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 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 (Sun.-Sat.). Beginning in 1999, closed to coho retention between Tillamook Head and Cape Falcon beginning Aug. 1.
- mm/ 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)
- 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.

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 ^{a/}
		All Salmon Except Coho	All Salmon	All Except Coho	All Salmon	
1971-1975	Statewide	Apr. 15-June 14	June 15-Oct. 31	61	139	26
1976	Statewide	May 1-June 14	June 15-22; July 1-Oct. 31	45	131	26
1977	North of Pt. Grenville	May 1-June 14	July 1-Sept. 15	45	77	28 ^{d/}
	South of Pt. Grenville	May 1-June 14	July 1-Oct. 9	45	101	28 ^{d/}
1978	North of Pt. Grenville	May 1-June 14	July 1-Sept. 15	45	77	28
	South of Pt. Grenville	May 1-June 14	July 1-Oct. 31	45	123	28
1979	Statewide	May 1-31	July 1-24; Aug. 4-31 ^{d/}	31	52	28
1980	North of Leadbetter Pt.	May 1-31	July 15-Aug. 25	31	42	28
	South of Leadbetter Pt.	May 1-31	July 15-Sept. 8	31	56	28
1981	Statewide	May 1-31	July 15-Aug. 21	31	38	28
1982	North of Leadbetter Pt.	May 1-31	July 15-30	31	16	28
	South of Leadbetter Pt.	May 1-31	July 1-8	31	8	28
1983	Statewide	May 1-31	July 1-31 ^{e/}	31	31	28
1984	Statewide	May 1-7	-	8	-	28
	North of Cape Alava	-	Aug. 4-6	-	3	-
1985	Statewide	May 1-14; May 21-31	-	25	-	28
	Cape Alava to Leadbetter Pt.	-	July 15-18	-	4	28
	Carroll Island to U.S.-Canada Border	Aug. 3-31 ^{f/}	-	-	29	28
1986	Statewide	May 1-10; 14-17; 24-27; 30-31	-	20	-	28
	Carroll Island to U.S.-Canada Border	-	Aug. 2-3; 8-9	-	4	28
	South of Leadbetter Pt.	-	Aug. 2-3; 7-9	-	5	28
1987	Statewide	May 1-10; May 14-15	-	12	-	28
	Cape Alava to Cape Falcon	-	July 25-26	-	2	28
	Statewide	May 1-June 14	No Fishery	45	0	28
1988	South of Queets River	May 1-June 8; June 13-15	-	42	-	28
1989	Carroll Island to U.S.-Canada Border	-	Aug. 7-10; Aug. 10-18	-	7	28
	Columbia River Red Buoy Line to Cape Falcon	-	Aug. 21 ^{g/}	-	1	28
	Leadbetter Pt. to Cape Falcon	-	Aug. 24-Sept. 10 ^{g/}	-	18	28

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.
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Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Season
CHINOOK										COHO				
Crescent City														
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	5.6	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 ^{b/}	-	-	-	-	-	10.7	-	10.7	-	-	-	-	-	-
Eureka														
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 ^{b/}	-	-	-	-	-	11.1	-	11.1	-	-	-	-	-	-

TABLE D-1. California monthly troll chinook and coho average dressed weights (pounds) by area of landing.
(Page 2 of 3)

Year	CHINOOK										COHO					
	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Season		
Fort Bragg																
1976-1980	9.1	8.6	9.4	10.8	10.2	10.5	-	10.1	3.9	4.9	6.7	6.9	7.6	5.4		
1981	-	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 ^{b/}	-	-	-	-	-	11.6	-	11.6	-	-	-	-	-	-		
San Francisco																
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 ^{b/}	-	8.7	9.6	11.7	12.6	14.1	-	10.1	-	-	-	-	-	-		

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 ^{a/}
CHINOOK										COHO				
Monterey														
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 ^{b/}	-	9.6	12.9	14.4	12.1	-	-	10.9	-	-	-	-	-	-
Total Statewide														
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 ^{b/}	-	9.2	11.1	12.4	12.6	13.0	-	10.5	-	-	-	-	-	-

