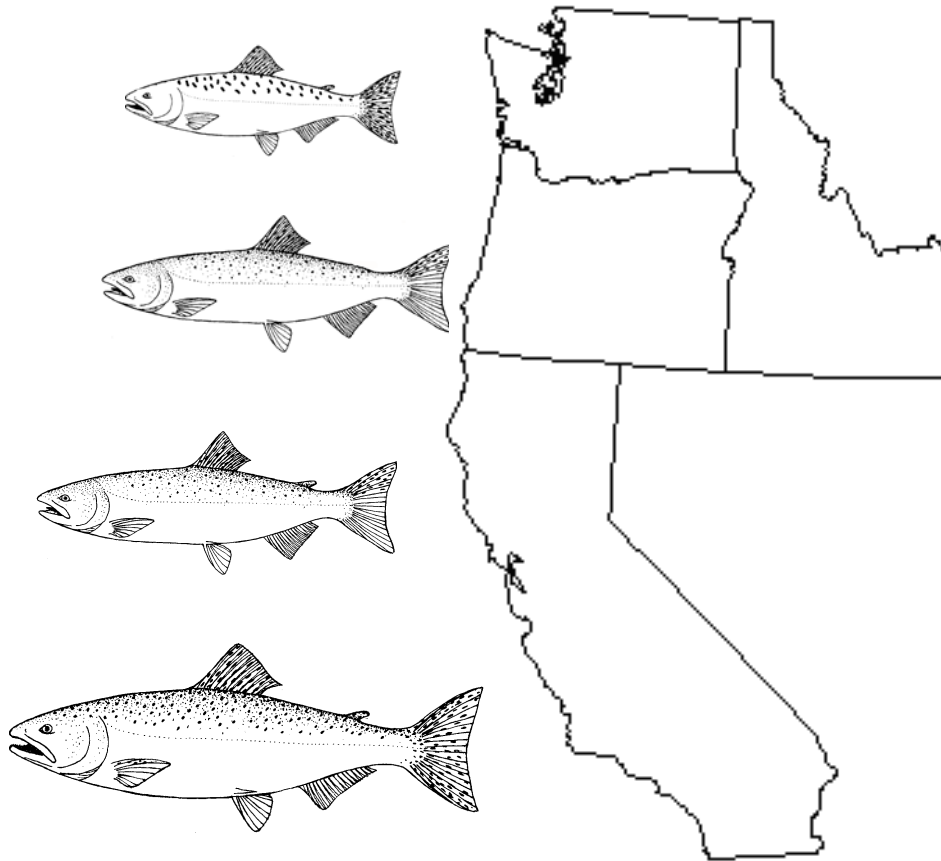


# REVIEW OF 2011 OCEAN SALMON FISHERIES

Stock Assessment and Fishery Evaluation Document  
for the Pacific Coast Salmon Fishery Management Plan



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## LIST OF ACRONYMS AND ABBREVIATIONS

AABM	aggregate abundance-based management
ADFG	Alaska Department of Fish and Game
AEQ	adult equivalents
CCC	central California coast (coho)
CDFG	California Department of Fish and Game
Council	Pacific Fishery Management Council
CVI	Central Valley Index
CWT	coded-wire tag
EEZ	exclusive economic zone (from 3-200 miles from shore)
EMAP	Environmental Monitoring and Assessment Program
ESA	Endangered Species Act
ESU	evolutionarily significant unit
FEAM	Fishery Economic Assessment Model
FMP	fishery management plan
F <sub>MSY</sub>	MSY exploitation rate
FRAM	Fisheries Regulatory Assessment Model
ISBM	individual stock-based management
KMZ	Klamath management zone (ocean zone between Humbug Mountain and Horse Mountain where management emphasis is on KRFC)
KRFC	Klamath River Fall Chinook
LCN	Lower Columbia Natural (coho)
LCR	Lower Columbia River (natural tule Chinook)
LRH	lower Columbia River hatchery (tule fall Chinook returning to hatcheries below Bonneville Dam)
LRW	lower Columbia River wild (bright fall Chinook spawning naturally in tributaries below Bonneville Dam)
MCB	mid-Columbia River brights (bright hatchery fall Chinook released below McNary Dam)
MFMT	maximum fishery mortality threshold
MOC	mid-Oregon coast
MSST	minimum stock size threshold
MSY	maximum sustainable yield
NA	not available
NMFS	National Marine Fisheries Service
NOC	north Oregon coast
ODFW	Oregon Department of Fish and Wildlife
OCN	Oregon coastal natural (coho)
OPI	Oregon Production Index (coho salmon stock index south of Leadbetter Point)
PacFIN	Pacific Coast Fisheries Information Network
PSC	Pacific Salmon Commission
PST	Pacific Salmon Treaty
RER	rebuilding exploitation rate
RK	Rogue/Klamath (coho)
SAFE	stock assessment and fishery evaluation (document)
SCH	Spring Creek Hatchery (tule fall Chinook returning to Spring Creek Hatchery)
SDC	status determination criteria
SEAK	Southeast Alaska
S <sub>MSY</sub>	MSY spawning escapement
SONCC	southern Oregon/northern California coastal (coho)
SRFC	Sacramento River fall Chinook
SRFI	Snake River Fall Index
SRS	Stratified Random Sampling
STEP	Salmon Trout Enhancement Program
STT	Salmon Technical Team (formerly the Salmon Plan Development Team)
SUS	Southern United States

## LIST OF ACRONYMS AND ABBREVIATIONS (continued)

		<u>Page</u>
TAC	total allowable catch	
URB	upper river brights (naturally spawning fall Chinook primarily migrating past McNary Dam)	
USFWS	U.S. Fish and Wildlife Service	
WCVI	West Coast Vancouver Island	
WDFW	Washington Department of Fish and Wildlife	

## INTRODUCTION

The Salmon Technical Team (STT) and staff of the Pacific Fishery Management Council (Council) have prepared this stock assessment and fishery evaluation (SAFE) document as a postseason review of the 2011 ocean salmon fisheries off the coasts of Washington, Oregon, and California to help assess Council salmon fishery management performance, the status of Council area salmon stocks, and the socioeconomic impacts of salmon fisheries. This postseason report will also provide a detailed description of the salmon fishery portions of the affected environment to be incorporated by reference into an Environmental Assessment (EA) to comply with National Environmental Policy Act (NEPA) requirements for the 2012 ocean salmon management measures. The STT and Council staff will provide three additional reports prior to the beginning of the ocean salmon season to help guide the Council's selection of annual fishery management measures: Preseason Report I, Preseason Report II, and Preseason Report III. These reports will provide forecasts of stock abundance, determine annual catch limits, and will analyze the biological and economic impacts of the Council's proposed alternatives and adopted fishery management recommendations. Preseason Report I will also constitute the first part of the EA for 2012 ocean salmon fishery management measures, and include a statement of the purpose and need, a description of the affected environment, and a description and analysis of the status quo (no action) alternative. Preseason Report II will constitute the second and final part of the EA, and will include a description and analysis of the alternative management measures considered for 2012 ocean salmon fisheries. The alternatives analyzed in Preseason Report II will provide a reasonable range of environmental effects, which will bound those of the final fishery management measures included in Preseason Report III. Together, these two parts of the EA will provide the necessary components to determine if a finding of no significant impact (FONSI) is warranted.

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

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

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

For Chinook and coho salmon, respectively, Chapters II and III assess, where possible, the achievement of pertinent management objectives by salmon stock (including those listed under the Endangered Species Act [ESA]), outline regulations used to achieve the objectives, and summarize inside fisheries catch and spawner escapement data. Appendix B tables detail historical spawning escapement and inside fisheries catch information. Detailed information for other salmon species is not included since Council fisheries have minor impacts on pink salmon escapements and no measurable impacts on sockeye or chum salmon or steelhead trout; however, catch and escapement data and objectives for Puget Sound pink salmon are summarized in Appendix B, Table B-43.

In 2011 the Council adopted new status determination criteria (SDC) for overfishing, overfished, not overfished/rebuilding, and rebuilt under Salmon Fishery Management Plan (FMP) Amendment 16. These criteria, approved and implemented in December 2011, were:

- Overfishing occurs when a single year exploitation rate exceeds the maximum fishing mortality threshold (MFMT), which is based on the maximum sustainable yield exploitation rate ( $F_{MSY}$ );
- Overfished status occurs when the most recent 3-year geometric mean spawning escapement is less than the minimum stock size threshold (MSST);
- Not overfished/rebuilding status occurs when a stock has been classified as overfished and has not yet been rebuilt, and the most recent 3-year geometric mean spawning escapement is greater than the MSST but less than  $S_{MSY}$ ;
- A stock is rebuilt when the most recent 3-year geometric mean spawning escapement exceeds  $S_{MSY}$ .

All SDC rely on the most recent estimates available, which in some cases may be a year or more in the past because of incomplete broods or data availability. The above criteria for rebuilt status are the default criteria provided in the FMP; however, alternative criteria may be developed through a rebuilding plan if warranted by stock specific circumstances. While the Amendment 16 SDC may not have been in place for all stocks during the preseason process, all relevant stocks were evaluated relative to these new SDC as required by the FMP. In addition, new conservation objectives were adopted for some stocks based on revised estimates of  $S_{MSY}$  and  $F_{MSY}$ , which are the reference points used to establish stock-specific SDC. Stock specific reference points and recent year estimates for relevant stocks are presented in Tables II-6 and III-6.

Socioeconomic impacts of the fisheries are discussed in Chapter IV. Appendix D provides historical fishery-related socioeconomic data.

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

### **COMMON TABLE CONVENTIONS**

All 2011 data provided in this report are preliminary. The following conventions apply to all tables in this report:

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

# CHAPTER I

## *COASTWIDE OCEAN FISHING SUMMARY*

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

## *COUNCIL-AREA REGULATIONS AND LANDINGS*

Summaries of the 2011 regulations for non-Indian commercial troll, treaty Indian commercial troll, and recreational ocean salmon fishing in both the exclusive economic zone (EEZ) (3 to 200 nautical miles from shore) and state territorial waters (0 to 3 nautical miles from shore) are provided in Tables I-1, I-2, and I-3, respectively. Historical summaries of regulations for each of the three West Coast states and for treaty Indian troll fisheries are provided in Appendix C, Tables C-1 through C-7. Table C-9 provides a summary of inseason regulatory actions and events during the 2011 season.

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

Table I-4: Council area commercial and recreational ocean salmon fishing effort and landings of Chinook, coho, and pink salmon by state of landing.

Table I-5: Council area commercial and recreational ocean salmon fishing effort and landings of Chinook, coho, and pink salmon by management area.

Table I-6: The 2011 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-28: Historical monthly ocean salmon harvest data by management area.

Appendix B Tables B-1 through B-44: 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.

## *REGULATORY OBJECTIVES BY MANAGEMENT AREA*

The sections below provide a brief outline of the regulatory objectives that shaped the 2011 ocean salmon fisheries by management area and species. Further details of the conservation and allocation objectives by salmon stock and an assessment of performance are provided in Chapters II and III for Chinook and coho, respectively.

### **Horse Mountain to U.S./Mexico Border**

#### *Chinook Fisheries*

Chinook fisheries management in this area is guided by conservation objectives for Sacramento River fall Chinook (SRFC), Klamath River fall Chinook (KRFC), and by NMFS ESA consultation standards for

Sacramento River winter Chinook, California Coastal Chinook, Oregon Coast Natural (OCN) coho, and Southern Oregon/Northern California Coast (SONCC) coho. The Council structured 2011 Chinook salmon fisheries south of Horse Mountain (near Shelter Cove, California) to meet the following objectives (in order of most to least constraining):

1. The California Coastal Chinook ESA consultation standard requiring a forecast KRFC age-4 ocean harvest rate of no greater than 16.0 percent.
2. The Sacramento River winter Chinook ESA consultation standard requiring:
  - a. Commercial seasons between Point Arena and the U.S./Mexico border shall open no earlier than May 1 and close no later than September 30, with the exception of a permissible October season conducted Monday through Friday between Point Reyes and Point San Pedro, which shall end no later than October 15; the minimum size limit shall be at least 26 inches total length.
  - b. The recreational season between Point Arena and Pigeon Point shall open no earlier than the first Saturday in April and close no later than the second Sunday in November; the recreational season between Pigeon Point and the U.S./Mexico Border shall open no earlier than the first Saturday in April and close no later than the first Sunday in October; the minimum size limit shall be at least 20 inches total length.
3. Additional NMFS guidance for Sacramento River winter Chinook specified that recreational fisheries south of Point Arena must have either a minimum size limit of at least 24 inches total length for months April through August, be closed for 61 consecutive days between the dates of May 1 and August 31, or a combination of the above guidance which would specify a 61 consecutive day closure in either the San Francisco or Monterey management area between May 1 and August 31, while also implementing a 24 inch size limit in the other management area not subject to the closure.
4. A Klamath basin natural area spawning escapement of no less than 35,000 fall Chinook adults and a spawner reduction rate of no more than 67 percent, along with the allocation objective of 50 percent of the allowable adult harvest for federally-recognized tribal subsistence and commercial fisheries.
5. The SRFC spawner escapement goal of 122,000 to 180,000 hatchery and natural area adults (FMP conservation objective). NMFS also provided guidance that management measures for 2011 should result in a forecast spawner escapement around the upper end of the FMP conservation objective because of the recent depressed status of SRFC.
6. The OCN coho allowable exploitation rate (marine and freshwater combined) of no greater than 15.0 percent as required by the exploitation rate matrix recommended by the OCN Coho Work Group that was adopted by the Council as expert biological advice in November 2000.
7. The SONCC coho ESA consultation standard requirement of no greater than a 13.0 percent marine exploitation rate on Rogue/Klamath (RK) hatchery coho.

Objectives 1, 2, and 3 above were the constraining factors for 2011 Chinook fisheries management in this area. The adopted regulations (Table I-1 and I-3) resulted in the following projections: a coastwide ocean fishery harvest rate of 16.0 percent on age-4 KRFC, a KRFC spawning escapement of 35,000 natural area adults, and a SRFC spawner escapement of 377,000 natural and hatchery adults.

### *Coho Fisheries*

Coho fishery management for 2011 in this area was guided by the ESA consultation standard for Central California Coast (CCC) coho, which prohibits retention of coho in this area. No projection of non-retention fishery impacts on CCC coho was available; projected non-retention exploitation rates on LCN, OCN and RK coho were 0.0, 1.5, and 3.1 percent, respectively, in this area. Retention of coho has been prohibited south of the Oregon/California border since 1996. Coho are managed as a unit south of Cape Falcon, and details of the Council's management objectives shaping the 2011 fisheries are presented more fully in the Cape Falcon to Humbug Mountain section.

## **Humbug Mountain to Horse Mountain**

### *Chinook Fisheries*

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 management in this area is guided by conservation objectives for SRFC, KRFC, and by NMFS ESA consultation standards for California Coastal Chinook, LCN coho, OCN coho, and SONCC coho. The Council structured 2011 Chinook salmon fisheries in the KMZ to meet the following objectives (in order of most to least constraining):

1. The California Coastal Chinook ESA consultation standard requiring a forecast KRFC age-4 ocean harvest rate of no greater than 16.0 percent.
2. A Klamath basin natural area spawning escapement of no less than 35,000 fall Chinook adults and a spawner reduction rate of no more than 67 percent, along with the allocation objective of 50 percent of the allowable adult harvest for federally-recognized tribal subsistence and commercial fisheries.
3. The SRFC spawner escapement goal of 122,000 to 180,000 hatchery and natural area adults (FMP conservation objective). NMFS also provided guidance that management measures for 2011 should result in a forecast spawner escapement around the upper end of the FMP conservation objective because of the recent depressed status of SRFC.
4. The LCN coho ESA consultation standard requirement of no greater than a 15.0 percent exploitation rate (marine and mainstem Columbia River combined).
5. The OCN coho allowable exploitation rate (marine and freshwater combined) of no greater than 15.0 percent as required by the exploitation rate matrix recommended by the OCN Coho Work Group that was adopted by the Council as expert biological advice in November 2000.
6. The SONCC coho ESA consultation standard requirement of no greater than a 13.0 percent marine exploitation rate on RK hatchery coho.

Objective 1 above was the constraining factor for 2011 Chinook fisheries management in the KMZ. The adopted regulations (Table I-1 and I-3) resulted in the following projections: a coastwide ocean fishery harvest rate of 16.0 percent on age-4 KRFC, a KRFC spawning escapement of 35,000 natural area adults, and a SRFC spawner escapement of 377,000 natural and hatchery adults.

### *Coho Fisheries*

Coho fisheries management in this area is guided by the ESA consultation standards for LCN, OCN, SONCC and CCC coho, which prohibits retention of coho south of the Oregon/California border. No projection of non-retention fishery impacts on CCC coho was available; projected exploitation rates on

LCN, OCN and RK coho in this area were 0.2 percent, 1.2 percent and 4.8 percent, respectively. Coho are managed as a unit south of Cape Falcon, and details of the Council's management objectives shaping the 2011 fisheries are presented more fully in the Cape Falcon to Humbug Mountain section.

## **Cape Falcon to Humbug Mountain**

### *Chinook Fisheries*

Chinook fisheries management in this area is guided by conservation objectives for SRFC, KRFC, and by NMFS ESA consultation standards for California Coastal Chinook, Lower Columbia River (LCR) natural tule Chinook, SRW Chinook, LCN coho, OCN coho, and SONCC coho. The Council structured 2011 Chinook salmon fisheries in this area to meet the following objectives:

1. The California Coastal Chinook ESA consultation standard requiring a forecast KRFC age-4 ocean harvest rate of no greater than 16.0 percent.
2. A Klamath basin natural area spawning escapement of no less than 35,000 fall Chinook adults and a spawner reduction rate of no more than 67 percent, along with the allocation objective of 50 percent of the allowable adult harvest for federally-recognized tribal subsistence and commercial fisheries.
3. NMFS consultation standards and annual guidance for ESA listed LCR natural tule Chinook, which required a total exploitation rate not to exceed 37.0 percent in marine and freshwater fisheries combined.
4. The SRFC spawner escapement goal of 122,000 to 180,000 hatchery and natural area adults (FMP conservation objective). NMFS also provided guidance that management measures for 2011 should result in a forecast spawner escapement around the upper end of the FMP conservation objective because of the recent depressed status of SRFC.
5. The LCN coho ESA consultation standard requirement of no greater than a 15.0 percent exploitation rate (marine and mainstem Columbia River combined).
6. The OCN coho allowable exploitation rate (marine and freshwater combined) of no greater than 15.0 percent as required by the exploitation rate matrix recommended by the OCN Coho Work Group that was adopted by the Council as expert biological advice in November 2000.
7. The SONCC coho ESA consultation standard requirement of no greater than a 13.0 percent marine exploitation rate on RK hatchery coho.

Objectives 1, 2, and 3 above were the constraining factors on 2011 Chinook fisheries management in this area. The adopted regulations (Table I-1 and I-3) resulted in the following projections: a coastwide ocean fishery harvest rate of 16.0 percent on age-4 KRFC, a KRFC spawning escapement of 35,000 natural area adults, a 37.0 percent total exploitation rate on LCR tule natural tules, and a SRFC spawner escapement of 377,000 natural and hatchery adults.

### *Coho Fisheries*

Coho fisheries management in this area is guided by NMFS ESA consultation standards for LCN coho, OCN coho, and SONCC coho. The Council structured 2011 coho salmon fisheries in this area to meet the following objectives:



1. The LCN coho ESA consultation standard requirement of no greater than a 15.0 percent exploitation rate (marine and mainstem Columbia River combined).
2. The OCN coho allowable exploitation rate (marine and freshwater combined) of no greater than 15.0 percent as required by the exploitation rate matrix recommended by the OCN coho work group which was accepted by the Council as expert biological advice in November 2000.
3. The SONCC coho ESA consultation standard requirement of no greater than a 13.0 percent marine exploitation rate on Rogue/Klamath (RK) hatchery coho.

Objective 1 above was the most constraining factor on 2011 coho fisheries management in this area. The Council adopted seasons in this area with projected impacts of 2.0 percent, 3.5 percent, and 0.3 percent on LCN natural coho OCN coho and RK coho, respectively. In all relevant fisheries, projected impact rates were 15.0 percent, 13.2 percent, and 8.4 percent, respectively.

## **U.S./Canada Border to Cape Falcon**

### *Chinook Fisheries*

Management objectives for Chinook fisheries in this area were to comply with NMFS ESA consultation standards for LCR natural tule, Lower Columbia River Wild (LRW), and Snake River wild (SRW) fall Chinook; meet treaty Indian sharing obligations, the allocation provisions in the Salmon FMP, and provisions of the Pacific Salmon Treaty (PST); and to the extent possible, provide for viable ocean and inriver fisheries while meeting natural stock escapement objectives and hatchery fall Chinook broodstock needs. Columbia lower river hatchery (LRH) and Spring Creek Hatchery (SCH) fall Chinook have historically been the major contributors to ocean fishery catches in the Council area north of Cape Falcon. The Council structured Chinook salmon fisheries between Cape Falcon, Oregon and the U.S./Canada Border to meet the following objectives:

1. The LCR natural tule Chinook ESA consultation standard requirement for a combined marine and freshwater exploitation rate of no greater than 37.0 percent.
2. The Snake River fall Chinook ESA consultation standard of at least a 30.0 percent reduction in the total ocean age-3 and age-4 age-equivalent (AEQ) exploitation rate from the 1988-1993 average.
3. For select Chinook stocks of concern to the PSC, keep the Individual Stock-Based Management (ISBM) index at or below 60.0 percent of the 1979-1982 base period average.

Objective 1 above was the primary constraint for 2011 ocean fisheries in this area. Under the adopted regulations (Tables I-1, I-2, and I-3), fisheries were projected to have a 37.0 percent total AEQ exploitation rate on LCR natural tules (12.1 percent in Council area fisheries), and a 49.5 percent reduction from the base period AEQ exploitation rate for SRW.

### *Coho Fisheries*

Management objectives for coho fisheries in this area were to comply with NMFS ESA consultation standards for LCN and OCN coho, meet treaty Indian sharing obligations and the allocation provisions in the Salmon FMP, provisions of the PST and, to the extent possible, provide for viable ocean and inriver fisheries while meeting natural stock escapement objectives and hatchery coho brood stock needs. Columbia River early and late hatchery coho have historically been the major contributors to ocean fishery catches in the Council area north of Cape Falcon.

The Council structured coho salmon fisheries to meet the following objectives:

1. The LCN coho ESA consultation standard requirement for a combined marine and mainstem Columbia River exploitation rate of no greater than 15.0 percent.
2. An exploitation rate on Interior Fraser coho of no more than 10.0 percent in southern U.S. fisheries in accordance with the provisions of the southern coho management plan adopted by the PSC in February, 2002.
3. The OCN coho ESA consultation standard requirement for a combined marine and freshwater exploitation rate of no greater than 15.0 percent.
4. Meet inside/outside and treaty Indian/non-Indian allocation objectives.
5. Meet FMP objectives for allocation of impacts between commercial and recreational ocean fisheries, and among port areas for the recreational fishery.

Objectives 1 and 2 above were the primary constraints for 2011 ocean fisheries in this area. The adopted regulations (Tables I-1, I-2, and I-3) were projected to have a 15.0 percent total exploitation rate on LCN coho (10.3 percent in Council area fisheries), an exploitation rate in southern U.S. fisheries of 10.0 percent on Interior Fraser (Thompson River) coho (4.1 percent in Council area fisheries), and a total exploitation rate of 13.2 percent on OCN coho (7.9 percent in Council area fisheries).

### ***SELECTIVE FISHERIES AND SALMON BYCATCH***

Estimated incidental Chinook and coho mortalities are reported in Tables I-7, I-8, and I-9. Unless otherwise noted, Chinook mortality estimates from north of Cape Falcon and coho mortality estimates coastwide were based on preliminary postseason model runs incorporating final ocean catch numbers and updated Columbia River run-sizes; Chinook mortality estimates south of Humbug Mountain, Oregon were based on expansion of dockside sampling data. Under the Magnuson-Stevens Act, incidental mortality in commercial fisheries constitutes bycatch mortality, but incidental mortality resulting from the non-retention recreational fisheries does not.

The Council assumed a hook-and-release mortality rate of 26 percent in commercial troll fisheries coastwide and 14 percent in recreational fisheries north of Point Arena. In recreational fisheries south of Point Arena, the Council assumed 19 percent based on the proportion of fish caught using mooching versus trolling gear, and the estimated rates of 42.2 and 14 percent for these gear types, respectively. In addition, the Council assumes drop-off mortality for both Chinook and coho equal to 5 percent of total encounters.

### **Selective Chinook Fisheries**

Recreational fisheries selective for marked Chinook were planned for the four ocean subareas between Cape Falcon, Oregon, and the U.S.-Canada border from June 18 through June 25, 2011. Preseason and inseason assessments of mark rates, catches, number of Chinook released, and incidental (bycatch) mortality for Council-area and some mixed-stock inside fisheries are summarized in Table I-8. Fisheries were sampled by a combination of on-water observers and dockside interviews. The observed mark rates were generally slightly lower than predicted preseason. Observed non-retention mortality was less than expected but the quota was not reached. Two Oregon state waters terminal area recreational fisheries also had mark-selective requirements (Table I-3).

In 2011, recreational fisheries in the Strait of Juan de Fuca operated under mark-selective retention restrictions for both Chinook and coho in Area 5 and the portion of Area 6 west of Port Angeles, from July 1 through August 15 (Figure I-1). As in 2010, the Areas 5 and 6 mark-selective fisheries were managed on a season rather than quota-based criteria. After August 15, the fisheries in Areas 5 and 6 remained open for marked coho only (no Chinook retention) through September 18; Area 5 operated under non-mark-selective fishing regulations for coho from September 19 through September 30 while Area 6 remained mark-selective for coho through September 30. Catch and release estimates, derived from creel census programs conducted during the mark-selective fishery in Area 5 from July 1 through September 18 are presented in Table I-8. No inseason estimate was made for Area 6, which was open from July 1 through August 15 for mark-selective Chinook fishing. The observed mark rates were much lower than predicted pre-season. Observed non-retention mortality was greater than expected, and the quota was nearly reached (Table I-8).

Mark-selective Chinook fisheries were also held in Puget Sound Area 9 from July 16 through August 31, in Area 10 from July 16 through August 31, in Area 11 June 1 through September 30, and in Area 13 May 1 through September 30 (Figure I-1). Winter mark-selective fisheries were held in Area 7 from December 1, 2011 through April 30, 2012. Winter mark-selective Chinook fisheries were held in Areas 8-1 and 8-2 November 1, 2011 through April 30, 2012. Area 9 had mark-selective Chinook opportunity November 1-30, 2011 and January 16 through April 15, 2012. Area 10 had mark-selective Chinook fisheries from October 1, 2011 through January 31, 2012. Areas 11 and 12 had mark-selective Chinook opportunity from February 1 through April 30, 2012.

### **Selective Coho Fisheries**

Recreational fisheries selective for marked coho were planned for the area between Cape Falcon and Humbug Mt., Oregon, the four ocean subareas north of Cape Falcon, and the inside fisheries at Buoy 10 and in Areas 5 and 6 in the Strait of Juan de Fuca (Figure I-1). Numerous other Puget Sound, inside, and freshwater recreational fisheries in Washington and Oregon had mark-selective restrictions for coho. Non-Indian commercial mark-selective fisheries for coho were planned for the area between the U.S./Canada border and Cape Falcon. Pre-season and in-season assessments of mark rates, catch, number of coho released, and incidental (bycatch) mortality for Council-area and some mixed stock inside fisheries are summarized in Table I-9. Fisheries were sampled by a combination of on-water observers and dockside interviews. The observed mark rates both north and south of Cape Falcon were lower than predicted pre-season. Observed non-retention mortality was less than expected in all fisheries, although quotas were not reached in any of the fisheries.

### ***PACIFIC SALMON COMMISSION***

The PSC was established to implement the 1985 Pacific Salmon Treaty (PST) between the United States and Canada. Because many of the stocks under the jurisdiction of the Council are significantly affected by management actions taken in Canadian and Alaskan waters, considerable interaction between the Council and the PSC occurs at both the policy and technical levels. Actual catches for PSC fisheries of the most relevance to the Council are summarized in Tables I-10 and I-11. Note that these catch statistics do not correspond to provisions of the PST for compliance with aggregate abundance-based management (AABM; see below); nor do they reflect incidental mortality losses associated with the regulation of these fisheries, except as noted.

### **Chinook Fisheries**

Northern British Columbia (B.C.) and Southeast Alaska (SEAK) fisheries affect far-north migrating Chinook stocks from Washington, Oregon, and Idaho. These include Washington coastal stocks, Columbia and Snake River bright fall 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 (including LRW) to a lesser degree, but have a major impact on more southerly distributed Columbia River tule and Puget Sound stocks.

In June 1999, the United States and Canada reached agreement on a framework for Chinook fishing regimes for 1999 through 2008. Under this agreement, SEAK (all gear), Northern B.C. (troll and recreational), and WCVI (troll and outside recreational) fisheries were regulated under aggregate AABM regimes. These fishery regimes had catch ceilings derived from indices for total aggregate abundance of stocks contributing to specific components of the fisheries and target fishery harvest rates. For example, the allowable catch for WCVI troll and outside recreational fisheries were determined by the abundance index estimated for the WCVI troll fishery. The allowable catch for the WCVI AABM fisheries was designed to reduce harvest rates for the combined troll and outside recreational fisheries by approximately 35 percent from levels observed during 1985 through 1996. Provisions of a new ten-year agreement, ratified in 2008, took effect January 1, 2009. The 2008 agreement reduced catch ceilings in SEAK and WCVI AABM fisheries by 15 percent and 30 percent respectively, from those in the 1999 agreement. The United States and Canada are developing management regimes for AABM fisheries based on total mortality rather than landed catch.

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

In 2011, AABM fisheries were conducted in accordance with the obligations set forth in the 2008 PST agreement. SEAK fisheries were constrained by an all-gear catch ceiling of 294,800 "treaty" Chinook in 2011, a 32.9 percent increase from the ceiling of 221,800 in 2010, but 15 percent less than it would have been under the 1999 agreement. "Treaty" Chinook are those fish that are counted against the AABM catch ceiling; they represent total catch minus terminal exclusions (fish taken in terminal net fisheries where escapement goals are achieved) and hatchery add-ons (fish attributed to production from Alaskan hatchery facilities in excess of levels observed prior to the 1985 PST). The preliminary estimate of 2011 total catch of Chinook by SEAK fisheries was 358,352, while the catch of "treaty" Chinook was 290,301 (Table I-10). The catch ceiling for the Northern B.C. AABM fisheries (Northern B.C. troll plus Queen Charlotte Islands recreational) in 2011 was 182,400, compared to a ceiling in 2010 of 152,100 Chinook. The actual catch was estimated at 122,660 (74,660 troll plus 48,000 recreational). The Northern B.C. troll fishery in 2011 was conducted under a system of individual transferable quotas for the second time.

In addition to the overall catch ceiling determined by the PST, Canada's principal management objectives for the 2011 WCVI Chinook fisheries were to meet domestic allocation objectives as well as address concerns for Lower Strait of Georgia Chinook, WCVI Chinook stocks, spring run upper Fraser River Chinook, and Interior Fraser (Upper Fraser and Thompson) coho. The total allowable catch in 2011 by WCVI AABM fisheries under the 2008 PST Agreement was 196,800 Chinook compared to the allowable catch of 143,700 in 2010. The reported catch was 206,569 (123,930 troll, 4,289 First Nations, and 78,350 recreational; Table I-11).

Since 1999, the WCVI troll fishery has been managed to distribute the catch throughout the year with fisheries in the summer shaped to reduce impacts on coho and WCVI, Lower Strait of Georgia, and early-run Fraser River Chinook stocks. In accounting year 2011 (October 2010 through September 2011) troll fisheries were open for retention of Chinook in February through June and late July through August (Table I-12). The July-August fishery was restricted to large plugs to reduce coho contacts and the

nearshore waters were closed to protect local WCVI Chinook stocks. To protect Interior Fraser coho, coho retention was mark-selective and revival tanks were required for released coho.

The WCVI outside recreational fishery (the area where non-local stocks predominate) operated under a 45 cm (17.7 inches) total length minimum size limit, but with the additional restriction that Chinook over 77 cm (30.3 inches) could not be retained in the surf zone corridor (within 1 mile of shore) to protect local-origin stocks. The fishery harvested 78,350 fish, a significant increase of about 49 percent from the 2010 catch.

Catch estimates for all Canadian ISBM fisheries in Northern B.C. were incomplete; the reported Chinook catch in 2011 was approximately 3,600 by commercial gillnets. Approximately 5,200 Chinook were caught by anglers from lodges in Rivers Inlet, Hakai Pass, and Bella Bella. Surveys of private angler catch were not conducted, but were believed to be less than the lodge catch. Tidal area recreational catch estimates near the mainland coast of Northern B.C. in 2011 were not available. Catches by First Nations were 10,900 Chinook for the North Coast and approximately 100 for the Central Coast.

Southern B.C. ISBM fisheries in 2011 harvested 229,109 Chinook (116,295 recreational, 85,371 First Nations, and 27,443 commercial).

No direct management measures for Chinook salmon within the Council management area were specified under the 2008 PST agreement, except for the ISBM commitment. The Council's ocean fisheries and inside fisheries conducted by the state and tribal managers were designed to minimize impacts on spawning escapements of depressed stocks, and preseason estimates of impacts were in compliance with terms of the PST agreement. Information necessary to evaluate the postseason impacts of Council area fisheries was not available.

## **Coho Fisheries**

In 2002 the PSC adopted a management plan for coho salmon originating in Washington and Southern B.C. river systems. The plan is directed at the conservation of key management units, four from Southern B.C. (Interior Fraser, Lower Fraser, Strait of Georgia Mainland, Strait of Georgia Vancouver Island) and nine from Washington (Skagit, Stillaguamish, Snohomish, Hood Canal, Strait of Juan de Fuca, Quillayute, Hoh, Queets, and Grays Harbor). Under the plan, the United States and Canada were required to constrain total fishery exploitation rates to levels associated with the categorical status (low, moderate, and abundant) and target exploitation rates of the key management units as determined by domestic managers. Ceilings on exploitation rates by intercepting fisheries were established through formulas specified in the plan.

The forecast of 2011 abundance indicated that the status of interior Fraser River coho remained critically low. The lower Fraser, Georgia Basin, and the Johnstone Strait coho management units were all forecast to be at low or moderate status. The PSC coho status categories of low, moderate, and abundant are analogous to the FMP categories of critical, low, and normal.

In 2011, Canada's coho management objective was to constrain the exploitation rate by its fisheries on Thompson coho (a component of the Interior Fraser management unit) to a ceiling of 3 percent. Unmarked coho were released in many Southern B.C. commercial and recreational fisheries where Thompson coho were known to be prevalent. Estimated release mortality rates for legal-size coho by gear type were: seine 25 percent; northern gill net 70 percent; southern gill net 60 percent; troll 26 percent; and recreational 10 percent (Canadian Stock Assessment Secretariat, Research Document 99/128). Only terminal area fisheries along the WCVI and small portions of upper Johnstone Strait and the Queen Charlotte Islands were permitted for a short period to retain unmarked coho. Selective fishing

techniques, such as barbless hooks for trollers, seine bunt restrictions, and use of revival tanks, were required. In 2011 a total of 307,800 coho (296,600 troll, 11,200 net) were retained by commercial fisheries in Northern B.C. and 15,900 coho in Southern B.C net fisheries. Coho kept and released by marine commercial fisheries are summarized in Table I-13.

For recreational fisheries, mark-selective coho retention was permitted in mixed stock areas, and barbless hooks were required. Mark-selective fisheries were implemented in most of Southern B.C. (Johnstone Strait, Strait of Georgia, Juan de Fuca Strait, and WCVI). The estimated total retained catch of coho in Southern B.C. marine recreational fisheries in 2011 was 78,900. Coho kept and released by marine recreational fisheries in Southern B.C. are summarized in Table I-14.

First Nations fisheries in Southern B.C. were estimated to have harvested 30,500 coho.

TABLE I-1. Summary of actual ocean non-Indian commercial troll salmon fishing regulations for 2011. (Page 1 of 3)

Area and Season	Salmon Species	Actual Quota (Guideline*)		Special Restrictions <sup>a/</sup>
		Chinook	Coho	
U.S./Canada border to Cape Falcon, OR May 1-June 21; June 23-30 (60 days)	All except coho	20,600*	-	Open seven days per week May 1-June 21, no landing and possession limit; open June 23-30 with landing and possession limit of 30 Chinook per vessel per open period. Cape Flattery, Mandatory Yelloweye Rockfish Conservation Area, and Columbia Control Zones closed. Vessels must land and deliver their fish within 24 hours of any closure of this fishery. Under state law, vessels must report their catch on a state fish receiving ticket. Vessels fishing or in possession of salmon while fishing north of Leadbetter Point must land and deliver their fish within the area and north of Leadbetter Point. Vessels fishing or in possession of salmon while fishing south of Leadbetter Point must land and deliver their fish within the area and south of Leadbetter Point, except that Oregon permitted vessels may also land their fish in Garibaldi, Oregon. Oregon State regulations require all fishers landing salmon into Oregon from any fishery between Leadbetter Point, Washington and Cape Falcon, Oregon must notify ODFW within one hour of delivery or prior to transport away from the port of landing by either calling 541-867-0300 Ext. 271 or sending notification via e-mail to <a href="mailto:nfalcon.trollreport@state.or.us">nfalcon.trollreport@state.or.us</a> . Notification shall include vessel name and number, number of salmon by species, port of landing and location of delivery, and estimated time of delivery. Inseason actions may modify harvest guidelines in later fisheries to achieve or prevent exceeding the overall allowable troll harvest impacts.
July 1-5, 8-12, 15-19, 22-26, July 29-Aug. 2, Aug. 5-9, 19, 27-29, Sept. 3-6, 10-13 (42 days)	All salmon except no chum retention north of Cape Alava, WA in August and September	10,300*	12,800	Per vessel per open period landing and possession limit of 50 Chinook and 50 marked coho through July 12; 30 Chinook and 50 marked coho July 15 through August 11; 12 Chinook and 50 marked coho August 19; 12 Chinook and 75 marked coho August 27-29; 20 Chinook and 100 marked coho thereafter. Mandatory Yelloweye Rockfish Conservation Area, Cape Flattery and Columbia Control Zones, and beginning August 1. Grays Harbor Control Zone Closed. Vessels must land and deliver their fish within 24 hours of any closure of this fishery. Vessels fishing or in possession of salmon while fishing north of Leadbetter Point must land and deliver their fish within the area and north of Leadbetter Point. Vessels fishing or in possession of salmon while fishing south of Leadbetter Point must land and deliver their fish within the area and south of Leadbetter Point, except that Oregon permitted vessels may also land their fish in Garibaldi, Oregon. Vessels may not catch or land salmon both north and south of Leadbetter Point during the same open period. Under state law, vessels must report their catch on a state fish receiving ticket. Oregon State regulations require all fishers landing salmon into Oregon from any fishery between Leadbetter Point, Washington and Cape Falcon, Oregon must notify ODFW within one hour of delivery or prior to transport away from the port of landing by either calling 541-867-0300 Ext. 271 or sending notification via e-mail to <a href="mailto:nfalcon.trollreport@state.or.us">nfalcon.trollreport@state.or.us</a> . Notification shall include vessel name and number, number of salmon by species, port of landing and location of delivery, and estimated time of delivery. Inseason actions may modify harvest guidelines in later fisheries to achieve or prevent exceeding the overall allowable troll harvest impacts.

TABLE I-1. Summary of actual ocean non-Indian commercial troll salmon fishing regulations for 2011. (Page 2 of 3)

Area and Season	Salmon Species	Actual Quota (Guideline*)		Special Restrictions <sup>af</sup>
		Chinook	Coho	
Cape Falcon to Humbug Mt., OR				
Apr. 15-July 9; July 17-Aug. 31; Oct. 1-31 (163 days)	All except coho	None	-	Chinook 28 inch minimum size limit. Landing and possession limit of 50 Chinook per vessel per calendar week in October. All vessels fishing in the area must land their fish in the State of Oregon.
Tillamook Ocean Terminal Area				
Twin Rocks to Pyramid Rock inside 3 nm Sept. 1-30 (30 days)	Chinook only	None	-	Chinook 28 inch minimum size limit. Landing and possession limit of 25 Chinook per vessel per day. Landings restricted to Garibaldi.
Coos/Coquille Ocean Terminal Area				
Inside 30 fathom contour from 43°31'00" N Lat. South to 43°16'00" N Lat., and inside 3 nm from 43°16'00" N Lat. South to Crooked Cr. (43°04'50" N Lat.) Sept. 1-30 (30 days)	Chinook only	None	-	Chinook 28 inch minimum size limit. Landing and possession limit of 50 Chinook per vessel per day. Landings restricted to Coos Bay, Charleston, and Bandon.
Elk River Ocean Terminal Area				
Inside of a line from Cape Blanco to Black Rock to Best Rock to 42°40'30" N. Lat. 124°29'00" W. Long. to Humbug Mt. Nov. 1-30 (30 days)	Chinook only	None	-	Chinook 24 inch minimum size limit. Landing and possession limit of 20 Chinook per vessel per calendar week. Landings restricted to Port Orford.
Humbug Mt. to OR/CA border				
May 1-31 (31 days)	All except coho	None	-	Chinook 28 inch minimum size limit. Landings restricted to Gold Beach, Port Orford, or Brookings, and within 24 hours of any closure.
June 1-30 (30 days)	All except coho	1,500	-	June 1-August 31: Landing and possession limit of 30 Chinook per vessel per day;
July 1-31 (31 days)	All except coho	1,200	-	Mandatory phone or email trip reports; Any remaining portion of the June and/or July
Aug. 1-31 (31 days)	All except coho	1,000	-	Chinook quotas may be transferred inseason on an impact neutral basis to the next open quota period.
Chetco River Ocean Terminal Area				
Twin Rocks (42°05'36" N Lat.) and the Oregon/California border (42°00'00" N Lat.) inside 3 nm Oct. 13-31 (19 days)	Chinook only	750	-	20 Chinook per day per vessel landing limit; Mandatory phone or email trip reports; Landings restricted to Brookings.



TABLE I-1. Summary of actual ocean non-Indian commercial troll salmon fishing regulations for 2011. (Page 3 of 3)

Area and Season	Salmon Species	Actual Quota (Guideline*)		Special Restrictions <sup>a/</sup>
		Chinook	Coho	
OR/CA border to Humboldt South Jetty				
July 2-6, 9-13, 16-18 (13 days)	All except coho	1,400	-	Chinook 27 inch minimum size limit. Landing and possession limit of 15 Chinook per vessel per day in July and 30 Chinook per vessel per day in August. Any remaining portion of the July Chinook quota may be transferred inseason on an impact neutral basis to the August quota. All vessels fishing in this area must land and deliver all fish within this area, within 24 hours of any closure in this fishery, and prior to fishing outside of this area. Klamath Control Zone closed.
Aug. 1-2 (2 days)	All except coho	880 <sup>b/</sup>		
Humboldt South Jetty to Horse Mt. Closed	-	-	-	-
Horse Mt to Pt. Arena				
July 23-27, July 29-Aug. 29, Sept 1-30 (67 days)	All except coho	None	-	Chinook 27 inch minimum size limit. All fish caught in the area when the KMZ quota fisheries are open must be landed south of Horse Mt.; all fish must be landed in California and offloaded within 24 hours of the August 29 closure.
Pt. Arena to Pt. Sur				
May 1-31, June 25-July 5, July 9-13, 16-20, 23-27, July 29-Aug. 29, Sept 1-30 (119 days)	All except coho	None	-	Chinook 27 inch minimum size limit. All fish caught in the area when the KMZ quota fisheries are open must be landed south of Horse Mt.; all fish must be landed in California and offloaded within 24 hours of the August 29 closure.
Fall Area Target Zone Pt. Reyes to Pt. San Pedro Oct. 3-7, 10-14		None	-	Chinook minimum size limit 27 inches. All vessels fishing in this area must land and deliver all fish between Point Arena and Pigeon Point.
Pt. Sur to U.S./Mexico Border				
May 1-31, June 1-24, June 25-July 5, July 9-13, 16-20, 23-27, July 29-Aug. 29 (113 days)	All except coho	None	-	Chinook minimum size limit of 27 inches. All fish must be landed in California and offloaded within 24 hours of the August 29 closure; all fish caught in the area June 1-24 must be landed south of Pt. San Pedro; all fish caught in the area when the KMZ quota fisheries are open must be landed south of Horse Mt.

a/ Single-point, single-shank barbless hooks required in all open areas coastwide. Unless otherwise noted, minimum size limits (total length): Chinook 28 inches, coho 16 inches. Pacific halibut retention allowed May 1-28 (One Pacific halibut per each 3 Chinook, except one Pacific halibut may be landed without meeting the ratio requirement, and no more than 35 halibut may be landed per trip) and July 29-November 18 (one Pacific halibut per seven day period, Friday through Thursday) during open salmon troll fisheries; minimum size limit of 32 inches in total length (with head on).

b/ 1,000 preseason Chinook quota minus impact neutral transfer of 120 Chinook from an overage of 176 in the July quota fishery.

TABLE I-2. Summary of actual treaty Indian commercial ocean and Area 4B troll salmon seasons for 2011.

Tribe and Area	Salmon Species	Seasons <sup>a/</sup>			Minimum Size Limit (Inches)		Special Restrictions
		Dates	Days	Chinook	Coho		
<b>Quinault</b>							
Areas 2-3	All except coho	May 1-June 30	61	24	-		
	All	July 1- Aug. 19	50	24	16		
	All	Aug. 24- Sept. 7	15	24	16	23 Chinook per vessel per week landing limit	
<b>Hoh</b>							
Areas 2-3	All except coho	May 1-June 30	61	24	-		
	All	July 1- Aug. 19	50	24	16		
	All	Aug. 24- Sept. 7	15	24	16	23 Chinook per vessel per week landing limit	
<b>Quileute</b>							
Area 3	All except coho	May 1-June 30	61	24	-		
	All	July 1- Aug. 19	50	24	16		
	All	Aug. 24- Sept. 7	15	24	16	23 Chinook per vessel per week landing limit	
	All	Sept. 16-Oct. 15	30	24	16	Ceremonial and subsistence only	
<b>Makah</b>							
Areas 3N, 4, and 4A	All except coho	May 1-June 30	61	24	-		
	All	July 7-July 23	17	24	16		
	All	July 25-August 8	15	24	16	100 Chinook per vessel per week landing limit	
	All	Aug. 9-Aug. 16	8	24	16	75 Chinook per vessel per week landing limit	
	All	Aug. 17-Aug. 19	3	24	16	100 Chinook per vessel per week landing limit	
	All	Aug. 24-Sept. 6	14	24	16	23 Chinook per vessel per week landing limit	
Area 4B	All except coho	May 1-June 30	61	24	-		
	All	Jan. 1-April 15	105	22 <sup>b/</sup>	16		
	All	July 25-August 8	15	24	16	100 Chinook per vessel per week landing limit	
	All	Aug. 9-Aug. 16	8	24	16	75 Chinook per vessel per week landing limit	
	All	Aug. 17-Aug. 19	3	24	16	100 Chinook per vessel per week landing limit	
	All	Aug. 24-Sept. 6	14	24	16	23 Chinook per vessel per week landing limit	
	All	Nov. 1-Dec. 31	61	22	16		
<b>S'Klallam</b>							
Area 4B	All except coho	May 1-June 30	61	24	-		
	All <sup>c/</sup>	Jan. 1-Apr. 15; July 1-Dec. 31	290	22 <sup>b/</sup>	16		

a/ The overall quotas for these fisheries during the May 1-Sept. 15 ocean salmon management period were 41,000 Chinook and 42,000 coho. These quotas include troll catches by the S'Klallam and Makah tribes in Washington State Statistical Area 4B from May 1-Sept. 15. The overall Chinook quota was divided pre-season to provide 19,750 Chinook for the May 1-June 30 Chinook-directed season and 21,250 Chinook for the July 1-Sept. 15 all-salmon season. Single point, single shank barbless hooks were required in all ocean fisheries.

b/ Minimum size limit 24 inches after May 1.