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
CHINOOK										
1971-1975	-	9.4	10.8	10.4	10.1	9.2	11.0	16.3	-	10.2
1976	-	10.2	10.3	10.8	10.5	9.7	10.6	11.7	-	10.4
1977	-	8.8	10.5	10.5	10.0	9.4	11.0	14.1	-	10.2
1978	-	9.6	9.8	9.9	9.2	9.5	12.0	18.5	-	9.9
1979	-	11.9	9.9	11.0	10.2	10.9	9.0	16.3	-	10.5
1980	-	10.7	10.5	10.6	10.3	9.8	9.9	16.4	-	10.4
1981	-	9.2	9.1	10.7	9.8	8.6	10.5	14.4	-	9.8
1982	-	9.4	10.4	10.4	10.0	8.8	9.8	12.9	-	10.1
1983	-	8.8	8.0	7.9	7.8	8.8	10.1	11.7	-	8.2
1984	-	8.6	8.5	8.5	8.2	9.2	16.6	15.4	-	8.5
1985	-	9.1	9.3	10.0	9.0	8.6	10.6	19.3	-	9.4
1986	-	9.4	8.7	8.5	8.0	7.8	7.5	13.1	-	8.4
1987	-	9.3	9.7	10.2	9.4	8.4	10.8	14.2	-	9.8
1988	-	8.6	9.5	9.5	9.3	10.0	9.3	14.6	-	10.1
1989	-	9.8	9.4	10.5	9.6	10.9	10.5	16.8	-	10.0
1990	-	9.4	10.0	9.4	8.7	9.6	13.8	10.5	-	9.4
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 ^{a/}	13.0	12.9	12.9	11.9	10.9	9.3	10.0	14.2	13.4	10.9
COHO										
1971-1975	-	-	5.1	6.1	7.0	7.2	7.9	-	-	6.2
1976	-	-	4.1	5.0	5.8	5.7	6.2	-	-	5.0
1977	-	-	4.6	6.0	7.1	6.6	7.6	-	-	5.9
1978	-	-	4.4	4.5	5.1	4.9	5.2	-	-	4.5
1979	-	-	-	6.3	6.8	6.2	-	-	-	6.4
1980	-	-	-	5.5	5.9	6.1	-	-	-	5.7
1981	-	-	-	4.8	6.0	-	-	-	-	5.4
1982	-	-	-	5.2	5.6	-	-	-	-	5.2
1983	-	-	-	3.4	3.8	3.6	-	-	-	3.4
1984	-	-	-	-	5.1	-	-	-	-	5.1
1985	-	-	-	5.7	5.9	-	-	-	-	5.8
1986	-	-	4.3	4.4	3.9	-	-	-	-	4.3
1987	-	-	5.0	5.3	5.6	5.9	-	-	-	5.4
1988	-	-	5.2	5.1	5.9	-	-	-	-	5.4
1989	-	-	4.6	4.3	4.7	4.7	-	-	-	4.4
1990	-	-	-	5.1	5.3	5.5	7.2	-	-	5.2
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 ^{a/}	-	-	-	-	-	-	-	-	-	-
2000 ^{a/}	-	-	-	-	-	5.9	6.6	-	-	5.9

a/ Preliminary.

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

Year	May		June		July		Aug.		Sept.		Oct.		Season c/	
	Treaty	Non-Indian	Treaty	Non-Indian	Treaty	Non-Indian	Treaty	Non-Indian	Treaty	Non-Indian	Treaty	Non-Indian	Treaty	Non-Indian
CHINOOK														
1980	10.9	12.0	12.6	-	12.5	13.2	14.2	13.5	10.9	13.1	6.7	-	7.3	13.0
1981	7.3	10.2	9.8	-	10.4	12.8	11.0	13.0	8.1	-	5.7	-	6.7	11.4
1982	8.9	9.7	8.0	-	10.2	12.9	8.4	14.0	5.9	13.6	5.5	-	7.0	11.2
1983	7.1	9.9	8.5	-	9.6	11.8	7.8	12.3	7.2	11.7	5.1	-	6.1	10.5
1984	6.6	9.1	8.8	-	8.1	-	8.6	10.7	8.0	-	4.4	-	5.3	9.4
1985	6.5	9.7	8.9	-	9.8	11.5	10.8	11.1	9.5	-	4.9	-	6.9	10.4
1986	8.3	10.1	7.3	-	8.8	-	8.3	10.3	5.9	-	4.5	-	6.0	10.2
1987	8.2	9.0	6.0	-	10.1	10.6	10.0	-	6.1	-	-	-	6.3	9.5
1988	8.2	10.3	9.6	11.1	10.1	-	9.8	-	8.4	-	5.1	-	7.0	10.6
1989	8.8	10.1	7.7	10.1	9.0	-	9.3	13.2	7.8	12.6	5.1	-	7.1	10.6
1990	7.0	8.0	9.7	12.0	10.1	13.6	8.2	12.7	6.0	11.7	6.2	12.6	7.0	11.1
1991	7.4	10.1	7.9	10.9	8.9	-	8.7	12.7	4.3	12.0	7.9	-	6.5	10.6
1992	6.4	11.3	7.3	12.3	8.3	12.1	8.4	11.5	7.5	-	4.8	-	6.1	11.6
1993	6.3	10.7	7.3	10.8	8.5	12.0	8.3	11.4	8.4	12.1	8.5	-	7.0	11.0
1994	9.6	-	9.9	9.3 ^{d/}	11.9	-	-	9.1 ^{d/}	6.2	9.4 ^{d/}	4.2	8.3 ^{d/}	8.1	9.3 ^{d/}
1995	5.7	-	6.7	-	6.0	-	7.7	-	6.7	-	-	-	6.9	12.4
1996	5.8	-	6.2	12.9 ^{d/}	-	12.6 ^{d/}	7.8	-	9.3	-	-	-	7.4	10.6
1997	7.3	10.4	6.7	10.9	-	-	8.4	-	8.2	-	-	-	10.8	11.4
1998	11.1	11.4	11.7	12.9	7.4	-	11.0	-	5.6	-	-	-	8.1	11.2
1999	7.1	11.0	8.8	11.1	-	11.9	7.7	11.0	-	10.7	-	-	9.3	11.6
2000	10.6	12.1	9.2	12.0	6.7	-	7.3	10.9	-	-	-	-	-	-

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

Year	May		June		July		Aug.		Sept.		Oct.		Season ^{c/}	
	Treaty	Non-	Treaty	Non-										
	Indian	Indian												
COHO														
1980	2.5	-	3.4	-	4.3	4.8	5.7	6.0	6.9	5.7	-	-	3.7	5.2
1981	1.7	-	2.9	-	3.9	4.2	4.7	4.7	5.9	5.9	-	-	5.8	4.5
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

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. (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 (2000 dollars)
1960	6,221	3,339	1,365	-	2,446	11,636
1961	8,638	4,698	1,615	-	2,909	13,685
1962	6,673	4,023	1,563	-	2,574	11,945
1963	7,849	3,959	1,611	-	2,457	11,277
1964	9,481	5,013	1,774	-	2,826	12,774
1965	9,674	4,989	2,001	-	2,493	11,064
1966	9,447	4,845	1,929	-	2,512	10,834
1967	7,402	3,945	2,137	-	1,846	7,725
1968	6,952	4,014	2,249	-	1,785	7,159
1969	6,151	3,843	2,125	-	1,808	6,920
1970	6,629	5,101	2,065	-	2,470	8,975
1971	8,117	4,757	2,221	-	2,142	7,393
1972	6,423	4,830	2,392	-	2,019	6,677
1973	9,669	8,991	2,848	-	3,157	9,875
1974	8,749	8,013	3,185	-	2,516	7,244
1975	6,925	6,972	3,150	-	2,213	5,834
1976	7,788	10,707	3,526	-	3,037	7,552
1977	5,920	12,074	3,797	-	3,180	7,422
1978	6,788	11,001	4,919	-	2,236	4,882
1979	8,746	19,659	4,593	-	4,280	8,643
1980	6,017	13,149	4,738	-	2,775	5,147
1981	6,012	14,322	4,102	-	3,491	5,926
1982	8,000	19,489	4,013	5,964	4,856	7,770
1983	2,411	4,608	3,223	4,617	1,430	2,197
1984	2,970	7,562	2,569	4,180	2,944	4,363
1985	4,600	11,515	2,308	3,869	4,989	7,170
1986	7,598	15,112	2,582	3,753	5,853	8,232
1987	9,293	25,623	2,442	3,533	10,493	14,344
1988	14,750	41,927	2,571	3,493	16,308	21,568
1989	5,720	13,485	2,534	3,464	5,322	6,777
1990	4,436	12,056	2,115	3,372	5,700	6,986
1991	3,697	9,047	1,769	3,242	5,114	6,063
1992	1,643	4,505	1,085	2,974	4,152	4,818
1993	2,537	5,707	1,240	2,740	4,602	5,201
1994	3,103	6,437	1,024	2,470	6,286	6,958
1995	6,633	11,693	1,104	2,333	10,591	11,479
1996	4,113	5,984	985	2,222	6,075	6,465
1997	5,248	7,288	835	2,069	8,728	9,110
1998	1,847	3,060	670	1,905	4,567	4,709
1999	3,846	7,429	666	1,798	11,155	11,330
2000 ^{b/}	4,509	8,838	725	1,704	12,189	12,189