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

TABLE I-3. Summary of actual ocean recreational salmon fishing regulations for 2011. (Page 1 of 3)

Area and Season	Salmon Species	Actual Quota		Daily Limit and Special Restrictions <sup>b/</sup>
		Chinook	Coho <sup>a/</sup>	
U.S./Canada Border to Cape Falcon, OR				
June 18-25 (8 days)	All except coho	4,800	-	Two fish per day. All Chinook must be marked with a healed adipose fin clip.
U.S./Canada Border to Cape Alava, WA (Neah Bay subarea)				
June 26-Sept. 18 (75 days)	All salmon	The Chinook quota for all subareas between the U.S./Canada border and Cape Falcon, OR combined was 30,100. <sup>c/</sup>	5,990 <sup>d/</sup>	Seven Days per week. Two salmon daily plus one additional pink: no more than one Chinook June 26-July 31; no more than two Chinook Aug. 1-28; no Chinook retention Aug. 29-Sept. 4; and no more than one Chinook Sept. 5-18. No chum retention beginning August 1.
Cape Alava to Queets River, WA (La Push subarea)	All salmon		2,550 <sup>d/</sup>	Seven Days per week. Two salmon daily plus one additional pink: no more than one Chinook June 26-July 31; no more than two Chinook Aug. 1-28; no Chinook retention Aug. 29-Sept. 4; and no more than one Chinook Sept. 5-18. No chum retention beginning August 1.
North of 47°50'00" N. Lat. and south of 48°00'00" N. Lat. Sept. 24-Oct. 9 (16 days)	All salmon		50	Seven Days per week. Two salmon daily plus one additional pink; no more than one Chinook.
Queets River to Leadbetter Pt., WA (Westport subarea)				
June 26--Sept. 18 (71 days)	All salmon		24,860	Sun.-Thurs. June 26-July 31 and Aug. 19-28; seven days per week otherwise. Two salmon daily: no more than one Chinook June 26-Aug. 6; no more than two Chinook Aug. 7-13; no more than one Chinook Aug. 14-28; no Chinook retention Aug. 29-Sept. 4; and no more than one Chinook Sept. 5-18. Grays Harbor Control Zone closed beginning Aug. 1.
Leadbetter Pt., WA to Cape Falcon, OR (Columbia River subarea)				
June 26-Sept. 30 (97 days)	All salmon		33,600	Seven Days per week. Two salmon daily: no more than one Chinook June 26-Aug. 6; no more than two Chinook Aug. 7-13; no more than one Chinook Aug. 14-28; no Chinook retention Aug. 29-Sept. 4; and no more than one Chinook Sept. 5-30.
Cape Falcon to Humbug Mt.				
Mar. 15-July 1, Aug. 14-31, Sept. 8-30 (150 days)	All except coho	None	-	Two salmon daily. Twin Rocks to Pyramid Rock inside 15 fm through July 31: Chinook must be marked. Fishing in the Stonewall Bank groundfish conservation area restricted to trolling only on days the all depth recreational halibut fishery is open. <sup>e/</sup>

TABLE I-3. Summary of actual ocean recreational salmon fishing regulations for 2011. (Page 2 of 3)

Area and Season	Salmon Species	Actual Quota		Daily Limit and Special Restrictions <sup>b/</sup>
		Chinook	Coho <sup>a/</sup>	
Cape Falcon OR to Humbug Mt. (con't.) July 2-Aug. 13 (43 days)	All salmon	None	15,000	Two salmon daily. All coho must be marked. Any remainder of the mark-selective coho quota will be transferred on an impact neutral basis to the September non-selective recreational coho quota. Fishing in the Stonewall Bank groundfish conservation area restricted to trolling only on days the all-depth recreational halibut fishery is open. <sup>e/</sup>
Sept. 1-7 (7 days)	All salmon	None	5,900 <sup>f/</sup>	Two salmon daily. Fishing in the Stonewall Bank groundfish conservation area restricted to trolling only on days the all-depth recreational halibut fishery is open. <sup>e/</sup>
Tillamook Ocean Terminal Area Twin Rocks to Pyramid Rock inside 3 nm Sept. 8-Oct. 31 (54 days)	Chinook only	None	-	Barbless hooks allowed. Two salmon daily, one of which can be an unmarked Chinook; no more than 10 unmarked Chinook per season.
Elk River Ocean Terminal Area Inside of a line from Cape Blanco to Black Rock to Best Rock to 42°40'30" N. Lat. 124°29'00" W. Long. to Humbug Mt. Nov. 1-30 (30 days)	Chinook only	None	-	Barbless hooks required. Two salmon daily, one of which can be an unmarked Chinook; no more than 10 unmarked Chinook per season.
Humbug Mt., OR to Horse Mt., CA May 14-Sept. 5 (115 days)	All except coho	None	-	Two salmon daily. 24 inch minimum size limit.
Chetco River Terminal Area Twin Rocks to OR/CA border inside 3 nm Oct. 1-12 (12 days)	Chinook only	None	-	Barbless hooks required. One Chinook daily, no more than five per season.
Horse Mt. to Pt. Arena Apr. 2-Oct. 30 (212 days)	All except coho	None	-	Two salmon daily. 24 inch minimum size limit.
Pt. Arena to Pigeon Pt. Apr. 2-Oct. 30 (212 days)	All except coho	None	-	Two salmon daily. 24 inch minimum size limit.
Pigeon Pt. to U.S./Mexico Border Apr. 2-Sept. 18 (170 days)	All except coho	None	-	Two salmon daily. 24 inch minimum size limit.

TABLE I-3. Summary of actual ocean recreational salmon fishing regulations for 2011. (Page 3 of 3)

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a/ All coho fisheries and quotas are mark-selective for fish with a healed adipose fin clip except the September 1-7 Cape Falcon to Humbug Mt. non-mark-selective recreational coho fishery.

b/ No more than one rod and single-point, single-shank barbless hooks required north of Pt. Conception, CA. No more than two single-point, single-shank barbless hooks when fishing for salmon or fishing from a boat with salmon on board between Pt. Conception and Cape Falcon, OR. If angling by any means other than trolling between Pt. Conception and Horse Mt., CA, no more than two single-point, single-shank, barbless circle hooks shall be used. The distance between the two 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). Unless otherwise noted: minimum size limits are 24 inches for Chinook and 16 inches for coho.

c/ 28,900 preseason quota plus impact neutral transfers of 1,200 unmarked Chinook from the 2,400 marked Chinook remainder of June mark-selective recreational Chinook fishery quota.

d/ Neah Bay 6,990 preseason quota minus 1,000 impact neutral transfer of 850 coho to the La Push preseason quota of 1,700 marked coho.

e/ The all-depth halibut season was open on May 12-14, 26-28, June 2-4, 9-11, 23-25, and August 5-6.

f/ 3,000 preseason quota plus impact neutral transfers of 2,900 unmarked coho from the 8,000 remainder of July-August mark-selective recreational coho fishery quota.

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 pounds may be shown as zero. (Page 1 of 4)

Year or Average	COMMERCIAL TROLL							RECREATIONAL					
	Effort (boat days fished)	Catch			Thousands of Pounds (Dressed Weight)			Effort (salmon angler trips)	Catch (numbers of fish)				Salmon Per Angler Trip
		Numbers of Fish							Chinook	Coho	Pink	Total	
<b>WASHINGTON<sup>a/</sup></b>													
1966-70	--	172,500	717,200	96,200	1,810	4,557	432	401,900	152,600	427,700	14,600	594,900	1.5
1971-75	56,200	275,400	870,300	31,600	2,926	4,801	147	482,900	210,400	567,400	6,100	783,900	1.6
1976-80	43,787	188,610	717,302	412,880	2,364	3,675	789	429,809	114,092	511,827	23,544	649,463	1.5
1981-85 <sup>b/</sup>	12,782	71,326	217,754	140,486	776	1,059	358	163,344	54,662	172,399	5,915	232,976	1.4
1986-90	6,078	71,534	137,942	20,552	719	610	49	119,412	26,075	165,058	1,919	193,051	1.6
1991-95	5,158	42,477	76,334	27,971	372	390	63	104,949	11,156	131,364	2,484	145,003	1.4
1996-2000	660	25,267	28,492	1,307	372	390	63	38,459	4,940	41,445	2,216	48,600	1.3
2001	1,280	50,072	66,707	885	515	377	9	126,402	22,974	168,062	3,918	194,954	1.5
2002	1,564	93,665	17,602	0	1,128	102	0	95,167	57,821	74,134	0	131,955	1.4
2003	1,914	91,374	19,899	251	1,261	117	2	124,867	34,183	139,096	13,407	186,686	1.5
2004	1,812	85,107	75,390	0	1,090	476	0	112,704	24,907	112,936	0	137,843	1.2
2005	2,035	77,041	25,439	250	969	160	1	90,595	36,369	51,770	3,260	91,398	1.0
2006	2,243	47,314	33,203	0	534	203	0	65,263	10,667	36,087	8	46,762	0.7
2007	1,864	37,211	45,924	370	389	252	2	72,683	8,944	83,788	4,670	97,402	1.3
2008	1,803	29,543	15,970	0	287	92	0	37,610	14,635	18,870	0	33,505	0.9
2009	2,820	24,570	80,718	543	192	535	3	101,560	12,351	138,493	7,627	158,471	1.6
2010 <sup>c/</sup>	3,295	77,445	13,527	0	803	95	0	80,955	36,874	36,278	0	73,152	0.9
2011 <sup>c/</sup>	2,641	58,587	16,666	288	671	95	4	73,596	29,203	39,582	10,828	79,613	1.1

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

Year or Average	COMMERCIAL TROLL							RECREATIONAL					Salmon Per Angler Trip
	Effort (boat days fished)	Catch						Effort (salmon angler trips)	Catch (numbers of fish)				
		Numbers of Fish			Thousands of Pounds (Dressed Weight)				Chinook	Coho	Pink	Total	
		Chinook	Coho	Pink	Chinook	Coho	Pink						
<b>OREGON<sup>d/</sup></b>													
1966-70	--	122,000	804,500	--	1,159	5,358	--	--	--	--	--	--	--
1971-75	47,400	208,500	979,000	--	2,128	6,015	--	--	--	--	--	--	--
1976-80	55,885	232,632	741,694	--	2,427	4,252	139	387,743	39,974	289,189	--	329,163	0.8
1981-85	25,496	145,503	301,499	2,100	1,432	1,537	117	233,544	33,085	165,393	2,700	201,178	0.9
1986-90	38,154	394,927	397,243	4,300	3,731	1,957	21	241,161	35,713	218,637	500	254,849	1.1
1991-95	9,016	100,945	119,367	380	940	325	2	99,547	9,234	103,001	60	112,296	1.1
1996-2000	7,187	129,523	6,133	380	1,414	14	2	45,609	11,231	12,459	60	23,750	0.5
2001	11,148	274,963	9,333	344	2,897	52	1	120,461	27,200	94,346	0	121,546	1.0
2002	11,701	304,189	1,515	0	3,488	11	0	107,641	47,480	36,537	0	84,017	0.8
2003	12,418	329,678	6,441	25	3,639	43	0	144,423	40,654	113,659	0	154,313	1.1
2004	13,204	252,709	8,839	0	2,850	70	0	145,702	56,433	71,835	0	128,268	0.9
2005	11,623	251,295	2,618	3	2,671	20	0	75,999	27,945	13,706	0	41,651	0.5
2006	4,528	34,965	1,414	0	486	13	0	62,319	11,588	15,577	0	27,165	0.4
2007	5,233	35,487	17,095	80	464	101	0	88,264	6,941	60,653	0	67,594	0.8
2008	809	5,954	435	0	66	4	0	30,418	1,578	12,085	2	13,665	0.4
2009	1,219	1,149	21,968	49	15	131	0	84,518	1,585	89,606	0	91,191	1.1
2010	4,291	39,433	1,038	0	506	7	0	53,319	4,967	18,295	0	23,262	0.4
2011 <sup>c/</sup>	3,715	31,934	464	49	400	3	0	48,756	5,157	18,839	0	23,996	0.5

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 pounds may be shown as zero. (Page 3 of 4)

Year or Average	COMMERCIAL TROLL							RECREATIONAL					Salmon Per Angler Trip
	Effort (boat days fished)	Catch						Effort (salmon angler trips)	Catch (numbers of fish)				
		Numbers of Fish			Thousands of Pounds (Dressed Weight)				Chinook	Coho	Pink	Total	
		Chinook	Coho	Pink	Chinook	Coho	Pink						
<b>CALIFORNIA<sup>e/</sup></b>													
1966-70	--	486,300	319,700	7,400	4,925	2,352	37	189,800	120,800	33,200	0	154,000	0.8
1971-75	45,200	562,700	361,800	4,700	5,743	2,211	22	247,400	169,600	48,300	0	217,900	0.9
1976-80	81,300	618,637	210,303	500	5,867	1,184	3	163,469	92,422	31,158	0	123,580	0.8
1981-85	58,950	462,652	58,726	2,400	4,454	345	14	146,950	109,097	19,866	0	128,963	0.9
1986-90	58,549	794,703	46,780	300	8,097	262	2	240,667	166,395	40,388	0	206,783	0.9
1991-95	25,780	341,928	42,475	0	3,429	94	0	215,996	170,296	22,399	0	192,695	0.9
1996-2000	18,154	368,001	-	0	4,037	0	0	194,586	157,742	452	0	158,194	0.8
2001	13,841	193,086	-	0	2,409	-	0	165,135	98,783	1,329	0	100,112	0.6
2002	17,403	391,655	-	0	5,008	-	0	210,052	182,044	828	0	182,872	0.9
2003	15,941	491,894	-	0	6,392	-	0	134,627	94,674	613	0	95,287	0.7
2004	21,733	502,110	-	0	6,230	-	0	218,743	221,114	1,424	0	222,538	1.0
2005	17,018	340,862	-	0	4,347	-	0	172,080	143,257	699	0	143,956	0.8
2006	8,259	69,728	-	0	1,043	-	0	126,506	96,292	1,626	0	97,918	0.8
2007	10,671	114,141	-	0	1,525	-	0	105,889	47,704	746	0	48,450	0.5
2008	-	-	-	-	-	-	-	391	6	-	0	6	0.0
2009	-	-	-	-	-	-	-	5,359	672	8	0	680	0.1
2010	1,975	15,088	-	-	228	-	-	48,667	14,809	175	0	14,984	0.3
2011 <sup>c/</sup>	6,875	69,783	-	-	988	-	-	91,098	49,020	316	0	49,336	0.5



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 pounds may be shown as zero. (Page 4 of 4)

Year or Average	COMMERCIAL TROLL							RECREATIONAL					
	Effort (boat days fished)	Catch						Effort (salmon angler trips)	Catch (numbers of fish)				Salmon Per Angler Trip
		Numbers of Fish			Thousands of Pounds (Dressed Weight)				Chinook	Coho	Pink	Total	
	Chinook	Coho	Pink	Chinook	Coho	Pink		Chinook	Coho	Pink	Total		
<b>COUNCIL AREA<sup>a/d/e/</sup></b>													
1966-70	--	780,800	1,841,400	103,600	7,893	12,267	468	591,700	273,400	460,900	14,600	748,900	1.3
1971-75	148,800	1,046,600	2,211,100	36,300	10,796	13,028	170	730,300	380,000	615,700	6,100	1,001,800	1.4
1976-80	180,972	1,039,879	1,669,299	413,380	10,658	9,111	930	981,020	246,488	832,173	23,544	1,102,206	1.1
1981-85 <sup>b/</sup>	97,228	679,481	577,980	144,986	6,662	2,941	489	543,838	196,845	357,658	8,615	563,117	1.0
1986-90	40,874	514,406	299,783	20,932	5,087	1,029	50	434,955	205,605	290,457	1,979	498,041	1.1
1991-95	26,001	522,792	34,625	1,687	5,823	404	65	278,654	173,912	54,356	2,276	230,544	0.8
1996-2000	26,269	518,121	76,040	1,229	5,821	429	10	411,998	148,957	263,737	3,918	416,612	1.0
2001	26,269	518,121	76,040	1,229	5,821	429	10	411,998	148,957	263,737	3,918	416,612	1.0
2002	30,668	789,509	19,117	0	9,624	113	0	412,860	287,345	111,499	0	398,844	1.0
2003	30,273	912,946	26,340	276	11,291	159	2	403,917	169,511	253,368	13,407	436,286	1.1
2004	36,749	839,926	84,229	0	10,170	546	0	477,149	302,454	186,195	0	488,649	1.0
2005	30,676	669,198	28,057	253	7,987	180	1	338,674	207,571	66,175	3,260	277,005	0.8
2006	15,030	152,007	34,617	0	2,064	216	0	254,088	118,547	53,290	8	171,845	0.7
2007	17,768	186,839	63,019	450	2,379	353	2	266,836	63,589	145,187	4,670	213,446	0.8
2008	2,612	35,497	16,405	0	353	96	0	68,419	16,219	30,955	2	47,176	0.7
2009	4,039	25,719	102,686	592	208	666	3	191,437	14,608	228,107	7,627	250,342	1.3
2010 <sup>c/</sup>	9,561	131,966	14,565	0	1,537	102	0	182,941	56,650	54,748	0	111,398	0.6
2011 <sup>c/</sup>	13,231	160,304	17,130	337	2,059	97	4	213,450	83,380	58,737	10,828	152,945	0.7

a/ For Washington, commercial effort and landings include: (1) treaty Indian fisheries (ocean and Area 4B only from May 1-Sept. 30) beginning in 1972; (2) prior to 1978, catch off British Columbia landed in Washington; (3) catch off Alaska landed in Washington; and (4) catch off Oregon and California beginning in 1976. Treaty Indian effort is in deliveries. Beginning in 1989, recreational angler trips and catch include state-managed, late-season Area 4B fishery when open (see Table IV-15).

b/ Recreational effort and catch includes Washington-based effort and catch from Oregon state waters (July 26-Aug. 1) and Strait of Juan de Fuca after WDFW and NMFS ocean closures in 1982.

c/ Preliminary.

d/ Oregon commercial troll landings include small numbers of salmon caught in Alaska (prior to 1990), Washington, and California. Oregon recreational effort data are total angler trips prior to 1979 and salmon trips beginning in 1979. Significantly reduced salmon per angler trip in 1994-1998 reflects regulations requiring nonretention of coho in the recreational fishery south of Cape Falcon.

e/ California commercial effort and landings include salmon caught off Oregon and landed in California, which were minor and infrequent until 2004, when 200 days fished and 25,300 Chinook were included.

TABLE I-5. Council area commercial and recreational ocean salmon fishing effort and landings by management area.

Year	COMMERCIAL TROLL				RECREATIONAL					Salmon Per Angler Trip
	Effort <sup>a/</sup> (days fished)	Catch (numbers of fish)			Effort (salmon angler trips)	Catch (numbers of fish)			Total	
		Chinook	Coho	Pink		Chinook	Coho	Pink		
----- U.S./CANADA BORDER TO CAPE FALCON -----										
<b>Treaty Indian (U.S./Canada Border to Leadbetter Point)<sup>b/</sup>:</b>										
2004	431	49,735	62,097	0	-	-	-	-	-	-
2005	597	41,975	23,997	387	-	-	-	-	-	-
2006	805	30,545	31,938	0	-	-	-	-	-	-
2007	590	22,943	40,038	584	-	-	-	-	-	-
2008	580	20,907	14,264	0	-	-	-	-	-	-
2009	829	12,254	60,663	800	-	-	-	-	-	-
2010 <sup>c/</sup>	859	32,346	11,423	0	-	-	-	-	-	-
2011 <sup>c/</sup>	577	31,685	13,613	1,071	-	-	-	-	-	-
<b>Non-Indian:</b>										
2004	1,728	38,490	22,132	24	131,297	27,090	135,434	32	162,556	1.2
2005	1,954	45,151	4,060	11	103,857	40,004	61,736	3,260	104,999	1.0
2006	2,419	27,258	2,679	0	73,505	11,176	41,498	8	52,682	0.7
2007	1,599	15,711	17,439	227	85,069	9,538	102,185	4,670	116,393	1.4
2008	1,884	14,070	2,141	0	41,264	15,452	21,061	0	36,513	0.9
2009	2,519	13,028	32,743	18	113,810	13,331	157,912	7,627	178,870	1.6
2010	3,070	56,219	3,142	0	91,209	38,686	42,386	0	81,072	0.9
2011 <sup>c/</sup>	2,352	29,738	3,517	184	80,979	30,826	45,624	10,828	87,278	1.1
----- CAPE FALCON TO HUMBUG MOUNTAIN -----										
2004	12,339	241,107	-	0	108,800	47,413	48,062	0	95,475	0.9
2005	10,858	238,944	-	1	50,159	18,603	3,630	0	22,233	0.4
2006	3,364	23,738	-	0	43,447	9,287	9,485	0	18,772	0.4
2007	4,444	29,947	5,542	73	64,766	3,297	40,687	0	43,984	0.7
2008	97	284	-	0	21,969	481	7,760	2	8,243	0.4
2009	691	437	9,280	0	66,337	410	68,990	0	69,400	1.0
2010	3,476	27,444	-	0	37,115	2,331	12,127	0	14,458	0.4
2011 <sup>c/</sup>	3,141	27,781	-	0	35,113	2,598	12,769	0	15,367	0.4
----- HUMBUG MOUNTAIN TO HORSE MOUNTAIN (KMZ) -----										
2004	1,042	40,399	-	0	43,906	29,681	1,835	0	31,516	0.7
2005	573	9,320	-	0	29,907	23,251	261	0	23,512	0.8
2006	183	738	-	0	27,081	18,195	922	0	19,117	0.7
2007	821	12,859	-	0	31,555	21,946	1,970	0	23,916	0.8
2008	51	236	-	-	4,795	280	2,134	0	2,414	0.5
2009	-	-	-	-	11,290	867	1,205	0	2,072	0.2
2010	181	869	-	-	10,179	1,544	110	0	1,654	0.2
2011 <sup>c/</sup>	490	3,712	-	-	21,139	10,750	126	0	10,876	0.5
----- HORSE MOUNTAIN TO U.S./MEXICO BORDER -----										
2004	21,209	470,195	-	0	193,146	198,270	864	0	199,134	1.0
2005	16,694	333,808	-	0	154,751	125,713	548	0	126,261	0.8
2006	8,259	69,728	-	0	110,055	79,889	1,385	0	81,274	0.7
2007	10,314	105,379	-	0	85,446	28,808	345	0	29,153	0.3
2008	-	-	-	-	391	6	-	0	6	0.0
2009	-	-	-	-	-	-	-	-	-	-
2010	1,975	15,088	-	-	44,438	14,089	125	-	14,214	0.3
2011 <sup>c/</sup>	6,671	67,388	-	-	76,219	39,206	218	-	39,424	0.5

a/ Treaty Indian troll effort in number of deliveries.

b/ May through September only.

c/ Preliminary.

TABLE I-6. Coho and Chinook harvest quotas and guidelines (\*) for 2011 Council managed fisheries compared with actual harvest by management area and fishery.

Fishery Governed by Quota or Guideline	Chinook			Coho		
	Quota or Guideline <sup>a/</sup>	Catch	Catch/Quota	Quota	Catch	Catch/Quota
<b>NORTH OF CAPE FALCON</b>						
TREATY INDIAN COMMERCIAL TROLL						
U.S./Canada Border to Cape Falcon (May-June)	19,750	9,928	0.50	-	-	-
U.S./Canada Border to Cape Falcon (July-Sept.)	21,250	21,757	1.02	42,000	13,613	0.32
Subtotal Treaty Indian Commercial Troll	41,000	31,685	0.77	42,000	13,613	0.32
NON-INDIAN COMMERCIAL TROLL						
U.S./Canada Border to Cape Falcon (May-June)	20,600 *	20,469	0.99	-	-	-
U.S./Canada Border to Cape Falcon (July-Sept.)	10,300 *	9,269	0.90	12,800 <sup>b/</sup>	3,517	0.27
Subtotal Non-Indian Commercial Troll	30,900 <sup>b/</sup>	29,738	0.96	12,800 <sup>b/</sup>	3,517	0.27
RECREATIONAL (selective coho and Chinook fisheries)						
U.S./Canada Border to Cape Falcon (June-Chinook)	2,400 *	2,393	1.00	-	-	-
U.S./Canada Border to Cape Alava (July-Sept.)	3,330 *	2,787	0.84	5,990 <sup>b/</sup>	3,054	0.51
Cape Alava to Queets River (July-Oct.)	1,460 *	1,514	1.04	2,600 <sup>b/</sup>	2,050	0.79
Queets River to Leadbetter Pt. (July-Sept.)	17,600 *	17,237	0.98	24,860	13,843	0.56
Leadbetter Pt. to Cape Falcon (July-Sept.)	7,710 *	6,895	0.89	33,600	26,676	0.79
Subtotal Recreational	32,500 <sup>b/</sup>	30,826	0.95	67,050 <sup>b/</sup>	45,624	0.68
TOTAL NORTH OF CAPE FALCON	104,400	92,249	0.88	121,850 <sup>b/</sup>	62,754	0.52
<b>SOUTH OF CAPE FALCON</b>						
COMMERCIAL TROLL (all except coho)						
Humbug Mt. to OR/CA Border (June)	1,500	254	0.17	-	-	-
Humbug Mt. to OR/CA Border (July)	1,200	27	0.02	-	-	-
Humbug Mt. to OR/CA Border (August)	1,000	331	0.33	-	-	-
OR/CA Border to Humboldt South Jetty (July)	1,400	1,585	1.13	-	-	-
OR/CA Border to Humboldt South Jetty (Aug.)	880 <sup>b/</sup>	810	0.92	-	-	-
Subtotal Troll	5,980 <sup>b/</sup>	3,007	0.50	-	-	-
RECREATIONAL						
Cape Falcon to Humbug Mt. (July-Aug.)	-	-	-	15,000	6,123	0.41
Cape Falcon to Humbug Mt. (Sept.)	-	-	-	5,900 <sup>b/</sup>	6,623	1.12
TOTAL SOUTH OF CAPE FALCON	5,980	3,007	0.50	20,900 <sup>b/</sup>	12,746	0.61
GRAND TOTAL COUNCIL AREA	110,380	95,256	0.86	142,750 <sup>b/</sup>	75,500	0.53

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

b/ Quotas do not match preseason quota/guidelines because inseason actions (i.e., trades and transferring quotas on an impact neutral basis) resulted in increases or decreases to the overall quota. See Tables I-1, I-2, I-3, or Appendix Table C-9 for specifics of inseason adjustments.

TABLE I-7. Estimated incidental mortality of Chinook and coho in 2011 ocean salmon fisheries. Observed incidental mortality was calculated by scaling preseason projections of incidental mortality by the ratio of observed to projected catch.

Area and Fishery	2011	2011	2011	Observed in 2011	
	Catch Projection	Bycatch Mortality <sup>a/</sup> Projection	Bycatch Projection <sup>b/</sup>	Catch	Bycatch Mortality
<b>CHINOOK (thousands of fish)</b>					
<u>OCEAN FISHERIES:</u>					
NORTH OF CAPE FALCON					
Treaty Indian Ocean Troll	41.0	5.2	14.0	34.6	4.4
Non-Indian Commercial Troll	30.9	7.2	23.3	29.7	6.9
Recreational	33.7	4.0	18.2	30.8	3.7
CAPE FALCON TO HUMBUG MT. <sup>c/</sup>					
Commercial Troll	100.9	13.4	33.4	27.8	3.7
Recreational	9.6	0.9	1.8	2.6	0.2
HUMBUG MT. TO HORSE MT. <sup>c/</sup>					
Commercial Troll	7.2	1.0	2.4	3.7	1.8 <sup>d/</sup>
Recreational	30.6	3.0	9.5	10.8	3.7 <sup>d/</sup>
SOUTH OF HORSE MT.					
Commercial	148.5	19.8	49.2	67.4	20.9 <sup>d/</sup>
Recreational	102.8	10.0	27.9	39.2	10.2 <sup>d/</sup>
TOTAL OCEAN FISHERIES					
Commercial Troll	328.5	46.6	122.3	163.2	37.8
Recreational	176.7	17.9	57.4	83.4	17.8
<u>INSIDE FISHERIES:</u>					
Area 4B	-	-	-	-	-
Buoy 10	10.7	NA	NA	10.9	1.1 <sup>d/</sup>
<b>COHO (thousands of fish)</b>					
<u>OCEAN FISHERIES:</u>					
NORTH OF CAPE FALCON					
Treaty Indian Ocean Troll	42.0	3.0	5.6	13.6	1.0
Non-Indian Commercial Troll	12.8	8.8	30.1	3.5	2.4
Recreational	67.2	15.9	73.7	45.6	13.6
SOUTH OF CAPE FALCON <sup>c/</sup>					
Commercial Troll	0.0	9.9	38.0	0.0	9.9
Recreational	18.0	14.2	87.9	13.1	10.3
TOTAL OCEAN FISHERIES					
Commercial Troll	54.8	21.7	73.7	17.1	13.3
Recreational	85.2	30.1	161.6	58.7	24.0
<u>INSIDE FISHERIES:</u>					
Area 4B	-	-	-	-	-
Buoy 10	7.0	1.3	5.2	7.6	2.3 <sup>e/</sup>

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

Commercial: 26%.

Recreational, north of Pt. Arena: 14%.

Recreational, south of Pt. Arena: 19% (based on the proportion of fish caught using mooching versus trolling gear, and the HRM rates of 42.2% and 14% for these gear types, respectively).

b/ Bycatch calculated as dropoff mortality plus fish released.

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

d/ Based on reported released Chinook.

e/ Based on reported released coho.

TABLE I-8. Summary of 2011 recreational fisheries selective for marked hatchery Chinook (preliminary data).

Area	Anticipated Mark Rate	Observed Mark Rate	Preseason Quota	Anticipated Nonretention Mortality <sup>a/</sup>	Landed Chinook Catch			Legal sized Chinook Released <sup>b/</sup>	Sub-legal Sized Chinook Released <sup>b/</sup>	Estimated Nonretention Mortality <sup>a/</sup>	Effort <sup>c/</sup>
					Total	Marked	Unmarked				
<b>Recreational</b>											
Ocean Fisheries											
Neah Bay/La Push	85%	57%	-	158	217	216	1	135	160	59	1,629
Westport	71%	70%	-	1,407	1,852	1,821	31	755	1,459	440	7,822
Columbia River	87%	70%	-	159	324	322	2	102	1,932	306	900
North of Cape Falcon Total	-	-	4,800	1,724	2,393	2,359	34	992	3,551	805	10,351
Inside Fisheries											
Strait of Juan de Fuca <sup>d/</sup>	58%	25%	4,779 <sup>e/</sup>	2,274	4,623	4,534	89	13,613	5,018	3,520	17,283
<b>Grand Total</b>	-	-	9,579	3,998	7,016	6,893	123	14,605	8,569	4,325	27,634

a/ Hook-and-release plus drop-off mortality of marked plus unmarked fish; computation of estimated nonretention mortality differs from 2010 and prior years.

b/ Calculated from dockside sampling.

c/ Recreational effort measured in angler trips.

d/ Includes Area 5 (July 1 - August 15, 2011) selective fishery only. Data are preliminary.

e/ Expected catch; not a quota.

TABLE I-9. Summary of 2011 recreational and commercial fisheries selective for marked hatchery coho (preliminary data).

Area	Anticipated Mark Rate	Observed Mark Rate	Preseason Quota	Anticipated Nonretention Mortality <sup>a/</sup>	Landed Coho Catch			Unmarked Coho Released <sup>b/</sup>	Estimated Nonretention Mortality <sup>a/</sup>	Effort <sup>c/</sup>
					Total	Marked	Unmarked			
<b>Recreational</b>										
Ocean Fisheries										
Neah Bay	42%	37%	6,990	2,395	3,054	2,969	85	5,537	1,205	10,552
La Push	46%	32%	1,750	494	2,050	2,026	24	4,685	993	4,110
Westport	54%	40%	24,860	6,643	13,843	13,676	167	22,565	4,980	29,676
Columbia River	63%	54%	33,600	6,406	26,669	26,589	80	25,604	6,198	31,561
North of Cape Falcon Total	-	-	67,200	15,938	45,616	45,260	356	58,392	13,375	75,899
Cape Falcon to Humbug Mt.	41%	35%	15,000	7,244	6,123	6,120	3	11,430	2,478	20,132
Ocean Fisheries Total	-	-	82,200	23,182	51,739	51,380	359	69,822	15,853	96,031
Inside Fisheries										
4B Add-on	-	-	-	-	-	-	-	-	-	-
Strait of Juan de Fuca <sup>d/</sup>	38%	32%	24,770 <sup>e/</sup>	7,404	2,699	2,625	74	5,087	745	24,807
Buoy 10	68%	69%	7,000 <sup>e/</sup>	1,325	7,614	7,449	165	9,195	1,498	49,409
Inside Fisheries Total	-	-	31,770	8,729	10,313	10,074	239	14,282	2,243	74,216
<b>Commercial</b>										
Neah Bay	41%	-	-	433	140	139	1	220	75	29
La Push	45%	-	-	1,694	1,167	1,163	4	1,577	547	234
Westport	49%	-	-	2,891	1,708	1,672	36	1,945	688	447
Columbia River	56%	-	-	3,817	502	502	0	448	164	91
Commercial Total	-	-	12,800	8,835	3,517	3,476	41	4,190	1,475	801
<b>Grand Total</b>	-	-	126,770	40,746	65,569	64,930	639	88,294	19,571	-

a/ Hook-and-release plus drop-off mortality of marked plus unmarked fish; computation of estimated nonretention mortality differs from 2010 and prior years.

b/ Calculated from observed mark rates where available; where unavailable, anticipated mark rates are used. Cape Falcon-OR/CA border and Buoy 10 recreational fishery observed mark rates based on dockside sampling.

c/ Recreational effort measured in angler trips, commercial effort measured in days fished; includes effort from coho mark-selective fisheries only.

d/ Includes Area 5 (July 1 - September 15, 2011) selective fishery only. Data are preliminary.

e/ Expected catch; not a quota.

TABLE I-10. Chinook catch by Southeast Alaska marine fisheries in thousands of fish.

Year	Total Catches			Treaty Chinook			Additional Catch	
	Troll	Net	Sport	Troll	Net	Sport	Terminal Exclusion <sup>a/</sup>	Hatchery Add-On <sup>b/</sup>
1985	215.8	33.9	24.9	211.9	33.3	23.0	0.0	6.2
1986	237.7	22.1	22.6	231.6	20.6	19.0	0.0	11.1
1987	242.6	15.5	24.3	231.1	14.0	20.3	0.0	17.1
1988	231.4	21.8	26.2	217.1	17.4	22.3	0.0	22.5
1989	235.7	24.2	31.1	224.2	18.5	26.8	0.0	21.5
1990	287.9	27.7	51.2	263.5	16.1	41.4	0.0	45.9
1991	264.1	34.9	60.5	231.8	21.0	45.1	0.0	61.5
1992	183.8	32.1	42.9	162.6	24.0	35.3	0.0	36.8
1993	226.9	28.0	49.2	212.3	16.2	42.7	0.0	32.9
1994	186.3	35.7	42.4	177.1	22.6	35.5	0.0	29.2
1995	138.1	48.0	49.7	115.1	26.4	35.5	0.0	58.8
1996	141.5	37.3	57.5	107.6	8.4	39.0	8.7	72.6
1997	246.4	25.1	71.5	221.9	11.4	53.3	9.8	46.5
1998	192.1	23.5	55.0	183.5	13.4	46.3	2.4	25.0
1999	146.2	32.7	72.1	132.7	12.9	53.2	4.5	47.7
2000	158.7	41.4	63.2	134.0	11.1	41.4	2.5	74.3
2001	153.3	40.2	72.3	128.7	13.5	44.7	1.5	77.3
2002	325.3	31.7	69.5	298.1	13.5	45.5	1.2	68.2
2003	330.7	39.4	69.4	307.4	23.5	49.2	2.1	57.2
2004	354.7	64.0	80.6	321.9	39.7	55.4	6.3	76.0
2005	338.4	71.6	86.6	305.0	19.4	63.4	43.6	65.3
2006	282.3	70.4	85.8	264.0	24.7	69.8	30.8	49.1
2007	268.1	55.9	82.8	241.0	25.6	61.9	8.8	69.6
2008	151.9	46.1	49.3	126.5	13.2	32.7	6.9	68.2
2009	175.6	54.1	69.6	159.0	22.4	48.1	4.7	65.2
2010	195.5	33.5	58.5	177.8	9.5	44.3	0.1	55.8
2011 <sup>c/</sup>	242.1	55.7	60.5	220.7	19.7	49.9	0.8	74.7

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

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

c/ Preliminary.

TABLE I-11. Chinook and coho catches by Canadian marine fisheries in thousands of fish.

Year or Avg.	Northern B.C.		Central B.C.		North-Central B.C. Sport	WCVI			Strait of Georgia				Juan de Fuca			
	Troll	Net	Troll	Net		NW Troll	SW Troll	Net	Outside Sport	Troll	Net <sup>a/</sup>	Sport		Troll	Net	Sport
												North	South			
<b>CHINOOK</b>																
1986-1990	168.9	28.1	41.6	14.1	17.8	110.3	215.9	17.8	28.6	39.1	35.8	68.1	34.7	0.1	11.5	30.6
1991-1995	143.9	30.1	25.2	14.0	30.9	111.8	98.5	20.4	45.7	25.3	22.2	62.5	17.7	0.0	6.2	16.6
1996-2000	51.5	17.8	3.3	4.7	35.6	16.6	19.8	0.6	18.9	0.8	11.2	28.9	8.8	0.2	0.2	14.3
2001	13.1	25.4	0.0	6.5	49.1	23.9	53.6	0.0	40.2	0.5	4.5	21.5	9.6	0.0	0.0	23.5
2002	103.0	14.9	0.5	4.7	62.4	43.0	90.8	0.5	32.1	0.6	9.6	43.7	9.1	0.0	0.0	24.1
2003	137.4	14.7	0.0	2.8	70.6	58.0	93.8	9.1	24.0	0.7	12.6	14.0	6.4	0.0	0.3	26.6
2004	167.5	16.2	0.0	6.3	92.7	85.4	88.7	12.5	42.5	0.6	12.5	10.2	3.8	0.0	0.0	40.9
2005	174.8	8.2	0.0	6.3	85.8	110.0	38.8	23.6	53.9	0.0	5.6	10.4	1.9	0.0	0.2	30.5
2006	151.5	13.7	0.0	5.2	81.9	53.9	55.3	20.3	37.9	0.0	3.6	9.8	2.4	0.0	0.2	26.4
2007	83.2	11.4	0.0	5.5	75.1	28.4	58.8	26.9	46.2	0.0	2.7	12.4	2.1	0.0	0.1	26.5
2008	52.1	7.4	0.0	1.1	58.4	15.3	74.4	8.3	50.6	0.0	4.2	6.5	2.5	0.0	0.2	22.3
2009	75.5	4.3	0.0	3.1	46.4	17.2	31.8	9.8	68.9	0.0	4.8	12.4	5.5	0.0	0.4	25.6
2010	90.2	3.1	-	1.5	58.0	34.7	44.5	1.7	54.9	0.0	9.6	11.5	4.0	-	0.2	15.6
2011 <sup>b/</sup>	74.7	4.6	-	4.8	70.1	70.0	54.0	21.8	78.4	0.0	0.5	15.5	6.1	-	0.0	13.6
<b>COHO</b>																
1986-1990	716.3	139.9	275.2	132.2	28.0	600.0	1,277.9	14.2	19.1	178.4	109.2	512.9	106.0	0.7	194.4	66.2
1991-1995	574.2	147.7	98.5	55.0	42.2	501.3	921.2	4.9	31.7	95.1	56.2	221.0	67.6	0.0	92.1	105.9
1996-2000	116.7	30.5	4.1	8.5	24.1	47.2	110.5	0.2	11.1	0.0	2.3	6.2	2.9	0.1	0.9	38.9
2001	1.1	9.9	0.0	2.7	NA	0.0	0.0	0.0	6.1	0.0	0.0	9.3	1.7	0.0	0.0	0.2
2002	118.9	1.2	8.5	0.0	49.3	0.0	0.0	1.0	4.9	0.0	0.0	3.1	1.5	0.0	0.0	3.8
2003	195.0	6.9	18.9	3.5	NA	0.0	0.1	5.4	13.4	0.0	0.0	1.1	7.5	0.0	0.0	11.8
2004	225.5	24.2	31.7	47.3	27.0	0.1	0.0	2.9	20.3	0.0	0.2	1.4	1.6	0.0	0.0	11.1
2005	260.3	48.5	49.5	52.5	NA	0.6	1.4	4.0	12.4	0.0	0.0	0.7	0.7	0.0	0.0	8.8
2006	125.7	1.1	12.7	5.0	62.0	1.2	1.2	2.2	33.7	0.0	0.0	2.7	0.9	0.0	0.0	2.9
2007	153.1	61.7	28.9	18.9	53.2	1.4	0.0	4.8	25.3	0.0	0.0	6.5	2.0	0.0	0.0	6.7
2008	62.8	0.0	13.9	0.0	NA	0.0	0.3	5.0	27.7	0.0	0.0	1.2	0.3	0.0	0.0	1.2
2009	61.0	0.1	0.0	15.9	48.0	0.0	0.0	0.9	50.0	0.0	0.0	2.6	0.6	0.0	0.0	9.5
2010	138.3	0.1	-	0.4	78.7 <sup>c/</sup>	0.1	0.4	0.8	15.1	0.2	0.6	1.2	1.1	-	0.0	0.7
2011 <sup>b/</sup>	280.7	11.2	15.9	0.0	97.5 <sup>d/</sup>	0.0	0.0	1.0	54.0	0.0	0.3	0.6	0.6	0.0	15.6	10.2

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

b/ Preliminary.

c/ Does not include catch from Areas 5, 6, and 10.

d/ Does not include catch from Area 6.



TABLE I-12. West Coast Vancouver Island aggregate abundance based management troll Chinook salmon catch by month.

Season	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. <sup>b/</sup>	Sept.	Total
2005-2006	12,198	2,156	1,689	1,468	5,154	7,883	20,561	7,078	20,807	-	886	24,098	103,978
2006-2007	16,000	1,200	800	5,500	2,600	2,300	5,200	23,500	25,000	-	-	6,000	88,100
2007-2008	3,137	-	-	1,634	1,911	-	1,717	11,105	15,944	-	9,099	45,157	89,704
2008-2009	1,882	1,209	1,107	3,394	1,540	586	3,616	18,062	12,165	-	9,630	-	53,191
2009-2010 <sup>a/</sup>	-	-	-	-	-	-	8,553	31,296	23,652	-	11,642	3,980	79,123
2010-2011 <sup>a/</sup>	-	-	-	-	1,849	875	8,670	41,239	34,394	15,619	21,284	-	123,930

a/ Preliminary.

b/ Fishery restricted to plugs only.

TABLE I-13. Summary of 2011 coho catch and release in British Columbia commercial fisheries.

Gear/Area	Coho Kept	Coho Released
Northern Troll	280,715	13,107
Northern Net	11,163	4,887
North Central Troll	15,932	8
South Central Troll	0	787
Central Net	15,628	10,321
Johnstone Strait Net	505	17,526
Strait of Georgia Net	292	1,712
Strait of Georgia Troll	0	5
Fraser Gill Net	3	365
Northwest Vancouver Island Troll	0	6,520
Southwest Vancouver Island Troll	0	5,719
Northwest Vancouver Island Net	689	6
Southwest Vancouver Island Net	296	669

TABLE I-14. Summary of 2011 coho catch and release in British Columbia recreational fisheries.

Area	Kept	Released
Juan de Fuca Strait	10,182	12,666
Strait of Georgia	1,233	13,484
Johnstone Strait	3,192	6,468
WCVI <sup>a/</sup>	53,974	96,668
Total	68,581	129,286

a/ Includes impacts of mark-selective fisheries and inside fisheries.

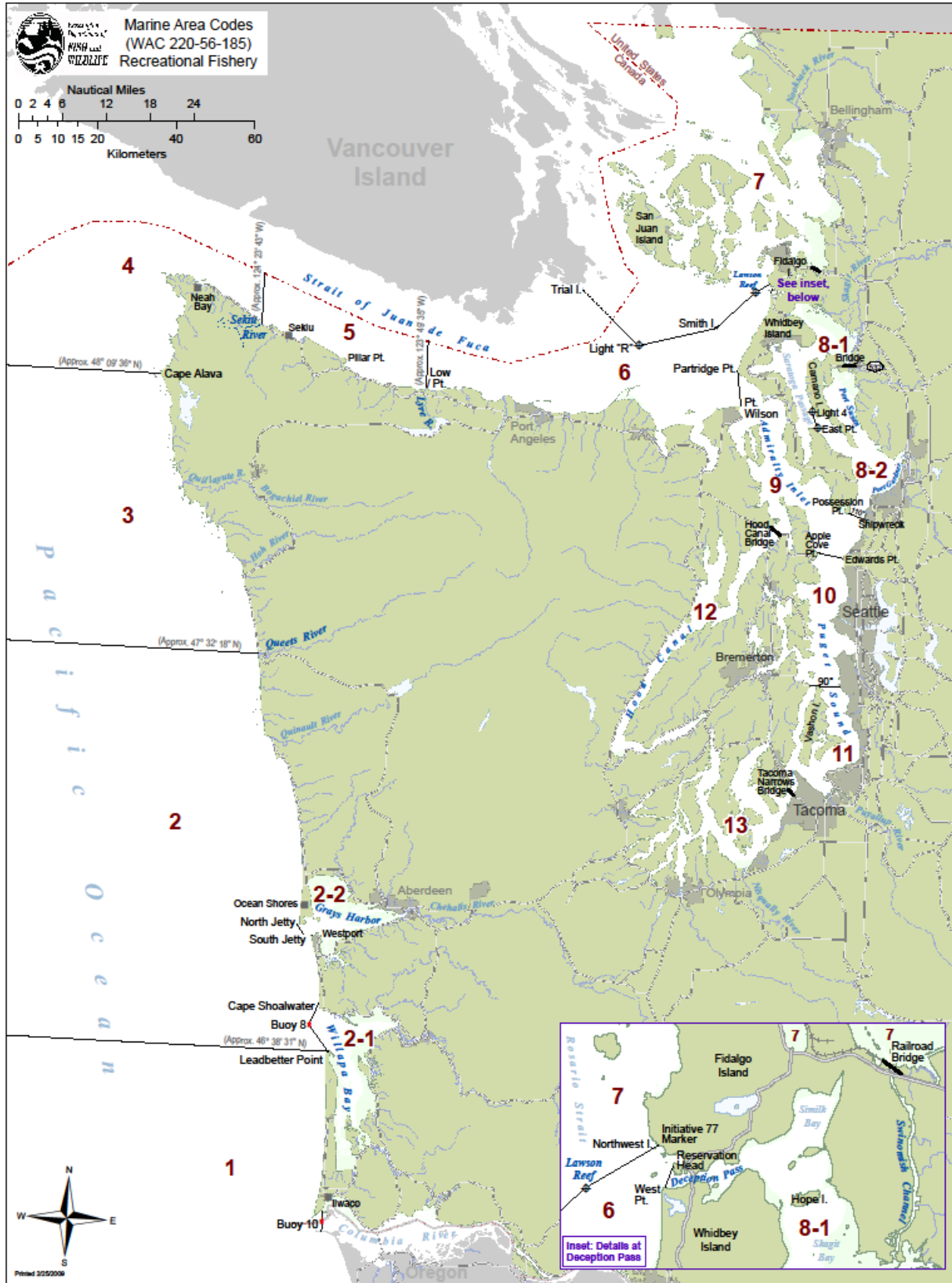


Figure I-1. Washington marine area code numbers and locations.

## CHAPTER II

### CHINOOK SALMON MANAGEMENT

#### CENTRAL VALLEY CHINOOK STOCKS

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

#### *Management Objectives*

The following conservation objectives guided Council management of Central Valley Chinook salmon stocks in the 2011 fisheries: (1) for SRFC, an escapement goal of 122,000 to 180,000 hatchery and natural area adults, including additional NMFS guidance to target the upper end of the escapement goal range; and (2) for Sacramento River winter and Central Valley spring Chinook, the ESA consultation standard concerning the duration and timing of the commercial and recreational ocean salmon fisheries south of Point Arena, as well as additional NMFS guidance on recreational size limits intended to reduce mortality of Sacramento River winter Chinook. Harvest impacts on Central Valley Chinook were a primary management concern in fisheries south of Point Arena, California.

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

A relatively high SRFC abundance index forecast in 2011 did not constrain fisheries as had lower forecasts in 2008, 2009, and 2010. Rather, fishing opportunity south of Falcon was constrained by the California Coastal Chinook consultation standard that limited the KRFC age-4 ocean harvest rate to a maximum of 16 percent and the exploitation rate limit on ESA listed tule Chinook. A 24 inch total length minimum size limit for Chinook in recreational fisheries south of Point Arena was enacted to increase protection of endangered Sacramento River winter Chinook. The 24 inch minimum size limit was extended north to Horse Mt. to provide consistency with recreational size limits coastwide. Season and size limit details are presented in Tables I-1 and I-3.

#### *Commercial*

Harvest impacts on Sacramento Winter Chinook were a primary management concern in fisheries south of Point Arena, California. To meet the terms of the Sacramento River winter and Central Valley spring Chinook ESA consultation standard, the commercial season south of Point Arena opened on May 1 and closed on September 30 (with closures within this period). In addition, an October 3-14 fishery was open Monday through Friday. All commercial fisheries in California had a 27 inch minimum size limit. No specific restrictions were required for ocean salmon fisheries to meet the conservation objective and NMFS guidance for SRFC. Under the 2011 regulations, the projected natural and hatchery adult escapement of SRFC was 377,000, which exceeded the upper end of the conservation objective and NMFS guidance to target an escapement level around the upper end of the FMP conservation objective.

#### *Recreational*

Recreational seasons and size limits were structured to meet the Sacramento River winter and Central Valley spring Chinook ESA consultation standard. In addition to the consultation standard, the minimum size limit for recreational fisheries south of Point Arena was 24 inches total length for the entire season to comply with 2011 NMFS guidance pertaining to Sacramento River winter Chinook (Chapter I, Regulatory Objectives by Management Area, Horse Mountain to U.S./Mexico Border). The 24 inch minimum size limit extended coastwide for recreational Chinook fisheries.

Recreational fisheries opened on April 2 south of Horse Mountain, May 14 in the KMZ, and March 15 between Cape Falcon and Humbug Mt. Recreational fisheries in the KMZ continued through September 5 (Labor Day), while fisheries north and south of the KMZ extended later into the fall.

### *Inside Harvest*

Recreational angling for salmon in Central Valley rivers was expected to result in a catch of 61,400 adult SRFC. An estimate of SRFC harvest in 2011 Central Valley river fisheries was not available at the time of publication.

Since 1990, regulations have closed the mainstem Sacramento River to retention of salmon from January 15 to July 15, a period when winter Chinook adults are thought to be most abundant. Beginning in 2004, the retention closure was enacted earlier, on January 1 from the Carquinez Bridge to Red Bluff, in response to recovery of winter Chinook coded-wire-tags (CWTs) in the sport fishery. Owing to low Chinook escapement to the Stanislaus, Tuolumne, and Merced rivers during the last decade, the majority of the San Joaquin River has been closed to recreational salmon fishing.

### *Escapement and Management Performance*

Chinook catch in commercial and recreational fisheries south of Cape Falcon were generally below preseason expectations. Overall, commercial Chinook fisheries caught about 31 percent of preseason expectations and recreational Chinook fisheries caught about 37 percent of preseason expectations (Table I-7).

### **Sacramento River Fall Chinook**

Under the 2011 regulations, the projected spawning escapement in the Sacramento River Basin was 377,000 hatchery and natural area fall Chinook adults. A total of 121,742 hatchery and natural area SRFC adults were estimated to have returned to the Sacramento River basin for spawning in 2011 (Table II-1, Figure II-1), which was slightly below the MSY spawner escapement objective of 122,000.

Fall Chinook returns to Sacramento River hatcheries in 2011 totaled 42,871 adults, and escapement to natural areas was 78,871 adults. Available data indicate hatchery-produced fish constitute a large portion of the Sacramento River naturally spawning fall Chinook population. Table II-1 and Figure II-1 display historical natural and hatchery fall spawner escapement estimates. For a more detailed breakdown of the historical escapement see Appendix B, Tables B-1 and B-2.

Adult spawning escapements for hatchery and natural SRFC in 2007, 2008, and 2009 were lower than the FMP conservation objective in place at the time, and therefore an Overfishing Concern was triggered, which resulted in a NMFS determination that the stock was overfished. The geometric mean of SRFC escapement in 2009, 2010, and 2011 was 85,195, which was below the MSST of 91,500 identified in FMP Amendment 16; therefore, SRFC should be considered overfished. Estimates of the SRFC exploitation rate were not available for 2011; however, fisheries in 2010 resulted in an exploitation rate of 0.18, well below the MFMT (0.78). Therefore, overfishing of SRFC did not occur in 2010, and the stock should not be considered subject to overfishing (Table II-6).

### **Sacramento River Winter and Spring Chinook**

Spawner escapement of endangered winter Chinook salmon in 2011 was estimated to be 637 adults and 187 jacks, the lowest escapement in over 10 years. This estimate is derived from a carcass survey conducted on the upper Sacramento River and includes winter Chinook captured in the Keswick trap, which provides broodstock to Livingston Stone National Fish Hatchery. Spawner escapement estimates derived from Red Bluff Diversion Dam counts began in 1967, and from 1987 to 2008 the estimates were derived by expanding counts made during the period of dam operation (which overlaps with

approximately 15 percent of the winter run migration period). Escapement estimates from the carcass survey are considered to better represent winter run spawner escapement owing to the small proportion of the winter run migration sampled during the Red Bluff Diversion Dam operation period.

Escapement of spring Chinook to the Sacramento River system in 2011 totaled 7,400 fish (jacks and adults), most of which (an estimated 5,431 fish) returned to upper Sacramento River tributaries; the remaining 1,969 fish returned to the Feather River Hatchery. No estimate of spring Chinook escapement to the upper mainstem Sacramento River could be made in 2011 due to changes in Red Bluff Diversion Dam operations. The method used to estimate the spring Chinook return to the Feather River Hatchery was modified in 2005. In previous years, the estimate was equal to the number of Chinook that entered the hatchery during the early period of Chinook spawning. From 2005 through 2011, prior to the spring run spawning period, fish that entered the hatchery were tagged and returned to the river; the number of tagged fish that re-entered the hatchery during the spring run spawning period was used as the estimate of spring Chinook escapement in the Feather River. The fish that were tagged at the hatchery and returned to the river but did not re-enter the hatchery during the spawning period were counted in the natural fall run survey and reported as Feather River fall Chinook. The natural area spawner surveys in the Feather River are not currently capable of separating the spring and fall runs.

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

### **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 2011 totaled 6,975 jacks and adults in natural areas and 16,342 jacks and adults to hatcheries (Appendix B, Tables B-1 and B-2 provide historical spawner escapements). Returns of jacks to hatchery areas comprised an unusually large proportion of total San Joaquin River returns in 2011. 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 percent of the total Central Valley escapement for fall run Chinook.

## **NORTHERN CALIFORNIA COAST CHINOOK STOCKS**

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

### *Management Objectives*

The NMFS ESA consultation standard for California Coastal Chinook primarily influenced management of 2011 Chinook fisheries south of Cape Falcon, Oregon. KRFC provided the basis for the NMFS ESA consultation standard for California Coastal Chinook, which limits the ocean harvest rate on age-4 KRFC to no more than 16.0 percent. During the preseason process, KRFC were managed in accordance with the conservation objective in effect that specified a maximum adult natural spawner reduction rate of 67 percent, with a minimum spawner escapement floor of 35,000 adults in natural areas. The available harvest of KRFC was shared equally between non-tribal and Klamath River tribal fisheries (tribes with Federally-recognized fishing rights).

### **Regulations to Achieve Objectives**

To achieve the management objectives for California coastal Chinook and KRFC, the adopted regulations were designed to result in: (1) a Klamath River run of 101,500 fall Chinook adults, resulting in a spawner escapement of 35,000 adults to natural areas, taking into account projected river fishery impacts of 45,900

adults and returns to basin hatcheries; (2) 50 percent (34,800) of the allowable adult harvest for tribal subsistence and commercial fisheries; (3) 22.8 percent (7,900) of the non-tribal harvest to the Klamath River recreational fishery; and (4) 12.8 percent (approximately 3,400 fish) of the ocean harvest to the KMZ recreational fishery. The age-4 ocean harvest rate resulting from the above configuration was forecast to be 16.0 percent. Season and size limit details are presented in Tables I-1 and I-3.

### *Commercial*

Commercial fisheries south of Cape Falcon were constrained during the spring and summer months primarily to meet the California Coastal Chinook ESA consultation standard of a maximum KRFC age-4 ocean harvest rate of 16.0 percent and the ESA consultation standard for LCN natural coho of a maximum total marine and mainstem Columbia River fishery exploitation rate of 15.0 percent. Several quota fisheries in the Oregon and California KMZ were open in 2011, and the Oregon KMZ was open without a quota for the month of May. Commercial fishing opportunity in areas north and south of the KMZ were more extensive relative to the past three years. Oregon held four fall state-waters-only terminal area fisheries in 2011 (Table I-1).

### *Recreational*

Recreational fisheries were permitted in the KMZ from May 14 through the Labor Day weekend. Fisheries both north and south of the KMZ began earlier in the spring; March 15 for the area between Cape Falcon and Humbug Mountain and April 2 for the area south of Horse Mountain. These fisheries also extended later into September and October than recreational fisheries in the KMZ. Fall state-waters-only terminal recreational fisheries were allowed for three areas in Oregon (Table I-3).

### *Inside Harvest*

Yurok and Hoopa tribes shared a federally reserved right of 50 percent (34,800) of the available harvest surplus of adult Klamath fall Chinook. The State of California managed the river recreational fishery under a 7,900 adult fall Chinook quota. Tribal adult harvest was 26,371, which was 76 percent of the quota (Appendix B, Table B-5). The estimated recreational fishery harvest was 4,164 adult fish, which was 53 percent of the quota. Harvest estimates from streams outside the Klamath River Basin were not available.

### *Escapement and Management Performance*

The commercial quota fisheries in the Oregon portion of the KMZ attained only 17, 2, and 33 percent of their June, July, and August quotas, respectively. The July California KMZ commercial fishery exceeded the quota by 13 percent, and the August quota was reduced to account for the overage on an impact neutral basis. The adjusted August quota was nearly met; 92 percent of the quota was attained (Table I-6).

### **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. cursory, nonsystematic surveys are conducted on one tributary of the Mad River and two tributaries of the Eel River. Video counts of Chinook passage at Mirabel Dam on the Russian River have been conducted since 2000 (Appendix B, Table B-7).

The 2011 preseason forecast of the KRFC age-4 ocean harvest rate was 16.0 percent (the ESA consultation standard for California Coastal Chinook is no more than 16.0 percent). The postseason evaluation of the 2011 KRFC age-4 ocean harvest rate was not available.

## **Klamath River Fall Chinook**

The 2011 preliminary postseason river run size estimate for KRFC was 103,005 adults compared to the preseason predicted ocean escapement (river run size) of 101,500 adults. The escapement to natural spawning areas was 47,755 adults, which was 136 percent of the preseason prediction of 35,000 adults and higher than the MSY spawner escapement level of 40,700. The estimated hatchery return was 22,336 adults. Jack returns in the Klamath Basin totaled an estimated 74,223, including 62,799 in natural spawning areas; this was the highest jack return on record since 1978. Table II-2, Figure II-2, and Appendix B, Table B-4 present historical harvest and escapement data for KRFC.

Spawning escapement to the upper Klamath River tributaries (Salmon, Scott, and Shasta Rivers), where spawning was only minimally affected by hatchery strays, totaled 6,903 adults. The Shasta River has historically been the most important Chinook salmon spawning stream in the upper Klamath River, supporting a spawning escapement of 30,700 adults as recently as 1964, and 63,700 in 1935. The escapement in 2011 to the Shasta River was 213 adults, the lowest on record since 1949; however jack counts in the Shasta were 11,187, the highest on record since 1939. Escapement to the Salmon and Scott Rivers was 3,674 and 3,016 adults, respectively (Appendix B, Table B-6).

The geometric mean of KRFC natural area adult escapement in 2009, 2010, and 2011 was 42,898, which exceeded both the MSST threshold (30,525) and the MSY spawner escapement level. Estimates of the KRFC exploitation rate were not available for 2011. Fisheries in 2010 resulted in an exploitation rate of 0.42, which is lower than the MFMT (0.71). Therefore, KRFC should not be considered overfished or subject to overfishing (Table II-6).

## **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 ocean harvest distributions overlap somewhat, they are categorized as either north or south/local migrating. North migrating Chinook stocks include stocks from the Elk River north, with the exception of Umpqua River spring Chinook. South/local migrating Chinook stocks include Rogue River spring and fall Chinook, Umpqua River spring Chinook, and fall Chinook from smaller rivers south of the Elk River.

Based on CWT analysis, the populations from 10 major north Oregon Coast (NOC) river systems from the Nehalem through the Siuslaw Rivers are harvested primarily in PSC ocean fisheries off B.C., SEAK and Oregon terminal area fisheries. NOC stocks are harvested to a much lesser degree in Council area fisheries off Washington and Oregon. Analysis of CWTs indicates the populations from five major mid-Oregon Coast (MOC) systems between the Coos and the Elk Rivers are harvested primarily in ocean fisheries off B.C., Washington, Oregon, and in terminal area fisheries. Minor catches occur in California fisheries and variable catches in SEAK troll 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, B.C., and SEAK.

### *Management Objectives*

The conservation objective for Oregon Coast Chinook was 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. This stock has been an abundant stock historically; therefore, preseason abundance estimates were not developed for this stock, and it has not been of critical management concern. ESA consultation standards for OCN coho, LCN coho, and California Coastal Chinook, and KRFC management objectives generally result in reduced Council-area ocean fishery impacts on Oregon south/local migrating Chinook stocks.

Council area Chinook fisheries have minor impacts on most of the stocks originating from the NOC and MOC, which have a northerly marine distribution pattern.

### **Regulations to Achieve Objectives**

The areas of primary management concern for ocean fisheries impacting Oregon Coast Chinook vary between the north and south/local migrating stocks, although there is some overlap. Preseason abundance estimates were not available for Oregon Coast Chinook; however, based on postseason abundance indicators, Council area fisheries impacts on these stocks have not significantly affected achievement of management objectives in recent years.

Oregon State waters terminal area fisheries in 2011 were adopted to provide additional harvest on robust hatchery or naturally produced fall Chinook. Special regulations for each of these seasons were implemented to maintain fishery impacts within conservation objectives. These regulations included season quotas, daily and weekly landing limits in commercial fisheries, and reduced daily and season bag limits and partial mark-selective restrictions in recreational fisheries. Season and size limit details are presented in Tables I-1 and I-3.

### *Inside Harvest*

Inside recreational harvest of fall and spring Chinook occurred in most Oregon coastal estuaries and rivers. For the 2011 fisheries, conservative regulations were adopted with the intention of reducing impacts on many of these stocks. Complete estimates of the 2011 recreational Chinook harvest in freshwater areas were not available. Historical estimates of the recreational harvest of fall and spring Chinook, derived from Oregon Department of Fish and Wildlife (ODFW) salmon and steelhead angler catch record cards, are reported in Table II-3.

### *Escapement and Management Performance*

The catch estimate for the four fall terminal area commercial fisheries was 2,347 Chinook.

Under the 2011 regulations, the STT expected the aggregate conservation objective for this stock would be met with the constraints required for California Coastal Chinook, KRFC, and LCN coho. Actual escapement was not estimated for the Oregon Coast Chinook stock aggregate; achievement of the aggregate 150,000 to 200,000 naturally spawning adults was assessed through peak spawner index counts of 60 to 90 adults per mile in nine index streams and included both spring and fall Chinook. Peak spawner index counts were based on traditional non-random surveys (e.g., stream surveys, dam counts, etc.). The aggregate Oregon coast goal of 150,000 to 200,000 naturally spawning Chinook adults was likely met in 2011. ODFW is developing alternate methodologies for establishing escapement goals for Oregon coastal Chinook stocks, including fall Chinook PSC indicator stocks. Upon completion of this process, the escapement goals and assessments for these stocks will likely change.

### **North Migrating Chinook**

Index counts of adult spawners (peak count per index mile) were conducted for seven of the nine standard streams and used to measure natural spawner escapement trends for north migrating fall Chinook in 2011. Data have been collected since about 1950 for most systems. Overall peak Chinook adult index spawner counts in 2011 were preliminarily estimated at 92 adults per mile, higher than the MSY spawner escapement level of 60 adults per mile.

The geometric mean of north migrating Oregon Coast Chinook adult escapement in 2009, 2010, and 2011 was 79 fish per mile, which exceeded both the MSST threshold (30) and the MSY spawner escapement level. Estimates of exploitation rate were not available for 2010 or 2011, but earlier fisheries resulted in



an exploitation rates that were lower than the MFMT (0.78). Therefore, north migrating Oregon Coast Chinook should not be considered overfished or subject to overfishing (Table II-6).

### **South/Local Migrating Chinook**

Standard fall Chinook spawning index escapement data for the smaller southern Oregon coastal rivers (south of the Elk River) were available for the Winchuck, Chetco, and Pistol Rivers (Appendix B, Table B-8). The estimated adults per mile in 2011 were preliminarily estimated at 35 adults per mile, lower than the MSY spawner escapement level of 60 adults per mile.

Rogue River carcass counts were used as an indicator of trends in escapement for naturally produced fall Chinook, but these surveys have not been conducted since 2004 (Table II-4). Two trend indicators of escapement for naturally produced spring Chinook were utilized: (1) Rogue River counts at Gold Ray Dam, and (2) Umpqua River counts at Winchester Dam (Table II-4). Gold Ray Dam was removed in October, 2010. For 2011 an estimate of natural spring Chinook escapement above the Gold Ray Dam site was made using the relationship of 2004-10 spawning ground surveys to the Gold Ray Dam passage. This estimate of 9,940 includes an unknown number jacks. Escapements based on these indicators were similar to recent years' returns (Figures II-3 and II-4).

The geometric mean of south/local migrating Oregon Coast Chinook adult escapement in 2009, 2010, and 2011 was 49 fish per mile, which exceeded the MSST threshold (30); therefore, south/local migrating Oregon Coast Chinook should not be considered overfished. Estimates of exploitation rates were not available so an assessment of overfishing status was not possible, but based on exploitation rates for KRFC, it is unlikely that south/local migrating Oregon coast Chinook were subject to overfishing (Table II-6).

### **COLUMBIA RIVER BASIN CHINOOK STOCKS**

Columbia River Basin Chinook salmon stocks include fall, summer, and spring stocks. NMFS has listed five Chinook ESUs within the Columbia Basin under the ESA, (1) SRW fall Chinook 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) LCR Chinook listed as threatened March 1999; and (5) upper Willamette River spring listed as threatened March 1999.

The assessment below focuses on the five major stock groups of Columbia Basin fall Chinook: lower river hatchery (LRH) tule stock and lower river wild (LRW) bright stock, both of which are part of the ESA-listed LCR Chinook ESU; Spring Creek Hatchery (SCH) tule stock; upriver bright (URB) stock, which includes the ESA-listed SRW Chinook ESU; and mid-Columbia bright (MCB) hatchery stock. A brief assessment of Columbia River upper river summer Chinook is also included. Management details for Columbia River spring Chinook stocks are not discussed. Council-managed ocean salmon fisheries have very limited impacts on these stocks (less than a 2 percent exploitation rate in base-period fisheries); as a result, mid-Columbia spring stocks were removed from the FMP under Amendment 16 in December 2011. Appendix B, Tables B-12 through B-19, contain historical harvest and escapement data for fall, summer, and spring stocks. Appendix B, Table B-20 summarizes catch information for all three Chinook runs in the Columbia Basin. Additional information on these stocks and in-river fisheries can be found in the *Joint Staff Report: stock status and fisheries for spring Chinook, summer Chinook, sockeye, steelhead, and other species and miscellaneous regulations* and the *Joint Staff Report concerning the fall in-river commercial harvest of Columbia River fall Chinook, summer steelhead, coho salmon, chum salmon, and sturgeon* published annually by the joint staffs of ODFW and WDFW.

## *Management Objectives*

Council-area fisheries north of Cape Falcon in 2011 were managed to access SCH and LRH stocks while meeting the NMFS ESA consultation standards for the ESA-listed LCR Chinook ESU (both LCR natural tules and LRW) and SRW fall Chinook ESU. The standard for ESA-listed LCR natural tules was a total (ocean plus inriver) AEQ exploitation rate of no more than 37.0 percent, a decrease from the ceiling rate of 38.0 percent in 2010. For preseason modeling, the estimated total exploitation rate on a composite of Washougal, Kalama, Cowlitz, and Big Creek hatchery tules was used as a surrogate for LCR natural tules. The NMFS ESA consultation standard for LRW was a North Lewis River fall Chinook spawning escapement of 5,700; the preseason forecast was for an escapement of 10,000. The standard for the SRW ESU was no less than a 30.0 percent reduction in the Snake River Fall Index (SRFI) from the 1988 through 1993 base period AEQ exploitation rate for all ocean fisheries combined.

No specific escapement goal was established for the ESA-threatened Snake River wild fall Chinook stock. However, in the Proposed Recovery Plan for Snake River Salmon, NMFS proposed a delisting goal for Snake River fall Chinook of an eight-year (approximately two generation) geometric mean of at least 2,500 natural origin spawners in the mainstem Snake River annually.

The NMFS ESA consultation standard for the threatened LCR natural tule Chinook was the primary constraint on Council-area Chinook fisheries north of Cape Falcon, and to a lesser extent, south of Cape Falcon.

## **Regulations to Achieve Objective**

Fisheries north of Cape Falcon are managed with quotas to help ensure impacts to stocks do not exceed allowable limits and to ensure allocation objectives are met. In 2011, the strong abundance of URB, Fraser River origin, and other stocks contributing to the southeast Alaska and British Columbia AABM fisheries increased the allowable catch to the next higher harvest rate tier under the 2008 PST Agreement. This increase in harvest rate in northern fisheries coupled with the one percent reduction from 2010 in the exploitation rate ceiling for LCR natural tules were primary reasons that the total allowable catch (TAC) in fisheries north of Cape Falcon were reduced from 2010, even though combined SCH and LRH stock abundance was similar for the two years.

The overall non-Indian Chinook total allowable catch (TAC) was 64,600 including a 4,800 mark selective Chinook quota for a portion of the recreational fishery; the (non-mark-selective equivalent of 61,800). These compare to a 2010 non-Indian TAC of 117,000, including a 12,000 mark selective Chinook quota for a portion of the recreational fishery; the equivalent non-mark-selective TAC was 110,000. The 2011 overall TAC was divided into 30,900 commercial and 33,700 recreational (non-mark selective equivalent of 30,900). The treaty Indian ocean troll TAC was 41,000 Chinook, and is applicable to the May-September period. This compares to a 2010 treaty Indian TAC of 55,000. Season and size limit details are presented in Tables I-1, I-2, and I-3.

## *Commercial*

Non-Indian commercial fisheries north of Cape Falcon included a Chinook directed fishery in May and June initially open seven days per week with no landing limit. Two-thirds of the overall non-Indian commercial Chinook quota north of Cape Falcon was allotted to the May-June time period to increase opportunity when Chinook were more available to the fishery. Inseason action was taken to limit the days per week and institute landing and possession limits toward the end of the season to ensure the quota of 20,600 Chinook was not exceeded.

The non-Indian commercial all-salmon fishery was scheduled for July 1 through September 15 with preseason quotas of 10,300 Chinook and 12,800 marked coho. The fishery was open Friday through Tuesday most weeks with various landing and possession limits for each open period. In addition, vessels were restricted to fishing and landing catch either north or south of Leadbetter Point during any one open period.

### *Recreational*

The recreational fisheries north of Cape Falcon included a June mark-selective Chinook fishery and an all-salmon fishery (mark-selective for coho) during the late June-September time period.

The June mark-selective Chinook fishery opened June 18 through the earlier of the quota of 4,800 marked Chinook or June 25. The fishery ran the full 8 days with a total catch of 2,400 marked Chinook. The summer all-salmon fisheries north of Cape Falcon opened June 26 through the earlier of the coastwide quotas of 30,100 Chinook (modified from a preseason quota of 28,900 Chinook by an impact-neutral rollover from the June mark-selective Chinook fishery) or 67,050 mark-selective coho (modified from a preseason quota of 67,200 coho by an impact-neutral transfer between sub-areas) or the automatic closure date of September 18 north of Leadbetter point and September 30 south of Leadbetter Point. The fishery closed as scheduled on the automatic closure dates with total catches of 28,400 Chinook and 45,600 marked coho.

### *Treaty Indian*

Treaty Indian ocean fisheries were similar in structure to recent years, with a May-June Chinook directed fishery and a July to mid-September all-salmon fishery. Chinook quotas were 19,750 for the May-June fishery, 21,250 for the July-September fishery, and the coho quota in the all-salmon fishery was 42,000. The May-June fishery closed as scheduled without attaining its quota, but the all-salmon fisheries were closed after the first week of September as the Chinook quota was reached.

### *Inside Harvest*

Since the Columbia River Fishery Management Plan expired on December 31, 1998, fall Chinook in Columbia River fisheries were managed through 2007 under the guidance of annual management agreements among the *U.S. v. Oregon* parties. In 2008, a new 10 year management agreement was negotiated through the *U.S. v. Oregon* process, which included revisions to some inriver objectives. In particular, the "*2008-2017 U.S. v Oregon Management Agreement*" (2008-2017 MA) specified that with run sizes of at least 200,000 URB, including at least 6,000 SRW fall Chinook, the allowable URB impact rate would be 38.0 percent. NMFS used the URB impact rate as a proxy in the SRW consultation standard.

In 2011, the fall fisheries were managed to achieve the NMFS ESA consultation standards for threatened LCR natural tule and SRW Chinook, and the 2011 URB and SRW preseason forecast run sizes were both large enough to allow a 38.0 percent harvest rate in inriver fisheries per the 2008-2017 MA.

Within the ESA limitations there were harvestable numbers of salmon available for all major stocks in 2011. The postseason fall Chinook run reconstruction, however, was not completed in time for this report. The preliminary catch estimates (adults) for the non-Indian commercial gillnet fisheries were 17,614 spring, 5,004 summer, and 75,643 fall Chinook, which included 11,855 spring, zero summer, and 25,037 fall Chinook in Select Area (terminal) fisheries. The preliminary catch estimates (adults) for the treaty Indian fisheries were 13,242 spring, 20,645 summer, and 130,039 fall Chinook. The preliminary catch estimate (adults) for the recreational fisheries included 9,603 fall Chinook in the Buoy 10 fishery, and 12,006 spring, 5,576 summer, and 31,624 fall Chinook in mainstem fisheries below Bonneville Dam,

2,379 spring Chinook in mainstem fisheries above Bonneville Dam, and 11,279 fall Chinook in the Hanford Reach fishery above McNary Dam (Appendix B, Table B-20).

### *Escapement and Management Performance*

All Columbia River summer and fall stocks met their escapement objectives (Table II-5). Preliminary estimates of river mouth returns based on inseason run updates were: 80,574 summer, 53,143 LRH; 8,928 LRW; 29,888 SCH; 161,191 URB; and 20,657 MCB. Estimates for SRW were unavailable. The total ocean escapement of the five fall stocks was 635,429 fall Chinook (Figure II-5). The estimated escapement for summer Chinook in 2011 was 44,432, exceeding the MSY spawner escapement objective of 12,143 adults established under FMP Amendment 16. The estimated natural area escapement (Hanford Reach, Yakima River, and above Priest Rapids Dam) for URB Chinook in 2011 was not available, but exceeded the MSY spawner escapement level of 39,625 adults established under FMP Amendment 16.

The preliminary URB harvest rate estimate was 44.4 percent. The total adult SRW, hatchery, and supplementation fall Chinook count at Lower Granite Dam in 2011 was 25,249, down from 41,815 in 2010. Estimates of SRW and supplementation fall Chinook spawning escapement in 2011 were not available. The eight-year mean of SRW natural origin spawners through 2010 was 2,822 fish.

Postseason estimates of exploitation rate on LCR natural tulle or SRW for ocean fisheries were unavailable.

The overall ocean TACs for treaty Indian and non-Indian Chinook fisheries were not exceeded. All Council area fisheries north of Cape Falcon were closed before exceeding their final quotas, except the treaty-Indian all-salmon fishery, which exceeded its all-salmon Chinook quota by 2 percent, although the Chinook directed fishery ended well below its quota.

The geometric mean of Columbia upper river summer Chinook adult escapement in 2009, 2010, and 2011 was 45,296, which exceeded the MSST threshold (6,072); therefore, Columbia upper river summer Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates were not available for 2010 and 2011, but the previous three years' exploitation rates were less than the MFMT (0.75); therefore, Columbia upper river summer Chinook should not be considered subject to overfishing (Table II-6).

The geometric mean of Columbia URB fall Chinook adult escapement in 2008, 2009, and 2010 was 71,731, which exceeded the MSST threshold (19,182); therefore, Columbia URB fall Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates were not available for 2010 and 2011, but the previous three years' exploitation rates were less than the MFMT (0.86); therefore, Columbia URB fall Chinook should not be considered subject to overfishing (Table II-6).

## **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, inclusive). This complex consists of several natural stocks, generally of small to medium-sized populations, and some hatchery production (primarily Willapa Bay and Quinalt River). Coastal stocks are not impacted significantly by Council-area ocean fisheries.

### *Management Objectives*

Willapa Bay natural fall Chinook did not have a defined conservation objective in the Salmon FMP during the preseason process, although WDFW has a spawning escapement objective of 4,350 natural Chinook, which is based on peak density estimates and watershed area. Amendment 16 to the Salmon

FMP, adopted in December 2011, included an MSY spawning escapement objective of 3,393, which was based on the WDFW objective.

Spawning escapement goals for natural stocks managed within this complex north of Willapa Bay, established in U.S. District Court by WDFW and the treaty Indian tribes, were recognized in the Council's FMP conservation objectives. Objectives for Grays Harbor and the North Coast river systems were established pursuant to the U.S. District Court order in *Hoh v. Baldrige*. However, annual natural spawning escapement targets may vary from the FMP conservation objectives if agreed to by WDFW and the treaty Indian tribes under the provisions of *Hoh v. 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. No agreements on annual spawning targets for Washington coastal Chinook other than those in the FMP were made in 2011.

### **Regulations to Achieve Objectives**

Preseason abundance forecasts for some Washington coastal Chinook stocks were available for the first time in 2008 for the Council preseason management process. Because Council area fishery impacts to Washington coastal Chinook stocks are negligible, ocean regulations are not generally used to manage these stocks. The only Council area regulation affecting any of these stocks was closing the Grays Harbor Control Zone in August and September for the recreational and commercial fisheries. Season and size limit details are presented in Tables I-1, I-2, and I-3.

#### *Willapa Bay Chinook*

##### **Inside Harvest**

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

No Chinook-directed non-Indian gillnet fishery was conducted during July 2011 but there was a 60-hour Chinook-directed fishery in early August 2011. These fisheries, prior to August 16, are commonly referred to as the "summer dip-in" fishery; they occur irregularly because historically they were dependent on Columbia River tule abundance, which now include the ESA-listed LCR natural tule stock. This fishery was generally assumed to harvest Columbia River tule stocks in a mix similar to adjacent ocean area catches; however, in light of recent catch composition information (>70 percent local Willapa Bay and Grays Harbor origin stock) this assumption has been questioned.

The 2011 pre-season forecast of Chinook returning to Willapa Bay was 36,817 fish (4,341 natural and 32,476 hatchery). There were four 12-hour Chinook-directed non-Indian gillnet fisheries beginning August 29 through September 9. Retention of unmarked Chinook was prohibited. Total Chinook harvest in the non-Indian gillnet fisheries during 2011 was 18,916 fish, based on preliminary data.

Recreational fisheries in the marine waters of Willapa Bay were open from June 18 through July 31, concurrent with the Ocean Marine Area 2 (ocean rules applied). From August 1 through January 31, 2012, Willapa Bay was open to recreational fishing with no more than three adults allowed to be harvested daily. Barbless hooks were required when fishing for salmon. Retention of chum and unmarked Chinook was prohibited.

Recreational salmon fisheries in tributaries to Willapa Bay varied in duration but were generally open August 1, through January 31, 2012. Retention of unmarked Chinook was prohibited. Single-point,

barbless hooks were required in all areas except for the Naselle River. Recreational harvest estimates for 2011 were not available.

### **Escapement and Management Performance**

During 2010, Chinook returning to hatcheries in the Willapa Bay watershed totaled 23,468 fish. Based on current hatchery production, this return was sufficient to achieve the goal of 9,800 total Chinook escapement to Willapa Bay hatchery facilities. An escapement estimate was unavailable for 2011.

An estimate of the 2011 natural spawning escapement was not available; the 2010 natural escapement was 3,395 Chinook, slightly above the FMP objective of 3,393. An estimated 1,912 natural Chinook were harvested in commercial and recreational fisheries in 2011, above the preseason expectation of 850.

The geometric mean of Willapa fall Chinook adult escapement in 2008, 2009, and 2010 was 2,638, which exceeded the MSST threshold (1,696); therefore, Willapa Bay fall Chinook should not be considered overfished (Table II-6). Exploitation rate estimates were not available for 2010 and 2011. Estimates of exploitation rates for all Washington Coast fall Chinook are based on Queets River fall Chinook CWT analyses, and while ocean impacts for these fall stocks may be assumed to be similar, inside impacts may vary substantially. The estimated total exploitation rate for Queets fall Chinook in 2007 was 0.82, which exceeded the MFMT for Willapa Bay fall Chinook (0.78); however in 2008 and 2009 exploitation rates were 0.52 and 0.56; therefore, Willapa Bay fall Chinook should not be considered subject to overfishing (Table II-6). The MFMT for Willapa Bay fall Chinook is also based on a proxy derived from an average value of other Chinook stocks; therefore, overfishing status based on total exploitation rates for Willapa Bay fall Chinook are less certain than for some other Washington Coast Chinook stocks.

### *Grays Harbor Chinook*

#### **Inside Harvest**

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

The Quinault Indian Nation conducted a spring/summer commercial gillnet fishery on the Chehalis River and in Gray Harbor commercial fishing Areas 2A, 2A-1, C, and D in 2011. A mesh restriction was imposed to reduce impacts on spring Chinook while targeting white sturgeon. The non-Indian recreational season and the Chehalis Tribal fisheries were closed in Grays Harbor and the Chehalis River during the spring Chinook management period. No summer non-Indian gillnet fishery directed at non-local Chinook stocks occurred in 2011.

The non-Indian gillnet fishery in Humptulips commercial Area 2-C was open for eight days in mid-August through mid-September, in addition, two 10-hour fisheries were conducted in October. Retention of fall Chinook and marked coho was allowed. Live boxes were required and unmarked coho could not be retained. Catches totaled 1,858 Chinook and 79 coho. The non-Indian gillnet fishery in the Chehalis River commercial Areas 2A and 2D was open for four 10-hour and one 9-hour periods in October; live boxes were required, and Chinook could not be retained.

The recreational fishery in Marine Area 2-2 was open from September 16 through November 30, with Chinook and chum retention prohibited. The recreational fishery in the Chehalis River was closed to Chinook retention. In the recreational Humptulips River fishery from the mouth to confluence of the East and West forks, a daily limit of 2 adults, of which only one could be a Chinook, was allowed from September 16 through January 31. Recreational harvest estimates were not available.

The Quinault Indian Nation fall gillnet fishery harvested a total of 6,402 fall Chinook in two separately scheduled areas: the first in the lower Humptulips River and adjacent Area 2C of Grays Harbor and the second in the lower Chehalis River and adjacent areas of Grays Harbor, Areas 2D, 2A, and 2A-1. Fishing was restricted to east of Stearns Bluff in the Chehalis River, and Areas 2D, 2A, and 2A-1 to limit catches of Chinook, which tend to concentrate in deep areas off the mouths of the Johns and Elk rivers. The Chehalis area treaty Indian fishery caught 5,104 Chinook, which was higher than expected, whereas the Humptulips area treaty Indian fishery catch was 1,298 Chinook, which was less than expected; the combined Grays Harbor treaty Indian Chinook catch was higher than expected.

### **Escapement and Management Performance**

Chehalis River spring Chinook are of natural origin and managed for an escapement goal of 1,400 adults. The 2011 terminal run forecast for spring Chinook was 1,844 adult fish. A preliminary escapement of 2,563 was estimated for the 2011 return.

The geometric mean of Grays Harbor spring Chinook spawner escapement in 2008, 2009, and 2010 was 1,579, which exceeded the MSST threshold (546); therefore, Grays Harbor spring Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates were not available for Washington coastal spring/summer Chinook stocks, but based on the limited inriver harvest rate and ocean harvest rates of Queets fall Chinook, it is unlikely that Grays Harbor spring Chinook were subject to overfishing in recent years (Table II-6).

Grays Harbor fall Chinook were managed for a natural spawning escapement goal of 14,600 adults. The 2011 Grays Harbor fall Chinook forecast was 23,275 natural and 3,914 hatchery adults; however, no natural spawning escapement estimate for 2011 was available. The 2010 spawning ground escapement estimate was 16,950, which included some hatchery origin fish. The return of hatchery-origin fall Chinook to Grays Harbor hatchery programs were sufficient to provide for 2012 fall Chinook production goals.

The geometric mean of Grays Harbor fall Chinook adult spawning escapement in 2008, 2009, and 2010 was 11,840, which exceeded the MSST threshold (5,694); therefore, Grays Harbor fall Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates were not available for Grays Harbor fall Chinook, but Queets River fall Chinook were used as a proxy. Exploitation rate estimates were not available for 2010 and 2011, but earlier estimates were below the MFMT (0.78); therefore, Grays Harbor fall Chinook should not be considered subject to overfishing (Table II-6).

### *Quinault River Chinook*

#### **Inside Harvest**

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

A run of natural spawning spring/summer Chinook enters the river from April through July. The spring/summer Chinook run is typically small and any harvest is taken incidentally during fisheries directed at sockeye and steelhead. The tribal fishery harvested 29 spring/summer Chinook in 2011 primarily during its sockeye directed fishery.

The 2011 harvest of Quinault River fall Chinook was mostly hatchery origin fish taken in September and October. The treaty Indian net catch totaled 5,998 fall Chinook.

## **Escapement and Management Performance**

Quinault fall Chinook were managed for hatchery production. The 2011 fall Chinook spawning escapement estimate was not available. Hatchery fall Chinook egg-take goals for the Quinault River were attained at the Lake Quinault tribal hatchery.

### *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-29 and B-30, respectively.

The 2011 treaty Indian gillnet harvest of spring/summer Chinook remained closed during the spring/summer period through the last week of August. The non-Indian in-river recreational fishery was closed to retention of Chinook.

Fall Chinook were harvested from August 29 through November 4 in the treaty Indian fall gillnet fishery. The treaty Indian fishery was structured to target hatchery and natural coho while also harvesting Chinook at a total tribal plus non-tribal harvest rate of 40 percent. The treaty Indian gillnet fishery harvested 2,327 fall Chinook in the commercial fishery compared to a preseason expected catch of 1,733. The estimate of Chinook harvested in the treaty Ceremonial and Subsistence fishery was not available. Recreational fisheries targeted coho and Chinook during standard September 1 through November 30 schedules in the Queets and Clearwater Rivers. The on-reservation Salmon River recreational harvest was limited to retention of coho. Only coho and mark-selective Chinook retention was allowed for recreational fisheries within Olympic National Park waters (Queets mainstem upstream of the Quinault Indian Reservation, and lower section of the Salmon River). Catch estimates for 2011 recreational salmon fisheries were not available.

## **Escapement and Management Performance**

The 2010 spawning escapement estimate for Queets River spring/summer Chinook was 259 adults, about 37 percent of the MSY spawner escapement goal of 700. The 2011 spawning escapement estimate was not available.

The geometric mean of Queets River spring/summer Chinook adult spawning escapement in 2008, 2009, and 2010 was 339, which is below the MSST threshold (350); therefore, Queets River spring/summer Chinook should be considered overfished (Table II-6). Estimates of exploitation rates were not available for Washington coastal spring/summer Chinook stocks, but based on the limited inriver harvest rate and ocean harvest rates of Queets fall Chinook, it is unlikely that Queets River spring/summer Chinook were subject to overfishing in recent years (Table II-6).

The 2010 Queets River fall Chinook spawning escapement was 4,022. An estimate for 2011 was not available; however, initial observations indicate total fall Chinook escapement (including naturally spawning wild and indicator hatchery Chinook) in 2011 will meet the minimum escapement goal of 2,500. The indicator Chinook originate from wild broodstock taken each year in the river.

The geometric mean of Queets River fall Chinook adult spawning escapement in 2008, 2009, and 2010 was 3,377, which exceeded the MSST threshold (1,250); therefore, Queets River fall Chinook should not be considered overfished (Table II-6). More recent estimates were not available. Estimates of exploitation rates were not available for 2010 and 2011, but estimates from 2007, 2008, and 2009 were below the MFMT (0.87); therefore, Queets River fall Chinook should not be considered subject to overfishing (Table II-6).



## *Hoh River Chinook*

### **Inside Harvest**

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

The 2011 Hoh River spring/summer Chinook terminal abundance forecast was 1,037 fish, 137 fish above the escapement goal of 900. The treaty Indian gillnet fishery occurred between the weeks of May 2 and the July 11, and was scheduled for two days per week in weeks 19-23 and one day per week in weeks 24-29, targeting 6.7 percent (including ceremonial and subsistence catch) of the forecasted run. Tribal regulation in 2011 required a minimum of 8 inch stretch mesh during the first four weeks in order to minimize incidental take of steelhead kelts. The treaty Indian gillnet fishery harvested 76 Chinook. Results of mark sampling and scales indicated that 25 of these were of hatchery origin (51 natural). The non-Indian recreational fishery operated from May 16 through August 31, Wednesdays through Sundays, with a bag limit of one marked adult per day from the mouth to Willoughby Creek. A preliminary estimate of Chinook taken in the sport fishery was not available. Retention of un-marked fish was not allowed this year.

Hoh River fisheries for fall Chinook were based on an expected terminal run size of 2,880 adults, allowing for a terminal harvest rate of 40 percent. The spawning escapement was expected to be 1,936 adults.

The treaty Indian fishery targeted 21.4 percent of the terminal run. The treaty Indian gillnet fishery was scheduled for two days per week during weeks 36, 37, 42 and 52, and three days per week in weeks 38-41, and 43-51. The treaty Indian fishery caught approximately 528 Chinook out of an expected catch of 617. Results of mark sampling indicated that all 528 of these were of natural origin. CWT data were not available.

The non-Indian recreational fishery extended from September 1 through November 30, with the river below Willoughby Creek open and a daily-bag-limit of six salmon, two of which could be adults. The portion of the river between Willoughby Creek and Morgan's Crossing was open October 16 through November 30. The delayed opening was to reduce impacts on spawning spring/summer Chinook in that reach. The river above Morgan's Crossing was closed to recreational salmon fishing. A catch estimate was not available for the recreational fishery.

### **Escapement and Management Performance**

The 2011 spawning escapement for Hoh River spring/summer Chinook was not available. The geometric mean of Hoh River spring/summer Chinook spawner escapement in 2008, 2009, and 2010 was 788, which exceeded the MSST threshold (450); therefore, Hoh River summer Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates were not available for Washington coastal spring/summer Chinook stocks, but based on the limited inriver harvest rate and ocean harvest rates of Queets fall Chinook, it is unlikely that Hoh River spring/summer Chinook were subject to overfishing in recent years (Table II-6).

The preliminary 2011 spawning escapement estimate for Hoh River fall Chinook was not available. The geometric mean of Hoh River fall Chinook adult spawning escapement in 2008, 2009, and 2010 was 2,531, which exceeded the MSST threshold (600); therefore, Hoh River fall Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates were not available for Hoh River fall Chinook, but Queets River fall Chinook were used as a proxy. Exploitation rate estimates were not

available for 2010 and 2011, but earlier estimates were below the MFMT (0.90); therefore, Hoh River fall Chinook should not be considered subject to overfishing (Table II-6).

### *Quillayute River Chinook*

#### **Inside Harvest**

Historical terminal run size, catch, and escapement data for Quillayute River spring, summer, and fall Chinook are presented in Appendix B, Tables B-35 and B-36 respectively. Spring and summer Chinook are currently managed separately, but data for both are combined in Table B-35. All hatchery origin fish are considered to be spring Chinook, and all natural spawners and tribal broodstock collections are considered to be summer Chinook. The management of these stocks is currently under review by the WDFW and Quileute Tribal co-managers.

The recreational and tribal fisheries for spring and summer Chinook were established by a preseason management agreement between WDFW and the Quileute Tribe. The total tribal catch for 2011 was 404 spring and 191 summer Chinook plus 26 spring and 15 summer Chinook for ceremonial and subsistence use. Estimates of 2011 recreational spring and summer Chinook harvest were unavailable.

The total 2011 Quileute Tribal harvest of fall Chinook was 1,972, plus 3 uncounted for ceremonial and subsistence use. An estimate of the 2011 recreational catch was unavailable.

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

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

The 2011 management agreement called for an escapement goal of 200 hatchery spring Chinook. The actual rack return was 696, which exceeded hatchery requirements.

The summer Chinook run was managed to achieve an MSY spawner escapement of 1,200 adults, jacks, and broodstock collection combined. The preliminary estimated natural spawning summer Chinook escapement of 600 was under the escapement goal.

The geometric mean of Quillayute River summer Chinook spawner escapement in 2009, 2010, and 2011 was 717, which exceeded the MSST threshold (600); therefore, Quillayute River summer Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates were not available for Washington coastal spring/summer Chinook stocks, but based on the limited inriver harvest rate and ocean harvest rates of Queets fall Chinook, it is unlikely that Quillayute River summer Chinook were subject to overfishing in recent years (Table II-6).

Terminal area fisheries on fall Chinook were managed for a target 40 percent harvest rate, and an MSY spawner escapement goal of 3,000 adults. The preliminary escapement estimate of 3,993 fall Chinook was above the escapement goal.

The geometric mean of Quillayute River fall Chinook adult spawning escapement in 2009, 2010, and 2011 was 4,066, which exceeded the MSST threshold (1,500); therefore, Quillayute River fall Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates were not available for Quillayute fall Chinook, but Queets River fall Chinook were used as a proxy. Exploitation rate estimates

were not available for 2010 and 2011, but earlier estimates were below the MFMT (0.87); therefore, Quillayute River fall Chinook should not be considered subject to overfishing (Table II-6).

### *Hoko River Chinook*

#### **Inside Harvest**

Hoko River Chinook are primarily harvested in fisheries in southeast Alaska and northern British Columbia with minimal harvest in Council area and inside waters. Tribal and recreational fisheries in the Hoko River for Chinook salmon have not occurred since the early 1980's although some catch is occasionally reported by anglers on WDFW Catch Record Cards.

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

The preliminary escapement estimate of 1,504 Chinook was above the MSY spawner escapement goal of 850 and included 423 from the supplementation program (Appendix B, Table B-38).

The geometric mean of Hoko River summer/fall Chinook spawner escapement in 2009, 2010, and 2011 was 764, which exceeded the MSST threshold (425); therefore, Hoko River summer/fall Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates were not available for 2010 and 2011, but estimates from 2007, 2008, and 2009 were well below the MFMT (0.78); therefore, Hoko River summer/fall Chinook should not be considered subject to overfishing (Table II-6).

### **PUGET SOUND CHINOOK STOCKS**

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

#### *Management Objectives*

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

Puget Sound Chinook stocks are listed under the ESA and were managed pursuant to the provisions of a WDFW/Tribal management plan approved under an ESA Section 4(d) rule promulgated by NMFS. This plan contains exploitation rate ceilings for ESA-listed Puget Sound stocks expressed in terms of constraints on total fishery rebuilding exploitation rates (RER) or of exploitation rates on fisheries south of the Canadian border for those stocks without RERs. The Council's annual management objectives for ESA listed stocks are to meet the ESA consultation standards set forth by NMFS.