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. (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 (2000 dollars)
1974	-	7,937	2,253	-	3,523	10,143
1975	-	5,808	2,304	-	2,521	6,645
1976	10,983	14,868	2,770	-	5,368	13,180
1977	6,209	11,484	3,108	-	3,695	8,413
1978	4,673	7,340	3,158	-	2,324	5,074
1979	7,166	16,989	3,114	-	5,456	11,016
1980	4,362	8,185	3,875 ^{b/}	4,314	2,112	3,917
1981	4,897	9,573	3,615	3,926	2,648	4,494
1982	5,060	9,895	3,269	3,646	3,027	4,843
1983	1,753	2,296	2,951	3,439	778	1,196
1984	621	1,595	771 ^{c/}	3,203	2,069	3,098
1985	2,514	5,774	2,050 ^{d/}	2,993	2,817	4,048
1986	5,275	7,954	2,288	2,739	3,476	4,890
1987	7,098	16,763	2,111	2,626	7,941	10,856
1988	7,723	21,536	2,061	2,597	10,449	13,820
1989	5,528	10,025	1,937	2,569	5,176	6,591
1990	2,815	6,641	1,557	2,528 ^{e/}	4,265	5,227
1991	2,106	3,120	1,217	2,044	2,564	3,039
1992	1,219	2,712	649	2,111	4,179	4,849
1993	770	1,671	612	1,814	2,735	3,086
1994	287	690	371	1,569	1,859	2,059
1995	1,941	3,294	476	1,465	6,920	7,500
1996	1,926	3,007	455	1,377	6,609	7,033
1997	1,542	2,469	433	1,295	5,702	5,952
1998	1,398	2,297	373	1,201	6,159	6,349
1999 ^{f/}	722	1,401	328	1,111	4,271	4,338
2000 ^{f/}	1,552	3,064	399	1,054	7,679	7,679

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/ Preliminary.

TABLE D-6. Washington non-Indian troll combined chinook and coho salmon landings in dressed weight, value of landings and number of registered vessels making commercial salmon landings. ^{a/} (Page 1 of 1)

Year	Dressed Pounds Landed (thousands)	Nominal Exvessel Value (\$ thousands)	Vessels Landing Salmon	Vessels with Permits	Nominal Average Exvessel Value/Vessel (dollars)	Real Average Exvessel Value/Vessel (2000 dollars)
1978	4,746	10,025	3,041	3,291	3,297	7,196
1979	5,262	15,091	2,778	3,068	5,432	10,969
1980	3,398	7,114	2,626	2,797	2,709	5,024
1981	2,678	5,921	2,439	2,603	2,428	4,120
1982	2,671	6,730	2,253	2,512	2,987	4,779
1983	653	1,465	2,045	2,328 ^{b/}	716	1,101
1984	197	410	381	2,071 ^{c/}	1,076	1,595
1985	964	1,601	1,259	1,650 ^{c/}	1,272	1,827
1986	659	1,175	1,252	1,531	938	1,320
1987	758	1,960	883	1,401	2,220	3,034
1988	798	2,337	650	1,337	3,596	4,755
1989	696	1,230	883	1,306	1,393	1,774
1990	850	1,648	897	1,170	1,837	2,252
1991	612	1,126	811	1,013	1,388	1,646
1992	583	1,299	604	806	2,151	2,496
1993	398 ^{d/}	795	474	668 ^{f/}	1,677	1,896
1994	7	e/	1	7 ^{g/}	e/	e/
1995	126	91	96	435 ^{g/}	948	1,027
1996	87	85	90	333 ^{h/}	924	984
1997	81	126	51	324 ^{i/}	2,450	2,557
1998	82	123	23	299 ^{j/}	5,345	5,510
1999	220	396	57	214 ^{j/}	6,947	7,056
2000	162	258	49	179 ^{j/}	5,283	5,283

a/ Derived from vessel registrations and fish landing tickets. All values in this table are based on preliminary information available at the start of each year's salmon review.

b/ 312 licenses and delivery permits purchased by buyback program.

c/ 118 licenses and delivery permits purchased by buyback program.

d/ Chinook were caught off Oregon and landed in Puget Sound.

e/ Value information is not provided in order to preserve confidentiality.

f/ Vessels were not required to purchase a permit in 1994 to maintain their eligibility for a permit in 1995.

g/ 190 licenses and delivery permits purchased by buyback program.

h/ 72 licenses and delivery permits purchased by buyback program at the end of 1996 and early 1997.

i/ 100 licenses and delivery permits purchased by buyback program at the end of 1997 and early 1998.

j/ 41 licenses purchased by buyback program at the end of 2000.

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon. ^{a/} (Page 1 of 2)

Year	Vessels			Catch ^{b/}		
	Length Category (feet)	Number ^{c/}	Percentage	Average Per Boat (pounds)	Total (pounds)	% of Total
2000 ^{d/}	<20	37	5	1,124	41,702	1
	21-25	132	18	2,317	306,732	7
	26-30	112	15	3,646	409,543	9
	31-35	123	17	5,929	731,468	16
	36-40	158	22	7,396	1,172,123	26
	41-45	72	10	9,968	719,842	16
	46-50	64	9	11,487	737,348	16
	51-55	17	21	16,176	275,815	6
	>56	10	1	11,380	114,141	3
	Unknown	-	-	-	-	-
1999	TOTAL	725	-	6,219	4,508,715	-
	<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
1998	Unknown	-	-	-	-	-
	TOTAL	645	-	5,400	3,845,762	-
	<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
1997	>56	6	1	4,048	12,105	1
	Unknown	0	-	-	-	-
	TOTAL	670	-	2,757	1,847,102	-
	<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
1996	51-55	13	2	11,806	153,476	3
	>56	12	1	11,118	61,929	1
	Unknown	0	-	-	-	-
	TOTAL	835	-	6,285	5,247,792	-
	<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
TOTAL	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	Unknown	0	-	-	-	-
	TOTAL	985	-	4,176	4,113,403	-

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon. ^{a/} (Page 2 of 2)

Year	Vessels			Catch ^{b/}		
	Length Category (feet)	Number ^{c/}	Percentage	Average Per Boat (pounds)	Total (pounds)	% of Total
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
	Unknown	0	-	-	-	-
	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/
	Unknown	0	-	-	-	-
	TOTAL	1,024	-	3,030	3,103,104	-
1993	≤20	101	8	447	45,103	2
	21-25	321	26	1,028	330,110	13
	26-30	218	18	1,538	335,333	13
	31-35	167	13	2,467	411,989	16
	36-40	216	17	3,103	670,209	26
	41-45	103	8	3,859	397,525	16
	46-50	78	6	3,050	237,930	9
	51-55	22	2	4,205	92,500	4
	>56	14	1	1,156	16,185	1
	Unknown	0	-	-	-	-
	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
	Unknown	0	-	-	-	-
	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 ^{a/}		
	Length Category (Feet)	Number ^{b/}	Percentage	Average Per Boat (pounds)	Total (pounds)	
2000 ^{c/}	<20	3	1		6,169	0
	20-29	100	25		193,346	13
	30-39	157	39		741,968	48
	40-49	111	28		509,986	33
	≥50	28	7		<u>100,965</u>	7
	TOTAL	399			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	<u>2,298</u>	<u>48,263</u>	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	<u>4,351</u>	<u>130,537</u>	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	<u>3,322</u>	<u>102,982</u>	7
	TOTAL	433		2,937	1,542,048	
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	<u>3,720</u>	<u>119,048</u>	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	<u>4,995</u>	<u>149,846</u>	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	<u>1,032</u>	<u>12,382</u>	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	<u>1,282</u>	<u>41,029</u>	5
	TOTAL	612		1,258	769,937	
1992	<20	7	1	706	4,945	d/
	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	<u>1,630</u>	<u>34,231</u>	3
	TOTAL	649		1,878	1,218,844	

TABLE D-8. Oregon salmon troll boat-size catch statistics in pounds of dressed salmon. (Page 2 of 2)

Year	Vessels			a/ Catch		Percent of Total
	Length Category (Feet)	Number ^{b/}	Percentage	Average Per Boat (pounds)	Total (pounds)	
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/ Excludes pink salmon landings.

b/ Number of boats includes only those recording pounds greater than 0.

c/ Preliminary.

d/ Less than 0.5%.

TABLE D-9. Washington non-Indian salmon troll boat-size catch statistics in pounds of dressed salmon. ^{a/} (Page 1 of 1)

Year	Vessels			Catch ^{b/}		
	Length Category (Feet)	Number ^{c/}	Percentage	Average Per Boat (pounds)	Total (pounds)	% of Total
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	<u>4</u>	8	2,573	10,291	6
	TOTAL	<u>49</u>				
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	<u>3</u>	5	<u>1,220</u>	<u>3,661</u>	2
	TOTAL	<u>57</u>		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	<u>1</u>	4	<u>522</u>	<u>522</u>	1
	TOTAL	<u>23</u>		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	<u>2</u>	4	<u>352</u>	<u>703</u>	1
	TOTAL	<u>51</u>		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	<u>7</u>	8	<u>1,861</u>	<u>13,029</u>	15
	TOTAL	<u>90</u>		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	<u>4</u>	4	<u>2,351</u>	<u>9,403</u>	4
	TOTAL	<u>96</u>		2,412	231,531	
1994	<25	0	-	-	-	-
	26-36	0	-	-	-	-
	>36	1	100	7,263 ^{d/}	7,263	100
	Unknown	<u>0</u>	-	<u>-</u>	<u>-</u>	-
	TOTAL	<u>1</u>		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	<u>21</u>	4	<u>924</u>	<u>19,406</u>	5
	TOTAL	<u>474</u>		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	<u>26</u>	4	<u>956</u>	<u>24,848</u>	4
	TOTAL	<u>604</u>		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	<u>103</u>	13	<u>1,006</u>	<u>103,637</u>	14
	TOTAL	<u>811</u>		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, 2000. (Page 1 of 2)