## **Regulations to Achieve Objectives**

Puget Sound stocks contribute to fisheries off B.C., are present to a lesser degree off SEAK, and are impacted to a minor degree by Council-area ocean fisheries. Because Council area fishery impacts to Puget Sound Chinook stocks are negligible, ocean regulations are not generally used to manage these stocks. The only Council area regulation affecting any of these stocks was closing the Cape Flattery Control Zone for the non-Indian commercial troll fishery. Season and size limit details are presented in Tables I-1, I-2, and I-3.

### *Inside Harvest*

Commercial inside fishery harvest of Puget Sound Chinook was managed on the basis of six regional stock management units or, in some cases, component stocks within management units: Strait of Juan de Fuca, Nooksack-Samish, Skagit, Stillaguamish-Snohomish, South Puget Sound, and Hood Canal. Harvest was 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-39. These catches included some fish of non-Puget Sound origin. The total commercial harvest in Puget Sound in 2011 was 110,612 Chinook, compared to 95,804 Chinook caught in 2010. The 2011 non-Indian net catch was 10,097 Chinook, compared to 7,922 Chinook caught in 2010. The 2011 treaty Indian net and troll harvest was 100,515 Chinook, compared to 87,882 Chinook caught in 2010.

Chinook catches in the Puget Sound recreational fishery for years beginning in 1971 are presented in Appendix B, Table B-40. Catch estimates for the 2011 Puget Sound recreational fishery were unavailable.

### *Escapement and Management Performance*

Puget Sound Chinook management goals for fishery planning processes in 2011 were compared to predicted exploitation rates to assess compliance with ESA consultation standards (Table II-5). Information to evaluate performance against these constraints was unavailable.

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

Preliminary data suggest most Puget Sound hatcheries met their summer/fall Chinook goals.

Naturally spawning Puget Sound spring and summer/fall Chinook remained depressed in 2011. Preliminary data suggest no Puget Sound spring Chinook natural stocks met their escapement goals. Preliminary information on 2011 natural spawning escapements for summer/fall Chinook stocks indicate escapement goals were met in some areas, but not in many others. Escapement estimates for 2011 were not available for most runs. In many natural spawning areas, hatchery-origin Chinook comprise a large component of the natural spawning population.

## **COASTWIDE GOAL ASSESSMENT SUMMARY**

FMP Conservation objectives for Council managed Chinook stocks in effect during the preseason planning process of 2011 were met for stocks with available estimates except for Sacramento River fall Chinook and Quillayute summer Chinook (Table II-5). Information to assess compliance with FMP conservation objectives and ESA consultation standards in 2011 was unavailable for LCR natural tule Chinook, SRW fall Chinook, California Coastal Chinook, Willapa Bay, Grays Harbor, Queets River, Hoh River, and all Puget Sound natural Chinook stocks. In 2010, Queets spring/summer and Hoh spring/summer Chinook also failed to achieve their MSY spawning escapement objectives.

### *Stock Status Determinations*

In 2011 the Council adopted new SDC for overfishing, overfished, not overfished/rebuilding, and rebuilt under FMP Amendment 16. These criteria, approved and implemented in December 2011, were:

- Overfishing occurs when a single year exploitation rate exceeds the MFMT ( $F_{MSY}$ );
- Overfished status occurs when the most recent 3-year geometric mean spawning escapement is less than the MSST;
- Not overfished/rebuilding status occurs when a stock has been classified as overfished and has not yet been rebuilt, and the most recent 3-year geometric mean spawning escapement is greater than the MSST but less than  $S_{MSY}$ ;
- A stock is rebuilt when the most recent 3-year geometric mean spawning escapement exceeds  $S_{MSY}$ .

All criteria rely on the most recent estimates available, which in some cases may be a year or more in the past because of incomplete broods or data availability. The above criteria for rebuilt status are the default criteria provided in the FMP; however, alternative criteria may be developed through a rebuilding plan if warranted by stock specific circumstances. While the Amendment 16 SDC may not have been in place for all stocks during the preseason process, all relevant stocks were evaluated relative to these new SDC as required by the FMP. Stock specific reference points and recent year estimates for relevant stocks are presented in Table II-6.

All relevant Chinook stocks that were assessed for compliance with SDC were not overfished except SRFC and Queets spring/summer Chinook, and no stocks were subject to overfishing. Exploitation rates estimates were not made for most Washington Coast stocks, but overfishing was considered unlikely based on estimated exploitation rates for Queets River fall Chinook (Table II-6).

TABLE II-1. Sacramento River natural and hatchery adult fall Chinook escapement in numbers of fish.

Year	Upper River <sup>a/</sup>			Lower River			Total		Grand Total
	Hatchery	Natural <sup>b/</sup>	Subtotal	Hatchery	Natural <sup>b/</sup>	Subtotal	Hatchery	Natural <sup>b/</sup>	
1970	3,010	61,160	64,170	10,266	82,230	92,496	13,275	143,390	156,666
1971	1,728	67,586	69,314	11,011	74,556	85,567	12,739	142,143	154,882
1972	1,259	36,485	37,744	6,766	47,647	54,413	8,025	84,132	92,157
1973	1,679	48,948	50,627	18,010	151,422	169,433	19,689	200,371	220,060
1974	1,984	66,304	68,288	11,799	121,930	133,729	13,783	188,234	202,017
1975	3,289	72,986	76,275	10,781	68,564	79,346	14,071	141,550	155,621
1976	3,017	80,263	83,280	8,612	75,975	84,586	11,628	156,238	167,866
1977	6,083	60,967	67,050	14,896	82,065	96,961	20,978	143,032	164,011
1978	2,717	66,991	69,708	9,937	47,303	57,240	12,654	114,295	126,948
1979	6,407	81,332	87,739	12,359	72,299	84,658	18,766	153,632	172,398
1980	10,271	45,504	55,775	14,725	71,608	86,333	24,996	117,113	142,108
1981	5,883	51,831	57,714	25,115	92,129	117,245	30,998	143,960	174,958
1982	17,117	39,694	56,811	15,229	92,600	107,829	32,347	132,293	164,640
1983	6,112	42,570	48,682	12,735	48,831	61,566	18,847	91,401	110,248
1984	19,594	51,772	71,366	19,873	67,733	87,607	39,467	119,505	158,972
1985	15,869	103,698	119,566	13,987	105,753	119,740	29,856	209,450	239,306
1986	11,283	113,875	125,158	12,511	102,434	114,945	23,793	216,310	240,103
1987	9,981	76,861	86,842	10,291	97,930	108,222	20,273	174,791	195,063
1988	12,594	128,725	141,319	16,921	69,228	86,149	29,515	197,953	227,468
1989	10,212	67,296	77,508	15,668	59,387	75,055	25,880	126,683	152,563
1990	13,464	50,225	63,689	8,428	32,973	41,401	21,892	83,198	105,090
1991	10,031	35,259	45,290	17,435	56,144	73,579	27,466	91,403	118,869
1992	6,257	31,734	37,991	15,831	27,723	43,554	22,088	59,457	81,545
1993	7,056	55,144	62,200	19,778	55,412	75,190	26,834	110,556	137,390
1994	11,585	66,383	77,968	20,972	66,647	87,619	32,556	133,030	165,586
1995	24,810	112,235	137,045	17,017	141,252	158,269	41,827	253,487	295,314
1996	18,848	131,268	150,116	15,712	135,803	151,516	34,561	267,071	301,632
1997	44,590	167,353	211,943	20,651	112,246	132,897	65,241	279,599	344,840
1998	42,400	60,713	103,113	35,364	107,431	142,795	77,763	168,144	245,908
1999	23,194	256,629	279,823	22,917	97,089	120,006	46,112	353,718	399,830
2000	20,793	152,923	173,716	27,530	216,291	243,821	48,323	369,214	417,537
2001	23,710	179,198	202,908	35,650	358,217	393,867	59,360	537,415	596,775
2002	61,895	474,812 <sup>c/</sup>	536,707	25,278	207,883	233,161	87,173	682,695	769,868
2003	82,882	164,802	247,684	26,696	248,636	275,332	109,578	413,438	523,016
2004	52,145	70,548	122,693	31,262	132,930	164,192	83,407	203,478	286,885
2005	139,979	96,716	236,695	45,320	113,990	159,310	185,299	210,706	396,005
2006	56,819	89,933	146,752	23,087	105,191	128,278	79,906	195,124	275,030
2007	11,543	36,079	47,622	9,833	33,919	43,752	21,376	69,998	91,374
2008	10,181	36,274	46,455	8,331	10,578	18,909	18,512	46,852	65,364
2009	5,433	12,277	17,710	12,103	11,060	23,163	17,536	23,337	40,873
2010	8,666	25,682	34,348	31,036	58,886	89,922	39,702	84,568	124,270
2011 <sup>d/</sup>	19,312	20,466	39,778	23,559	58,405	81,964	42,871	78,871	121,742
Goal									122,000-180,000

a/ Above the Feather River; 1971-1985 estimates include Tehama-Colusa Spawning Channel.

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

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

d/ Preliminary.

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

Year	Spawning Escapement				Inriver Recreational Catch		Indian Net Catch		Non-landed Fishing Mortality		Inriver Run Size
	Hatchery	Natural	Total	Percent	Numbers	Percent	Numbers	Percent	Numbers	Percent	Numbers
1981	4,425	33,857	38,282	48%	5,983	7%	33,033	41%	2,994	4%	80,292
1982	10,411	31,951	42,362	64%	8,339	13%	14,482	22%	1,429	2%	66,612
1983	13,865	30,784	44,649	78%	4,235	7%	7,890	14%	772	1%	57,546
1984	7,496	16,064	23,560	50%	3,340	7%	18,670	40%	1,691	4%	47,261
1985	22,534	25,677	48,211	75%	3,582	6%	11,566	18%	1,079	2%	64,438
1986	32,891	113,360	146,251	75%	21,027	11%	25,127	13%	2,614	1%	195,019
1987	29,123	101,717	130,840	63%	20,169	10%	53,096	25%	5,029	2%	209,134
1988	33,458	79,386	112,844	59%	22,203	12%	51,651	27%	4,944	3%	191,642
1989	21,991	43,868	65,859	53%	8,775	7%	45,565	37%	4,141	3%	124,340
1990	8,067	15,596	23,663	66%	3,553	10%	7,906	22%	760	2%	35,882
1991	6,484	11,649	18,133	56%	3,383	10%	10,198	31%	956	3%	32,670
1992	7,360	12,028	19,388	73%	1,002	4%	5,785	22%	523	2%	26,698
1993	21,643	21,858	43,501	76%	3,172	6%	9,636	17%	903	2%	57,212
1994	17,072	32,333	49,405	77%	1,832	3%	11,692	18%	1,054	2%	63,983
1995	37,859	161,794	199,653	90%	6,081	3%	15,557	7%	1,477	1%	222,768
1996	20,033	81,326	101,359	58%	12,766	7%	56,476	32%	5,172	3%	175,773
1997	18,662	46,144	64,806	77%	5,676	7%	12,087	14%	1,167	1%	83,736
1998	29,219	42,488	71,707	79%	7,710	9%	10,187	11%	1,043	1%	90,647
1999	14,327	18,457	32,784	64%	2,282	4%	14,660	29%	1,322	3%	51,048
2000	97,611	82,728	180,339	83%	5,650	3%	29,415	13%	2,673	1%	218,077
2001	55,112	77,834	132,946	71%	12,134	6%	38,645	21%	3,608	2%	187,333
2002	27,183	65,635	92,818	58%	10,495	7%	24,574	15%	2,351	1%	160,788 <sup>a/</sup>
2003	61,782	87,642	149,424	78%	9,680	5%	30,034	16%	2,810	1%	191,948
2004	22,982	23,831	46,813	59%	4,003	5%	25,803	33%	2,325	3%	78,944
2005	27,699	26,789	54,488	84%	1,985	3%	8,016	12%	738	1%	65,227
2006	19,522	30,163	49,685	81%	62	0%	10,283	17%	1,344	2%	61,374
2007	35,050	60,670	95,720	72%	6,312	5%	27,573	21%	2,526	2%	132,131
2008	13,552	30,850	44,402	48%	1,919	2%	22,259	24%	24,178	26%	92,758
2009	19,614	44,409	64,023	64%	5,651	6%	28,387	28%	2,583	3%	100,644
2010	18,052	37,225	55,277	61%	3,035	3%	29,887	33%	2,661	3%	90,860
2011 <sup>b/</sup>	22,336	47,755	70,091	68%	4,164	4%	26,371	26%	2,379	2%	103,005
Goal	≥40,700 <sup>c/</sup>										

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

b/ Preliminary.

c/ In December 2011, Amendment 16 to the Salmon Fishery Management Plan was approved, which replaced the 35,000 spawning escapement floor with an  $S_{MSY}$  management objective of 40,700 natural area adult spawners. The 35,000 spawner floor was in effect from 1989-2007 and in 2011. In 2008-2010, fisheries were managed for a natural area spawning escapement of 40,700 adults under requirements of a rebuilding plan.

TABLE II-3. Oregon coastal spring and fall Chinook hatchery return and harvest in estuary and freshwater fisheries.

Year	Return to Facilities			Estuary and Freshwater Harvest <sup>b/</sup>	
	Public Hatchery <sup>a/</sup>		Private	Spring	Fall
	Spring	Fall	All		
<b>THOUSANDS OF CHINOOK</b>					
1976	2.9	0.5	-	13.5	24.3
1977	2.4	4.2	-	13.8	35.6
1978	4.4	1.6	-	13.1	42.7
1979	7.0	2.0	0.4	16.4	30.8
1980	7.9	1.8	3.4	11.9	22.1
1981	2.5	1.8	5.1	11.2	29.6
1982	4.1	2.3	12.1	11.6	24.7
1983	3.9	4.0	6.1	4.9	21.1
1984	5.6	3.3	6.3	4.1	29.0
1985	8.7	3.5	34.6	9.0	29.5
1986	30.6	5.8	70.8	17.3	36.5
1987	22.8	7.1	38.7	20.2	54.8
1988	22.0	6.4	25.0	28.9	61.4
1989	32.7	4.3	14.7	23.7	53.9
1990	6.3	3.4	7.8	15.5	39.9
1991	5.4	3.1	4.1	11.1	47.7
1992	2.7	4.4	-	8.0	44.7
1993	10.6	2.8	-	16.4	54.7
1994	4.8	3.0	-	9.2	46.7
1995	55.0	3.3	-	31.1	54.3
1996	26.7	3.6	-	25.6	51.0
1997	29.1	2.0	-	14.7	37.0
1998	11.0	2.6	-	8.2	31.5
1999	18.1	3.3	-	8.2	29.3
2000	24.5	3.1	-	11.4	37.4
2001	26.8	5.7	-	18.6	53.3
2002	24.7	2.9	-	30.9	58.8
2003	17.2	3.9	-	33.1	72.3
2004	20.1	2.9	-	19.4	78.4
2005	11.7	2.6	-	14.6	51.6
2006	7.5	2.7	-	7.1	47.7
2007	6.3	2.1	-	5.7	29.0
2008	6.1	2.7	-	6.9	21.9
2009	7.2	4.2	-	10.9	30.9
2010	10.9	5.0	-	18.0	54.5
2011 <sup>c/</sup>	7.7	2.7	-	NA	NA

a/ Adults only.

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

c/ Preliminary.



TABLE II-4. Spawner indices for naturally produced Oregon coastal fall Chinook and south migrating/localized spring Chinook.<sup>a/</sup>

Year	Fall Chinook Spawner Indices		South/local Migrating Spring Chinook Spawner Indices	
	North Migrating Peak Count Adults Per Mile	Rogue River	Rogue River	
		(South/local migrating) Adult Carcass Counts	Gold Ray Dam Counts	Umpqua River Winchester Dam Counts
1976	45	-	20	6
1977	71	1,356	15	7
1978	73	9,174	40	5
1979	81	8,272	29	6
1980	89	2,221	24	6
1981	82	5,228	13	5
1982	90	2,812	23	7
1983	42	2,737	10	3
1984	98	3,267	8	5
1985	132	5,486	28	8
1986	109	17,177	40	8
1987	121	25,918	37	8
1988	214	31,613	39	8
1989	138	7,408	8	8
1990	121	1,868	18	6
1991	150	2,799	9	2
1992	138	2,366	2	3
1993	63	5,447	13	4
1994	125	7,366	4	3
1995	103	3,958	21	6
1996	147	2,448	10	4
1997	105	1,643	10	3
1998	99	3,601	4	4
1999	124	2,493	6	3
2000	85	3,366	3	3
2001	203	6,380	9	6
2002	269	11,836	7	7
2003	279	14,620	19	8
2004	198	5,326 <sup>b/</sup>	13	5
2005	118	d/	6	4
2006	76	d/	5	3
2007	42	d/	3	2
2008	40	d/	4	3
2009	61	d/	5	5
2010	87	d/	10	6
2011 <sup>c/</sup>	92	d/	10 <sup>e/</sup>	9
Goal	60-90			

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

c/ Preliminary.

d/ Surveys were not conducted.

e/ Gold Ray Dam removed October, 2010. Natural estimate derived using relationship of 2004-2010 spawning ground surveys to Gold Ray Dam passage. Estimate includes an unknown number of jacks.

TABLE II-5. Performance of Chinook salmon stocks in relation to 2011 preseason conservation objectives (preliminary data).  
(Page 1 of 2)

System and Stock	2011 Conservation Objective(s)	Achievement
<b>Sacramento River Chinook</b>		
Fall	122,000-180,000 natural and hatchery adults.	Preliminary estimate of 121,742 natural and hatchery adult fall Chinook, 0.3% below the lower end of the escapement goal range.
Winter (Endangered)	NMFS ESA consultation standard defines specific limits on management measures to protect Sacramento River winter and spring Chinook.	Commercial and recreational seasons south of Point Arena conformed with the consultation standard.
Spring (Threatened)	Same objective as for winter Chinook.	Objective met-see winter Chinook achievement.
<b>California North Coast Chinook</b>		
Klamath River Fall	Minimum escapement of 35,000 natural adult spawners.	47,755 natural area spawners, 136% of preseason management objective.
California Coastal (Threatened)	No greater than 16.0% ocean harvest rate on age-4 Klamath River fall Chinook.	Preseason projection of 16.0%; no postseason estimate was available.
<b>Oregon Coast Chinook</b>		
North Migrating Stocks	150,000-200,000 natural adult spawners	78 natural adult spawners per mile, above the
South/Local Migrating Stocks	(equivalent to peak spawner index counts of 60-90 adults per mile).	lower bound of the aggregate stock index range.
<b>Columbia River Basin Fall Chinook</b>		
LRW (Component of threatened lower Columbia River Chinook ESU)	MSY objective of 5,700 natural North Lewis River adult spawners (no specific NMFS ESA guidance for 2010).	Preliminary estimate of 8,928 is 157% of the conservation objective.
LCR natural tules (Component of threatened lower Columbia River Chinook ESU)	Total (ocean plus inriver) AEQ exploitation rate on ESA-listed natural tules of no more than 37.0%.	Preseason projection of <37.0%. No postseason estimate was available.
LRH	14,100 adult hatchery spawners.	Preliminary projection of 53,143 adult hatchery spawners, 377% of goal.
SCH	7,000 adult hatchery spawners.	29,888 adult hatchery spawners, 427% of goal.
MCB	No FMP objective; target of 7,750 hatchery adults.	20,657 adult hatchery spawners, 267% of goal.
URB	40-45,000 natural and hatchery adults above McNary Dam, plus meet treaty Indian obligations. <i>U.S. v. Oregon</i> parties agreed to 60,000 in 2011.	161,191 natural and hatchery adults over McNary Dam, 269% of MSY target in FMP.

TABLE II-5. Performance of Chinook salmon stocks in relation to 2011 preseason conservation objectives (preliminary data).  
(Page 2 of 2)

System and Stock	2011 Conservation Objective(s)	Achievement				
<b>Columbia River Basin Fall Chinook (continued)</b>						
Snake River Fall Chinook (Threatened; component of URB)	SRFI ≤0.700 for all ocean fisheries combined (i.e., no less than a 30.0% reduction from the 1988-1993 base period exploitation rate).	Preseason SRFI projection of 0.505. Postseason estimate was not available.				
<b>Washington Coastal Chinook</b>						
Fall	Natural spawner escapement objectives as provided in state-tribal agreements; meet hatchery egg-take goals and meet treaty Indian obligations.	Based on preliminary estimates, Quillayute natural, and Hoko River natural objectives were met. Other estimates were not available.				
Spring/Summer	Natural spawner escapement objectives as provided in state-tribal agreements; meet hatchery egg-take goals and meet treaty Indian obligations.	<b>Based on preliminary estimates, the objective was not met for Quillayute spring/summer natural; estimates were not available for Grays Harbor, Queets, and Hoh spring/summer natural Chinook.</b>				
<b>Puget Sound Chinook</b> (Threatened)						
	Minor part of Washington ocean harvest; Council ocean management not directed at these stocks. Adult equivalent exploitation rate standard developed for some stocks:	Postseason estimates were not available. Preseason predictions of adult equivalent exploitation rates and spawner objectives were:				
	<u>Exploitation Rate</u>	<u>Spawner Esc.</u>	<u>ISBM</u>	<u>Exploitation Rate</u>	<u>Spawner Esc.</u>	<u>ISBM</u>
· Nooksack spring	· 7% SUS	-	≤60%	7.0%	-	25%
· Skagit summer/fall	· 50% SUS	-	≤60%	43.9%	-	34%
· Skagit spring	· 18% Total	-	≤60%	17.9%	-	25%
· Stillaguamish summer/fall	· 25% SUS	-	≤60%	15.8%	-	NA
· Snohomish summer/fall	· 21% SUS	-	≤60%	20.3%	-	24%
· Lake Wash. summer/fall	· 20% pre-term SUS	-	≤60%	17.5%	-	55%
· White River spring	· 20% pre-term SUS	-	-	19.3%	-	-
· Green River summer/fall	· 15% pre-term SUS	5,800	≤60%	9.0%	5,800	55%
· Puyallup summer/fall	· 50% Total	-	-	50.0%	-	-
· Nisqually summer/fall	· 65% Total	-	-	64.4%	-	-
· Skokomish summer/fall	· 50% pre-term SUS	-	-	49.8%	-	-
· Mid-Hood Canal fall	· 12% pre-term SUS	-	-	11.7%	-	-
· Dungeness spring	· 12% pre-term SUS	-	-	4.2%	-	-
· Elwha summer/fall	· 12% pre-term SUS	-	-	4.0%	-	-

TABLE II-6. Chinook stock status relative to overfished and overfishing criteria. A stock is overfished if the 3-year geometric mean spawning escapement is less than the minimum stock size threshold (MSST); a stock experiences overfishing if the total annual exploitation rate exceeds the maximum fishing mortality threshold (MFMT).

Chinook Stock	Spawning Escapement								Total Exploitation Rate					
	2007	2008	2009	2010	2011	3-yr Geo Mean	MSST	S <sub>MSY</sub>	2007	2008	2009	2010	2011	MFMT
Sacramento Fall	91,374	65,364	40,873	124,270	121,742	<b>85,195</b>	91,500	122,000	0.65	0.06	0.01	0.18	NA	0.78
Klamath River Fall	60,670	30,850	44,409	37,225	47,755	42,898	30,525	40,700	0.40	0.46	0.55	0.42	NA	0.71
Southern Oregon	29	13	66	52	35	49	30-45	150,000 to	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	0.78
Central and Northern OR <sup>a/</sup>	42	40	61	87	92	79	fish/mile	200,000	0.65	0.52	0.53	<b>NA</b>	<b>NA</b>	0.78
Upper River Bright - Fall <sup>a/</sup>	34,201	51,757	62,428	114,230	NA	71,731	19,182	39,625	0.57	0.54	0.67	<b>NA</b>	<b>NA</b>	0.86
Upper River - Summer <sup>a/</sup>	28,222	38,171	44,295	47,220	44,432	45,296	6,072	12,143	0.49	0.53	0.46	<b>NA</b>	<b>NA</b>	0.75
Willapa Bay - Fall <sup>b/</sup>	2,346	1,900	2,847	3,395	NA	2,638	1,696	3,393	<b>0.82</b>	<b>0.52</b>	<b>0.56</b>	<b>NA</b>	<b>NA</b>	0.78
Grays Harbor Fall <sup>b/</sup>	11,264	13,570	7,215	16,951	NA	11,840	5,694	11,388	<b>0.82</b>	<b>0.52</b>	<b>0.56</b>	<b>NA</b>	<b>NA</b>	0.78
Grays Harbor Spring	651	995	1,132	3,495	NA	1,579	546	1,092	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	0.78
Queets - Fall <sup>a/</sup>	878	3,082	3,106	4,022	NA	3,377	1,250	2,500	0.82	0.52	0.56	<b>NA</b>	<b>NA</b>	0.87
Queets - Sp/Su	352	305	495	259	NA	<b>339</b>	350	700	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	0.78
Hoh - Fall <sup>b/</sup>	1,556	2,999	2,081	2,599	NA	2,531	600	1,200	0.82	0.52	0.56	<b>NA</b>	<b>NA</b>	0.90
Hoh Sp/Su	810	671	880	828	NA	788	450	900	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	0.78
Quillayute - Fall <sup>b/</sup>	3,066	3,612	3,130	4,635	3,993	3,869	1,500	3,000	0.82	0.52	0.56	<b>NA</b>	<b>NA</b>	0.87
Quillayute - Sp/Su	502	949	555	815	600	647	600	1,200	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	0.78
Hoko -Su/Fa <sup>a/</sup>	568	483	375	793	1,504	764	425	850	0.42	0.63	0.25	<b>NA</b>	<b>NA</b>	0.78

a/ CWT based exploitation rates from PSC-CTC 2011 Exploitation Rate Analysis and Model Calibration.

b/ Queets River fall Chinook coded-wire-tag (CWT) exploitation rates used as a proxy. Exploitation rates in the terminal fisheries will differ from those calculated for Queets fall CWTs.

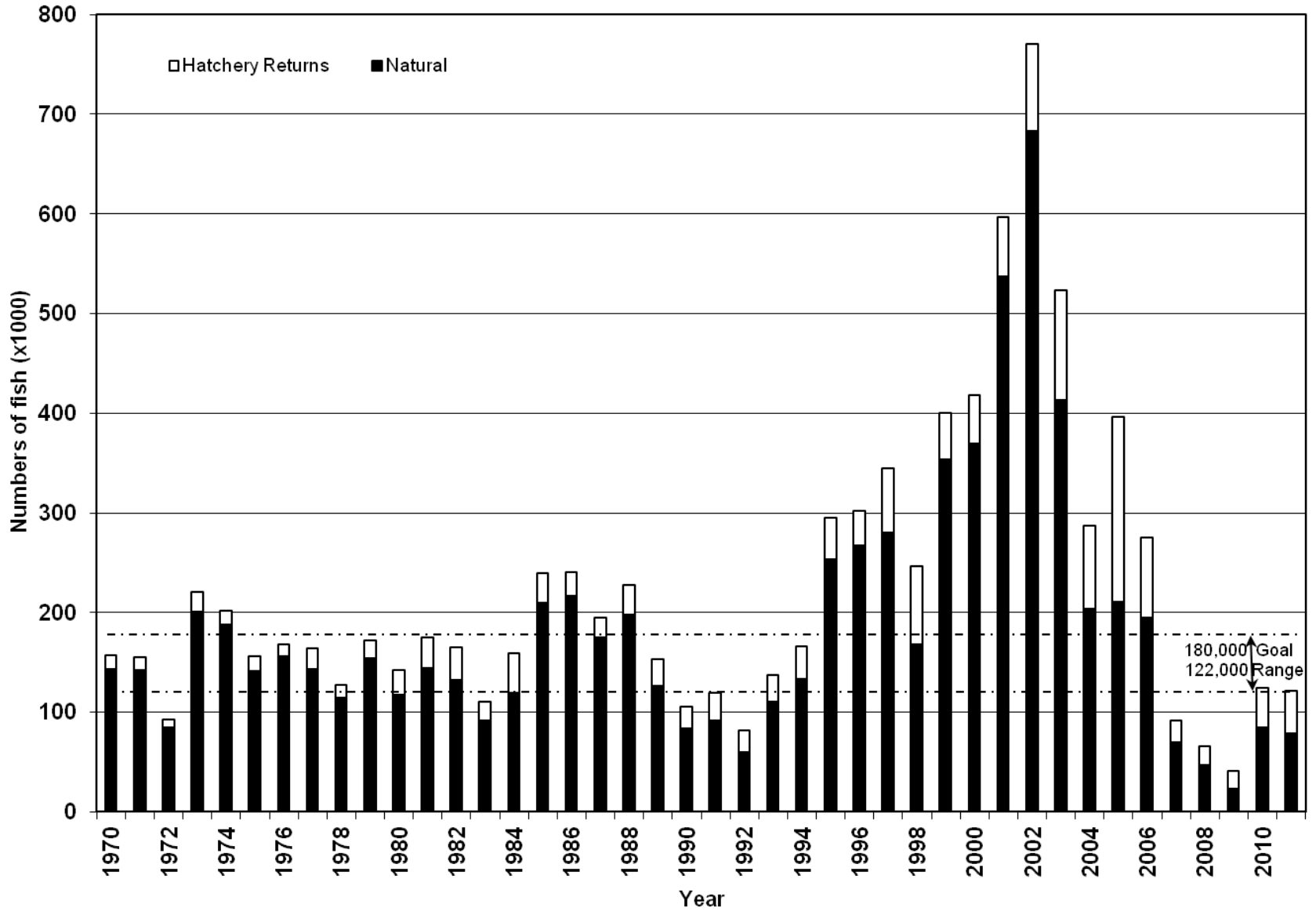


Figure II-1. Sacramento River adult fall Chinook spawning escapement, 1970-2011.

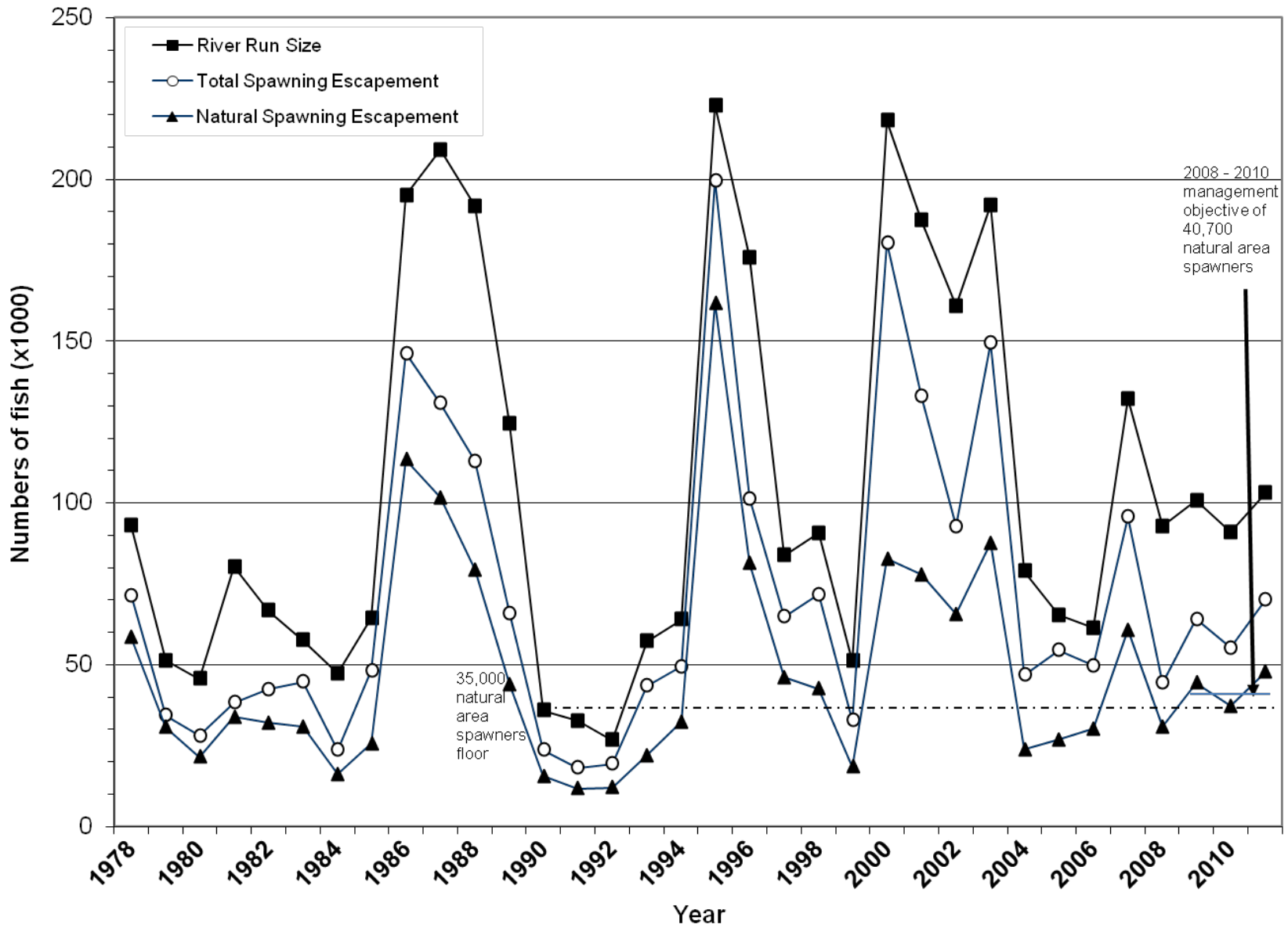


Figure II-2. Klamath River adult fall Chinook returns and spawning escapement, 1978-2011.

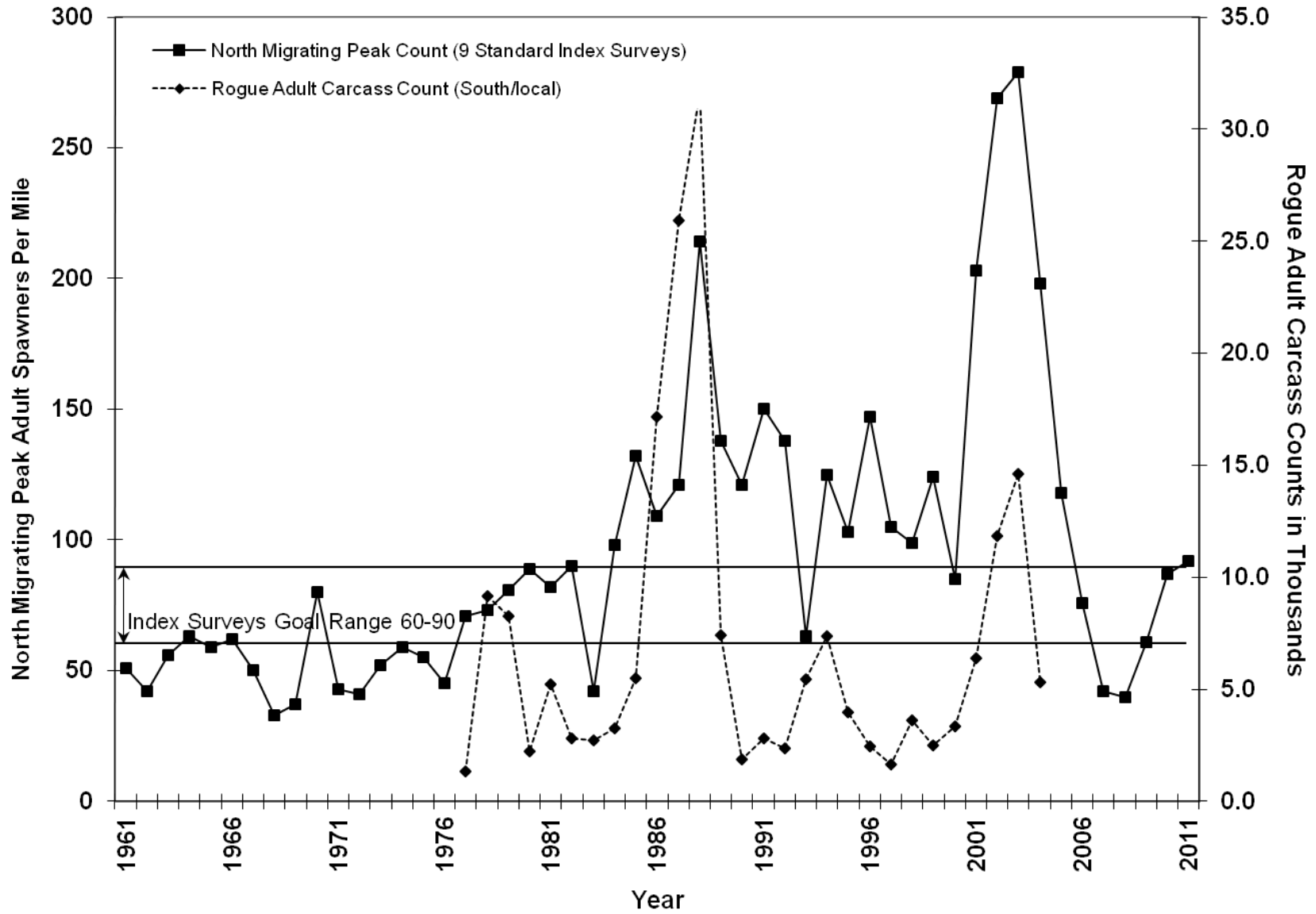


Figure II-3. Spawner indices for naturally produced Oregon coastal fall Chinook, 1961-2011.

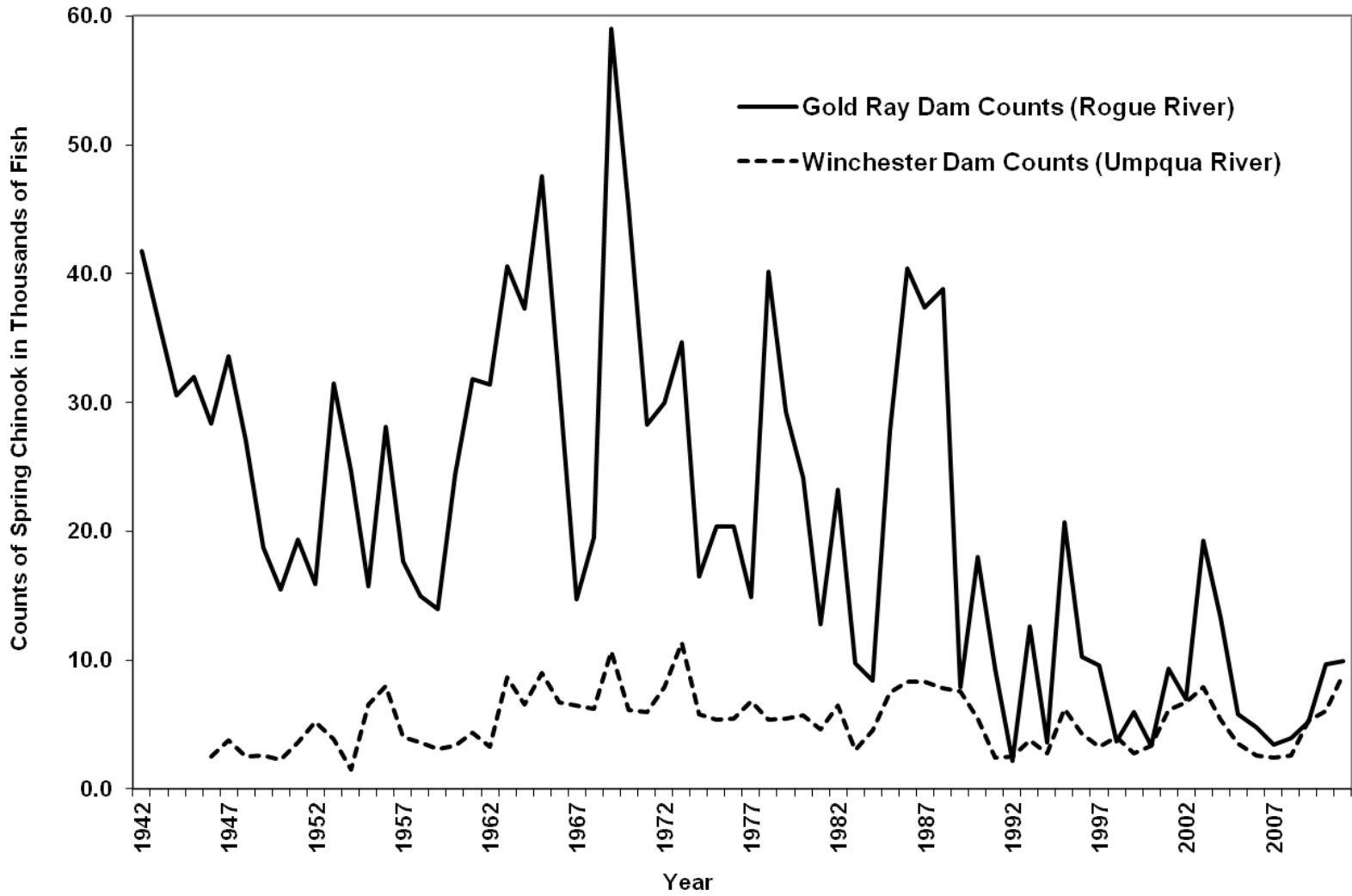


Figure II-4. Escapement indices for naturally produced Oregon coastal south/local migrating spring Chinook, 1942-2011.



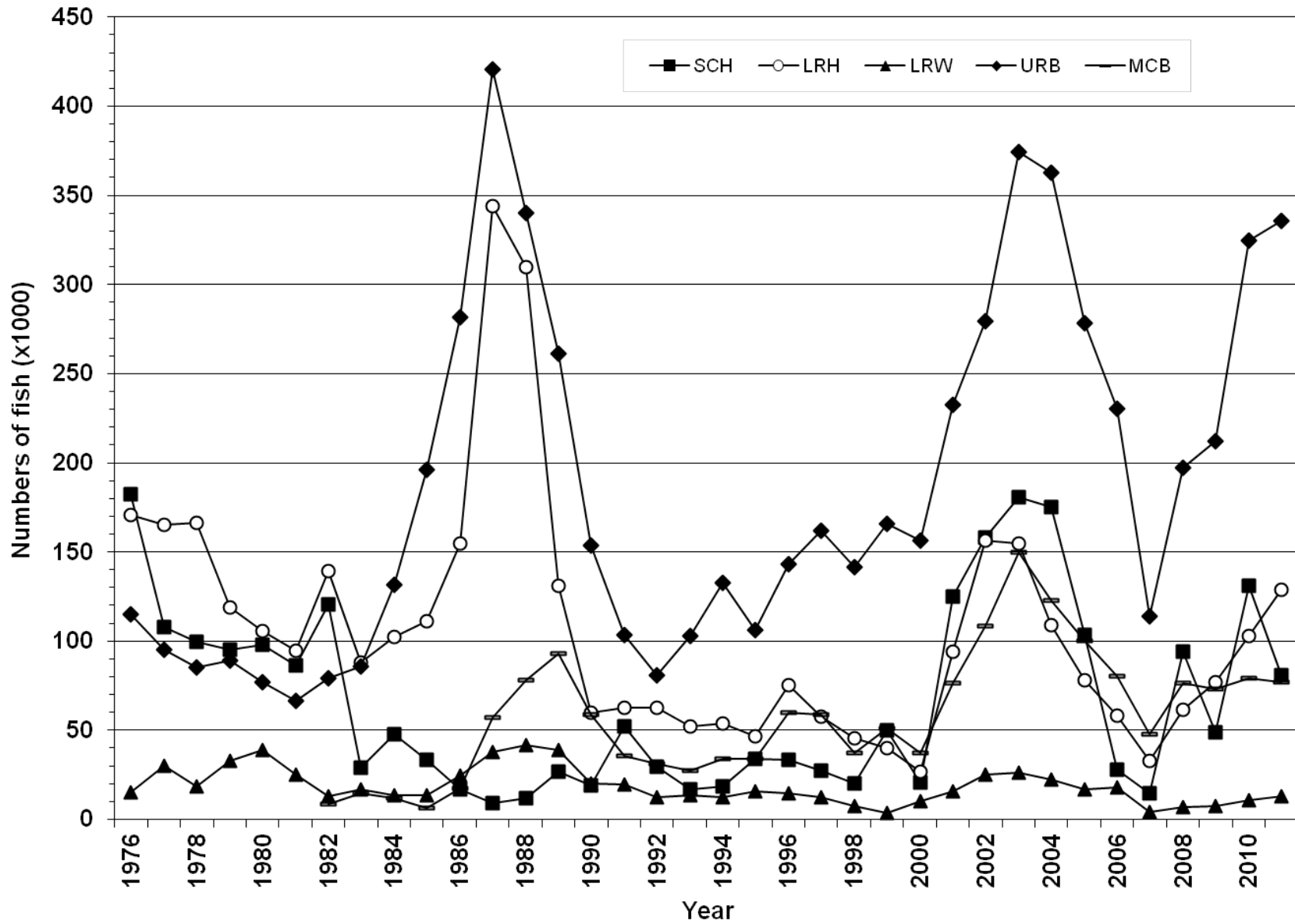


Figure II-5. Columbia River mouth adult returns of the five major fall Chinook stock groups, 1976-2011.

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## CHAPTER III

### COHO SALMON MANAGEMENT

#### OREGON PRODUCTION INDEX AREA COHO STOCKS

Oregon Production Index (OPI) area coho stocks include all Washington, Oregon, and California natural and hatchery stocks from streams south of Leadbetter Point, Washington, although stocks produced north of Leadbetter Point are also intercepted in the OPI area. The largest naturally produced coho stock is OCN coho, which includes coho produced from Oregon river and lake systems south of the Columbia River. OCN coho are managed as a stock aggregate with four identified components. Prior to 2000, NMFS listed three coho ESUs within the OPI area as threatened: CCC coho listed October 1996, SONCC coho listed May 1997, and OCN coho listed August 1998. In 2002, NMFS began an update of all its listing determinations and in January of 2006 concluded that the OCN ESU did not warrant listing under the ESA. That determination was overruled by a U.S. Court decision in 2007, and subsequently relisted by NMFS as threatened in February 2008. Columbia River natural coho were listed as endangered under the Oregon State ESA in 2002, and as threatened under the Federal ESA on June 28, 2005. The primary OPI hatchery stocks include a south migrating Columbia River (early) stock, a north migrating Columbia River (late) stock, public hatchery coho from the Oregon and northern California Coast, and formerly a small cooperative program along the southern Oregon Coast known as the Salmon Trout Enhancement Program (STEP), which was discontinued after the 2004 brood releases.

#### *Management Objectives*

In establishing ocean salmon fisheries that impact OPI area coho stocks, the Council was guided by the reasonable and prudent alternatives of NMFS 1999 Supplemental Biological Opinion and Incidental Take Statement for CCC and SONCC coho and the March 2011 NMFS ESA guidance letter for LCN natural and OCN coho, which required:

1. No directed coho fisheries or retention of coho in all commercial and recreational fisheries off California to protect endangered CCC coho.
2. Marine fishery impacts on endangered CCC and threatened SONCC coho must be no more than 13.0 percent as indicated by projected impacts on RK hatchery coho.
3. Fishery impacts on threatened LCN coho must not exceed a coastwide marine and mainstem Columbia River exploitation rate of 15.0 percent.
4. Fishery impacts on threatened OCN coho must not exceed a coastwide marine and freshwater exploitation rate of 15.0 percent.

Based on parent escapement levels and observed OPI smolt-to-jack survival for 2008 brood OPI smolts, the total allowable OCN coho exploitation rate for 2011 fisheries was no greater than 20.0 percent under the Salmon FMP (Amendment 13) and no greater than 15.0 percent under the matrix developed by the OCN Coho Work Group during their review of Amendment 13. The work group recommendation was accepted by the Council as expert biological advice in November 2000.

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

## **Regulations to Achieve Objectives**

Historically, OPI area coho stocks contributed primarily to ocean fisheries off Oregon and northern California and, to a lesser degree, Washington and B.C. The Council has prohibited retention of coho in all fisheries south of the Oregon/California border since 1996. For the adopted seasons the STT projected exploitation rates of 8.4 percent for RK coho in marine fisheries, 13.2 percent for OCN coho in marine and freshwater fisheries combined, and 10.6 percent for LCN coho in marine fisheries.