Port	Vessel Length (feet)	Number of Deliveries	Total Dressed Pounds Landed	Total Exvessel Value (dollars)	% Total Exvessel Value Landed In Port
Crescent City	<26	-			
	26-36	a/	a/	a/	a/
	>36	a/	a/	a/	a/
	Unknown	-			
Trinidad	<26	a/	a/	a/	a/
	26-36	a/	a/	a/	a/
	>36	-			
	Unknown	-			
Eureka	<26	19	2,876	6,690	23
	26-36	16	2,637	5,517	19
	>36	25	7,925	16,960	58
	Unknown	-			
Shelter Cove	<26	a/	a/	a/	a/
	26-36	a/	a/	a/	a/
	>36	-			
	Unknown	-			
Fort Bragg	<26	11	3,233	7,977	2
	26-36	38	31,382	71,141	22
	>36	87	106,613	243,979	76
	Unknown	-			
Mendocino	<26	a/	a/	a/	a/
	26-36	a/	a/	a/	a/
	>36	a/	a/	a/	a/
	Unknown	-	-	-	-
Bodega Bay	<26	452	42,324	108,308	12
	26-36	537	118,499	281,905	30
	>36	416	241,354	535,104	58
	Unknown	-			
San Francisco	<26	120	9,644	26,612	1
	26-36	365	150,941	346,276	17
	>36	808	836,202	1,658,552	82
	Unknown	-			
Half Moon Bay	<26	297	54,888	122,826	7
	26-36	467	175,889	373,951	22
	>36	882	571,276	1,167,614	71
	Unknown	-			
Santa Cruz	<26	71	16,004	32,226	5
	26-36	350	120,313	229,643	35
	>36	204	207,344	403,571	60
	Unknown	-			

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, 2000. (Page 2 of 2)

Port	Vessel Length (feet)	Number of Deliveries	Total Dressed Pounds Landed	Total Exvessel Value (dollars)	% Total Exvessel Value Landed In Port
Moss Landing	<26	753	113,820	215,955	11
	26-36	655	267,554	464,383	24
	>36	599	742,009	1,250,905	65
	Unknown	-	-	-	-
Monterey	<26	597	87,887	163,259	37
	26-36	427	95,109	176,410	40
	>36	257	54,822	100,514	23
	Unknown	-	-	-	-
Morro Bay South	<26	122	13,941	27,508	3
	26-36	323	172,932	311,068	40
	>36	223	242,125	447,025	57
	Unknown	-	-	-	-

a/ Value not provided to preserve confidentiality.

TABLE D-11. Preliminary 2000 Washington non-Indian troll salmon landings (in pounds of dressed salmon) and exvessel value by vessel size categories and port areas.^{a/} (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	b/	b/	b/	b/	b/
	26-36	3	44	19,627	31,185	23
	>36	16	162	62,103	96,563	72
	Unknown	b/	b/	b/	b/	b/
	TOTAL	22	216	85,495	133,573	
La Push	≤25	0	0	0	0	0
	26-36	0	0	0	0	0
	>36	b/	b/	b/	b/	b/
	Unknown	0	0	0	0	
	TOTAL	b/	b/	b/	b/	
Grays Harbor	≤25	3	18	2,039	2,458	3
	26-36	10	38	11,921	17,916	20
	>36	14	103	31,939	58,461	65
	Unknown	4	13	6,803	10,586	12
	TOTAL	27	185	52,702	89,420	
Columbia River Ports	≤25	b/	b/	b/	b/	b/
	26-36	3	41	12,670	18,914	54
	>36	4	18	10,580	15,687	45
	Unknown	b/	b/	b/	b/	b/
	TOTAL	8	60	23,554	35,013	
Puget Sound	≤25	0	0	0	0	
	26-36	0	0	0	0	
	>36	0	0	0	0	
	Unknown	b/	b/	b/	b/	100
	TOTAL	b/	b/	b/	b/	

a/ Preliminary.

b/ Values not provided to preserve confidentiality.

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 ^{a/}	725	116	16.0	356	49.1

a/ Preliminary.

TABLE D-13. Oregon number of vessels landing 50% and 90% of total pounds of salmon troll catch each year.
a/ (Page 1 of 1)

Year	Total Vessels	50% of Pounds Landed		90% of Pounds Landed	
		Number of Vessels	% of Fleet	Number of Vessels	% of Fleet
1974	1,914	326	17.0	1,032	53.9
1975	1,979	329	16.6	1,054	53.3
1976	2,770	453	16.4	1,460	52.7
1977	3,108	473	15.2	1,597	51.4
1978	3,157	446	14.1	1,576	49.9
1979	3,114	423	13.6	1,449	46.5
1980	3,875	372	9.6	1,375	35.5
1981	3,615	420	11.6	1,391	38.5
1982	3,269	359	11.0	1,249	38.2
1983	2,951	294	10.0	1,082	36.7
1984	771	88	11.4	333	43.2
1985	2,050	132	6.4	514	25.1
1986	2,284	238	10.4	851	37.3
1987	2,111	292	13.8	928	44.0
1988	2,061	337	16.4	1,069	51.9
1989	1,937	303	15.6	959	49.5
1990	1,557	221	14.2	709	45.5
1991	1,217	206	16.9	651	53.5
1992	649	87	13.4	286	44.1
1993	612	67	10.9	235	38.4
1994	371	43	11.6	152	41.0
1995	476	52	10.9	184	38.7
1996	456	62	13.6	202	44.3
1997	433	60	13.9	184	42.5
1998	373	51	13.7	165	44.2
1999	328	47	14.3	150	45.7
2000 ^{b/}	399	68	17.0	197	49.4

a/ Includes licensed (permitted for 1980 on) and properly identified vessels only. Total poundage on which the numbers are based is not equal to total aggregate troll landings because of landings by unlicensed or misidentified vessels. Percentages of total pounds not credited to licensed (permitted) vessels were 1974-19%, 1975 - 19%, 1976 - 9.4%, 1977 - 8%, 1978 - 1.4%, 1979 - 0.2%, 1980 - 1.7%, 1981 - 0.11% and 1982-2000 - less than 0.05%.

b/ Preliminary.

TABLE D-14. Washington number of vessels landing 50% and 90% (by numbers of fish) of non-Indian troll salmon catch.^{a/} (Page 1 of 1)

Year	Total Vessels	50% of Fish Landed		90% of Fish Landed	
		Number of Vessels	% of Fleet	Number of Vessels	% of Fleet
1978	3,041	223	7.3	1,040	34.2
1979	2,778	253	9.1	946	34.1
1980	2,626	206	7.8	883	33.6
1981	2,439	214	8.8	810	33.2
1982	2,253	181	8.0	703	31.2
1983	2,056	75	3.6	409	19.9
1984	374	55	14.7	180	48.1
1985	1,259	104	8.3	443	35.2
1986	1,252	100	8.0	387	30.9
1987	883	97	11.0	385	43.6
1988	650	51	7.8	239	36.8
1989	883	70	7.9	268	30.4
1990	897	111	12.4	373	41.6
1991	811	84	10.4	344	42.4
1992	604	59	9.8	193	32.0
1993	474	47	9.9	162	34.2
1994	1	NA	NA	NA	NA
1995	96	13	13.5	41	42.7
1996	90	14	15.6	45	50.0
1997	51	7	13.7	23	45.1
1998	23	5	21.7	12	52.2
1999	57	10	17.5	32	56.1
2000	49	11	22.5	28	57.1

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

TABLE D-15. Preliminary 2000 California, Oregon, and Washington troll fleet by home state and salmon landings and exvessel value. (Page 1 of 1)

Home State	Number of Vessels	Percent	Landings (Pounds)	Percent	Total Value (Dollars)	Percent
CALIFORNIA						
California	662	91.3	3,959,986	87.8	7,832,789	88.6
Oregon	42	5.8	433,378	9.6	792,944	9.0
Washington	13	1.8	93,189	2.1	173,878	2.0
Unknown/Other	<u>8</u>	1.1	<u>22,162</u>	0.5	<u>37,402</u>	0.4
TOTAL	725		4,508,715		8,837,013	
OREGON						
Oregon	337	84.4	1,248,852	80.4	NA	NA
California	7	1.8	35,649	2.3	NA	NA
Washington	53	13.3	264,009	17.0	NA	NA
Unknown/Other	<u>2</u>	0.5	<u>3,924</u>	0.3	<u>NA</u>	NA
TOTAL	399		1,552,434		3,064	
WASHINGTON						
Washington	45	92%	152,009	94%	242,805	94%
Oregon	0	-	0	-	0	-
California	0	-	0	-	0	-
Unknown/Other	<u>4</u>	8%	<u>10,291</u>	6%	<u>16,065</u>	6%
TOTAL	49		162,300		258,870	