Total allowable harvest set preseason for the non-Indian commercial and recreational fisheries for coho in 2011 was 80,000, the same as in 2010. For the treaty Indian fishery, the overall quota of 42,000 coho was a slight increase from the 41,500 coho quota in 2010. Season and size limit details are presented in Tables I-1, I-2, and I-3.

### *Commercial Troll*

Commercial troll fisheries have been closed to coho retention south of Cape Falcon since 1993 with the exception of limited fisheries in 2007 and 2009.

Non-Indian commercial troll fisheries from Cape Falcon to the U.S./Canada border in 2011 had an overall quota of 12,800 coho (Table I-1). The fisheries were restricted to mark-selective coho retention.

All species treaty Indian fisheries north of Cape Falcon were not restricted to mark-selective retention of coho, and operated on an overall quota of 42,000 coho (Table I-2).

### *Recreational*

From 1994 through 1998 coho retention was prohibited in Oregon recreational fisheries south of Cape Falcon. Retention of coho has been prohibited off California since 1996 to protect ESA-listed CCC coho. Mark-selective coho directed ocean recreational fisheries have been implemented in the OPI area since 1998. Only two limited non-mark-selective recreational ocean coho fisheries have occurred in recent years, one in 2004 between Leadbetter Point and the Queets River, and one September 1-7, 2011 between Cape Falcon and Humbug Mt. Adequate abundance of marked coho in the OPI area has resulted in allowable harvests of marked coho in Oregon and Washington within constraints for OCN and LCN coho.

In 2011, after inseason adjustments, the recreational coho fisheries north of Cape Falcon operated with quotas of 5,990 in the Neah Bay subarea, 2,550 in the La Push subarea, 24,860 in the Westport subarea, and 33,600 in the Columbia River subarea (Table I-3). The recreational fishery between Cape Falcon and Humbug Mountain operated with a mark-selective quota of 15,000, July 2 through August 13 and after inseason adjustments, a non-selective quota of 5,900, September 1-7 (Table I-3).

### *Inside Harvest*

Coho retention in all California fisheries was prohibited.

The 2011 inside recreational harvest of coho in Oregon coastal streams, as in recent years, was very restricted and generally limited to areas where surplus hatchery coho returns were expected. Estimates of the 2011 inriver recreational coho harvest for most areas were not available. Historical estimates of the recreational harvest of adult coho in Oregon coastal estuaries and rivers, derived from ODFW salmon and steelhead angler catch record cards, are reported in Table III-1.

Limited recreational fisheries for naturally-produced coho (non-mark-selective) were approved in ten estuaries and three lake systems in 2011. The total catch estimate for these fisheries was 8,022 in the estuaries, 564 in Siltcoos, 190 in Tahkenitch, and 27 in Tenmile lakes.

The 2011 Columbia River non-Indian commercial gillnet fishery harvested 5,900 adult coho, compared to 76,300 coho in 2010. Select Area fisheries in both Oregon and Washington accounted for 45,500 of the total 2011 Columbia River commercial coho catch. The Columbia River treaty Indian mainstem commercial gillnet coho catch was approximately 33,300 fish, compared to the 2010 catch of 7,100 coho. All Columbia River commercial coho fisheries were non-mark-selective. Coho harvest information for Columbia River commercial and recreational fisheries are presented in Appendix B, Table B-21.

The Buoy 10 and mainstem recreational fisheries below Bonneville Dam harvested 31,100 adult coho compared to 32,200 adult coho in 2010. All Columbia River recreational fisheries in 2011 were mark-selective for coho. In 2011, Columbia River managers opened the Buoy 10 fishery August 1 with a daily bag limit of two adult salmon with no more than one Chinook through August 28. From August 29 through September 15 the daily bag limit was two salmon with no Chinook retention. Beginning September 16 the fishery ran through December 31 with the daily bag limit of two salmon for Chinook and marked coho. The upriver boundary for the fishery was at the Tongue Point, Oregon to Rocky Point, Washington line. The 2011 Buoy 10 effort totaled 49,400 angler trips (Table III-2). Historical Buoy 10 catch and effort data are provided in Appendix B, Table B-22. Recreational coho harvest estimates for Columbia River tributaries were not available.

### *Escapement and Management Performance*

The overall abundance estimate for OPI area stocks in 2011 was 753,900 compared to 818,100 in 2010 and to the recent ten-year average of 900,300 (Table III-3; Figure III-1). All Council area coho fisheries complied with quota limits except the September 1-7 Cape Falcon to Humbug Mt. non-mark-selective recreational fishery, which harvested 112 percent of its quota (Table I-6).

### **Central California Coast and Northern California Coho**

For CCC coho, redd counts have been made for the Lagunitas Creek basin since 1995 and are reported in Table B-7. As of January 5, 2011, 55 redds were counted. However, the spawning season for this watershed may not be complete and the final redd count may change. Estimates were available for escapement to Klamath River Basin hatcheries, but not for coho spawning in natural areas. In 2011, a total of 1,948 adult coho returned to Trinity River Hatchery and 477 adult coho returned to Iron Gate Hatchery. These values compare to a combined goal of 2,000 adults.

### **Oregon Coast Natural Coho**

The preliminary estimate of natural spawner escapement in 2011 to Oregon coastal river and lake systems from the Sixes River north (Oregon coast ESU) was 291,400 adult coho. This compares to 283,400 adults in 2010. Historical spawner escapement estimates of naturally produced coho are reported in Table III-1.

Preliminary information indicates the highest total natural spawning population on the Oregon coast since 1990 when the current random sampling protocol went into effect. The estimate of the natural spawning population in 2011 was 295,300, including estimates from the Rogue River, which is part of the SONCC ESU (Table III-4, Figure III-2).

Preliminary postseason estimates of combined marine and freshwater exploitation on OCN coho was 7.5 percent, less than the preseason projection of 13.2 percent, and below the 15.0 percent maximum allowed under the FMP and the OCN work group matrix. Preliminary postseason estimates of marine exploitation on RK coho was 3.8 percent, lower than the preseason projection of 8.4 percent, and below the 13.0 percent maximum ESA consultation standard.

## **Oregon Coastal Hatchery Coho**

The preliminary estimate of total coho returns to Oregon coastal public hatcheries was 4,600 adults (Table III-1). Hatchery egg-take goals were expected to be met at all public hatchery stations.

## **Columbia River Coho**

The 2011 ocean escapement of adult early and late Columbia River coho stocks was 352,000 fish, compared to 440,400 adults in 2010 (Appendix B, Table B-21). The 2011 Columbia River coho abundance was sufficient to meet all hatchery brood stock escapement needs.

Preliminary postseason estimates of marine exploitation on LCN coho was 5.8 percent, less than the preseason projected 10.6 percent.

## **WASHINGTON COASTAL COHO STOCKS**

Washington coastal coho stocks include all natural and hatchery stocks originating in Washington coastal streams north of the Columbia River to the western Strait of Juan de Fuca (west of the Sekiu River). The stocks in this group most pertinent to ocean salmon fishery management were Willapa Bay (hatchery), Grays Harbor, Quinalt (hatchery), Queets, Hoh, and Quillayute coho. Those stocks contribute primarily to ocean fisheries off Washington and B.C.

### *Management Objectives*

Preseason Management goals in 2011 for Grays Harbor and Olympic Peninsula coho stocks included achieving natural spawning escapement objectives and treaty Indian allocation requirements. The Council's preseason conservation objectives for stocks managed for natural production were based on maximum sustainable yield (MSY) spawner escapements established pursuant to the U.S. District Court order in *Hoh v. Baldrige*. The conservation objectives for the Queets, Hoh, and Quillayute rivers were developed as ranges intended to bracket estimates of MSY escapement. The range reflected the inherent uncertainty by using the high estimate of recruits-per-spawner and the low estimate of carrying capacity for the lower bound, and the low estimate of recruits-per-spawner and the high estimate of smolt carrying capacity for the upper end of the range. The ranges were further adjusted upward by 26 to 184 percent for risk aversion and habitat considerations. Annual targets for natural spawning escapement and total escapement were established by WDFW and treaty Indian tribes under the provisions of *U.S. v. Washington* and subsequent U.S. District Court orders. After an annual agreement was reached, ocean fishery escapement objectives were established for each river, or region of origin. Agreements included provisions for treaty Indian allocation requirements and inside non-Indian fishery needs. No agreements on annual spawning targets for Washington coastal coho other than those in the FMP in place during the preseason process were made in 2011.

In December 2011, Amendment 16 to the FMP was approved, which established new conservation objectives and SDC for Washington coastal coho based on either  $S_{MSY}$  estimates derived from FRAM run reconstruction programs or existing conservation objectives.

### **Regulations to Achieve Objectives**

Washington coastal coho stocks did not play a primary role in 2011 Council area ocean fishery management because of greater constraints on Interior Fraser (Thompson River, B.C.) and LCN coho stocks. Overall harvest quotas were limited to levels well below those of the late 1980s and early 1990s. All non-Indian ocean coho fisheries were mark-selective except for a September recreational coho fishery south of Cape Falcon. Treaty Indian fisheries were not mark-selective. Season and size limit details are presented in Tables I-1, I-2, and I-3.

## *Willapa Bay Coho*

### **Inside Harvest**

Historical terminal run size, harvest and escapement data for Willapa Bay coho are presented in Appendix B, Table B-24. The 2011 gillnet coho harvest in Willapa Bay totaled 48,173 fish. Based on the preseason forecast for a terminal run of 76,293 fish, the scheduled commercial fisheries were expected to harvest approximately 53,486 total coho.

From June 18, 2011 through July 31, 2011, Willapa Bay (Marine Area 2-1) was open for recreational fishing concurrent with the Ocean Marine Area 2 (ocean rules applied). From August 1, 2011 through January 31, 2012, Willapa Bay was open to recreational fishing with a daily-bag-limit of six salmon, no more than three adults. Chum and unmarked Chinook retention was prohibited. Barbed hooks were prohibited when fishing for salmon. Expected harvest in recreational fisheries based on preseason forecast abundance was 4,125 coho. Marine and freshwater recreational harvest estimates were unavailable for 2011, but for 2010, Marine Area 2-1 and freshwater recreational harvest estimates totaled 4,891 fish.

Freshwater recreational fisheries in the Willapa Bay watersheds varied in duration but were generally open for salmon fishing from August 1, 2011 through January 31, 2012 with a daily-bag-limit of six salmon, and no more than two or three adults. Chum and unmarked Chinook retention was prohibited. Single-point barbless hooks were required in all areas except for the Naselle River.

### **Escapement and Management Performance**

Willapa Bay coho were managed primarily for natural production. Estimates of natural spawning escapement for 2011 were unavailable. The most recent but still preliminary natural escapement estimate available was 77,784 in 2010, which met the WDFW escapement objective of 13,090 natural spawners. Escapement to Willapa Bay hatcheries in 2010 was estimated at 27,514 coho, which met the WDFW escapement objective of 6,100 spawners. FMP conservation objectives remain undefined for Willapa Bay coho.

The FMP conservation objective for Willapa Bay natural coho is undefined so a determination of overfished status could not be made. Estimates of exploitation rates were not available so an assessment of overfishing status was not possible, but based on exploitation rates for other Washington coastal coho stocks, it is unlikely that Willapa Bay coho were subject to overfishing (Table III-6).

## *Grays Harbor Coho*

### **Inside Harvest**

Historical terminal run size, harvest and escapement data for Grays Harbor coho are presented in Appendix B, Table B-26. The 2011 run size forecast for Grays Harbor coho, after accounting for ocean fishery impacts, was 133,054 fish (89,097 natural and 43,957 hatchery). Treaty Indian and non-Indian gillnet fisheries harvested 33,271 coho (natural, hatchery, and net-pen origin) in 2011. This included 28,101 coho in the Quinault Indian Nation fisheries, 3,628 in the non-Indian gillnet fishery, and an estimated 1,542 in the Chehalis tribal fishery. Recreational harvest estimates for 2011 were not available.

The Quinault Indian Nation operated two separately scheduled gillnet fisheries for Chinook, coho, and chum in the area of the Lower Humptulips and in the area of the Lower Chehalis, as described in Chapter II under the section labeled Grays Harbor Chinook. The expected coho fishery impacts were limited by the expected abundance and harvest of Chinook in the Lower Chehalis side of the fishery and by the expected abundance and harvest of natural coho in the Lower Humptulips side of the fishery. The

Chehalis area treaty Indian fishery caught 21,302 coho, whereas the Humptulips area treaty Indian fishery catch was 6,799 coho. The combined Grays Harbor treaty Indian coho catch was very close to the expected catch.

The non-Indian gillnet fishery in Humptulips commercial Area 2-C was open for eight days in mid-August through mid-September, in addition, two 10-hour fisheries were conducted in October. Retention of fall Chinook and marked coho was allowed. Live boxes were required and unmarked coho could not be retained. Catches totaled 1,858 Chinook and 79 coho. The non-Indian gillnet fishery in the Chehalis River commercial Areas 2A and 2D was open for four 10-hour and one 9-hour periods in October; live boxes were required, and Chinook could not be retained. Catches totaled 3,549 coho.

Estimates of catch in recreational fisheries for 2011 were unavailable. However fisheries were conducted in three general areas: Marine Area 2.2, the Chehalis River and its tributaries, and the Humptulips River. The recreational fishery in Marine Area 2.2 was open from September 16 through November 30 for two adult salmon daily, with Chinook and chum retention prohibited.

The Chehalis River and its tributaries were open for coho fishing on the following dates and areas:

- Downstream of Fuller Bridge: September 16 through October 31, 2011 with a daily limit of 6 salmon, up to 2 adults, and no Chinook or chum retention. November 1, 2011 through January 31, 2012 with a daily limit of 6 salmon, up to 2 adults, with no Chinook, chum, or unmarked coho retention.
- Fuller Bridge to the bridge crossing at the town of Porter: September 16 through November 30, 2011 with a daily limit of 6 salmon, up to 2 adults, and no Chinook or chum retention. December 1, 2011 through January 31, 2012 with a daily limit of 6 salmon, up to 2 adults, with no Chinook, chum, or unmarked coho retention.
- From the bridge crossing at the town of Porter to the high bridge on Weyerhaeuser 1000 line approximately 400 yards downstream of Roger Creek: September 16 through November 30, 2011. With a daily limit of 6 salmon, up to 2 adults, with no Chinook or chum retention. December 1, 2011 through January 31, 2012 with a daily limit 6 salmon, up to 2 adults, with no Chinook, chum, or unmarked coho retention.

The Humptulips River recreational fishery was open for coho fishing on the following dates and areas, with a bag limit of two adult salmon daily.

- From the mouth to Ocean Beach Road to October 1, 2011 to January 31, 2012 with a daily limit of 6 salmon, up to 2 adults, with no retention of chum or unmarked coho.
- From the Ocean Beach Road to the confluence of the East and West forks: September 16 through January 31, 2012 with a daily limit of 6 salmon, up to 2 adults, no more than one of which could be a Chinook, and no retention of chum or unmarked coho. Fishing with bait was prohibited in September.

### **Escapement and Management Performance**

Grays Harbor coho are managed for natural production with a spawning escapement goal of 35,400. The 2011 terminal run forecast for natural spawning coho was 89,097 adult fish and 43,958 hatchery-origin coho. An escapement estimate for 2011 Grays Harbor coho was not available. The returns of hatchery-origin coho to Grays Harbor hatchery programs were sufficient to provide for 2012 coho production goals.

The geometric mean of Grays Harbor coho escapement in 2008, 2009, and 2010 was 62,231, which was above the MSST of 18,320; therefore, Grays Harbor coho should not be considered overfished. Estimates of Grays Harbor coho exploitation rates were not available for 2010 or 2011; however, fisheries in earlier



years resulted in exploitation rates well below the MFMT (0.65); therefore, Grays Harbor coho should not be considered subject to overfishing (Table III-6).

### *Quinault River Coho*

#### **Inside Harvest**

Historical terminal run size, harvest, and escapement for Quinault River coho are presented in Appendix B, Table B-28. The treaty Indian gillnet fishery targeted hatchery Chinook and coho from early September through mid-November. A total of 38,426 coho were harvested by the gillnet fishery during the 2011 season.

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

Quinault River coho were managed for hatchery production. Escapement estimates for Quinault River coho in 2011 were unavailable. The Quinault National Fish Hatchery egg take objectives for 2011 were achieved.

### *Queets River Coho*

#### **Inside Harvest**

Historical terminal run size, harvest, and escapement for Queets River coho are presented in Appendix B, Table B-31. Queets River fisheries were managed according to preseason agreement with WDFW based on preseason abundance estimates and planned Council ocean fisheries. The fishery was structured to target returning hatchery and natural coho while also harvesting Chinook at a total tribal and non-tribal harvest rate of 40 percent. The total harvest of coho in the Treaty Indian gillnet fishery was 16,638 commercially landed fish, which was above the expected preseason catch of 9,159. The gillnet harvest was comprised of a mix of early-timed hatchery fish and normal/late-timed natural fish, with the larger than expected catch attributed to a greater hatchery return than expected. A final estimate of the hatchery/natural mix in the catch was unavailable. Coho catch estimates in the treaty Ceremonial and Subsistence fishery was not available. Recreational fisheries operated with standard September 1 through November 30 schedules in the Queets, Clearwater, and Salmon Rivers, and a standard bag limit in the Clearwater and Queets. A third adult coho was allowed in the Salmon River in Park and State waters. Recreational fisheries for Chinook operated in a similar manner as coho, except within Olympic National Park waters, where only mark-selective Chinook retention was allowed. Estimates of the non-Indian and treaty Indian recreational catches were not available.

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

The 2011 natural escapement estimate was unavailable, but the tribal catch through the season suggested the natural escapement exceeded the MSY spawner escapement objective of 5,800. The expected natural coho escapement for 2011 based on preseason modeling was 6,912, with a preseason escapement objective range of 5,800 to 14,500 natural coho.

The geometric mean of Queets River coho escapement in 2008, 2009, and 2010 was 7,885, which was above the MSST of 4,350; therefore, Queets River coho should not be considered overfished. Estimates of Queets River coho exploitation rates were not available for 2010 or 2011; however, fisheries in earlier years resulted in exploitation rates well below the MFMT (0.65); therefore, Queets River coho should not be considered subject to overfishing (Table III-6).

## *Hoh River Coho*

### **Inside Harvest**

Historical terminal run size, catch, and escapement data for Hoh River coho are presented in Appendix B, Table B-34. The 2011 terminal run size of Hoh River natural coho was projected to be 11,625. The tribal fishery targeted 35.7 percent of the terminal run. The treaty Indian gillnet fishery occurred from the week of September 1 to the week of December 31 (which included weeks 49-52 of steelhead management), as described in Chapter II under the section labeled Hoh River Chinook. The tribal fishery harvested approximately 3,418 coho, all estimated to be natural origin, including dip-in natural fish. The non-Indian recreational fishery extended from September 1 through November 30, with the area below Willoughby Creek open and a daily-bag-limit of six salmon, two of which could be adults and no mark-selective coho restriction. The portion of the river between Willoughby Creek and Morgan's Crossing opened October 16 to reduce impacts on spawning spring/summer Chinook in that reach. The river above Morgan's Crossing did not open for recreational salmon fishing. A catch estimate for the 2011 recreational fishery was not available.

### **Escapement and Management Performance**

The preliminary 2011 spawning escapement estimate for coho in the Hoh River was unavailable. Tribal catch and expected harvest rates indicate the fall coho terminal run size may be near the level anticipated pre-season. The escapement goal range established for this stock is 2,000 to 5,000. The geometric mean of Hoh River coho escapement in 2008, 2009, and 2010 was 5,035, which was above the MSST of 1,890; therefore, Hoh River coho should not be considered overfished. Estimates of Hoh River coho exploitation rates were not available for 2010 or 2011; however, fisheries in earlier years resulted in exploitation rates well below the MFMT (0.65); therefore, Hoh River coho should not be considered subject to overfishing (Table III-6).

## *Quillayute River Coho*

### **Inside Harvest**

Historical terminal run size, catch, and escapement data for Quillayute River summer and fall coho are presented in Appendix B, Table B-37. The recreational and tribal fisheries for coho were established by pre-season agreement between WDFW and the Quileute Tribe. A total of 757 (347 natural) summer coho were harvested in the Quileute Tribe's commercial, ceremonial and subsistence fisheries. An estimate of the 2011 recreational catch was unavailable.

Tribal harvest of fall coho in 2011 was 21,994. This includes 11 coho taken in the ceremonial and subsistence catch. The Quileute Tribal net fishery harvested 10,495 natural fall coho. Ten natural and one hatchery fall coho were taken in the ceremonial and subsistence fishery. An estimate of the 2011 recreational catch was unavailable.

WDFW reduced the impacts of the recreational fishery on natural summer and fall coho by requiring mark-selective fisheries for coho through October. The Quileute Tribe did not have a closure in their fishery this year, but as in past years, limited their fishery to 29 hours per week during July and August.

### **Escapement and Management Performance**

The summer coho run in the Quillayute is managed primarily for its hatchery component, which returns in August and September. The summer coho hatchery rack return was 3,800, well above the goal of 300. Natural summer broodstock was not collected for the Sol Duc hatchery. The preliminary estimate for 2011 natural summer coho escapement was 1,644.

The preliminary 2011 escapement estimate for natural fall coho was 9,512. This exceeded the MSY spawner escapement objective of 6,300, and was well within the preseason escapement goal of 6,300 to 15,800 for this stock. Sol Duc Hatchery collected an additional 15 natural fall coho for integration in their fall coho program.

The geometric mean of Quillayute fall coho escapement in 2009, 2010, and 2011 was 9,028, which was above the MSST of 6,300; therefore, Quillayute fall coho should not be considered overfished. The MFMT for Quillayute fall coho was undefined; therefore an assessment of overfishing was not possible for Quillayute fall coho; however, fisheries in earlier years resulted in exploitation rates similar to other Washington coastal coho stocks, and it is unlikely that Quillayute fall coho were subject to overfishing (Table III-6).

## **PUGET SOUND COHO STOCKS**

Puget Sound coho salmon stocks include natural and hatchery stocks originating from U.S. tributaries in Puget Sound and the Strait of Juan de Fuca. The primary stocks in this group that are most pertinent to ocean salmon fishery management were Strait of Juan de Fuca, Hood Canal, Skagit, Stillaguamish, Snohomish, and South Puget Sound (hatchery) coho. Those stocks contribute primarily to ocean fisheries off Washington and B.C.

### *Management Objectives*

The Council's previous conservation objectives were based on the Puget Sound Salmon Management Plan, which defined management objectives and long-term goals for these stocks as developed by representatives from Federal, state, and tribal agencies. Conservation objectives for specific stocks were based on either maximum sustainable production for stocks managed primarily for natural production or on hatchery escapement needs for stocks managed for artificial production. 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 were subsequently modified by the U.S. District Court Fisheries Advisory Board and later determinations of the WDFW/Tribal Technical Committee. However, annual natural management objectives may vary from the FMP conservation objectives if agreed to by WDFW and the treaty Indian tribes under the provisions of *U.S. versus Washington* and subsequent U.S. District Court orders. (see "Memorandum Adopting Salmon Management Plan"; *U.S. versus Washington*, 626 F. Supp. 1405 [1985]).

The PSC adopted a management plan for coho salmon originating in Washington and southern B.C. river systems in 2002. The plan was directed at the conservation of key management units, four from Southern B.C. (Interior Fraser, Lower Fraser, Strait of Georgia Mainland, Strait of Georgia Vancouver Island) and nine from Washington (Skagit, Stillaguamish, Snohomish, Hood Canal, Strait of Juan de Fuca, Quillayute, Hoh, Queets, and Grays Harbor). Under the plan, the United States and Canada were required to constrain total fishery exploitation rates to levels associated with the categorical status and target exploitation rates of the key management units as determined by domestic managers. Ceilings on exploitation rates by intercepting fisheries were established through formulas specified in the plan. Categorical status was employed by the PST under the 2002 Coho Agreement to indicate general ranges of allowable total exploitation rates for U.S. and Canadian coho management units in 2011. Three categories were employed: low (total exploitation rate <20 percent), moderate (total exploitation rate 20-40 percent), and abundant (total exploitation rate >40 percent).

In 2011, the Council adopted management objectives for Puget Sound coho as recommended by WDFW and tribal co-managers under provisions of *U.S. v. Washington*. The annual objectives were based on the Comprehensive Coho Agreement categorical status and associated maximum exploitation rate limits. The Council formally adopted exploitation rate management objectives for Puget Sound coho in November 2009, which were generally consistent with PSC objectives, and replaced the longstanding FMP spawning escapement objectives in 2010. For 2011, the objectives were as follows:

- Strait of Juan de Fuca (East and West): Low status 40 percent maximum exploitation rate
- Hood Canal: Normal status 65 percent maximum exploitation rate
- Skagit: Normal status 60 percent maximum exploitation rate
- Stillaguamish: Normal status 50 percent maximum exploitation rate
- Snohomish: Normal status 60 percent maximum exploitation rate

### **Regulations to Achieve Objectives**

Puget Sound coho stocks did not play a primary role in 2011 ocean fishery management considerations, since management of impacts to Interior Fraser (Thompson River, B.C. Canada) and LCN coho were more constraining. Inside fisheries, primarily in Puget Sound, were constrained to meet PSC objectives for Interior Fraser coho. The mark-selective regulations in ocean and Puget Sound recreational fisheries served to increase harvest of marked hatchery fish while minimizing impacts on natural Puget Sound coho, LCN coho, OCN coho, and Interior Fraser coho. Season and size limit details are presented in Tables I-1, I-2, and I-3.

#### *Inside Harvest*

Inside harvest of Puget Sound coho was managed on the basis of the six regional management units. 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-39. The 2011 total Puget Sound commercial catch of coho was 251,304 fish, compared to a catch of 173,104 coho in 2010. Non-Indian harvest was 28,821 coho, compared to 18,220 coho in 2010. Treaty Indian net and troll fisheries harvested 222,483 coho, compared to 154,884 coho in 2010.

Historical coho catches in the Puget Sound recreational fishery beginning in 1971 are listed in Appendix B, Table B-40. Catch estimates for the 2011 Puget Sound recreational fishery were unavailable.

#### *Escapement and Management Performance*

Puget Sound FMP conservation objectives were updated to reflect exploitation rate management objectives adopted by the Council in 2009. No 2011 postseason estimates were available for southern U.S. (SUS) harvest impacts on Puget Sound coho stocks; therefore, the 2011 preseason exploitation rate objectives could not be evaluated, although none of the Puget Sound coho management units have exceeded their annual exploitation rate limits in recent years. Preliminary 2011 escapement information indicates natural Puget Sound coho escapements were generally average or below average, but actual escapement numbers were unavailable.

Adult spawning escapements for Western Strait of Juan de Fuca coho in 2005, 2006, 2007, and 2008 were lower than the FMP conservation objective in place at the time, and therefore an Overfishing Concern was triggered, which resulted in a NMFS determination that the stock was overfished. The geometric mean of Strait of Juan de Fuca coho escapement (combined Western and Eastern; the current stock designation) in 2009, 2010, and 2011 was 9,875, which was above the MSST of 7,000 identified in FMP Amendment 16 and less than the  $S_{MSY}$  estimate of 11,000; therefore, Strait of Juan de Fuca coho should be considered not overfished/rebuilding. Estimates of Strait of Juan de Fuca coho exploitation rates were not available for 2010 or 2011; however, fisheries in earlier years resulted in an exploitation rates well

below the MFMT (0.60); therefore, Strait of Juan de Fuca coho should not be considered subject to overfishing (Table III-6).

The geometric mean of Hood Canal coho escapement in 2008, 2009, and 2010 was 11,414, which was above the MSST of 10,750; therefore, Hood Canal coho should not be considered overfished. Estimates of Hood Canal coho exploitation rates were not available for 2010 or 2011; however, fisheries in earlier years resulted in exploitation rates below the MFMT (0.65); therefore, Hood Canal coho should not be considered subject to overfishing (Table III-6).

The geometric mean of Skagit coho escapement in 2008, 2009, and 2010 was 35,711, which was above the MSST of 14,875; therefore, Skagit coho should not be considered overfished. Estimates of Skagit coho exploitation rates were not available for 2010 or 2011; however, fisheries in earlier years resulted in exploitation rates well below the MFMT (0.60); therefore, Skagit coho should not be considered subject to overfishing (Table III-6).

The geometric mean of Stillaguamish coho escapement in 2008, 2009, and 2010 was 16,329, which was above the MSST of 6,100; therefore, Stillaguamish coho should not be considered overfished. Estimates of Stillaguamish coho exploitation rates were not available for 2010 or 2011; however, fisheries in earlier years resulted in exploitation rates well below the MFMT (0.50); therefore, Stillaguamish coho should not be considered subject to overfishing (Table III-6).

The geometric mean of Snohomish coho escapement in 2008, 2009, and 2010 was 55,931, which was above the MSST of 31,000; therefore, Snohomish coho should not be considered overfished. Estimates of Snohomish coho exploitation rates were not available for 2010 or 2011; however, fisheries in earlier years resulted in exploitation rates well below the MFMT (0.60); therefore, Snohomish coho should not be considered subject to overfishing (Table III-6).

## **BRITISH COLUMBIA COHO STOCKS**

### *Management Objectives*

B.C. coho stocks were managed under the PSC management plan as described in the previous section on Puget Sound coho.

### **Regulations to Achieve Objectives**

In 2011, Interior Fraser coho were in the “low” status category, which required the total exploitation rate in SUS fisheries not to exceed 10.0 percent. This requirement constrained both Council area and inside fisheries. The preseason expectation was that the total SUS fishery exploitation rate on Interior Fraser coho would be 10.0 percent (4.1 percent in Council area fisheries). The mark-selective regulations in ocean and Puget Sound recreational fisheries served to increase harvest of marked hatchery fish while minimizing impacts on natural Interior Fraser coho.

### *Inside Harvest*

Harvest of coho in inside waters affecting B.C. coho stocks occurred in Puget Sound fisheries, which were described in the previous section of this chapter.

### *Escapement and Management Performance*

Postseason estimates of SUS inside harvest impacts on coho stocks subject to the PSC coho management plan were unavailable. Preseason expectations were for an exploitation rate of 6.0 percent for inside fisheries on Interior Fraser coho.

## COASTWIDE GOAL ASSESSMENT SUMMARY

FMP Conservation objectives for Council managed coho stocks in effect during the preseason planning process of 2011 were met for all stocks with available estimates (Table III-5). Information to assess compliance with FMP conservation objectives and ESA consultation standards in 2011 was unavailable for Grays Harbor, Queets River, Hoh, and all Puget Sound coho stocks. In 2010, Hood Canal and Snohomish coho also failed to achieve their MSY spawning escapement objectives.

### *Stock Status Determinations*

In 2011 the Council adopted new SDC for overfishing, overfished, not overfished/rebuilding, and rebuilt under FMP Amendment 16. These criteria, approved and implemented in December 2011, were:

- Overfishing occurs when a single year exploitation rate exceeds the MFMT ( $F_{MSY}$ );
- Overfished status occurs when a 3-year geometric mean spawning escapement is less than the MSST;
- Not overfished/rebuilding status occurs when a stock has been classified as overfished and has not yet been rebuilt, and the most recent a 3-year geometric mean spawning escapement is greater than the MSST but less than  $S_{MSY}$ ;
- A stock is rebuilt when the most recent a 3-year geometric mean spawning escapement exceeds  $S_{MSY}$ .

All criteria rely on the most recent estimates available, which in some cases may be a year or more in the past because of incomplete broods or data availability. The above criteria for rebuilt status are the default criteria provided in the FMP; however, alternative criteria may be developed through a rebuilding plan if warranted by stock specific circumstances. While the Amendment 16 SDC may not have been in place for all stocks during the preseason process, all relevant stocks were evaluated relative to these new SDC as required by the FMP. Stock specific reference points and recent year estimates for relevant stocks are presented in Table III-6.

All relevant coho stocks that were assessed for compliance with SDC were not overfished and no coho stocks were subject to overfishing in the most recent year(s) assessed. The Strait of Juan de Fuca coho are classified as not overfished/rebuilding, and their status continued to improve in 2010 (Table III-6).

TABLE III-1. Estimated returns to Oregon coastal streams and lakes in thousands of adult coho.

Year	Returns to Hatcheries			Winchester Dam	Number of OCN Spawners <sup>a/</sup>			Inside	Ocean
	Private	Public	STEP <sup>b/</sup>	Count <sup>c/</sup> (North Umpqua)	Lakes	Rivers	Total	Harvest Impacts <sup>d/</sup>	Escapement to Oregon Coast <sup>a/</sup>
1970-75	-	22.8	-	0.4	14.9	40.3	55.2	20.5	98.8
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	23.5	30.3	6.3	95.3
1981	117.8	21.2	-	0.1	2.5	25.5	32.6	9.9	177.0
1982	184.7	14.8	-	2.7	7.9	68.0	76.2	14.7	292.8
1983	133.9	9.5	-	1.2	3.4	18.9	22.7	6.8	173.7
1984	115.4	28.6	-	3.2	14.8	52.6	74.4	17.4	232.0
1985	332.0	15.8	-	4.0	7.6	65.3	73.9	15.7	440.3
1986	453.7	35.8	2.5	9.6	11.8	57.2	70.0	30.3	600.8
1987	119.3	12.3	0.2	2.1	4.2	25.3	30.1	7.7	171.1
1988	116.1	33.7	1.2	1.2	5.8	45.7	56.8	13.3	217.0
1989	46.9	37.3	1.2	3.0	4.8	40.6	46.4	15.1	148.9
1990	35.6	15.5	1.6	1.9	4.4	22.5	20.9	9.5	91.0
1991	35.1	39.6	4.9	3.9	7.2	38.1	45.3	31.5	160.3
1992	-	23.3	0.6	5.0	2.0	44.2	46.2	18.7	93.9
1993	-	20.2	2.0	2.3	10.1	56.1	66.3	13.3	104.1
1994	-	23.4	1.8	2.0	5.8	48.5	54.3	2.4	83.9
1995	-	25.2	0.4	2.7	11.2	57.3	68.6	3.6	100.4
1996	-	23.4	1.0	5.1	13.5	79.3	92.8	4.0	126.3
1997	-	17.7	0.2	2.2	8.6	31.6	40.2	4.3	64.6
1998	-	15.3	0.2	4.6	11.1	34.3	45.4	5.2	70.6
1999	-	13.3	0.4	3.3	13.4	51.2	64.7	2.8	84.5
2000	-	15.0	0.5	9.7	12.7	81.1	93.8	4.4	123.4
2001	-	37.4	1.4	16.0	19.7	185.2	204.9	10.1	269.8
2002	-	30.9	2.6	7.4	22.2	269.0	291.1	8.0	340.0
2003	-	15.9	3.6	10.7	16.7	235.3	252.0	6.8	289.0
2004	-	13.2	0.8	7.2	18.6	197.2	215.9	6.2	243.3
2005	-	10.0	0.3	8.9	14.7	164.6	179.4	6.1	204.6
2006	-	9.8	0.1	7.0	24.1	132.7	156.9	2.5	176.4
2007	-	3.6	0.0	2.7	9.0	71.4	80.4	1.3	88.0
2008	-	7.0	0.0	0.2	23.6	180.1	203.7	3.1	213.9
2009	-	6.1	0.0	0.7	17.3	265.3	282.7	7.4	296.9
2010	-	7.9	0.0	1.7	38.7	286.5	325.2	5.7	340.5
2011 <sup>e/</sup>	-	4.6	0.0	0.2	20.4	295.3	315.7	12.1	332.6

a/ Does not include estimates for the southern OCN component (Rogue River). Spawner escapements to rivers prior to 1990 were estimated by a nonrandom standard index of streams north of the Rogue River. A total coastwide spawner escapement methodology based on stratified random sampling (SRS) was initiated in 1990 and used through 1997 and was 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. Since 1998 a random site selection procedure based on the EPA's Environmental Monitoring and Assessment Program (EMAP) has been used.

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

c/ Natural and hatchery fish prior to 1990, marked fish only thereafter.

d/ Freshwater sport catch from ODFW salmon/steelhead angler catch record card information and represents only those coho greater than 24 inches total length through 1993, and those coho with a total length greater than 20 inches from 1994 on. Includes estimated mortality from hook-and-release..

e/ Preliminary.

TABLE III-2. Estimated weekly effort (in angler trips) and catches of Chinook and coho in the 2011 Buoy 10 recreational fisheries (all data are preliminary).<sup>a/</sup>

Week Number	Ending Date of Period	Angler Trips	Catch <sup>b/</sup>		Catch Per Trip
			Chinook	Coho	
32	Aug.-7	1,120	81	7	0.08
33	Aug.-14	3,533	549	34	0.17
34	Aug.-21	12,334	4,309	1,123	0.44
35	Aug.-28	19,862	5,689	2,460	0.41
36	Sept.-4	5,160	84	1,213	0.25
37	Sept.-11	3,137	17	1,291	0.42
38	Sept.-18	2,423	163	1,292	0.60
39	Sept.-25	1,648	27	190	0.13
40	Oct.-2	192	0	4	0.02
Total		49,409	10,919	7,614	0.38

a/ Includes boat-based and shore-based fisheries from the upstream boundary at the Tongue Point/Rocky Point line (2000), 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 1-28 for Chinook and marked coho, with the daily-bag-limit of two adult salmon, only one of which may be a Chinook. From August 29-September 15 the fishery was open for marked coho with the daily-bag-limit of two adult salmon, Chinook retention was not allowed. From September 16-December 31 the fishery was open for Chinook and marked coho, with the daily-bag-limit of two adult salmon.

b/ Includes adults and jacks as determined by CWT analysis.



TABLE III-3. Oregon production index (OPI) area coho harvest impacts, spawning, abundance, and exploitation rate estimates in thousands of fish.<sup>a/</sup>

Year or Avg.	Oregon and California Coastal Returns							Ocean	OCN Exploitation
	Ocean Fisheries <sup>b/</sup>		Hatcheries and			Columbia River	Exploitation Rate	Rate Based on	
	Troll	Sport	Freshwater Harvest <sup>c/</sup>	OCN Spawners <sup>d/</sup>	Private Hatcheries	Returns	Abundance <sup>e/</sup>	Based on OPI Abundance <sup>f/</sup>	Postseason FRAM
1970-1975	1,629.6	558.4	45.8	55.2	-	460.4	2,749.3	0.80	-
1976-1980	1,253.6	555.0	31.2	31.1	26.1	263.3	2,154.2	0.83	-
1981-1985	451.2	274.0	37.2	56.0	176.8	305.3	1,328.6	0.60	-
1986	638.9	320.6	79.3	70.0	453.7	1,549.1	3,195.4	0.37	0.44
1987	468.2	296.2	45.1	30.1	119.3	316.5	1,272.4	0.83	0.65
1988	844.7	297.2	61.1	56.8	116.1	670.9	1,918.9	0.69	0.66
1989	645.1	425.5	61.1	46.4	46.9	709.0	2,176.5	0.52	0.62
1990	275.9	357.1	28.7	22.5	35.6	196.7	987.4	0.78	0.73
1991	448.4	469.9	77.8	38.1	35.1	955.1	2,040.4	0.48	0.64
1992	67.4	256.5	51.0	44.2	-	216.1	629.6	0.51	0.63
1993	13.1	140.8	38.6	56.1	-	114.2	315.9	0.49	0.40
1994	2.7	3.0	28.2	48.5	-	169.2	267.5	0.02	0.06
1995	5.4	43.5	37.5	57.3	-	74.8	204.1	0.24	0.11
1996	7.0	31.8	45.7	79.3	-	113.0	260.3	0.15	0.06
1997	5.5	22.4	26.9	31.6	-	149.1	230.5	0.12	0.09
1998	3.5	12.8	29.4	34.3	-	168.4	270.8	0.06	0.08
1999	3.6	36.5	22.6	51.2	-	274.1	432.0	0.09	0.07
2000	25.2	74.6	33.2	81.1	-	548.2	762.4	0.13	0.04
2001	38.1	216.8	75.8	185.2	-	1,108.3	1,673.2	0.15	0.04
2002	15.0	118.7	54.0	269.0	-	499.9	972.2	0.14	0.05
2003	28.8	252.4	45.1	235.3	-	677.7	1,266.9	0.22	0.08
2004	26.2	159.3	38.1	197.2	-	442.6	904.5	0.21	0.08
2005	10.5	58.2	42.8	164.6	-	341.0	629.9	0.11	0.04
2006	4.5	47.5	29.6	132.7	-	386.2	674.1	0.08	0.08
2007	26.2	128.5	10.9	71.4	-	336.9	631.3	0.25	0.12
2008	0.6	26.4	16.0	180.1	-	494.3	769.8	0.04	0.02
2009	27.7	201.2	16.7	265.3	-	729.8	1,341.3	0.17	0.07
2010	5.8	48.8	19.6	286.5	-	440.4	848.4	0.06	0.04
2011 <sup>g/</sup>	4.2	54.7	19.3	295.3	-	352.0	760.7	0.08	0.08

a/ The OPI area includes ocean and inside harvest impacts and escapement to streams and lakes south of Leadbetter Pt., Washington.

b/ Includes estimated nonretention mortality: troll fishery--hook-and-release mortality for 1982-2005 and drop-off mortality for all years; sport fishery--hook-and-release mortality for 1994-2005 and drop-off mortality for all years.

c/ Includes returns from Salmon-Trout Enhancement Program (STEP) smolt releases through the 2007 return year, after which the program was terminated.

d/ Includes Rogue River.

e/ FRAM post season runs used after 1985 and includes OPI origin stock catches in all fisheries.

f/ Ocean fishery impacts on private hatchery stock and returns to private hatcheries are excluded in calculating the OPI area stock aggregate ocean exploitation rate index.

g/ Preliminary.

TABLE III-4. Oregon Coast Natural adult coho salmon conservation objective, fishery impacts, and spawner escapement.

Year	Fishery Impact (Total Marine and Freshwater Exploitation Rate)			Adjusted SRS Adult Coho Spawner Population Estimates in Thousands of Spawners by Stock Component <sup>a/</sup>					Adult Coho Spawners Per Spawner Habitat Mile				
	Conservation Objective <sup>b/</sup>	Preseason Projection	Postseason Estimate <sup>c/</sup>	Northern <sup>d/</sup>	North		Southern <sup>g/</sup>	Coastwide	Northern <sup>d/</sup>	North		Southern <sup>g/</sup>	Coastwide Average
					Central <sup>e/</sup>	South Central <sup>f/</sup>				Central <sup>e/</sup>	Central <sup>f/</sup>		
1990	-	-	-	2.2	5.6	13.5	1.2	22.5	2	5	8	3	6
1991	-	0.460	0.454	9.3	6.7	21.6	0.5	38.1	10	6	13	1	9
1992	-	0.420	0.511	2.4	15.4	24.4	2.0	44.2	3	13	15	5	11
1993	-	0.260	0.423	4.5	7.8	43.1	0.8 <sup>h/</sup>	55.7	5	7	27	1 <sup>h/</sup>	14
1994	≤0.20	0.111	0.068	3.5	9.8	30.9	4.3	48.5	4	8	19	11	12
1995	≤0.20	0.118	0.124	3.9	13.6	36.5	3.4	57.3	4	12	22	8	14
1996	≤0.20	0.125	0.083	3.3	18.1	52.6	5.2	79.3	4	16	32	13	19
1997	≤0.20	0.110	0.124	2.1	2.8	18.4	8.2	31.6	2	2	11	20	8
1998	≤0.13	0.119	0.078	2.6	3.3	26.1	2.3	34.3	3	3	16	6	8
1999	≤0.15	0.087	0.076	8.9	11.8	29.2	1.4	51.2	10	10	18	3	13
2000	≤0.15	0.082	0.073	17.9	14.3	37.9	11.0	81.1	20	12	23	27	20
2001	≤0.08	0.074	0.074	33.5	25.2	113.9	12.6	185.2	37	22	70	31	45
2002	≤0.15	0.123	0.123	52.5	104.0	104.1	8.4	269.0	58	89	64	20	66
2003	≤0.15	0.144	0.144	59.6	68.9	100.1	6.8	235.3	66	59	62	16	57
2004	≤0.15	0.147	0.147	28.8	42.1	101.9	24.5	197.2	32	36	63	60	48
2005	≤0.15 <sup>j/</sup>	0.111	0.111	16.5	51.4	86.7	10.0	164.6	18	44	53	24	40
2006	≤0.15 <sup>j/</sup>	0.096	0.059	24.1	21.2	83.5	3.9	132.8	27	18	51	10	32
2007	≤0.20	0.113	0.109	17.5	12.3	36.5	5.2	71.5	19	11	22	13	17
2008	≤0.08	0.069	0.020	25.6	68.1	86.0	0.4	180.1	28	59	53	1	44
2009	≤0.15	0.130	0.109	48.1	86.4	128.2	2.6	265.3	54	74	79	6	65
2010	≤0.15	0.112	0.048	55.0	56.5	171.9	3.1	286.5	61	49	106	7	70
2011 <sup>j/</sup>	≤0.15	0.132	0.075	47.8	105.0	138.6	3.9	295.3	53	90	85	10	72

a/ A spawner escapement methodology study based on SRS had been in effect from 1990 to 1997 in which coho salmon population estimates have been made for Oregon coastal river systems from the Sixes River and north. Since 1998 a random site selection procedure based on the EPA's Environmental Monitoring and Assessment Program (EMAP) has been used. Spawner population estimates include an adjustment for observation error.

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

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

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

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

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

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

h/ Unreliable estimate.

i/ The Salmon FMP specified an allowable marine and freshwater exploitation rate of 20%, however, the OCN workgroup matrix specified 15% and the Council chose to manage at the more conservative level for 2005 and 2006.

j/ Preliminary.

TABLE III-5. Performance of coho salmon stocks in relation to 2011 preseason conservation objectives (preliminary data).  
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System and Stock	2011 FMP Conservation Objective	Achievement
<b>OPI Area Coho</b>		
(Columbia River and coastal stocks south of Leadbetter Point)	Natural spawner escapement objectives as provided below; meet hatchery egg-take goals; meet treaty Indian obligations.	Hatchery egg-take goals achieved. No information available on catch allocation.
Northern California (Threatened) and CCC (Endangered)	No directed coho fisheries or retention of coho south of the OR/CA border. Marine exploitation rate $\leq$ 13.0% as indicated by R/K hatchery stocks.	No fisheries south of the California/Oregon border. Preliminary postseason estimate of 3.8%.
OCN	Combined marine and freshwater exploitation rate $\leq$ 15.0%.	Preliminary post-season estimate of 6.5%.
Columbia River Natural (Threatened)	Combined marine and mainstem Columbia River exploitation rate $\leq$ 15.0%.	A postseason estimate of mainstem Columbia River fishery exploitation was unavailable. Preliminary postseason estimate of 5.8% in marine fisheries was less than the preseason expectation of 10.6%.
<b>Washington Coast Coho</b>		
	Natural spawner escapement objectives as provided below and in state/tribal agreements; meet hatchery egg-take goals; meet treaty Indian obligations.	Hatchery egg-take goals achieved. No information available on catch allocation.
Grays Harbor	35,400 natural adult spawners.	Escapement estimate was unavailable; pre-season projection was 81,400 ocean escapement.
Queets	5,800 to 14,500 natural adult spawners.	Escapement estimate was unavailable; pre-season projection was 10,500 ocean escapement
Hoh	2,000 to 5,000 natural adult spawners.	Escapement estimate was unavailable; pre-season projection was 10,000 ocean escapement
Quillayute Fall	6,300 to 15,800 natural adult spawners.	Preliminary postseason escapement estimates was 9,512.

TABLE III-5. Performance of coho salmon stocks in relation to 2011 preseason conservation objectives (preliminary data).  
(Page 2 of 2)

System and Stock	2011 FMP Conservation Objective	Achievement
<b>Puget Sound Coho</b>	Stepped exploitation rate objectives; meet hatchery egg-take goals; meet treaty Indian obligations and inside non-Indian fishery needs for six management units.	Data not available for 2011 natural spawner escapements. Hatchery egg-take goals likely will be met.
Strait of Juan de Fuca	≤40% total exploitation rate.	Preseason expectation of an 11% total exploitation rate; postseason estimate unavailable.
Hood Canal	≤65% total exploitation rate.	Preseason expectation of a 40% total exploitation rate; postseason estimate unavailable.
Skagit	≤60% total exploitation rate.	Preseason expectation of a 35% total exploitation rate; postseason estimate unavailable.
Stillaguamish	≤50% total exploitation rate.	Preseason expectation of a 26% total exploitation rate; postseason estimate unavailable.
Snohomish	≤60% total exploitation rate.	Preseason expectation of a 26% total exploitation rate; postseason estimate unavailable.

TABLE III-6. Coho stock status relative to overfished and overfishing criteria. A stock is overfished if the 3-year geometric mean spawning escapement is less than the minimum stock size threshold (MSST); a stock experiences overfishing if the total annual exploitation rate exceeds the maximum fishing mortality threshold (MFMT).

Coho Stock	Spawning Escapement					3-yr Geo Mean	MSST	S <sub>MSY</sub>	Total Exploitation Rate					MFMT
	2007	2008	2009	2010	2011				2007	2008	2009	2010	2011	
Willapa Bay	18,009	16,419	47,333	77,784	NA	39,246	Undef	Undef	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	Undef
Grays Harbor	25,121	34,054	69,222	102,237	NA	62,231	18,320	24,426	0.31	0.31	0.33	<b>NA</b>	<b>NA</b>	0.65
Queets	4,680	4,629	9,404	11,261	NA	7,885	4,350	5,800	0.35	0.37	0.43	<b>NA</b>	<b>NA</b>	0.65
Hoh	3,072	2,461	6,595	7,864	NA	5,035	1,890	2,520	0.48	0.43	0.52	<b>NA</b>	<b>NA</b>	0.65
Quillayute Fall	6,947	6,252	7,863	9,837	9,512	9,028	4,725	6,300	0.42	0.37	0.50	NA	NA	Undef
Juan de Fuca	8,045	3,339	14,957	19,282	NA	9,875	7,000	11,000	0.21	0.13	0.30	<b>NA</b>	<b>NA</b>	0.60
Hood Canal	46,658	11,756	26,927	4,697	NA	11,414	10,750	14,350	0.52	0.63	0.59	<b>NA</b>	<b>NA</b>	0.65
Skagit	51,972	24,093	60,798	31,090	NA	35,711	14,875	25,000	0.37	0.32	0.31	<b>NA</b>	<b>NA</b>	0.60
Stillaguamish	38,732	12,938	22,179	15,172	NA	16,329	6,100	10,000	0.25	0.23	0.28	<b>NA</b>	<b>NA</b>	0.50
Snohomish	117,736	36,015	98,945	49,100	NA	55,931	31,000	50,000	0.25	0.28	0.26	<b>NA</b>	<b>NA</b>	0.60

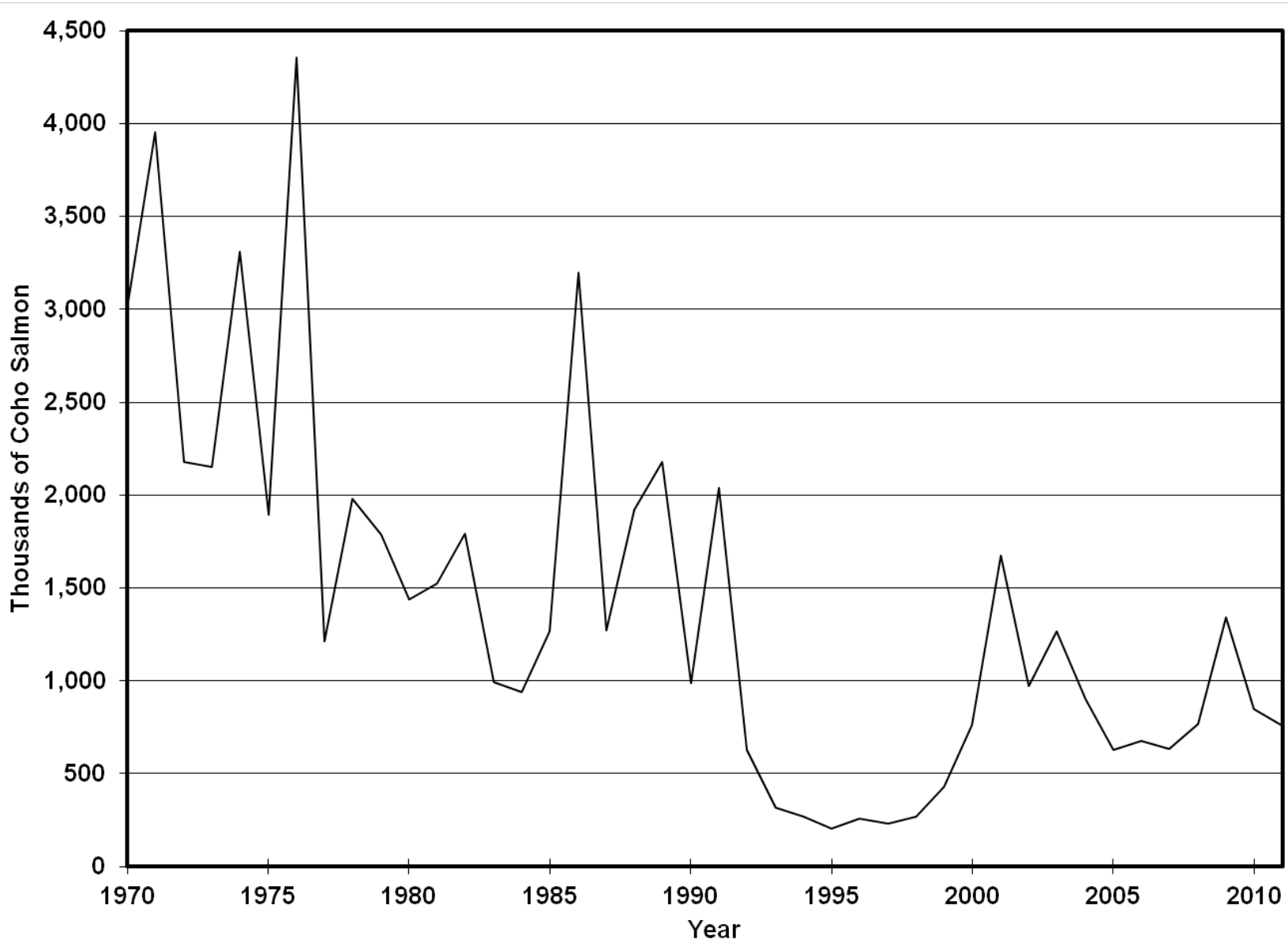


Figure III-1. Oregon Production Index (OPI) area coho abundance estimates by stratified random surveys (SRS) accounting methods, 1970-2011.

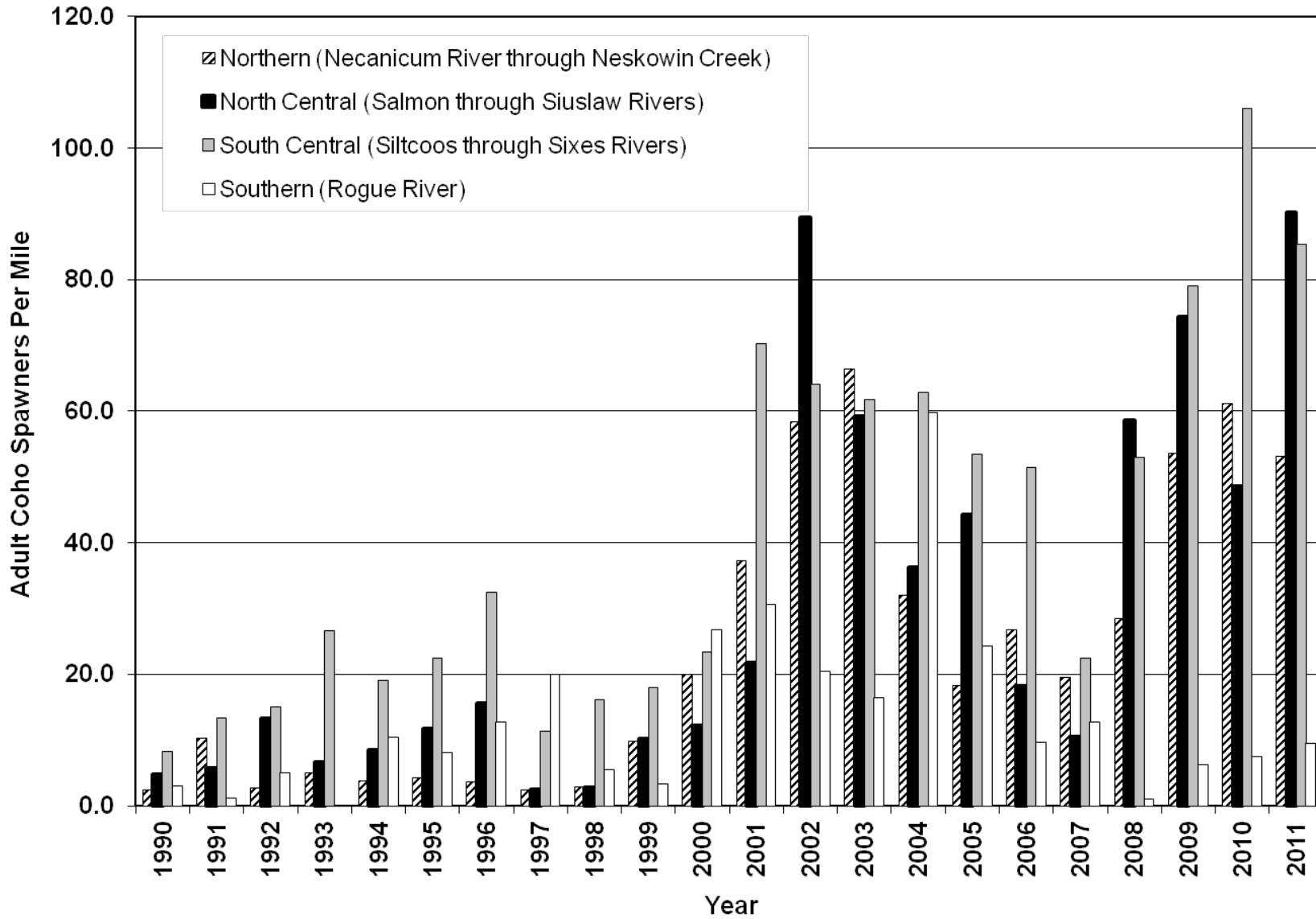


Figure III-2. Oregon coastal natural (OCN) adult coho spawners per habitat mile by coastal region based on SRS accounting methods, 1990-2011.

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## CHAPTER IV

### *SOCIOECONOMIC ASSESSMENT OF THE 2011 OCEAN SALMON FISHERIES*

**SUMMARY:** Total 2011 exvessel value of the Council-managed non-Indian commercial salmon fishery was \$9.2 million, the highest total since an inflation-adjusted \$12.5 million in 2007, largely thanks to California's best commercial salmon fishery since that year. The exvessel value of the commercial fishery in 2011 was 41 percent above the 2006-2010 inflation-adjusted average of \$6.5 million, and 85 percent below the 1979 through 1990 inflation-adjusted average of \$60.7 million. The coastwide average exvessel price for Chinook in 2011 was \$5.35 per pound; six percent below last year's inflation-adjusted average. At \$2.09 per pound, average 2011 West Coast coho prices were 6 percent lower than last year's inflation-adjusted average. The preliminary number of vessel-based ocean salmon recreational angler trips taken on the West Coast in 2011 was 211,200, an increase of sixteen percent from last year, but 65 percent below the 1979 through 1990 average. Total West Coast income impacts associated with recreational and commercial ocean salmon fisheries for all three states combined in 2011 were estimated at \$31.9 million, the highest level since \$41.8 million (adjusted for inflation) in 2007. Total income impacts in 2011 were 22 percent above the prior year's inflation-adjusted level of \$26.1 million, but still the fourth lowest on record. The first, second and third lowest income impacts on record (adjusted for inflation) were recorded in 2008 (\$7.5 million), 2009 (\$17.9 million), and 2010 (\$26.1 million), respectively.

#### **ALLOCATION OF THE SALMON RESOURCE**

Salmon management by the Council involves numerous allocation issues including:

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

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

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

Decisions on allowable harvests for a particular stock often have implicit allocation effects on the geographic distribution of salmon harvest. Seasons may be more restrictive along a particular area of the coast to protect a depressed stock encountered in that area at a higher rate than other areas. The geographic distribution of harvest opportunity along the coast involves balancing the often conflicting objectives of maximizing ocean harvest and fairly distributing the responsibility for resource conservation. A brief outline of the regulatory objectives which shaped the 2011 season is provided in Chapter I; and an assessment of success in meeting the objectives is provided in Chapters II and III.

## COMMERCIAL SALMON FISHERIES

### *West Coast Non-Indian Commercial Ocean Fishery*

#### **In-season Price Trends**

Monthly exvessel price data provide information on seasonal price trends (Table IV-1). Coastwide average exvessel prices for Chinook and coho in 2011 were \$5.35 and \$2.09 per pound, respectively. California Chinook prices were at their highest in October, averaging more than \$6.80 per pound. Oregon Chinook prices were at their highest in April, averaging \$6.83 per pound. Washington average Chinook prices were also highest in April at \$5.96 per pound. California and Washington average Chinook prices were at their lowest in August, and Oregon average Chinook prices were lowest in July.. For the season, exvessel Chinook prices in Washington, Oregon and California averaged \$5.17, \$5.96 and \$5.12 per pound, respectively. Coho prices in Washington and Oregon averaged \$2.10 and \$2.01 per pound, respectively.

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

Available information on Chinook and coho exvessel price and value by species, compiled from state fish receiving tickets and expressed both in nominal terms and inflation-adjusted 2011 dollars, is presented in Tables IV-2, IV-3, and IV-4. Data on pink salmon are provided in Table IV-5. The gross domestic product implicit price deflator, developed by the Bureau of Economic Analysis, was used to adjust nominal values for inflation (Appendix D, Table D-22). Weights of landings by species and port for Chinook and coho are presented in Tables IV-6, IV-7 and IV-8. These tables and the following discussion describe the non-Indian commercial fishery in Council management areas and associated state territorial ocean area waters.

Total 2011 exvessel value of the Council-managed non-Indian commercial salmon fishery was \$9.2 million, an increase of 26 percent over the prior year (adjusted for inflation). Exvessel value was nearly six times above its 2009 level (\$1.6 million) and 85 percent lower than the 1979 through 1990 inflation-adjusted average of \$60.7 million (including pinks), and 41 percent above the recent five-year (2006-2010) inflation-adjusted average of \$6.5 million.

After enjoying its first commercial salmon fishery in three years in 2010 (although still heavily constrained by SRFC management objectives), in 2011 California achieved \$5.1 million in exvessel landings value of Chinook. While greatly exceeding the California commercial ocean salmon catch of \$1.3 million (inflation-adjusted) in 2010, it was still well below both the inflation-adjusted \$8.4 million landed in 2007 and the 1979-2010 inflation-adjusted average of \$17.6 million.

The 2011 exvessel value for the Oregon commercial catch of Chinook and coho of \$2.4 million was the second-highest level since 2007 and 23 percent above the 2006-2010 inflation adjusted average. Still the 2011 harvest was down by an inflation-adjusted 16 percent from the prior year, and 88 percent below the 1979-1990 inflation-adjusted average of \$19.1 million.

The 2011 exvessel value of the Washington non-Indian ocean commercial catch of Chinook and coho of \$1.7 million was down 47 percent from last year's inflation-adjusted value of \$3.2 million. The average inflation-adjusted exvessel value of commercial landings in Washington of \$2 million over the past three years (2009-2011) is higher in inflation-adjusted terms than in any year since 1990, largely thanks to the relatively high value of landings last year. However the 2009-2011 average is still 76 percent below the 1979 through 1990 inflation-adjusted average of \$8.6 million.

The 2011 average West Coast ocean harvest Chinook price of \$5.35 per pound is the fourth highest in nominal terms reported since 1979, but trending lower from \$6.96, \$5.70 and \$5.54 per pound reported in 2008, 2009 and 2010, respectively. Adjusted for inflation, the average Chinook price over the last six years (2006 through 2011) was \$5.91 per pound. Chinook prices have not been this high since 1979, when the average inflation-adjusted price was \$6.87 per pound. One of the main reasons prices have been high in recent years is due to the relatively restricted fishing opportunities (see Chapter I and Appendix C for details). Although the 2011 Chinook price was 11 percent below the recent five year (2006-2010) average of \$6.02 in inflation-adjusted terms, it was 11 percent above the 1979-1990 average of \$4.82, and 33 percent above the 1979-2010 average of \$4.03. At \$2.09 per pound, 2011 average West Coast coho prices were down six percent from last year in inflation-adjusted terms, one percent lower than two years ago, and 33 percent lower than the 1979-1990 inflation-adjusted average.

In terms of numbers of fish, the 2011 coastwide, non-Indian commercial Chinook harvest of 128,600 fish represents an increase of 29 percent over last year (Figure IV-1). The number of Chinook harvested in 2011 was 81 percent below the 1976-2010 long-term average of 673,700. Historically, the 2008, 2009 and 2010 Chinook harvests were the first, second and third lowest, respectively, on record. In 2011 the coastwide average weight per Chinook (13.3 pounds) was five percent higher than in the prior two years (12.7 pounds in 2010 and 12.6 pounds in 2009) and three percent above the previous five years' (2006-2010) average weight (Appendix D Tables D-1, D-2, and D-3).

Non-Indian commercial Coho catch in 2011 was 3,500 fish coastwide, an increase of 12 percent over the prior year and 64 percent above the 2008 catch (2,100), but 92 percent below the 2009 coho harvest level (42,000). The coastwide average weight per coho (5.6 pounds) was the lowest since 1999 (5.3 pounds), 20 percent lower than the prior year (7 pounds) and similar to the long-term average (1979-2010) of 5.6 pounds. The highest average weights during that period were 8.5 pounds in 2006 and 8.4 pounds in 2008. Coastwide coho exvessel value was \$41,000 in 2011, 17 percent lower than the inflation-adjusted value the prior year (\$49,000), and a decrease of 93 percent from \$561,000 (inflation-adjusted) recorded in 2009 (Figure IV-4).

West Coast ports with the most Chinook landings (by weight) in 2011 were Fort Bragg (36 percent), Coos Bay (13.5 percent) and San Francisco (12.5 percent). By comparison, in 2010, Westport (32 percent), Fort Bragg (14.8 percent) and Newport (14.7 percent) were the leading ports. In 2011, areas north of Cape Falcon accounted for only about 21 percent of coastwide Chinook harvest by weight, compared with 51 percent in 2010, 95 percent in 2009 and 84 percent in 2008.

Compared with last year, Chinook harvest by weight in 2011 was up four-fold in California but down by 21 percent in Oregon and nearly 40 percent in Washington. Compared with last year, the 2011 Coho harvest by weight was down nearly 63 percent in Oregon, but up nearly 15 percent in Washington. Commercial harvest of coho in California has been prohibited since 1992.

### **Ocean Commercial Salmon Harvesters**

Based on Pacific Coast Fisheries Information Network (PacFIN) data, a total of 802 vessels participated in the West Coast commercial salmon fishery in 2011. This is 25 percent more than participated in 2010 (642), two-and-a-half times the number that participated in 2009 (313), and three-and-a-half times the number participating in 2008 (221). However the 2011 total was 20 percent below 2007's total of 1,107 vessels. Note that these coastwide vessel counts are lower than the totals derived from summing Appendix D state-level tables (Tables D-4, D-5, and D-6) because vessels may be counted in more than one state and because of differences in the degree of completeness at the time the data were summarized for this report.

In 2011, 462 vessels made salmon landings in California compared with 215 vessels in 2010 and zero vessels in 2008 and 2009. In 2007, there were 601 vessels active in California (Table D-4). In Oregon, the active fleet decreased by 68 vessels in 2011, to 302 vessels compared to 370 vessels the prior year (Table D-5). The number of active vessels in Washington decreased from 116 vessels last year to 112 vessels in 2011 (Table D-6). Coastwide, the number of limited entry salmon permits issued in 2011 decreased by 18 from the previous year to 2,551. Landings were made on 34 percent of all permits in 2011, up from 27 percent in 2010, 13 percent in 2009 and nine percent in 2008. Years 2008 and 2009 are the two lowest vessel participation years on record (1982-2011). From 1982 to 1993 an average of 5,193 of 7,942 total permits (65 percent) were used on an annual basis. Harvest opportunity began declining substantially after that time, and some permits were subsequently purchased in a buyback program.

In 2011, the coastwide average per vessel, inflation-adjusted exvessel value of salmon landings increased slightly compared to 2010, to \$10,500 per vessel. Compared to last year, 2011 average per vessel exvessel revenue was up 87 percent in California, and 3 percent in Oregon, but down 45 percent in Washington. Some caution needs to be exercised in interpreting average per vessel exvessel revenue. For example, the averages may be influenced as much by a disproportionate change in the number of small or large harvesters from one year to the next as by a change in the average revenues of those vessels remaining in the fishery.

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

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

Treaty Indian commercial fisheries off Washington operate under regulations established by the Council. While some of the treaty Indian harvest is for ceremonial and subsistence purposes, the vast majority of the catch is sold commercially. 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. In 2011 the treaty Indian ocean troll fishery harvested 34,500 Chinook (380,300 pounds) and 13,600 coho (77,600 pounds), compared with 34,200 Chinook (298,500 pounds) and 11,400 coho (80,000 pounds) in 2010, and 12,800 Chinook (103,700 pounds) and 60,600 coho (345,800 pounds) in 2009 (Tables A-15 and D-3). For 2011 the preliminary exvessel value of Chinook and coho landed in the treaty Indian ocean troll fishery was \$1.7 million, compared with inflation-adjusted exvessel values of \$1.37 million in 2010 and \$1.0 million in 2009 (values based on PacFIN data).

### *Columbia River Commercial Fishery*

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

Total 2011 exvessel value of treaty Indian and non-Indian commercial salmon harvested in the Columbia River was \$10.4 million. This was 2 percent above the 2010 level of \$10.2 million and 73 percent above the inflation-adjusted 2009 level of \$6.0 million. Total exvessel value for non-Indian commercial salmon harvested in the Columbia River in 2011 was \$4.8 million compared with inflation-adjusted \$5.2 million in 2010 and \$3.7 million recorded in both 2008 and 2009 (Table IV-9).

Total 2011 exvessel value of treaty Indian salmon harvested in the Columbia River and sold on fish tickets was \$5.6 million. This is twelve percent above the inflation-adjusted level in 2010 of \$5.0 million and nearly two-and-a-half times the 2009 value of \$2.3 million. Note that these values include only those sales made to licensed fish buyers. Treaty Indian fisher sales to the public are accounted for in harvest monitoring reports (Table B-20), but estimates of the pounds and value of such sales are not included in Table IV-9.

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

Information on 2011 Puget Sound and Washington coastal inside fisheries is preliminary. Based on PacFIN data, the 2011 exvessel value reported for all salmon species taken in the commercial non-Indian fisheries in Puget Sound and Washington coastal inside fisheries (excluding the Columbia River) was \$12.2 million. Of this, \$2.1 million were Chinook and coho. In 2010, the total inflation-adjusted exvessel value of the commercial non-Indian salmon fisheries in these areas was \$11 million for all salmon species, of which \$1.2 million were Chinook and coho. The 1981 through 2010 inflation-adjusted annual average exvessel value was \$17.5 million, of which on average approximately \$4.3 million were Chinook and coho.

The preliminary 2011 exvessel value reported to PacFIN (as of January 20, 2012) for all salmon species taken in the commercial treaty Indian fisheries in Puget Sound and Washington coastal inside fisheries (excluding the Columbia River) was \$15.9 million. Of this, \$6.9 million were Chinook and coho. In previous years, substantial additional landing reports have come in after publication of this review. The updated value for 2010 is \$18.8 million for all salmon species, of which \$5.6 million were Chinook and coho (inflation-adjusted). The 1981 through 2009 inflation-adjusted annual average exvessel value is \$22.2 million, of which on average \$8.3 million were Chinook and coho.

### *Klamath River Fisheries*

Commercial sales in the Yurok and Hoopa Valley Reservation Indian fall gillnet fisheries in the Klamath River occurred in 1987-1989, 1996, 1999-2004, and 2007-2011. Average commercial catch of fall Chinook was about 17,200 in those years, most of which occurred in the estuary. Commercial sales also occurred in spring gillnet fisheries in 1989, 1996, 2000-2004, and 2007-2011, with an annual average of about 1,200 fish sold. The 1989 harvest of 27,700 Chinook was sold for \$852,000 (\$1.4 million adjusted to 2011 dollars) and had an average weight per fish of 15.4 pounds. In 1996 3,129 spring Chinook and 40,147 fall Chinook were harvested, the value at first sale was estimated at \$525,000 (\$717,000 adjusted to 2011 dollars). The average weight per fish landed in 1996 was 13.5 pounds. Records were not available for the weight and value of harvests after 1996 as each Indian fisher now markets their fish independently. The fishery has occurred in most recent years with the exception of 2005 and 2006. The commercial fall Chinook harvest was approximately 15,600 Chinook in 2011, compared to 15,300 fall Chinook in 2009. Spring Chinook commercial harvest was 33 fish in 2011 compared with 259 spring Chinook in 2010 (Appendix B, Table B-5).

## **CEREMONIAL AND SUBSISTENCE SALMON FISHERIES**

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

## RECREATIONAL SALMON FISHERIES

### *Ocean*

The preliminary number of vessel-based ocean salmon recreational angler trips taken on the West Coast in 2011 was 211,200, an increase of 16 percent over 2010, and 12 percent over the 2009 level, but 65 percent below the 1979 through 1990 annual average. Compared with 2010, the preliminary estimates of the number of trips taken in 2011 decreased by 9 percent in Oregon and 12 percent in Washington. California effort was up 87 percent compared with last year; however it was still only about half the long-term average level over 1979-2010. (Note that Washington effort estimates shown in Tables IV-10 and IV-13 differ from those in Tables I-4 and Appendix A Table A-17 because the former exclude bank effort from the Columbia River north jetty.)

Recreational salmon fishing takes place primarily in two modes: (1) anglers fishing from privately owned pleasure craft, and (2) anglers employing the services of charter vessels. In general, success rates on charter vessels tend to be higher than success rates on private vessels. Small amounts of shore-based effort directed toward ocean area salmon also occur from jetties and piers. Coastwide, the proportion of angler trips taken on charter vessels in 2011 increased slightly to 27 percent compared with 25 percent of trips in 2010 and 23 percent in 2009. Underlying this coastwide trend was a 29 percent increase in the proportion of charter trips in Oregon, a 13 percent increase in California and a 5 percent decrease in Washington. Figure IV-5 and Tables IV-10, IV-11, IV-12, and IV-13 display details of effort and catch by port area and mode for each state.

### **California**

The number of ocean recreational salmon trips in California in 2011 was the highest number in any year since 2007. The number of salmon trips was higher in all areas in 2011 than in the prior year: more than triple the prior year's total in Crescent City and Eureka; more than double the prior year in Fort Bragg; and up 50 percent or more in San Francisco and Monterey. A total of 49,000 Chinook were caught in California on a total of 91,100 trips, for a success rate of 0.538 fish per trip. The charter industry's share of California recreational salmon trips in 2011 was about 32 percent, which was 13 percent above last year's share, and 17 percent above the average share in the recent past (2006-2010) (Table IV-10, Table IV-11 and Figure IV-5).

### **Oregon**

Ocean recreational salmon trips in Oregon in 2011 were down nine percent to 48,800 trips compared with an estimated 53,300 angler trips in 2010 (Tables IV-10 and IV-12). Total trips in 2011 were down 42 percent compared with 2009, and 24 percent below the most recent five year average (2006-2010). Compared to last year, effort was down 28 percent in Astoria, 20 percent in Newport and 5 percent in Tillamook. In the southern Oregon ports, effort was up 20 percent in Coos Bay and 5 percent in Brookings. The charter industry's share of Oregon recreational salmon trips in 2011 was about 12 percent, which is about 8 percent above the trend of the recent past (2006-2010) (Table IV-10, Table IV-12 and Figure IV-5).

From 1984 to 1993, on average coho accounted for 87 percent of the annual Oregon recreational ocean salmon catch. From 1994 through 1998 the lack of opportunity to retain coho south of Cape Falcon generally resulted in much lower angler success rates. With the opportunity to retain coho in mark-selective fisheries south of Cape Falcon beginning in 1999, salmon retention rates increased 77 percent, from 0.246 salmon per angler-day in 1998 to 0.435 in 1999. From 2002 through 2009, retention rates ranged between 0.436 and 1.079 salmon per angler-day. The retention rate for 2011 was at the lower end of this range at 0.492, but 13 percent higher than the retention rate of 0.436 in 2010. In 2011 (as in 2010) coho contributed almost 79 percent of the total Oregon recreational ocean salmon catch.

## Washington

In 2011, 71,400 ocean angler trips were taken on vessels on the Washington coast, a decrease of 12 percent from the 80,800 trips taken in 2010, but slightly above the recent five year (2006-2010) average. About 31 percent of Washington angler trips were taken on charter vessels in 2011, down 5 percent from the portion in 2010, and 12 percent below the recent five year average share of 35 percent (Table IV-10, Table IV-13 and Figure IV-5).

The angler success rate (in terms of retained fish per angler-trip) was 0.96 in 2011, up six percent from 0.905 in 2010, but 10 percent below the recent five year (2006-2010) average success rate. Note that these figures do not include angler effort that occurs from the ocean side of the Columbia River jetty, or angler effort in the state managed Area 4B add-on fishery, when open.

In order to increase angler participation in non-salmon recreational fishing (e.g., bottomfish trips) and to extend the length of the salmon season, partial-week closures were instituted in the recreational fishery north of Cape Falcon beginning in 1985. Sunday through Thursday salmon openings were used beginning in 1996 in the Westport and Columbia River port areas. The Neah Bay and La Push areas were generally open seven days a week, until more recently. In 2011 the recreational salmon fishery was open seven-days-a-week in the Columbia River area (south of Leadbetter Point). Most open areas north of Leadbetter Point were open seven-day-a-week throughout the season, with the exception of Queets River to Leadbetter Point, which was open Sunday through Thursday during June 26–July 31 and August 19-28. In 2011 there were 42,400 bottomfish trips north of Cape Falcon north of Cape Falcon, a 7 percent increase from 39,600 trips in 2010 (Table IV-14). All port areas with the exception of Neah Bay experienced an increase in bottomfish trips compared with 2010.

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

In 2011 anglers fishing from private and charter boats made a total of 47,700 trips in the Buoy 10 fishery. This effort level is down 8 percent from 51,600 trips in 2010 and 33 percent below the 71,100 trips in 2009. Angler retention rates increased from 0.29 salmon per angler-day in 2010 to 0.38 salmon per day in 2011 (Table IV-15).

In 2000, about 3,400 trips were made in the late-season Area 4B add-on fishery. Since that time there have been no late season Area 4B add-on fisheries (Table IV-15), with the exception of 2008, during which there were an estimated 782 private trips and no charter trips. There was no Area 4B add-on fishery in 2011.

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

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

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

Estimated state and local community income impacts of commercial and recreational ocean salmon fisheries and selected state-managed fisheries are shown in Tables IV-16 through IV-20. These impacts represent estimates of total personal income associated with harvesting, processing and first level distribution activities in the commercial salmon fisheries, and trip-related expenditures made by recreational anglers, aggregated at the local community (county) and state levels. Income impacts are

estimated based on several components: reported landings and exvessel prices by area, an inventory of the area fleet and processors, estimates of fleet and processor expenditures, surveys of the expenditure patterns of recreational fishers, and local and state level total income coefficients generated by IMPLAN<sup>®</sup> models constructed for each area. In FEAM, most of the benefit of higher than average exvessel prices is assumed to go to the harvesters. Commercial ocean harvest that is landed outside the coastal areas (e.g., landings in Puget Sound ports) is not included in the estimates of coastal community impacts, but is included in overall state-level impacts.

The income impacts presented here are estimates of annual trends and are intended to indicate the possible redirection of activity between nonfishing and fishing-dependent sectors. As such they represent likely upper bounds on the local community and state income impacts generated by West Coast salmon fisheries. All income impact estimates in this review are reported in inflation-adjusted 2011 dollars.

### *West Coast Ocean Fishery Income Impacts*

Total West Coast income impacts associated with recreational and commercial ocean salmon fisheries for all three states combined in 2011 were \$31.9 million, the fourth lowest on record in inflation-adjusted terms, but the highest since 2007. The 2011 total was 22 percent above the estimated inflation-adjusted 2010 (and 2006-2010 average) level of \$26.1 million, and 91 percent below the inflation-adjusted value for 1979 (the highest value in the data time series) (Tables IV-16 through IV-18). West Coast income impacts associated with the 2011 non-Indian commercial ocean fishery were \$14.8 million, 32 percent higher than the estimate for 2010 (\$11.2 million), and 42 percent above the recent five year (2006-2010) average of \$10.4 million in inflation-adjusted terms;<sup>1/</sup> Income impacts related to the 2011 ocean recreational fishery were estimated at \$17.2 million, 15 percent above last year's level and 9 percent above the 2006-2010 inflation-adjusted average of \$15.8 million. Note that these coastwide values may mask effects in particular communities. Tables IV-16 through IV-18 provide greater detail on the impacts in individual states and port areas along the West Coast.

### *Selected Inside Fisheries*

#### **Columbia River Commercial Fisheries**

Historically the non-Indian and treaty Indian Columbia River commercial fisheries have generated a substantial amount of income for the Oregon and Washington communities on the Columbia River. An inflation-adjusted average of \$34.1 million was generated annually from 1986-1990. In 2011, income impacts associated with the Columbia River commercial catch (combined non-Indian and treaty Indian) were estimated at \$20.1 million. This value is 50 percent above the 2006-2010 inflation-adjusted average of \$13.4 million. By comparison, total inflation-adjusted income impacts of these fisheries in 2007 through 2010 ranged from \$7.6 million to \$20.1 million (Table IV-19).

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

Estimated local community income impacts associated with the 2011 Buoy 10 recreational fishery were \$1.9 million, down 3 percent from the previous year, and 31 percent below the inflation-adjusted 2009 level, but 5 percent higher than inflation-adjusted average over 2006-2010 of \$1.9 million (Table IV-20). There was no late-season Area 4B add-on fishery in 2011. The most recent add-on fishery occurred in 2008, the first since 2000. The inflation-adjusted local community income impact associated with the

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



2008 area 4B add-on fishery was \$31,000. Between 1996 and 2000, annual inflation-adjusted state-level income impacts associated with the Area 4B add-on fishery averaged \$141,000 (Table IV-20).

TABLE IV-1. Average monthly exvessel troll salmon price in dollars per dressed pound for California, Oregon, and Washington in 2011.

Species/Grade	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
<b>CALIFORNIA</b>											
Chinook <sup>a/</sup>	-	-	6.75	5.23	4.95	4.53	6.35	6.83	-	-	5.17
Coho	-	-	-	-	-	-	-	-	-	-	-
<b>OREGON</b>											
Chinook											
Large (>11 Pounds)	-	6.90	6.57	5.27	4.99	5.04	5.84	6.47	6.80	-	5.98
Medium (7-11 Pounds)	-	6.83	6.24	4.98	4.43	4.75	5.16	6.02	6.22	-	5.82
Small (<7 Pounds)	-	5.86	5.64	4.36	4.04	2.77	5.29	5.91	5.99	-	5.69
Ungraded Chinook	-	6.83	6.65	5.39	5.35	5.48	5.75	6.33	6.84	-	6.01
Weighted Average	-	6.85	6.51	5.25	5.12	5.27	5.75	6.40	6.63	-	5.96
Mixed Coho	-	-	-	-	2.02	1.98	2.03	-	-	-	2.01
<b>WASHINGTON<sup>b/</sup></b>											
Chinook											
Large (>11 Pounds)	-	-	6.14	5.11	5.06	4.57	5.20	-	-	-	5.26
Medium (8-11 Pounds)	-	-	5.83	4.66	4.57	4.20	4.77	-	-	-	4.89
Small (<8 Pounds)	-	-	4.69	3.70	3.42	4.00	4.50	-	-	-	4.06
Ungraded Chinook	-	-	-	-	-	-	-	-	-	-	-
Weighted Average	-	-	5.96	4.95	5.00	4.53	5.08	-	-	-	5.12
Mixed Coho	-	-	-	-	2.00	2.17	2.36	-	-	-	2.10

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

b/ Non-Indian data only.

TABLE IV-2. Troll Chinook and coho landed in California, estimates of exvessel value, and average price (dollars per dressed pound) in nominal and real (inflation adjusted, 2011) dollars.<sup>a/</sup>

Year or Avg.	Chinook				Coho				Total <sup>b/</sup>	
	Nominal Value (\$*1,000)	Real Value (\$*1,000)	Nominal Price Per Pound (\$)	Real Price Per Pound (\$)	Nominal Value (\$*1,000)	Real Value (\$*1,000)	Nominal Price Per Pound (\$)	Real Price Per Pound (\$)	Nominal Value (\$*1,000)	Real Value (\$*1,000)
1979	17,356	45,006	2.53	6.56	2,303	5,972	2.19	5.68	19,659	50,978
1980	12,741	30,278	2.27	5.39	408	970	1.36	3.23	13,149	31,248
1981-1985	10,945	22,011	2.42	4.80	554	1,127	1.94	4.22	11,499	23,137
1986-1990	21,151	36,005	2.56	4.32	490	821	1.36	2.79	21,641	36,825
1991-1995	7,335	10,605	2.28	3.33	143	217	1.25	2.46	7,478	10,822
1996	5,984	8,173	1.44	1.97	-	-	-	-	5,984	8,173
1997	7,288	9,781	1.38	1.85	-	-	-	-	7,288	9,781
1998	3,060	4,061	1.66	2.20	-	-	-	-	3,060	4,061
1999	7,429	9,716	1.93	2.52	-	-	-	-	7,429	9,716
2000	10,304	13,190	2.01	2.57	-	-	-	-	10,304	13,190
2001	4,773	5,975	1.98	2.48	-	-	-	-	4,773	5,975
2002	7,776	9,578	1.55	1.91	-	-	-	-	7,776	9,578
2003	12,181	14,689	1.91	2.30	-	-	-	-	12,181	14,689
2004	17,895	20,984	2.87	3.37	-	-	-	-	17,895	20,984
2005	12,913	14,653	2.97	3.37	-	-	-	-	12,913	14,653
2006	5,350	5,881	5.13	5.64	-	-	-	-	5,350	5,881
2007	7,902	8,442	5.18	5.53	-	-	-	-	7,902	8,442
2008	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-
2010	1,246	1,274	5.47	5.59	-	-	-	-	1,246	1,274
2011 <sup>c/</sup>	5,113	5,113	5.17	5.17	-	-	-	-	5,113	5,113

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

b/ Does not include pink salmon landings, if any.

c/ Preliminary.

TABLE IV-3. Troll Chinook and coho landed in Oregon, estimates of exvessel value, and average price (dollars per dressed pound) in nominal and real (inflation adjusted, 2011) dollars.

Year or Avg.	Chinook				Coho				Total <sup>a/</sup>	
	Nominal Value (\$*1,000)	Real Value (\$*1,000)	Nominal Price Per Pound (\$)	Real Price Per Pound (\$)	Nominal Value (\$*1,000)	Real Value (\$*1,000)	Nominal Price Per Pound (\$)	Real Price Per Pound (\$)	Nominal Value (\$*1,000)	Real Value (\$*1,000)
1971-1975	2,036	7,798	0.89	3.47	3,658	14,351	0.64	2.47	5,694	22,149
1976-1980	5,290	14,678	2.17	6.00	6,389	18,269	1.51	4.17	11,679	32,947
1981-1985	3,582	7,166	2.46	4.89	2,248	4,692	1.45	2.89	5,830	11,858
1986-1990	9,381	15,943	2.47	4.17	3,203	5,456	1.54	2.60	12,584	21,399
1991-1995	1,971	2,856	2.24	3.27	326	493	0.64	0.95	2,297	3,349
1996	3,007	4,107	1.56	2.13	-	-	-	-	3,007	4,107
1997	2,469	3,314	1.60	2.15	-	-	-	-	2,469	3,314
1998	2,297	3,049	1.64	2.18	-	-	-	-	2,297	3,049
1999	1,400	1,831	1.94	2.54	1	1	1.03	1.35	1,401	1,832
2000	2,988	3,825	2.02	2.59	75	96	1.06	1.36	3,063	3,921
2001	4,680	5,858	1.61	2.02	41	52	0.79	0.99	4,721	5,910
2002	5,383	6,631	1.54	1.90	8	10	0.75	0.92	5,391	6,641
2003	7,186	8,666	1.97	2.38	36	44	0.85	1.03	7,222	8,709
2004	9,832	11,530	3.45	4.05	86	101	1.24	1.45	9,919	11,631
2005	8,466	9,607	3.17	3.60	37	42	1.87	2.12	8,503	9,649
2006	2,663	2,927	5.48	6.02	38	42	2.90	3.19	2,701	2,969
2007	2,630	2,809	5.66	6.05	193	206	1.90	2.03	2,822	3,015
2008	484	505	7.31	7.64	10	11	2.82	2.95	494	516
2009	77	80	5.06	5.23	267	276	2.04	2.11	345	356
2010	2,775	2,837	5.49	5.61	16	16	2.23	2.28	2,791	2,853
2011 <sup>b/</sup>	2,385	2,385	5.96	5.96	5	5	2.01	2.01	2,390	2,390

a/ Does not include pink salmon landings.

b/ Preliminary.

TABLE IV-4. Non-Indian troll Chinook and coho landed in Washington, estimates of exvessel value, and average price (dollars per dressed pound) in nominal and real (inflation adjusted, 2011) dollars.<sup>a/</sup>

Year or Avg.	Chinook				Coho				Total <sup>b/</sup>	
	Nominal Value (\$*1,000)	Real Value (\$*1,000)	Nominal Price Per Pound (\$)	Real Price Per Pound (\$)	Nominal Value (\$*1,000)	Real Value (\$*1,000)	Nominal Price Per Pound (\$)	Real Price Per Pound (\$)	Nominal Value (\$*1,000)	Real Value (\$*1,000)
1971-1975	2,714	10,529	0.89	3.48	3,060	11,899	0.66	2.58	5,775	22,428
1976-1980	5,313	15,054	2.39	6.57	6,086	17,203	1.67	4.60	11,399	32,257
1981-1985	1,954	4,023	2.46	4.89	1,272	2,629	1.32	2.62	3,225	6,653
1986-1990 <sup>c/</sup>	1,310	2,221	2.61	4.42	360	601	1.62	2.74	1,670	2,822
1991-1995 <sup>d/</sup>	550	816	2.17	3.17	120	178	0.86	1.26	670	994
1996	d/	d/	d/	d/	59	80	0.86	1.18	d/	d/
1997	125	168	1.55	2.08	-	-	-	-	125	168
1998	123	163	1.51	2.00	-	-	-	-	123	163
1999	377	493	1.90	2.48	19	25	0.88	1.15	396	518
2000	224	287	1.71	2.19	34	44	1.09	1.40	258	331
2001	349	437	1.44	1.80	34	43	0.69	0.86	383	479
2002	756	931	1.11	1.37	2	2	1.58	1.95	758	933
2003	951	1,147	1.15	1.39	40	49	0.74	0.89	991	1,195
2004	1,079	1,266	2.14	2.51	106	124	1.16	1.36	1,185	1,390
2005	1,273	1,445	2.70	3.06	16	18	1.65	1.87	1,290	1,463
2006	1,029	1,131	4.64	5.10	16	18	1.69	1.86	1,045	1,149
2007	905	966	4.90	5.23	48	52	1.46	1.56	953	1,018
2008	673	704	6.73	7.03	36	37	2.49	2.60	709	741
2009	893	924	5.76	5.96	276	285	2.02	2.09	1,169	1,209
2010	3,083	3,152	5.61	5.74	32	33	2.14	2.19	3,115	3,185
2011	1,652	1,652	5.12	5.12	35	35	2.10	2.10	1,687	1,687

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

b/ Does not include pink salmon landings.

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

d/ In 1994-1996 Chinook were caught off Oregon and landed in Washington. Value information was not provided to preserve confidentiality.

TABLE IV-5. Non-Indian troll pink salmon landed in Oregon and Washington, estimates of exvessel value, and average price (dollars per dressed pound) in nominal and real (inflation adjusted, 2011) dollars.

Year or Avg. <sup>a/</sup>	Oregon				Washington				Total <sup>a/</sup>	
	Nominal Value (\$*1,000)	Real Value (\$*1,000)	Nominal Price Per Pound (\$)	Real Price Per Pound (\$)	Nominal Value (\$*1,000)	Real Value (\$*1,000)	Nominal Price Per Pound (\$)	Real Price Per Pound (\$)	Nominal Value (\$*1,000)	Real Value (\$*1,000)
1976-1980	167	484	0.75	2.07	1,200	3,284	0.54	1.50	1,367	3,768
1981-1985	129	262	0.74	1.47	287	590	0.41	0.83	416	852
1986-1990	41	72	0.77	1.30	57	93	0.66	1.12	98	165
1991-1995	1	2	0.88	1.27	38	56	0.64	0.93	39	58
1997	b/	b/	0.56	0.75	b/	b/	0.20	0.27	b/	b/
1999	b/	b/	0.67	0.88	b/	b/	0.38	0.50	b/	b/
2001	1	1	0.58	0.73	b/	b/	0.22	0.28	1	1
2003	b/	b/	0.85	1.03	b/	b/	0.30	0.36	b/	b/
2005	b/	b/	1.25	1.42	b/	b/	0.52	0.59	b/	b/
2007	b/	b/	1.03	1.10	b/	b/	0.33	0.35	b/	b/
2009	b/	b/	1.03	1.07	b/	b/	0.33	0.34	b/	b/
2011 <sup>c/</sup>	b/	b/	1.34	1.34	1	1	0.83	0.83	1	1

a/ Odd year averages.

b/ Less than \$500.

c/ Preliminary.

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

Year or Avg.	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	State Total
<b>CHINOOK (thousands of dressed pounds)</b>						
1976-1980	393	1,403	1,449	1,733	889	5,867
1981-1985	350	428	1,128	1,806	742	4,454
1986-1990	155	405	2,299	3,648	1,592	8,097
1991-1995	2	25	183	1,893	1,326	3,429
1996-2000	2	35	146	2,155	1,699	4,037
2001	3	61	192	1,735	418	2,409
2002	54	108	872	3,060	912	5,008
2003	38	7	3,096	2,753	498	6,392
2004	308	65	1,292	3,712	853	6,230
2005	25	77	889	2,258	1,098	4,347
2006	-	-	273	684	87	1,043
2007	34	81	357	888	165	1,525
2008	-	-	-	-	-	-
2009	-	-	-	-	-	-
2010	-	4	186	16	20	228
2011 <sup>c/</sup>	8	53	621	214	93	988
<b>COHO (thousands of dressed pounds)</b>						
1976-1980	360	391	277	109	48	1,184
1981-1985	89	104	89	54	9	345
1986-1990	22	43	136	53	9	262
1991-1995	d/	4	11	56	23	94
1996-2000	-	-	-	-	-	-
2001	-	-	-	-	-	-
2002	-	-	-	-	-	-
2003	-	-	-	-	-	-
2004	-	-	-	-	-	-
2005	-	-	-	-	-	-
2006	-	-	-	-	-	-
2007	-	-	-	-	-	-
2008	-	-	-	-	-	-
2009	-	-	-	-	-	-
2010	-	-	-	-	-	-
2011	-	-	-	-	-	-

a/ The major port areas listed may include smaller ports as follows: Crescent City includes only Crescent City; Eureka includes Trinidad and Humboldt Bay; Fort Bragg includes Shelter Cove, Noyo Harbor, Mendocino, and Pt. Arena; San Francisco includes Bodega Bay, Sausalito, Berkeley, and Half Moon Bay; Monterey includes Santa Cruz, Moss Landing, Morro Bay, Avila, and all ports south of Pt. Conception.

b/ Prior to 2005 landings were based on catch area, not port of landing.

c/ Preliminary.

d/ Less than 500 pounds.