TABLE D-16. Vessels landing salmon in California by vessel length and skipper's state of residence. (Page 1 of 1)

Year	Home State ^{a/}						Total (length) ^{b/}						Grand Total			
	California (length)			Oregon (length)			Washington (length)			<26						
	<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 ^{c/}	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 ^{d/}	166	223	273	662	0	5	37	42	2	4	7	13	169	235	321	725

^{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 and vessels of unknown length.^{c/} Length category for 1982 is ≥36.^{d/} 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 ^{a/}	87.2	0.9	11.6	0.3
2000 ^{a/}	84.4	1.8	13.3	0.5

a/ Preliminary.

TABLE D-18. ^{a/}Percentages of vessels landing non-Indian troll salmon in Washington by license holder's state of residence. (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
^{c/} 1994	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

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 1)

Year	Activity Level ^{a/}	Port Area						Total
		Monterey	San Francisco	Fort Bragg	Eureka	Crescent City	Unknown ^{b/}	
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	19	43	9	3	0	0	74
	Casual	9	26	7	4	1	0	47
	TOTAL	28	69	16	7	1	0	121

a/ Active vessels landed over 100 salmon; casual vessels landed one to 100 salmon.

b/ Unknown vessels did not report port of landing or landed in two or more port areas during the season.

TABLE D-20. Number of charter boats licensed in Oregon. (Page 1 of 1)

Year	Total Number Licensed Charter Boats ^{a/}	Licensed By Oregon Residents	Licensed By Washington Residents	Licensed By Residents of Other States
1980	194	192	2	0
1981	248	213	34	1
1982	253	212	40	1
1983	255	206	47	2
1984	218	185	31	2
1985	226	198	25	3
1986	247	216	26	5
1987	254	226	23	5
1988	313	266	42	5
1989 ^{b/}	322	273	44	5
1990	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 ^{c/}	143	139	4	0

a/ Legislation that created the license expired in 1987. Fees were between \$25 and \$100 from 1980-1987. License was reinstated by rule in 1988 and 1989 with a \$10 fee.

b/ In 1990, responsibility for licensing of charter vessels was transferred to the Marine Board and fees for Oregon residents were increased from \$10 to between \$50 and \$100.

c/ Preliminary.

TABLE D-21. Number of salmon charter boats licensed in Washington (including Puget Sound). (Page 1 of 1)

Year	Number of Licenses Issued	Licensed by Washington Residents	Licensed by Residents of Other States	Buyback
1975	404	351	53	-
1976	427	362	65	-
1977 ^{a/}	569	NA	NA	-
1978	535	483	52	-
1979	516	473	43	-
1980	510	465	45	16
1981	478	443	35	3
1982	415	387	28	25
1983	375	354	21	19
1984	334	313	21	21
1985	288	268	20	19
1986	308	286	22	15
1987	280	269	11	-
1988	281	268	13	-
1989	276	263	13	-
1990	273	258	15	-
1991	267	251	16	-
1992	269	252	17	-
1993	265	250	15	-
1994	260	245	15	-
1995	231	217	14	23
1996	210	199	9	18
1997	210	197	13	0
1998	198	188	10	20
1999 ^{b/}	180	172	8	0
2000	143	139	4	37

a/ First year moratorium in effect.

b/ Preliminary.

TABLE D-22. Price index.^{a/} (Page 1 of 1)

Year	Price Index
1960	21.0
1961	21.3
1962	21.5
1963	21.8
1964	22.1
1965	22.5
1966	23.2
1967	23.9
1968	24.9
1969	26.1
1970	27.5
1971	29.0
1972	30.2
1973	32.0
1974	34.7
1975	37.9
1976	40.2
1977	42.8
1978	45.8
1979	49.5
1980	53.9
1981	58.9
1982	62.5
1983	65.1
1984	67.5
1985	69.6
1986	71.1
1987	73.1
1988	75.6
1989	78.5
1990	81.6
1991	84.3
1992	86.2
1993	88.5
1994	90.3
1995	92.3
1996	94.0
1997	95.8
1998	97.0
1999	98.5
2000 ^{b/}	100.0

a/ Based on gross domestic product implicit price deflator.

b/ Preliminary estimate of annual change based on the second and third quarters of the year.