TABLE IV-7. Pounds of salmon landed by the commercial troll ocean fishery for major Oregon port areas.<sup>a/</sup>

Year or Avg.	Astoria	Tillamook	Newport	Coos Bay	Brookings	State Total
<b>CHINOOK (thousands of dressed pounds)</b>						
1976-1980	171	118	530	908	700	2,427
1981-1985	92	45	271	638	386	1,432
1986-1990	52	264	829	2,118	468	3,731
1991-1995	7	86	580	235	31	940
1996-2000	25	70	790	435	92	1,414
2001	73	223	1,673	776	152	2,897
2002	330	275	1,442	1,223	218	3,488
2003	265	245	1,634	1,353	142	3,639
2004	134	113	1,121	1,214	267	2,850
2005	130	214	1,034	1,054	239	2,671
2006	99	67	218	56	45	486
2007	22	37	76	232	98	464
2008	39	19	-	-	8	66
2009	7	4	-	-	5	15
2010	116	40	185	122	43	506
2011 <sup>c/</sup>	30	14	67	230	59	400
<b>COHO (thousands of dressed pounds)</b>						
1976-1980	385	660	1,190	1,661	357	4,252
1981-1985	133	293	451	550	111	1,537
1986-1990	73	473	693	648	69	1,957
1991-1995	17	93	110	104	1	325
1996-2000	14	-	-	-	-	14
2001	50	b/	2	-	-	52
2002	6	5	-	-	-	11
2003	32	11	-	-	-	43
2004	47	22	-	-	-	70
2005	9	11	-	-	-	20
2006	8	5	-	-	-	13
2007	37	34	13	14	3	101
2008	3	1	-	-	-	4
2009	48	43	35	5	b/	131
2010	6	1	-	-	-	7
2011 <sup>c/</sup>	2	1	-	-	-	3

a/ The major port areas listed include smaller ports as follows: 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 pounds.

c/ Preliminary.



TABLE IV-8. Pounds of salmon landed by the non-Indian commercial troll ocean fishery for major Washington port areas.<sup>a/b/</sup>

Year or Avg.	Neah Bay	La Push	Westport	Ilwaco	Coastal	Puget Sound	State Total <sup>c/</sup>
					Community		
<b>CHINOOK (thousands of dressed pounds)</b>							
					Total		
1976-1980	288	421	919	261	1,889	426	2,315
1981-1985	88	32	370	74	564	124	689
1986-1990	71	17	234	48	371	122	493
1991-1995 <sup>d/</sup>	137	29	123	9	204	30	234
1996-2000 <sup>d/</sup>	49	1	37	3	80	22	102
2001	97	-	138	6	241	-	241
2002	262	33	322	61	678	-	678
2003	470	67	243	29	810	12	821
2004	250	74	158	15	497	7	504
2005	170	100	181	20	471	e/	471
2006	86	64	40	26	216	5	222
2007	38	31	105	8	182	2	184
2008	20	17	49	13	99	1	100
2009	31	25	92	3	153	2	155
2010	48	62	402	10	522	-	522
2011	113	44	155	11	322	-	322
<b>COHO (thousands of dressed pounds)</b>							
1976-1980	600	786	1,066	678	3,130	496	3,626
1981-1985	133	63	277	142	616	128	744
1986-1990	70	19	97	53	239	19	259
1991-1995	52	14	49	13	102	12	111
1996-2000	10	e/	8	3	22	2	24
2001	2	-	39	9	49	-	49
2002	-	-	e/	1	1	-	1
2003	11	12	21	8	52	2	54
2004	12	20	53	4	89	1	91
2005	2	1	3	5	10	-	10
2006	3	3	3	1	10	e/	10
2007	3	3	9	17	33	-	33
2008	2	3	8	1	14	e/	14
2009	29	34	54	14	131	5	136
2010	1	2	12	1	15	-	15
2011	6	2	9	e/	17	-	17

a/ All values in this table are based on preliminary information available at the start of each year's salmon 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 in 1994-1996; however, Chinook were caught off Oregon and landed in Washington.

e/ Less than 500 pounds.

TABLE IV-9. Exvessel values (inflation adjusted, 2011 dollars) of inriver commercial harvest of Columbia River salmon.<sup>af</sup>  
(Page 1 of 2)

Year or Avg.	Non-Indian Gillnet <sup>b/</sup>					Treaty Indian <sup>c/</sup> - All Gears						Columbia River Total By State	
	Chinook		Coho	Chum	TOTAL	Chinook			Coho	Chum	TOTAL		
	Fall					Fall							
	Spring	Brights <sup>d/</sup>	Tules	Spring	Brights <sup>d/</sup>	Tules	Spring	Brights <sup>d/</sup>	Tules				
<b>Oregon</b>													
Average Price Per Landed Pound <sup>e/</sup> (dollars)													
1987-2003	4.32	1.48	0.41	1.29	0.56	4.49	1.40	0.36	0.99	-	-	-	
2004	4.36	1.61	0.26	1.06	0.29	2.17	1.33	0.12	0.69	-	-	-	
2005	3.87	1.84	0.30	1.21	0.35	-	1.18	0.19	1.06	-	-	-	
2006	5.14	2.35	0.31	1.44	0.29	3.30	1.68	0.29	1.37	-	-	-	
2007	5.76	3.02	0.05	1.73	0.80	4.01	2.79	0.03	1.14	-	-	-	
2008	6.46	2.61	0.60	1.37	0.68	4.85	2.68	0.47	1.21	0.94	-	-	
2009	4.66	2.13	0.56	1.25	0.54	3.53	1.45	0.37	0.95	-	-	-	
2010	5.04	2.16	0.61	1.42	0.69	4.31	2.07	0.64	1.93	-	-	-	
2011 <sup>g/</sup>	5.08	2.29	0.57	1.66	0.61	3.57	2.36	0.71	1.53	-	-	-	
Exvessel Value (thousands of dollars)													
1987-2003	519	1,778	105	1,140	2	3,543	6	730	19	6	-	760	4,303
2004	1,204	657	58	797	f/	2,716	174	631	35	20	-	859	3,575
2005	356	502	39	958	f/	1,856	-	236	13	1	-	249	2,105
2006	675	701	20	689	f/	2,085	f/	347	3	16	-	366	2,451
2007	817	377	1	329	f/	1,524	68	386	1	16	-	470	1,994
2008	747	1,078	67	700	f/	2,592	337	980	61	53	f/	1,430	4,022
2009	452	929	94	1,059	f/	2,534	147	582	37	25	-	792	3,325
2010	1,929	921	157	796	1	3,805	604	468	90	33	-	1,195	5,000
2011 <sup>g/</sup>	1,167	1,443	130	716	f/	3,456	183	591	30	30	-	834	4,291
Pounds (thousands)													
1987-2003	116	749	156	785	2	1,807	3	337	62	5	-	407	2,213
2004	276	409	224	755	f/	1,664	80	476	299	29	-	884	2,548
2005	92	273	132	789	f/	1,286	-	200	67	1	-	267	1,554
2006	131	298	65	478	f/	971	f/	206	11	12	-	229	1,200
2007	142	135	f/	189	f/	466	17	138	25	14	-	194	660
2008	116	413	112	512	f/	1,152	70	366	129	44	f/	609	1,761
2009	97	436	168	846	f/	1,547	42	403	100	26	-	571	2,118
2010	382	426	257	560	1	1,626	140	226	140	17	-	524	2,150
2011 <sup>g/</sup>	230	630	228	431	f/	1,520	51	251	42	20	-	364	1,883

TABLE IV-9. Exvessel values (inflation adjusted, 2011 dollars) of inriver commercial harvest of Columbia River salmon.<sup>a/</sup> (Page 2 of 2)

Year or Avg.	Non-Indian Gillnet <sup>b/</sup>					Treaty Indian <sup>c/</sup> - All Gears					Columbia River Total By State
	Chinook		Coho	Chum	TOTAL	Chinook		Coho	Chum	TOTAL	
	Fall					Fall					
	Spring	Brights <sup>d/</sup>	Tules	Spring	Brights <sup>d/</sup>	Tules	Spring	Brights <sup>d/</sup>	Tules		
<b>Washington<sup>g/h/i/</sup></b>											
Average Price Per Landed Pound <sup>e/</sup> (dollars)											
1987-2003	5.30	1.37	1.29	0.49	-	3.82	0.97	0.91	-	-	
2004	4.61	1.51	1.10	0.29	-	1.84	0.63	0.26	-	-	
2005	4.06	1.58	1.17	0.91	-	1.92	0.58	0.34	-	-	
2006	4.03	2.12	1.46	-	-	2.58	1.54	0.62	0.55	-	
2007	7.17	2.72	1.35	1.04	-	4.75	1.45	0.85	0.96	-	
2008	7.01	2.66	1.32	1.01	-	4.65	1.42	0.84	0.94	-	
2009	5.47	1.84	1.17	0.61	-	3.11	0.96	0.59	-	-	
2010	5.11	1.99	1.34	0.61	-	3.85	1.17	0.90	-	-	
2011	4.49	1.91	1.51	0.58	-	3.51	1.82	1.43	3.13	-	
Exvessel Value (thousands of dollars)											
1987-2003	248	687	472	1	1,393	59	1,118	16	-	1,189	2,583
2004	319	512	408	f/	1,238	193	510	11	-	715	1,953
2005	250	371	223	f/	844	128	812	11	-	952	1,796
2006	352	462	303	-	1,116	465	1,392	28	f/	1,886	3,001
2007	135	246	267	f/	649	f/	1,325	55	f/	1,381	2,029
2008	328	531	289	f/	1,149	1,014	1,666	154	f/	2,834	3,983
2009	325	556	307	f/	1,187	638	846	26	-	1,510	2,697
2010	554	523	331	1	1,410	2,026	1,773	23	-	3,822	5,232
2011	352	746	238	1	1,337	1,667	2,905	233	1	4,805	6,142
Pounds (thousands)											
1987-2003	46	333	369	1	747	37	914	18	-	966	1,713
2004	69	338	370	f/	777	105	806	43	-	954	1,731
2005	62	235	191	f/	487	67	1,404	34	-	1,504	1,992
2006	87	218	207	-	512	180	905	45	f/	1,130	1,642
2007	18	91	154	f/	263	f/	638	66	f/	705	968
2008	47	199	219	f/	466	218	1,172	184	f/	1,574	2,040
2009	59	302	262	1	624	205	880	44	-	1,129	1,753
2010	108	262	247	2	620	526	1,521	25	-	2,072	2,693
2011	78	391	158	1	628	475	1,596	163	f/	2,234	2,862

a/ Excluding pink, sockeye, and steelhead.

b/ Mainstem below Bonneville and select areas (Youngs Bay, Tongue Point, Blind Slough, and Deep River).

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

d/ For Washington, this column includes fall brights, tules, and jacks. Price changes may reflect a change in the mix of brights, tules, and jacks rather than annual price changes.

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

f/ Less than \$500 or 500 pounds.

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

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

i/ Treaty Indian values are primarily mainstem Columbia set gillnet but also include Klickitat dipnet, Drano Lake (Little White Salmon River mouth), and Priest Rapids Pool fisheries.

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 Avg.	Angler Trips		Chinook Catch <sup>a/</sup>		Coho Catch <sup>a/</sup>	
	Charter	Private	Charter	Private	Charter	Private
<b>CALIFORNIA</b>						
1981-1985	68.9	78.1	74.6	34.4	1.5	18.3
1986-1990	95.9	144.8	100.1	66.3	5.3	35.1
1991-1995	81.7	131.8	85.9	83.0	3.8	18.7
1996-2000	82.2	112.5	77.5	80.3	b/	0.4
2001	69.9	95.2	43.2	55.6	0.1	1.2
2002	86.6	123.4	85.1	96.9	b/	0.8
2003	59.4	75.3	48.3	46.4	0.1	0.6
2004	97.7	121.0	124.7	96.5	b/	1.4
2005	69.1	103.0	61.3	81.9	b/	0.7
2006	44.9	81.6	35.3	61.0	b/	1.6
2007	31.4	74.5	12.4	35.4	b/	0.7
2008	0.1	0.3	0.0	b/	-	-
2009	0.6	4.7	0.1	0.6	-	b/
2010	13.6	35.0	4.7	10.1	-	0.2
2011 <sup>c/</sup>	28.9	62.2	17.9	31.1	b/	0.3
<b>OREGON<sup>d/e/</sup></b>						
1979	73.7	187.7	5.4	13.3	59.8	101.8
1980	79.0	218.9	5.1	11.9	98.3	207.5
1981-1985	45.7	187.9	6.2	26.9	48.0	117.6
1986-1990	56.5	184.6	7.0	28.8	71.6	148.4
1991-1995	18.0	81.8	1.3	8.0	27.1	76.2
1996-2000	5.3	40.3	1.5	9.7	3.4	9.1
2001	18.2	102.3	6.4	20.8	19.3	75.0
2002	15.7	91.9	7.9	39.5	9.0	27.5
2003	23.4	121.1	8.8	31.8	23.7	90.0
2004	21.1	124.6	14.6	41.8	13.1	58.8
2005	9.9	66.1	4.5	23.4	3.1	10.6
2006	8.0	54.4	1.5	10.1	3.6	12.0
2007	11.4	76.9	0.6	6.4	10.6	50.1
2008	1.9	28.5	0.2	1.4	1.0	11.1
2009	12.6	71.9	0.2	1.3	14.2	75.4
2010	5.0	48.3	0.6	4.4	2.8	15.5
2011 <sup>c/</sup>	5.9	42.8	0.6	4.6	3.5	15.3

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 Avg.	Angler Trips		Chinook Catch <sup>a/</sup>		Coho Catch <sup>a/</sup>	
	Charter	Private	Charter	Private	Charter	Private
	<b>WASHINGTON<sup>f/g/</sup></b>					
1979	220.8	89.8	61.1	15.7	227.9	62.4
1980	193.9	86.2	41.1	12.5	288.4	73.1
1981-1985	102.0	69.7	42.6	13.8	113.3	69.2
1986-1990	53.5	59.4	16.0	10.0	78.0	77.6
1991-1995	28.0	45.1	4.5	4.2	41.5	54.8
1991-1995	13.6	20.6	2.7	2.2	17.4	20.8
2001	41.2	72.4	11.9	10.8	66.2	98.2
2002	37.0	57.4	30.9	27.0	30.4	43.7
2003	44.5	75.5	16.0	18.1	53.4	84.9
2004	36.5	73.1	10.3	14.6	37.6	75.1
2005	31.7	58.9	15.9	20.4	19.2	32.6
2006	24.5	39.1	4.0	6.7	16.2	19.9
2007	26.7	45.9	3.1	5.9	33.7	50.1
2008	14.2	22.2	6.0	8.6	8.3	10.5
2009	29.4	69.5	3.1	9.2	47.9	90.0
2010	26.5	54.4	15.4	21.5	14.1	22.2
2011 <sup>c/</sup>	22.2	49.2	9.8	19.3	15.1	24.4

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 (thousands) by port area and boat type.

Year or Avg.	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	State Total
<b>CHARTER TRIPS</b>						
1976-1980	1.5	1.2	2.4	63.5	4.0	72.7
1981-1985	0.7	1.3	1.8	62.1	3.0	68.9
1986-1990	1.0	3.5	4.0	74.3	13.1	95.9
1991-1995	0.4	0.8	2.8	55.7	22.0	81.7
1996-2000	a/	0.7	4.2	55.2	22.1	82.1
2001	a/	1.4	9.7	43.4	15.4	69.9
2002	0.0	1.6	10.7	54.9	19.4	86.6
2003	0.0	1.1	8.2	38.7	11.4	59.4
2004	0.1	1.9	10.7	63.4	21.5	97.7
2005	0.0	0.9	8.9	45.8	13.5	69.1
2006	0.0	0.7	6.9	29.2	8.0	44.9
2007	0.0	1.6	5.4	20.9	3.5	31.4
2008	-	-	0.1	-	-	0.1
2009	0.0	0.6	-	-	-	0.6
2010	0.0	0.3	1.8	8.0	3.6	13.6
2011 <sup>b/</sup>	0.0	1.4	4.4	17.3	5.9	28.9
<b>PRIVATE TRIPS</b>						
1976-1980	18.4	22.7	9.3	34.4	6.0	90.8
1981-1985	22.4	21.8	7.8	16.8	9.3	78.1
1986-1990	38.6	34.4	11.4	24.3	36.1	144.8
1991-1995	13.9	14.0	17.6	37.1	49.3	131.9
1996-2000	6.8	10.9	15.0	38.8	40.9	112.5
2001	8.6	14.7	21.1	28.1	22.7	95.2
2002	3.9	16.1	21.1	33.9	48.5	123.4
2003	2.2	12.5	15.5	27.9	17.1	75.3
2004	3.1	20.5	19.8	42.7	35.0	121.0
2005	2.5	13.9	15.4	39.0	32.2	103.0
2006	1.5	14.2	14.1	32.1	19.7	81.6
2007	2.1	16.8	11.7	22.2	21.7	74.5
2008	-	-	0.3	-	-	0.3
2009	1.1	3.6	-	-	-	4.7
2010	0.2	3.7	4.8	11.4	15.0	35.0
2011 <sup>b/</sup>	0.8	12.7	9.9	16.9	21.9	62.2
<b>TOTAL TRIPS</b>						
1976-1980	20.0	23.9	11.7	97.9	10.0	163.5
1981-1985	23.1	23.1	9.6	78.9	12.2	147.0
1986-1990	39.6	37.9	15.4	98.6	49.2	240.7
1991-1995	14.3	14.8	20.4	92.8	71.2	213.6
1996-2000	6.8	11.7	19.1	94.0	63.0	194.6
2001	8.6	16.0	30.8	71.5	38.2	165.1
2002	3.9	17.7	31.8	88.8	67.9	210.1
2003	2.2	13.6	23.7	66.6	28.5	134.6
2004	3.2	22.4	30.6	106.1	56.5	218.7
2005	2.5	14.8	24.3	84.8	45.7	172.1
2006	1.5	15.0	21.0	61.4	27.7	126.5
2007	2.1	18.4	17.1	43.1	25.2	105.9
2008	-	-	0.4	-	-	0.4
2009	1.1	4.3	-	-	-	5.4
2010	0.2	4.0	6.6	19.4	18.5	48.7
2011 <sup>b/</sup>	0.8	14.1	14.3	34.1	27.8	91.1

a/ Fewer than 50 angler trips.

b/ Preliminary.

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

Year or Avg.	Astoria	Tillamook	Newport	Coos Bay	Brookings	State Total
<b>CHARTER TRIPS</b>						
1979	18.5	2.8	26.7	22.7	3.0	73.7
1980	26.3	3.7	26.7	19.6	2.8	79.1
1981-1985	10.3	3.0	17.2	11.9	3.3	45.7
1986-1990	7.1	5.3	27.5	13.0	3.6	56.5
1991-1995 <sup>a/</sup>	4.3	1.6	7.9	3.5	0.7	18.0
1996-2000	1.3	0.4	2.4	0.6	0.6	5.3
2001	4.3	1.4	8.8	3.0	0.7	18.2
2002	3.1	1.6	7.1	3.5	0.3	15.7
2003	3.9	2.0	13.0	4.0	0.5	23.4
2004	3.0	2.5	11.1	3.8	0.6	21.1
2005	2.3	1.0	3.7	2.6	0.3	9.9
2006	2.1	0.6	3.0	2.0	0.3	8.0
2007	2.6	1.1	5.6	1.9	0.2	11.4
2008	0.7	0.1	0.9	0.1	0.1	1.9
2009	2.7	1.3	8.1	0.3	0.2	12.6
2010	1.8	0.4	2.8	0.1	0.1	5.0
2011 <sup>b/</sup>	1.6	0.5	3.6	0.1	0.1	5.9
<b>PRIVATE TRIPS</b>						
1979	24.3	16.3	45.4	52.9	48.8	187.7
1980	20.1	29.3	56.6	65.2	47.7	218.9
1981-1985	15.6	27.1	40.4	51.8	53.0	187.9
1986-1990	10.6	23.7	47.1	48.4	54.8	184.5
1991-1995 <sup>a/</sup>	8.5	12.0	17.0	22.4	22.0	82.0
1996-2000	4.1	7.7	3.0	7.6	17.8	40.3
2001	19.0	15.1	14.8	28.1	25.4	102.4
2002	9.0	22.8	10.9	29.9	19.4	91.9
2003	15.4	26.0	26.5	38.9	14.3	121.1
2004	15.6	26.8	27.9	36.7	17.7	124.6
2005	11.0	11.1	9.7	22.1	12.3	66.1
2006	6.2	15.3	7.4	15.2	10.4	54.4
2007	9.8	20.0	15.2	21.0	10.9	76.9
2008	2.9	9.0	4.6	7.3	4.7	28.5
2009	9.5	21.1	21.5	14.1	5.8	71.9
2010	8.5	13.1	12.2	8.6	5.9	48.3
2011 <sup>b/</sup>	5.8	12.3	8.3	10.2	6.2	42.8
<b>TOTAL TRIPS</b>						
1979	42.8	19.1	72.1	75.6	51.8	261.4
1980	46.4	33.0	83.3	84.8	50.5	298.0
1981-1985	26.0	30.0	57.5	63.7	56.3	233.5
1986-1990	17.7	29.0	74.6	61.4	58.4	241.0
1991-1995 <sup>a/</sup>	12.8	13.6	24.9	26.0	22.7	100.0
1996-2000	5.4	8.1	5.3	8.3	18.4	45.6
2001	23.3	16.5	23.6	31.1	26.1	120.6
2002	12.1	24.4	18.1	33.4	19.7	107.6
2003	19.3	28.0	39.6	42.9	14.8	144.5
2004	18.6	29.3	39.0	40.5	18.3	145.7
2005	13.3	12.1	13.4	24.6	12.6	76.0
2006	8.2	15.9	10.4	17.2	10.6	62.3
2007	12.4	21.0	20.8	23.0	11.1	88.3
2008	3.7	9.1	5.4	7.4	4.8	30.4
2009	12.3	22.4	29.6	14.4	5.9	84.5
2010	10.3	13.5	15.0	8.6	6.0	53.3
2011 <sup>b/</sup>	7.4	12.8	12.0	10.3	6.3	48.8

a/ The fishery north of Cape Falcon was closed in 1994, 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/ Preliminary.

TABLE IV-13. Estimates of Washington recreational ocean salmon angler trips (thousands) by port area and boat type.

Year or Avg.	Neah Bay <sup>a/</sup>	La Push	Westport	Ilwaco <sup>b/</sup>	State Total
<b>CHARTER TRIPS</b>					
1984 <sup>c/</sup>	0.3	-	11.6	18.0	29.9
1985 <sup>c/</sup>	2.0	-	42.2	20.7	64.9
1986-1990	2.0	-	35.7	15.9	53.5
1991-1995	0.7	0.1	19.4	7.9	28.0
1996-2000	0.3	0.1	9.7	3.6	13.6
2001	1.4	0.3	25.6	13.9	41.2
2002	1.5	0.4	24.5	10.6	37.0
2003	2.0	0.9	27.3	14.3	44.5
2004	1.9	0.6	22.5	11.4	36.5
2005	1.2	0.6	20.5	9.4	31.7
2006	0.5	0.5	15.4	8.0	24.5
2007	0.6	0.4	15.7	10.1	26.7
2008	0.3	0.2	9.9	3.7	14.2
2009	0.5	0.7	18.5	9.7	29.4
2010	0.4	0.6	18.4	7.0	26.5
2011 <sup>d/</sup>	0.5	0.7	14.1	6.9	22.2
<b>PRIVATE TRIPS</b>					
1984 <sup>c/</sup>	8.3	0.2	2.3	36.0	46.8
1985 <sup>c/</sup>	15.2	1.5	13.7	19.4	49.8
1986-1990	16.9	2.5	16.6	23.4	59.4
1991-1995	16.4	2.8	18.5	25.4	63.1
1996-2000	8.8	1.6	12.7	12.8	35.8
2001	16.6	3.1	24.1	28.7	72.4
2002	12.2	3.0	16.9	25.3	57.4
2003	18.4	3.5	20.7	32.9	75.5
2004	24.2	3.9	15.7	29.3	73.1
2005	17.2	4.4	14.7	22.6	58.9
2006	12.9	3.6	9.1	13.5	39.1
2007	12.8	2.9	10.2	20.0	45.9
2008	5.3	1.9	8.8	6.3	22.2
2009	16.0	4.4	19.3	29.8	69.5
2010	11.1	3.2	20.0	20.1	54.4
2011 <sup>d/</sup>	10.6	3.6	19.4	15.7	49.2
<b>TOTAL TRIPS</b>					
1984 <sup>c/</sup>	8.6	0.2	13.9	54.0	76.7
1985 <sup>c/</sup>	17.2	1.5	55.9	40.1	114.7
1986-1990	18.9	2.5	52.3	39.3	113.0
1991-1995	17.1	2.9	37.9	33.3	91.1
1996-2000	9.1	1.6	22.4	16.4	49.4
2001	17.9	3.4	49.7	42.5	113.6
2002	13.7	3.4	41.4	35.9	94.4
2003	20.4	4.4	48.0	47.1	120.0
2004	26.1	4.6	38.2	40.6	109.5
2005	18.5	4.9	35.2	32.1	90.6
2006	13.4	4.1	24.5	21.5	63.6
2007	13.4	3.3	25.9	30.1	72.7
2008	5.6	2.1	18.7	10.0	36.4
2009	16.5	5.1	37.8	39.5	98.9
2010	11.5	3.8	38.4	27.0	80.8
2011 <sup>d/</sup>	11.1	4.2	33.5	22.5	71.4

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

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/ Preliminary.



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

Year	Columbia River and Buoy 10					Westport			La Push			Neah Bay and Area 4B Add-On		
	Charter	Private	Subtotal	Jetty	Total	Charter	Private	Total	Charter	Private	Total	Charter	Private	Total
<b>SALMON EFFORT</b>														
1984	NA	NA	-	NA	54.0	11.6	2.3	13.9	0.0	0.2	0.2	0.3	8.3	8.6
1985	NA	NA	-	NA	90.3	42.2	13.7	55.9	0.0	1.5	1.5	2.0	15.2	17.2
1986	NA	NA	-	NA	144.3	36.6	14.8	51.4	0.0	1.7	1.7	2.4	17.4	19.8
1987	39.5	130.0	169.5	12.4	181.9	34.1	9.8	43.9	0.0	2.0	2.0	1.9	17.8	19.7
1988	34.5	154.4	188.9	16.9	205.8	23.5	13.9	37.4	0.0	2.8	2.8	2.0	14.8	16.8
1989	40.4	169.2	209.6	22.9	232.5	40.8	18.7	59.5	0.0	1.6	1.6	2.8	25.5	28.3
1990	32.8	128.7	161.5	5.7	167.2	43.4	25.9	69.3	0.0	4.2	4.2	3.0	30.8	33.8
1991	37.9	172.7	210.6	35.5	246.1	28.6	24.2	52.8	0.2	3.3	3.5	1.9	23.5	25.4
1992	22.3	116.6	138.9	28.4	167.3	28.1	25.6	53.7	0.2	2.3	2.5	1.1	18.6	19.7
1993	20.2	103.3	123.5	24.6	148.1	27.4	23.5	50.9	0.1	2.8	2.9	1.6	25.7	27.3
1994	0.5	6.3	6.8	3.6	10.4	-	-	-	-	-	-	-	-	-
1995	9.0	43.4	52.4	8.5	60.9	12.7	9.0	21.7	0.1	1.4	1.5	0.3	9.2	9.5
1996	7.3	26.8	34.1	7.5	41.6	10.3	5.2	15.5	a/	1.3	1.3	0.3	10.6	10.9
1997	8.4	53.0	61.3	7.4	68.7	10.0	7.3	17.3	0.1	0.9	0.9	0.2	4.6	4.8
1998	3.2	30.7	33.9	3.6	37.5	4.5	3.5	8.0	0.0	0.6	0.6	0.1	6.3	6.4
1999	8.7	63.9	72.6	6.2	78.8	11.5	7.6	19.1	0.1	2.9	2.9	0.5	7.6	8.1
2000	9.8	82.2	92.0	7.0	99.0	12.2	7.7	19.8	0.1	1.8	2.0	1.1	10.3	11.4
2001	22.5	165.0	187.5	17.0	204.5	25.6	24.1	49.7	0.3	3.1	3.4	1.4	16.8	18.1
2002	15.2	115.1	130.3	2.8	133.1	44.5	16.9	41.4	0.4	3.0	3.4	1.5	12.2	13.7
2003	19.3	133.3	152.7	7.2	159.8	27.3	20.7	48.0	0.9	3.5	4.4	2.0	18.4	20.4
2004	15.8	113.3	129.2	3.2	132.3	22.5	15.7	38.2	0.6	3.9	4.6	1.9	24.2	26.1
2005	12.0	88.5	100.5	c/	100.5	20.5	14.7	35.2	0.6	4.4	4.9	1.2	17.2	18.5
2006	10.4	59.8	70.2	1.7	71.9	15.4	9.1	24.5	0.5	3.6	4.1	0.5	12.9	13.4
2007	13.6	64.2	77.8	c/	77.8	15.7	10.2	25.9	0.4	2.9	3.3	0.6	12.8	13.4
2008	5.5	40.7	46.1	0.4	46.5	9.9	8.8	18.7	0.2	1.9	2.1	0.3	6.1	6.4
2009	13.1	109.9	122.9	2.6	125.5	18.5	19.3	37.8	0.7	4.4	5.1	0.5	16.0	16.5
2010	8.9	79.9	88.9	0.1	89.0	18.4	20.0	38.4	0.6	3.2	3.8	0.4	11.1	11.5
2011 <sup>b/</sup>	10.6	76.2	86.7	2.2	88.9	14.1	19.4	33.5	0.7	3.6	4.2	0.5	10.6	11.1

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

Year	Columbia River and Buoy 10					Westport			La Push			Neah Bay and Area 4B Add-On		
	Charter	Private	Subtotal	Jetty	Total	Charter	Private	Total	Charter	Private	Total	Charter	Private	Total
<b>BOTTOMFISH EFFORT<sup>d/</sup></b>														
1984	2.1	0.1	2.2	-	-	12.4	0.5	12.9	0.0	0.0	0.0	1.8	12.3	14.1
1985	1.9	0.2	2.1	-	-	15.3	1.0	16.3	0.0	0.1	0.1	3.0	10.6	13.6
1986	1.7	0.2	1.9	-	-	19.6	0.8	20.4	0.0	0.2	0.2	3.5	11.4	14.9
1987	1.7	0.3	2.0	0.5	2.5	21.1	1.2	22.3	0.0	0.5	0.5	5.6	16.0	21.6
1988	2.1	0.2	2.3	0.8	3.1	24.4	1.1	25.5	0.0	0.7	0.7	5.7	14.8	20.5
1989	1.2	0.6	1.8	1.5	3.3	19.3	1.0	20.3	0.0	0.6	0.6	6.8	16.3	23.1
1990	1.4	0.3	1.7	2.4	4.1	21.8	0.8	22.6	0.0	0.8	0.8	6.4	18.1	24.5
1991	1.3	0.4	1.7	1.8	3.5	23.5	1.1	24.6	0.0	0.9	0.9	5.9	18.2	24.1
1992	1.4	0.5	1.9	2.3	4.1	20.5	2.2	22.7	0.0	1.5	1.5	4.8	19.1	23.9
1993	2.2	0.6	2.8	2.6	5.4	21.5	1.8	23.0	0.1	1.1	1.2	5.1	19.2	24.3
1994	2.7	0.7	3.3	2.7	6.0	26.0	1.7	27.7	0.2	1.9	2.1	4.1	15.0	19.1
1995	1.3	0.9	2.3	2.2	4.4	21.1	1.6	22.7	a/	1.6	1.6	4.1	19.2	23.3
1996 <sup>e/f/</sup>	1.2	0.5	1.7	1.7	3.4	21.4	1.2	22.6	0.0	1.6	1.6	4.8	21.0	25.8
1997	1.2	0.7	2.0	2.5	4.4	19.2	1.4	20.6	0.0	2.2	2.2	4.9	22.7	27.7
1998	1.8	0.5	2.3	0.9	3.2	21.5	1.3	22.8	0.0	1.2	1.2	5.1	23.9	29.0
1999	1.0	0.5	1.5	0.5	2.0	17.1	1.2	18.3	0.1	1.0	1.1	4.5	20.3	24.9
2000	1.2	0.6	1.8	0.5	2.3	16.7	0.9	17.6	0.2	1.3	1.5	4.5	20.1	24.6
2001	2.8	0.4	3.2	0.9	4.1	13.9	1.2	15.1	0.3	0.9	1.2	4.7	16.5	21.2
2002	14.3	0.5	1.9	0.8	2.8	14.9	1.2	16.1	0.3	1.2	1.6	4.0	15.7	19.7
2003	2.4	0.5	2.9	0.9	3.8	16.3	1.8	18.2	1.0	2.5	3.6	5.2	21.4	26.6
2004	2.4	0.8	3.2	0.3	3.5	14.8	1.7	16.5	0.4	1.7	2.1	3.5	15.2	18.7
2005	2.5	1.1	3.7	c/	3.7	15.5	1.8	17.3	0.5	2.5	3.0	3.5	18.8	22.4
2006	3.6	1.2	4.9	0.9	5.7	17.7	1.8	19.5	0.3	2.8	3.1	4.4	16.9	21.3
2007	3.1	1.5	4.6	c/	4.6	16.2	1.6	17.7	0.5	2.5	3.0	4.3	15.7	20.0
2008	2.9	2.0	4.9	0.4	5.3	15.5	1.7	17.2	1.0	2.3	3.3	2.3	16.2	18.5
2009	2.1	1.3	3.3	0.3	3.6	13.0	2.2	15.2	0.7	2.7	3.4	1.5	13.6	15.1
2010	2.9	1.7	4.7	0.5	5.2	11.7	1.8	13.5	0.7	3.6	4.3	1.2	15.4	16.6
2011 <sup>b/</sup>	2.9	1.6	4.5	0.9	5.4	13.9	2.4	16.3	0.5	4.8	5.3	1.2	14.2	15.4

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

Year	Columbia River and Buoy 10					Westport			La Push			Neah Bay and Area 4B Add-On		
	Charter	Private	Subtotal	Jetty	Total	Charter	Private	Total	Charter	Private	Total	Charter	Private	Total
<b>STURGEON EFFORT<sup>g/</sup></b>														
1984	1.7	28.4	30.1	-	30.1	-	-	-	-	-	-	-	-	-
1985	5.0	31.2	36.2	-	36.2	-	-	-	-	-	-	-	-	-
1986	5.7	35.7	41.4	-	41.4	-	-	-	-	-	-	-	-	-
1987	6.0	43.2	49.2	-	49.2	-	-	-	-	-	-	-	-	-
1988	6.2	32.4	38.5	-	38.5	-	-	-	-	-	-	-	-	-
1989	4.3	22.0	26.3	-	26.3	-	-	-	-	-	-	-	-	-
1990	3.9	28.0	31.9	-	31.9	-	-	-	-	-	-	-	-	-
1991	3.6	26.0	29.7	-	29.7	-	-	-	-	-	-	-	-	-
1992	5.0	38.3	43.3	-	43.3	-	-	-	-	-	-	-	-	-
1993	6.1	48.6	54.6	-	54.6	-	-	-	-	-	-	-	-	-
1994	7.5	40.4	47.8	-	47.8	-	-	-	-	-	-	-	-	-
1995	7.7	55.2	62.9	-	62.9	-	-	-	-	-	-	-	-	-
1996	11.1	45.2	56.3	-	56.3	-	-	-	-	-	-	-	-	-
1997	12.2	48.4	60.7	-	60.7	-	-	-	-	-	-	-	-	-
1998	14.2	64.3	78.5	-	78.5	-	-	-	-	-	-	-	-	-
1999	13.2	57.1	70.3	-	70.3	-	-	-	-	-	-	-	-	-
2000	11.6	52.1	63.7	-	63.7	-	-	-	-	-	-	-	-	-
2001	10.8	40.9	51.7	-	51.7	-	-	-	-	-	-	-	-	-
2002	9.9	45.9	55.8	-	55.8	-	-	-	-	-	-	-	-	-
2003	6.6	38.1	44.7	-	44.7	-	-	-	-	-	-	-	-	-
2004	7.4	32.2	39.6	-	39.6	-	-	-	-	-	-	-	-	-
2005	8.7	51.2	59.9	-	59.9	-	-	-	-	-	-	-	-	-
2006	6.7	37.3	44.0	-	44.0	-	-	-	-	-	-	-	-	-
2007	7.9	39.8	47.7	-	47.7	-	-	-	-	-	-	-	-	-
2008	7.5	38.5	46.0	-	46.0	-	-	-	-	-	-	-	-	-
2009	6.1	43.0	49.1	-	49.1	-	-	-	-	-	-	-	-	-
2010	5.4	31.4	36.8	-	36.8	-	-	-	-	-	-	-	-	-
2011 <sup>b/</sup>	3.6	21.7	25.3	-	25.3	-	-	-	-	-	-	-	-	-

a/ Fewer than 50 angler trips.

b/ Preliminary.

c/ Columbia River north jetty was not sampled in 2005 and 2007 due to construction limiting access.

d/ 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.

e/ No Oregon bottomfish trips are included.

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

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

TABLE IV-15. Buoy 10<sup>ab/</sup> and Area 4B add-on recreational salmon angler trips and catch by boat type. (Page 1 of 2)

Year or Avg.	Angler Trips			Chinook Catch			Coho Catch			Pink Catch	
	Charter	Private	Jetty	Charter	Private	Jetty	Charter	Private	Jetty	Charter	Private
<b>OREGON BUOY 10</b>											
1987-1990	4,002	38,619	4,029	793	6,415	29	3,292	18,348	690	0	0
1991-1995	1,528	21,547	4,555	122	1,318	30	1,625	14,520	1,389	0	0
1996-2000	626	15,760	1,832	126	2,712	3	206	3,764	353	0	0
2001	1,616	54,444	4,115	47	5,578	10	1,481	56,403	523	0	0
2002	512	39,943	1,589	31	10,728	-	2	3,058	52	0	0
2003	991	45,461	2,315	47	7,903	-	624	28,518	526	0	0
2004	66	33,092	1,170	19	9,191	-	17	7,585	47	0	0
2005	135	33,051	935	18	6,875	6	51	4,785	36	0	0
2006	37	24,194	1,457	1	1,350	-	-	2,800	-	0	0
2007	156	19,983	793	6	2,511	-	38	4,841	97	0	0
2008	198	19,020	-	43	5,608	-	69	4,487	-	0	0
2009	182	39,425	1,684	1	3,550	16	164	27,000	466	0	0
2010	82	30,159	710	2	4,537	11	8	5,171	22	0	0
2011 <sup>c/</sup>	70	30,074	1,705	3	7,150	34	6	5,029	315	0	0
<b>WASHINGTON BUOY 10</b>											
1987-1990	10,678	71,927	6,567	1,907	14,398	68	8,353	40,415	1,627	1	11
1991-1995	4,162	41,770	5,908	466	3,710	42	5,178	31,681	1,426	0	16
1996-2000	1,957	23,952	1,045	393	3,999	24	950	6,305	82	0	0
2001	2,765	62,944	-	-	6,791	-	3,282	70,349	-	0	0
2002	1,001	40,927	485	232	8,424	26	98	3,023	-	0	0
2003	216	39,844	-	22	8,344	-	139	24,633	-	0	0
2004	685	33,805	-	45	6,791	-	139	7,381	-	0	0
2005	183	20,879	-	5	2,383	-	34	1,972	-	0	0
2006	421	14,597	-	5	351	-	8	879	-	0	0
2007	711	14,421	-	33	1,226	-	343	3,037	-	0	0
2008	804	12,445	-	154	2,544	-	436	3,581	-	0	0
2009	389	31,123	-	4	2,369	-	312	20,185	-	0	0
2010	106	21,241	-	7	2,250	-	11	2,767	-	0	0
2011 <sup>c/</sup>	372	17,188	-	43	3,689	-	70	2,194	-	0	0

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

Year or Avg.	Angler Trips			Chinook Catch			Coho Catch			Pink Catch	
	Charter	Private	Jetty	Charter	Private	Jetty	Charter	Private	Jetty	Charter	Private
<b>TOTAL BUOY 10</b>											
1987-1990	14,680	110,547	10,596	2,700	20,812	98	11,645	58,763	2,317	1	11
1991-1995	5,690	63,317	10,463	588	5,029	72	6,803	46,201	2,814	0	16
1996-2000	2,583	39,712	2,877	519	6,710	27	1,157	10,070	435	0	0
2001	4,381	117,388	4,115	47	12,369	10	4,763	126,752	523	0	0
2002	1,513	80,870	2,074	263	19,152	26	100	6,081	52	0	0
2003	1,207	85,305	2,315	69	16,247	0	763	53,151	526	0	0
2004	751	66,897	1,170	64	15,982	0	156	14,966	47	0	0
2005	318	53,930	935	23	9,258	6	85	6,757	36	0	0
2006	458	38,791	1,457	6	1,701	0	8	3,679	0	0	0
2007	867	34,404	793	39	3,737	0	381	7,878	97	0	0
2008	1,002	31,465	0	197	8,152	0	505	8,068	0	0	0
2009	571	70,548	1,684	5	5,919	16	476	47,185	466	0	0
2010	188	51,400	710	9	6,787	11	19	7,938	22	0	0
2011 <sup>c/</sup>	442	47,262	1,705	46	10,839	34	76	7,223	315	0	0
<b>TOTAL AREA 4B ADD-ON<sup>d/</sup></b>											
1989-1990	1,084	10,941	-	62	375	-	2,095	18,021	-	36	212
1991-1995	429	6,852	-	12	153	-	725	9,188	-	73	970
1996	36	1,511	-	-	5	-	61	2,266	-	0	0
1997	136	1,788	-	-	4	-	65	1,429	-	139	412
1998	71	6,296	-	5	98	-	125	7,937	-	0	3
1999 <sup>e/</sup>	-	-	-	-	-	-	-	-	-	0	0
2000	373	3,046	-	-	8	-	614	3,796	-	0	0
2001-2005 <sup>f/</sup>	-	-	-	-	-	-	-	-	-	0	0
2006 <sup>e/</sup>	-	-	-	-	-	-	-	-	-	0	0
2007 <sup>f/</sup>	-	-	-	-	-	-	-	-	-	0	0
2008	-	782	-	-	11	-	-	137	-	0	0
2009 <sup>f/</sup>	-	-	-	-	-	-	-	-	-	0	0
2010 <sup>f/</sup>	-	-	-	-	-	-	-	-	-	0	0
2011 <sup>f/</sup>	-	-	-	-	-	-	-	-	-	0	0

a/ Starting in 2000, includes catch upstream from the Astoria-Megler Bridge to the new boundary line from Tongue Point, Oregon to Rocky Point, Washington. Prior to 2000 includes only downstream from the Astoria-Megler Bridge.

b/ 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.

c/ Preliminary.

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

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

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

TABLE IV-16. Estimates of California coastal community and state personal income impacts in thousands of real (inflation adjusted, 2011) dollars of the troll and recreational ocean salmon fishery for major port areas.<sup>a/</sup>

Year or Avg.	Crescent City	Eureka	Fort Bragg	San Francisco	Monterey	Coastal Community Total <sup>b/</sup>	State Total
<b>OCEAN TROLL<sup>c/</sup></b>							
1976-1980	6,800	17,273	16,937	22,218	9,537	72,764	93,547
1981-1985	3,444	4,155	9,725	18,356	6,255	41,935	52,210
1986-1990	1,295	3,206	17,056	33,117	12,386	67,060	82,301
1991-1995	10	152	1,072	12,464	7,101	20,798	25,063
1996-2000	11	181	757	13,047	7,911	21,908	23,179
2001	15	308	1,017	10,688	2,261	14,289	14,831
2002	269	515	3,669	15,262	4,110	23,825	25,310
2003	217	38	14,889	15,514	2,447	33,104	36,818
2004	1,907	421	7,295	22,918	5,158	37,699	38,492
2005	142	428	5,312	13,226	6,942	26,051	26,702
2006	-	-	2,418	6,252	964	9,634	9,933
2007	324	805	3,326	7,937	1,618	14,010	14,259
2008	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-
2010 <sup>e/</sup>	-	34	1,729	136	156	2,056	2,135
2011 <sup>d/</sup>	66	424	4,789	2,143	939	8,361	8,624
<b>RECREATIONAL</b>							
1976-1980	1,319	1,529	891	13,387	897	18,024	20,217
1981-1985	1,445	1,489	714	11,856	947	16,451	18,517
1986-1990	2,448	2,551	1,244	14,489	3,893	24,627	28,700
1991-1995	888	956	1,444	12,256	5,869	21,413	25,141
1996-2000	411	757	1,474	12,287	5,397	20,327	23,649
2001	352	766	2,068	7,458	3,001	13,646	14,681
2002	157	852	2,187	9,369	4,615	17,181	18,449
2003	89	641	1,651	6,778	2,230	11,390	12,199
2004	134	1,075	2,141	10,975	4,325	18,651	19,946
2005	102	681	1,732	8,275	3,142	13,931	14,928
2006	60	672	1,427	5,601	1,891	9,651	10,399
2007	85	877	1,151	3,972	1,376	7,462	8,102
2008	-	-	26	-	-	26	30
2009	45	226	-	-	-	271	317
2010	8	189	414	1,643	1,103	3,358	3,646
2011 <sup>d/</sup>	31	692	948	3,215	1,699	6,584	7,154

a/ Per pound and per day estimates of income impacts are provided from output of the Fishery Economic Assessment Model (FEAM). These are the income impacts associated with expenditures in the troll and/or recreational sectors. There is no differentiation between money that may be new to the area versus money that may otherwise have been expended in other sectors. It is assumed that all fish landed at a port are processed in the port area. Values through 1995 are based on a 1992 run of the FEAM using 1989 IMPLAN data. Values from 1996 through 2000 are based on a 1998 run of the FEAM using 1996 IMPLAN data. Beginning in 2001, values are from a FEAM run based on 2000 PacFIN landings and 1998 IMPLAN data.

b/ Total personal income impacts on coastal areas. Totals do not include impacts of one coastal area on another.

c/ Excluding pink salmon.

d/ Preliminary.

e/ Eureka impacts are from fish caught in the Fort Bragg area fishery and landed in Eureka.

TABLE IV-17. Estimates of Oregon coastal community and state personal income impacts in thousands of real (inflation adjusted, 2011) dollars of the troll and recreational ocean salmon fishery for major port areas.<sup>a/</sup>

Year or Avg.	Astoria	Tillamook	Newport	Coos Bay	Brookings	Coastal Community Total <sup>b/</sup>	State Total
<b>OCEAN TROLL<sup>c/</sup></b>							
1976-1980	4,366	5,619	13,182	20,286	8,433	51,886	70,348
1981-1985	1,414	1,819	4,267	7,525	3,266	18,291	24,857
1986-1990	653	3,806	8,471	16,330	3,095	32,355	43,697
1991-1995	91	710	2,907	1,412	144	5,264	7,098
1996-2000	151	297	3,077	1,777	429	5,731	6,983
2001	379	774	5,795	3,045	625	10,617	12,924
2002	1,084	918	4,958	4,383	793	12,136	14,698
2003	1,060	961	6,409	5,827	687	14,943	18,080
2004	894	715	6,325	6,882	1,473	16,289	17,603
2005	739	1,231	5,262	5,213	1,234	13,679	14,782
2006	966	601	1,579	425	370	3,941	4,228
2007	284	403	656	1,913	761	4,017	4,312
2008	404	197	-	-	70	672	708
2009	165	154	136	19	41	514	550
2010	918	267	1,333	905	357	3,779	4,065
2011 <sup>d/</sup>	228	96	525	1,803	488	3,139	3,375
<b>RECREATIONAL</b>							
1979	3,660	1,168	5,565	5,634	2,712	18,739	24,160
1980	4,418	1,941	6,144	5,905	2,636	21,044	27,103
1981-1985	2,157	1,739	4,155	4,237	2,948	15,236	19,779
1986-1990	1,477	1,847	5,749	4,188	3,069	16,330	21,260
1991-1995	1,003	808	1,828	1,632	1,152	6,423	8,329
1996-2000	388	445	438	484	930	2,686	3,541
2001	1,393	750	1,771	1,485	1,036	6,435	7,887
2002	813	1,065	1,396	1,627	763	5,664	6,972
2003	1,186	1,231	2,793	2,034	598	7,842	9,646
2004	1,065	1,339	2,579	1,922	740	7,644	9,414
2005	773	552	876	1,195	494	3,890	4,767
2006	555	650	688	854	420	3,167	3,892
2007	779	883	1,336	1,069	430	4,496	5,527
2008	224	348	290	290	186	1,337	1,646
2009	785	952	1,926	575	237	4,475	5,509
2010	600	535	839	333	226	2,533	3,107
2011 <sup>d/</sup>	469	524	812	405	237	2,448	3,009

a/ Per pound and per day estimates of income impacts are provided from output of the Fishery Economic Assessment Model (FEAM). These are the income impacts associated with expenditures in the troll and/or recreational sectors. There is no differentiation between money that may be new to the area versus money that may otherwise have been expended in other sectors. It is assumed that all fish landed at a port are processed in the port area. Values through 1995 are based on a 1992 run of the FEAM using 1989 IMPLAN data. Values from 1996 through 2000 are based on a 1998 run of the FEAM using 1996 IMPLAN data. Beginning in 2001, values are from a FEAM run based on 2000 PacFIN landings and 1998 IMPLAN data.

b/ Total personal income impacts on coastal areas. Totals do not include impacts of one coastal area on another.

c/ Excluding pink salmon.

d/ Preliminary.

TABLE IV-18. Estimates of Washington coastal community and state personal income impacts in thousands of real (inflation adjusted, 2011) dollars of the troll and recreational ocean salmon fishery for major port areas.<sup>a/</sup>

Year or Avg.	Neah Bay	La Push	Westport	Ilwaco <sup>b/</sup>	Coastal Community	Puget Sound	State Total
					Total <sup>c/d/</sup>		
<b>OCEAN TROLL<sup>e/f/</sup></b>							
1976-1980	6,304	8,608	17,065	6,111	38,088	8,483	60,762
1981-1985	1,239	502	4,675	1,119	7,535	1,810	11,844
1986-1990	685	180	2,148	467	3,481	1,048	5,703
1991-1995 <sup>g/</sup>	504	111	718	51	1,387	202	2,041
1996-2000	170	3	205	20	398	105	546
2001	311	0	646	43	1,000	0	1,082
2002	641	83	1,124	187	2,036	0	2,244
2003	1,163	196	960	141	2,460	44	2,852
2004	856	270	1,064	104	2,294	27	2,652
2005	701	419	1,078	133	2,331	1	2,633
2006	521	422	405	272	1,619	35	1,917
2007	229	233	953	118	1,533	20	1,705
2008	149	197	564	151	1,061	12	1,196
2009	302	312	1,088	76	1,778	35	2,027
2010	326	513	3,877	84	4,800	-	5,014
2011	743	293	1,388	83	2,508	-	2,782
<b>RECREATIONAL</b>							
1976-1980	2,323	1,152	23,103	11,309	37,886	-	50,139
1981-1985	1,405	144	9,090	4,672	15,310	-	20,296
1986-1990	1,078	123	5,158	2,781	9,140	-	12,019
1991-1995	572	112	3,184	1,615	5,483	-	7,141
1996-2000	303	82	1,491	729	2,606	-	3,388
2001	784	160	5,828	3,692	10,464	-	12,224
2002	667	170	5,368	2,939	9,144	-	10,684
2003	969	271	6,046	3,917	11,203	-	13,106
2004	1,136	241	4,932	3,233	9,542	-	11,187
2005	779	244	4,501	2,618	8,142	-	9,534
2006	511	214	3,324	2,035	6,084	-	7,121
2007	521	166	3,411	2,660	6,757	-	7,900
2008	226	100	2,243	948	3,516	-	4,109
2009	608	267	4,280	2,929	8,084	-	9,455
2010	439	219	4,285	2,050	6,993	-	8,171
2011	433	237	3,428	1,879	5,977	-	6,993

a/ Per pound and per day estimates of income impacts are provided from output of the Fishery Economic Assessment Model (FEAM). These are the income impacts associated with expenditures in the troll and/or recreational sectors. There is no differentiation between money that may be new to the area versus money that may otherwise have been expended in other sectors. It is assumed that all fish landed at a port are processed in the port area. Values through 1995 are based on a 1992 run of the FEAM using 1989 IMPLAN data. Values from 1996 through 2000 are based on a 1998 run of the FEAM using 1996 IMPLAN data. Beginning in 2001, values are from a FEAM run based on 2000 PacFIN landings and 1998 IMPLAN data.

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

c/ Total personal income impacts on coastal areas. Totals do not include impacts of one coastal area on another.

d/ Through 1993, commercial values include a very small amount of fish landed in Washington coastal areas not included in the major port groups.

e/ Excluding pink salmon.

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

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



TABLE IV-19. Local personal income impacts in real (inflation adjusted, 2011) dollars of the inriver commercial salmon fishery on Oregon and Washington Columbia River communities.<sup>a/</sup>

	Non-Indian - Gillnet <sup>b/</sup>						Treaty Indian - All Gears <sup>c/</sup>						Columbia River Total
	Chinook			Coho	Chum	TOTAL	Chinook			Coho	Chum	TOTAL	
	Spring	Fall					Spring	Fall					
		Brights <sup>d/</sup>	Tules					Brights <sup>d/</sup>	Tules				
<b>Oregon</b>													
1987-2003	1,007	2,669	268	1,968	3	5,916	13	1,130	80	11	e/	1,234	7,150
2004	2,207	1,464	312	1,776	1	5,759	368	1,503	361	56	-	2,288	8,047
2005	663	1,062	185	1,941	e/	3,850	-	560	85	1	-	646	4,497
2006	1,198	1,377	90	1,301	e/	3,965	1	746	15	31	-	792	4,757
2007	1,425	755	e/	574	e/	2,753	124	725	e/	32	-	880	3,634
2008	1,284	2,046	192	1,325	e/	4,847	599	1,850	201	105	-	2,755	7,602
2009	806	1,843	278	2,068	e/	4,994	274	1,289	142	55	-	1,759	6,754
2010	3,401	1,815	441	1,471	2	7,131	1,087	932	246	55	-	2,320	9,451
2011 <sup>f/</sup>	2,049	2,792	375	1,243	e/	6,459	338	1,136	76	54	-	1,605	8,063
<b>Washington<sup>f/g/h/</sup></b>													
1987-2003	448	1,147		892	2	2,489	131	2,297		37	-	2,465	4,954
2004	579	1,163		910	e/	2,652	430	1,709		62	-	2,201	4,853
2005	461	823		449	e/	1,733	279	2,810		50	-	3,139	4,871
2006	646	931		569	-	2,145	931	3,080		80	e/	4,090	6,236
2007	230	466		467	e/	1,163	1	2,666		133	e/	2,799	3,962
2008	560	1,004		555	1	2,120	1,811	3,721		363	e/	5,895	8,015
2009	567	1,145		616	1	2,329	1,212	2,218		74	-	3,504	5,833
2010	976	1,051		626	4	2,657	3,707	4,211		51	-	7,969	10,626
2011	629	1,508		427	2	2,565	3,084	5,947		426	e/	9,457	12,022
<b>Columbia River</b>													
1987-2003	1,455	4,085		2,860	5	8,405	144	3,507		48	e/	3,699	12,104
2004	2,786	2,938		2,686	1	8,411	798	3,573		118	-	4,489	12,900
2005	1,124	2,070		2,390	e/	5,583	-	3,455		51	-	3,785	9,368
2006	1,843	2,398		1,870	-	6,111	931	3,840		111	-	4,882	10,993
2007	1,654	1,220		1,041	e/	3,916	125	3,391		164	-	3,680	7,596
2008	1,844	3,242		1,879	1	6,967	2,410	5,772		468	-	8,650	15,617
2009	1,373	3,265		2,684	1	7,324	1,486	3,649		129	-	5,263	12,587
2010	4,377	3,307		2,098	6	9,788	4,793	5,390		107	-	10,290	20,078
2011 <sup>f/</sup>	2,678	4,675		1,670	2	9,024	3,422	7,160		480	-	11,061	20,086

a/ Excluding pink, sockeye, and steelhead. Values through 1995 are based on a 1992 run of the FEAM using 1989 IMPLAN data. Values from 1996 through 2000 are based on a 1998 run of the FEAM using 1996 IMPLAN data. Beginning in 2001, values are from a FEAM run based on 2000 PacFIN landings and 1998 IMPLAN data.

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

c/ Treaty Indian values do not include direct sales to consumers.

d/ For Washington and the Columbia River this column includes fall brights, tules, and jacks.

e/ Less than \$500.

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

g/ Washington income impacts for years prior to 2000 are based on a combination of Washington and Oregon value

h/ Treaty Indian values are primarily mainstem Columbia set gillnet but also include Klickitat dipnet, Drano Lake (Little White Salmon River mouth), and Priest Rapids Pool fisheries.

TABLE IV-20. Local personal income impacts in real (inflation adjusted, 2011) dollars of the Buoy 10 recreational fishery in Oregon and Washington and the Area 4B add-on fishery in Washington.

Year	Total Angler Trips (thousands)	Income Impacts (thousands of dollars)		
		Oregon	Washington	Total
<b>BUOY 10 (including bank fishing)</b>				
1987-1990	136	2,729	4,758	7,487
1991-1995	79	1,552	2,641	4,193
1996-2000	45	994	1,361	2,355
2001	126	2,568	2,711	5,279
2002	84	1,727	1,624	3,351
2003	89	2,046	1,417	3,463
2004	69	1,372	1,300	2,672
2005	55	1,371	756	2,127
2006	41	1,025	586	1,611
2007	36	849	636	1,485
2008	32	786	586	1,372
2009	73	1,661	1,150	2,811
2010	52	1,239	753	1,993
2011 <sup>b/</sup>	49	1,274	666	1,939
<b>AREA 4B ADD-ON<sup>c/</sup></b>				
1989-1990	12	-	674	674
1991-1995	6	-	393	393
1996-2000	3	-	141	141
2001	-	-	-	-
2002	-	-	-	-
2003	-	-	-	-
2004	-	-	-	-
2005	-	-	-	-
2006	-	-	-	-
2007	-	-	-	-
2008	1	-	31	31
2009	-	-	-	-
2010	-	-	-	-
2011 <sup>b/</sup>	-	-	-	-

a/ Per pound and per day estimates of income impacts are provided from output of the Fishery Economic Assessment Model (FEAM). These are the income impacts associated with expenditures in the troll and/or recreational sectors. There is no differentiation between money that may be new to the area versus money that may otherwise have been expended in other sectors. It is assumed that all fish landed at a port are processed in the port area. Values through 1995 are based on a 1992 run of the FEAM using 1989 IMPLAN data. Values from 1996 through 2000 are based on a 1998 run of the FEAM using 1996 IMPLAN data. Beginning in 2001, values are from a FEAM run based on 2000 PacFIN landings and 1998 IMPLAN data.

b/ Preliminary

c/ There were no Area 4B add-on fisheries prior to 1989.

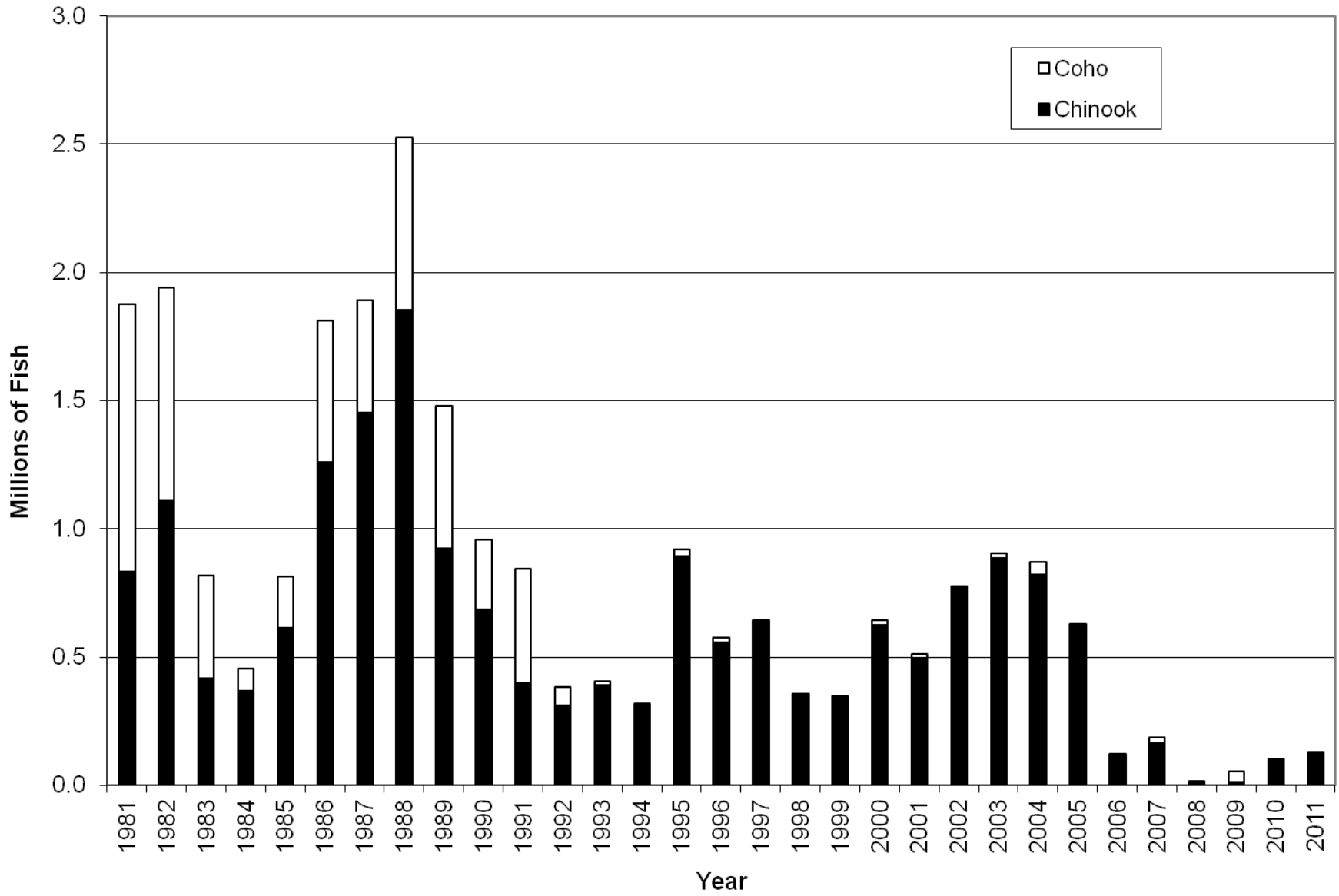


Figure IV-1. West Coast ocean non-Indian commercial Chinook and coho harvest.

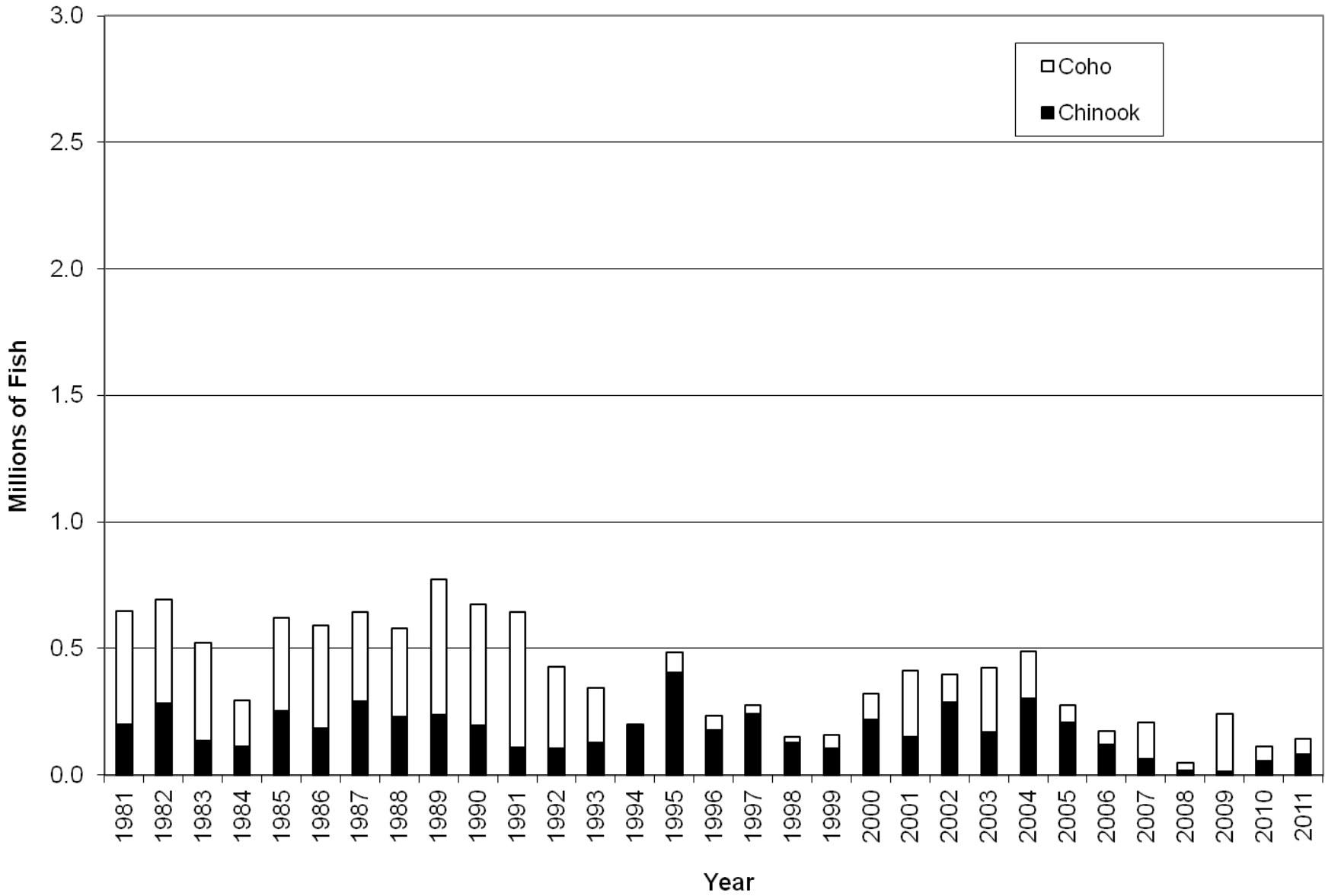


Figure IV-2. West Coast ocean recreational Chinook and coho harvest.

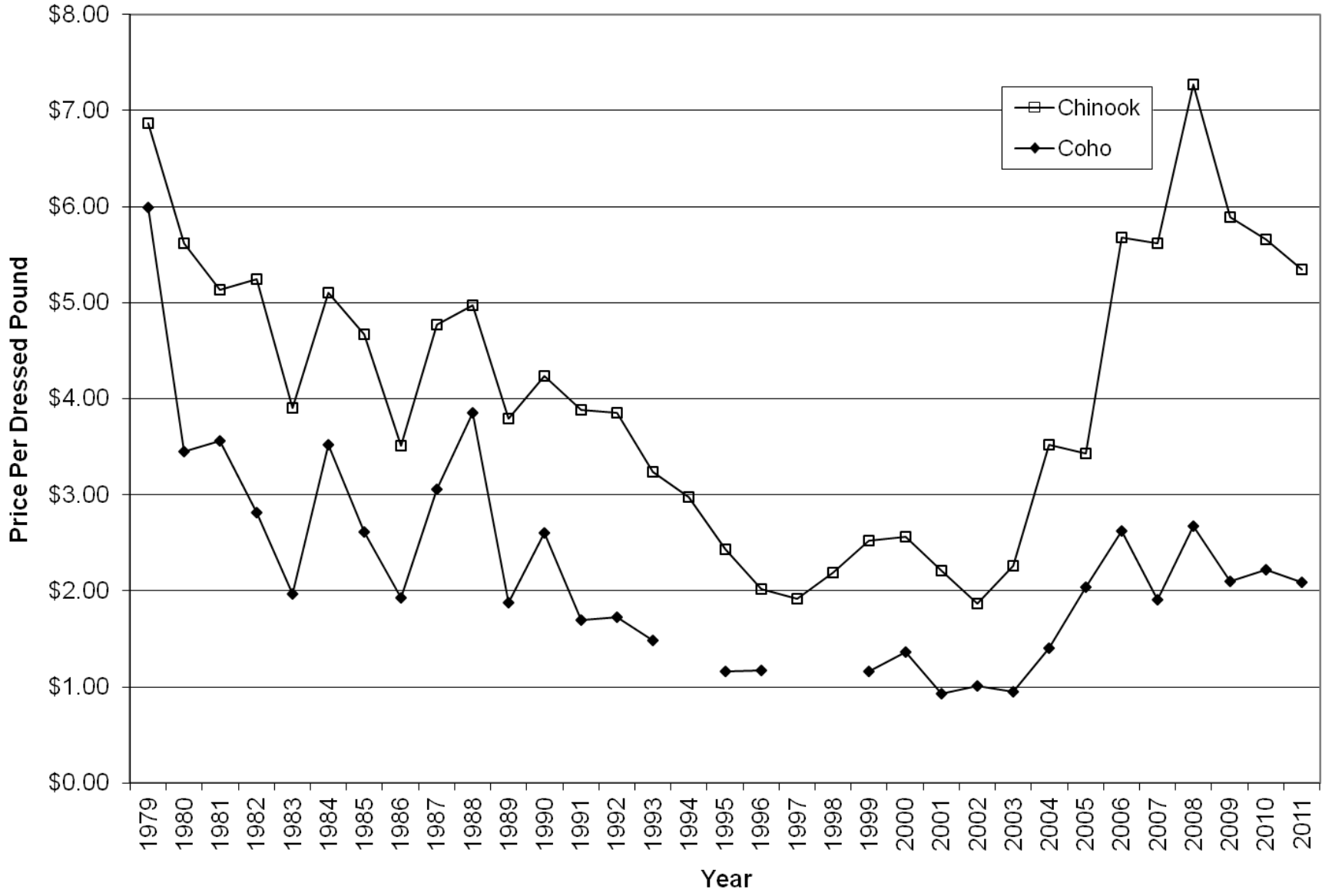


Figure IV-3. West Coast non-Indian ocean commercial salmon annual exvessel prices (inflation adjusted, 2011 dollars).

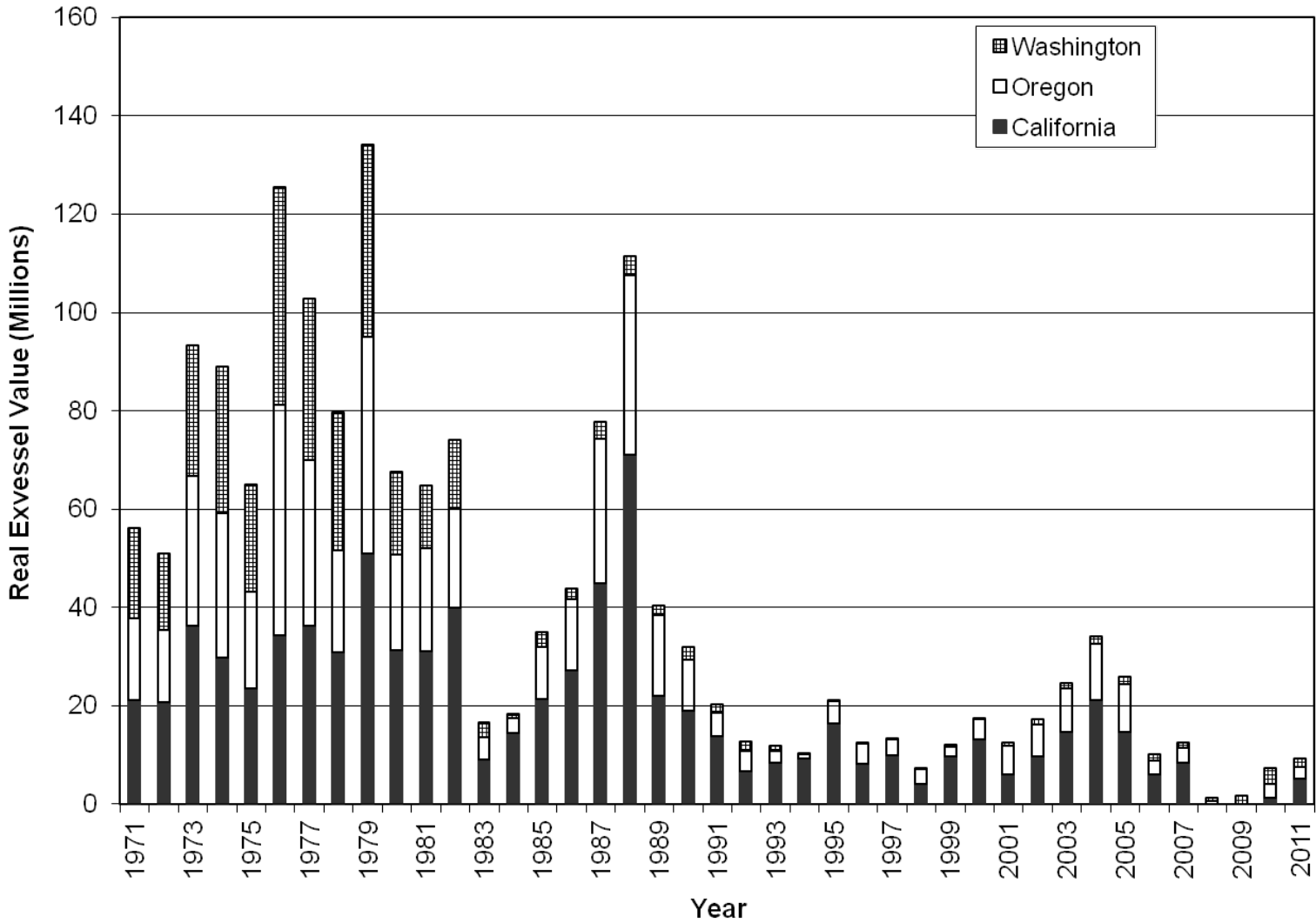


Figure IV-4. Exvessel value of West Coast non-Indian ocean commercial Chinook and coho landings by state of landing (inflation adjusted, 2011 dollars).

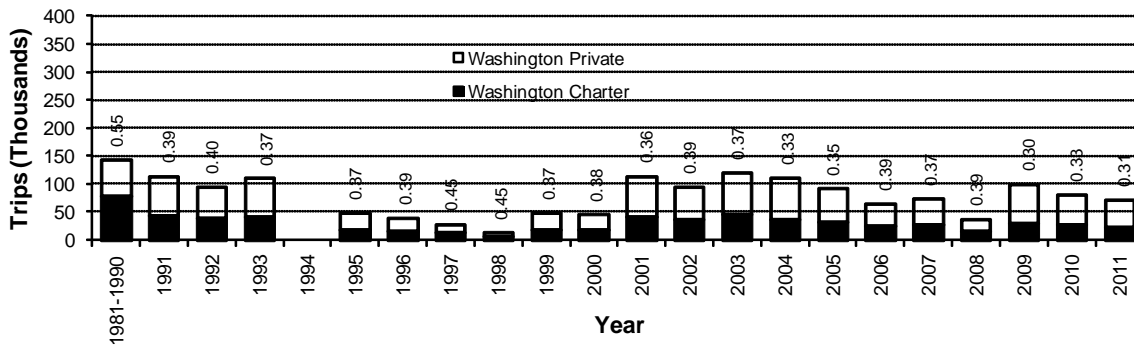
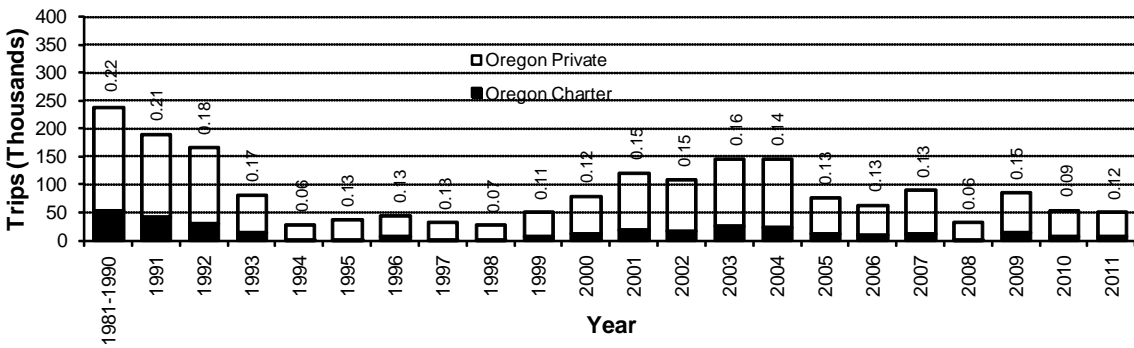
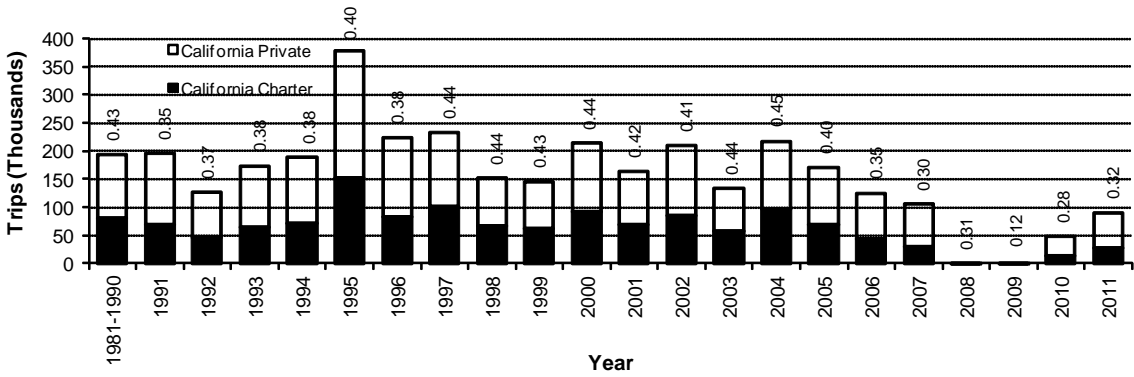


Figure IV-5. Total recreational ocean salmon trips for California, Oregon, and Washington, with proportion of charter trips shown above each bar.

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**APPENDIX A  
HISTORICAL RECORD OF OCEAN SALMON FISHERY  
EFFORT AND LANDINGS**

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

Year or Avg.	Crescent City <sup>a/</sup>	Eureka	Fort Bragg	San Francisco	Monterey	Oregon	Season
<b>DAYS FISHED</b>							
1978-1980 <sup>b/</sup>	18,370	20,654	23,483	22,622	17,277	0	102,405
1981-1985	8,076	8,463	13,716	21,892	10,958	0	63,104
1986-1990	851	2,477	16,392	25,555	14,391	12	59,677
1991-1995	-	600	4,475	13,340	10,820	0	29,235
1996-2000	23	305	1,836	9,526	7,633	0	19,322
2001	18	297	816	8,951	3,759	0	13,841
2002	171	426	2,124	9,145	5,529	8	17,403
2003	50	55	6,296	6,770	2,744	26	15,941
2004	35	262	5,584	10,856	4,769	227	21,733
2005	58	266	1,455	8,670	6,569	-	17,018
2006	-	-	434	5,488	2,337	-	8,259
2007	87	270	1,400	6,736	2,178	-	10,671
2008	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-
2010	-	-	1,486	244	245	-	1,975
2011 <sup>c/</sup>	21	183	2,116	2,839	1,716	-	6,875
<b>CHINOOK</b>							
1978-1980	44,259	166,282	143,867	174,684	89,545	0	618,637
1981-1985	48,548	61,130	109,258	181,548	84,103	0	484,587
1986-1990	13,997	32,329	252,416	351,115	144,846	1,064	795,767
1991-1995	-	4,700	17,354	200,588	126,517	-	349,159
1996-2000	126	3,379	12,529	195,662	156,305	-	368,001
2001	223	5,300	14,993	136,630	35,940	0	193,086
2002	3,663	9,008	65,336	242,872	69,980	796	391,655
2003	1,356	688	248,875	202,876	36,099	2,000	491,894
2004	565	5,695	107,259	298,229	64,707	25,655	502,110
2005	1,255	5,799	45,869	170,531	117,408	-	340,862
2006	-	-	10,835	47,689	11,204	-	69,728
2007	2,367	6,395	16,116	75,254	14,009	-	114,141
2008	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-
2010	-	-	12,553	1,105	1,430	-	15,088
2011 <sup>c/</sup>	420	1,975	39,237	21,790	6,361	-	69,783
<b>COHO</b>							
1978-1980	72,133	90,024	29,918	20,778	9,418	0	222,270
1981-1985	20,094	23,675	14,628	7,728	1,356	0	67,480
1986-1990	3,795	5,998	26,000	9,377	1,611	39	46,819
1991-1995	-	3,100	4,500	26,900	11,775	-	46,275
1996-2000	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-
2006	-	-	-	-	-	-	-
2007	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-
2011	-	-	-	-	-	-	-

a/ Includes minor effort off Oregon for fish landed in California prior to 1986.

b/ Data not available prior to 1978.

c/ Preliminary.

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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
<u>Crescent City<sup>a/</sup></u>								
1978-1980	56	2,043	4,261	6,285	5,025	756	-	18,370
1981-1985	-	1,363	961	1,947	2,509	1,295	-	8,076
1986-1990	-	9	360	219	253	10	-	851
1991-1995	-	-	-	-	-	-	-	-
1996-2000	-	-	-	-	10	13	-	23
2001	-	-	-	-	-	18	-	18
2002	-	-	-	-	27	146	6	179 <sup>b/</sup>
2003	14	2	4	-	-	50	6	76 <sup>b/</sup>
2004	22	-	2	36	167	35	-	262 <sup>b/</sup>
2005	-	-	-	-	-	58	-	58
2006	-	-	-	-	-	-	-	-
2007	-	-	-	-	-	87	-	87
2008	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	-
2011 <sup>c/</sup>	-	-	-	4	17	-	-	21
<u>Eureka</u>								
1978-1980	264	5,684	7,152	4,083	2,323	1,411	-	20,654
1981-1985	-	2,029	1,075	2,608	1,931	821	-	8,463
1986-1990	-	-	882	518	547	467	64	2,477
1991-1995	-	-	-	-	-	500	100	600
1996-2000	-	-	-	-	128	177	-	305
2001	-	-	-	-	-	297	-	297
2002	-	-	-	-	94	332	-	426
2003	-	-	-	-	-	55	-	55
2004	-	-	-	-	-	262	-	262
2005	-	-	-	-	-	266	-	266
2006	-	-	-	-	-	-	-	-
2007	-	-	-	-	-	270	-	270
2008	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	-
2011 <sup>c/</sup>	-	-	-	150	33	-	-	183
<u>Fort Bragg</u>								
1978-1980	29	2,285	4,678	9,987	4,348	2,185	-	23,483
1981-1985	-	2,084	2,156	5,527	2,422	1,527	-	13,716
1986-1990	-	2,775	3,887	5,151	3,802	777	-	16,392
1991-1995	-	100	-	-	3,500	875	-	4,475
1996-2000	-	-	-	-	1,300	536	-	1,836
2001	-	206	-	-	-	610	-	816
2002	-	-	-	216	1,327	581	-	2,124
2003	-	1,022	-	1,497	2,355	1,422	-	6,296
2004	-	-	-	2,426	2,095	1,063	-	5,584
2005	-	-	-	-	-	1,455	-	1,455
2006	-	-	-	-	-	434	-	434
2007	106	-	-	-	1,252	42	-	1,400
2008	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-
2010	-	-	-	616	870	-	-	1,486
2011 <sup>c/</sup>	-	-	-	589	1,365	162	-	2,116

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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
<u>San Francisco</u>								
1978-1980	347	5,780	5,242	7,139	2,417	2,044	-	22,622
1981-1985	727	3,897	2,958	6,819	5,214	3,003	-	21,892
1986-1990	-	6,506	7,111	5,948	4,125	1,864	-	25,555
1991-1995	-	3,480	2,540	2,700	2,840	1,780	-	13,340
1996-2000	100	1,525	1,732	2,730	1,916	1,624	-	9,526
2001	-	2,000	774	2,694	1,392	1,590	501	8,951
2002	-	2,258	1,630	2,856	1,198	1,064	139	9,145
2003	-	1,046	2,228	1,409	1,212	739	136	6,770
2004	-	3,120	2,942	2,724	1,076	704	290	10,856
2005	-	-	-	3,533	2,586	2,150	401	8,670
2006	-	-	-	616	2,549	1,949	374	5,488
2007	-	1,656	-	2,954	1,152	806	168	6,736
2008	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-
2010	-	-	-	244	-	-	-	244
2011 <sup>c/</sup>	-	893	164	845	384	433	120	2,839
<u>Monterey</u>								
1978-1980	1,024	5,293	4,310	4,581	2,220	873	-	17,277
1981-1985	1,311	4,245	2,767	2,746	964	236	-	10,958
1986-1990	-	5,235	4,255	3,367	1,335	198	-	14,391
1991-1995	-	4,360	3,080	2,460	780	140	-	10,820
1996-2000	313	3,117	2,441	1,840	147	88	-	7,633
2001	-	2,688	674	348	27	22	-	3,759
2002	-	1,988	1,617	1,592	291	41	-	5,529
2003	-	1,006	499	791	178	270	-	2,744
2004	-	2,026	1,092	1,147	299	205	-	4,769
2005	-	3,881	377	1,468	779	64	-	6,569
2006	-	2,062	103	34	44	94	-	2,337
2007	-	1,476	29	334	255	84	-	2,178
2008	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-
2010	-	-	-	245	-	-	-	245
2011 <sup>c/</sup>	-	974	333	269	114	26	-	1,716
<u>Total Statewide<sup>a/</sup></u>								
1978-1980	1,718	21,086	25,641	32,076	16,334	7,268	-	102,405
1981-1985	2,037	12,939	9,510	18,736	12,153	5,613	-	58,950
1986-1990	-	14,524	16,246	14,658	9,741	3,316	64	58,549
1991-1995	-	7,860	5,620	5,160	4,320	2,720	100	25,780
1996-2000	363	4,642	4,173	4,570	2,351	2,419	-	18,154
2001	-	4,894	1,448	3,042	1,419	2,537	501	13,841
2002	-	4,246	3,247	4,664	2,937	2,164	145	17,403
2003	14	3,076	2,731	3,697	3,745	2,536	142	15,941
2004	22	5,146	4,036	6,333	3,637	2,269	290	21,733
2005	-	3,881	377	5,001	3,365	3,993	401	17,018
2006	-	2,062	103	650	2,593	2,477	374	8,259
2007	106	3,132	29	3,288	2,659	1,289	168	10,671
2008	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-
2010	-	-	-	1,105	870	-	-	1,975
2011 <sup>c/</sup>	-	1,867	497	1,857	1,913	621	120	6,875

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

b/ Commercial fishery closed except in August (2002) and September (2002-2004); effort for other months reportedly occurred off Oregon.

c/ Preliminary.





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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
	<b>CHINOOK</b>								<b>COHO</b>							
<u>Monterey</u>																
1978-1980	12,314	29,539	23,936	18,117	9,381	3,509	-	89,545	37	3,539	4,986	1,778	72	34	-	9,418
1981-1985	15,312	34,978	16,852	19,382	5,619	1,148	-	84,103	84	149	896	260	65	12	-	1,356
1986-1990	-	61,484	42,139	29,992	9,011	2,220	-	144,846	-	-	1,024	508	89	10	-	1,611
1991-1995	-	51,806	30,129	37,446	5,936	1,200	-	126,517	-	-	9,300	2,400	75	-	-	11,775
1996-2000	5,947	71,787	50,021	30,878	1,131	421	-	156,305	-	-	-	-	-	-	-	-
2001	-	30,037	3,375	2,383	116	29	-	35,940	-	-	-	-	-	-	-	-
2002	-	21,551	24,441	21,328	2,524	136	-	69,980	-	-	-	-	-	-	-	-
2003	-	10,954	9,517	13,728	823	1,077	-	36,099	-	-	-	-	-	-	-	-
2004	-	22,420	26,772	14,033	1,195	287	-	64,707	-	-	-	-	-	-	-	-
2005	-	76,855	5,001	29,105	5,578	869	-	117,408	-	-	-	-	-	-	-	-
2006	-	9,911	391	346	248	308	-	11,204	-	-	-	-	-	-	-	-
2007	-	11,202	156	1,930	605	116	-	14,009	-	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	1,430	-	-	-	1,430	-	-	-	-	-	-	-	-
2011 <sup>c/</sup>	-	3,949	1,348	697	320	47	-	6,361	-	-	-	-	-	-	-	-
<u>Total Statewide<sup>a/</sup></u>																
1978-1980	42,724	200,034	136,693	173,352	67,912	33,804	-	618,637	38	54,897	149,408	53,987	12,921	2,035	-	210,303
1981-1985	31,016	124,589	74,723	145,130	82,132	23,673	-	462,652	92	5,037	12,948	28,164	12,469	1,079	-	58,726
1986-1990	-	240,135	257,835	195,138	77,291	24,112	480	794,703	-	-	23,790	18,257	4,444	1,138	125	46,780
1990-1995	-	121,373	73,940	80,950	42,707	22,878	400	341,928	-	-	25,850	12,250	2,825	3,000	100	42,475
1996-2000	7,580	121,717	101,679	88,632	24,597	28,344	-	368,001	-	-	-	-	-	-	-	-
2001	-	73,044	11,497	63,084	14,172	27,634	3,655	193,086	-	-	-	-	-	-	-	-
2002	-	86,120	93,214	128,032	58,969	24,426	894	391,655	-	-	-	-	-	-	-	-
2003	1,654	73,318	104,301	123,712	111,086	75,779	2,044	491,894	-	-	-	-	-	-	-	-
2004	718	97,596	154,181	162,482	64,211	21,711	1,211	502,110	-	-	-	-	-	-	-	-
2005	-	76,855	5,001	139,928	35,046	81,727	2,305	340,862	-	-	-	-	-	-	-	-
2006	-	9,911	391	16,783	18,589	22,982	1,072	69,728	-	-	-	-	-	-	-	-
2007	748	36,598	156	41,808	23,212	11,267	352	114,141	-	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	8,906	6,182	-	-	15,088	-	-	-	-	-	-	-	-
2011 <sup>c/</sup>	-	11,698	4,157	31,619	20,201	1,788	320	69,783	-	-	-	-	-	-	-	-

a/ Includes minor catches made off Oregon and landed in California prior to 2005.

b/ Commercial fishery closed except in August (2002) and September (2002-2004); catch for other months reportedly occurred off Oregon.

c/ Preliminary.



TABLE A-4. California ocean recreational salmon fishing effort in angler trips by port and month. (Page 1 of 3)

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<u>Crescent City</u>											
1976-1980	--	--	1	41	3,679	9,656	5,384	1,211	0	0	19,973
1981-1985	--	--	0	572	3,912	11,525	6,620	504	0	0	23,133
1986-1990	--	--	-	1,417	11,087	19,316	6,758	981	-	-	39,560
1991-1995	-	-	-	2,376	4,333	9,250	2,319	1,563	-	-	14,334
1996-2000	-	-	-	555	2,320	1,460	2,184	331	-	-	6,849
2001	-	-	-	881	2,141	3,011	2,339	273	-	-	8,645
2002	-	-	-	1,036	1,131	132	1,333	237	-	-	3,869
2003	-	-	-	319	521	521	493	340	-	-	2,194
2004	-	-	-	603	604	689	843	413	-	-	3,152
2005	-	-	-	131	794	492	904	181	-	-	2,502
2006	-	-	-	325	754	312	-	87	-	-	1,478
2007	-	-	-	277	484	1,027	225	69	-	-	2,082
2008	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	498	607	-	-	1,105
2010	-	-	-	72	38	48	33	15	-	-	206
2011 <sup>av</sup>	-	-	-	187	104	245	185	45	-	-	766
<u>Eureka</u>											
1976-1980	--	--	3	315	5,292	12,575	5,346	350	12	0	23,893
1981-1985	--	--	1	1,222	4,740	11,724	4,914	493	14	0	23,108
1986-1990	--	--	-	1,648	9,487	18,674	7,126	963	0	-	37,898
1991-1995	-	-	-	1,480	5,837	8,301	2,249	2,151	21	-	14,789
1996-2000	-	-	-	1,539	3,808	1,758	3,815	723	-	-	11,643
2001	-	-	-	1,994	5,297	3,854	3,855	1,048	-	-	16,048
2002	-	-	-	2,186	5,379	599	7,428	2,082	-	-	17,674
2003	-	-	-	2,226	3,102	2,915	4,176	1,164	-	-	13,583
2004	-	-	-	3,995	3,367	4,725	8,211	2,147	-	-	22,445
2005	-	-	-	1,143	4,795	1,160	5,075	2,654	-	-	14,827
2006	-	-	-	3,951	5,208	2,146	-	3,668	-	-	14,973
2007	-	-	-	1,737	4,987	4,914	5,212	1,511	-	-	18,361
2008	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	2,017	2,237	-	-	4,254
2010	-	-	-	464	638	897	1,841	183	-	-	4,023
2011 <sup>av</sup>	-	-	-	1,656	2,570	4,581	4,583	723	-	-	14,113

TABLE A-4. California ocean recreational salmon fishing effort in angler trips by port and month. (Page 2 of 3)

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<u>Fort Bragg</u>											
1976-1980	--	--	0	117	1,652	5,610	3,703	596	1	0	11,679
1981-1985	--	--	2	53	2,246	5,039	2,074	138	4	0	9,557
1986-1990	0	2	80	705	4,483	7,055	2,464	650	4	0	15,441
1991-1995	161	313	745	2,001	6,137	9,103	5,427	1,316	276	6	20,573
1996-2000	32	374	910	2,269	6,011	3,120	5,059	1,277	265	--	19,117
2001	--	690	1,269	3,402	7,228	9,454	6,879	1,754	107	15	30,798
2002	194	897	2,428	4,889	7,004	8,494	7,458	435	3	0	31,802
2003	607	1,282	938	2,662	5,729	8,252	3,466	768	5	0	23,709
2004	183	999	1,069	2,408	8,760	11,560	4,266	1,061	240	27	30,573
2005	869	521	841	1,910	4,525	6,666	7,994	964	22	0	24,312
2006	289	298	800	2,327	5,917	6,655	4,051	631	0	0	20,968
2007	249	855	692	2,280	5,593	5,271	2,013	146	25	0	17,124
2008	206	185	-	-	-	-	-	-	-	-	391
2009	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	1,269	1,230	743	1,460	1,625	232	-	-	6,559
2011 <sup>av</sup>	-	-	1,522	1,513	2,274	6,209	1,963	650	182	-	14,313
<u>San Francisco</u>											
1976-1980	8,103	10,269	7,245	8,582	10,414	15,307	15,199	12,488	7,866	4,022	97,886
1981-1985	4,117	5,811	6,039	6,892	10,779	15,006	14,061	9,291	5,577	1,343	78,915
1986-1990	4,825	9,832	12,258	8,986	12,572	18,560	15,985	9,606	4,755	1,198	98,579
1991-1995	345	6,148	6,812	8,020	12,807	29,791	17,622	8,726	4,520	148	94,781
1996-2000	-	6,364	9,125	9,112	13,999	27,446	17,266	7,577	3,985	916	93,968
2001	-	-	5,689	8,646	4,968	17,387	15,521	10,727	5,974	2,578	71,490
2002	-	-	5,322	10,758	14,016	28,354	21,029	7,104	1,820	381	88,784
2003	-	-	4,013	8,559	11,885	22,201	11,087	5,945	2,662	264	66,616
2004	-	-	7,232	15,145	15,864	32,723	21,167	8,372	4,063	1,512	106,078
2005	-	-	9,003	10,890	9,888	22,712	13,543	11,925	5,846	965	84,772
2006	-	-	3,860	11,575	13,994	20,739	5,557	3,371	1,827	448	61,371
2007	-	-	3,505	6,915	8,340	13,775	4,908	2,511	1,766	1,394	43,114
2008	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	3,889	1,521	1,693	4,846	5,730	1,673	-	-	19,352
2011 <sup>av</sup>	-	-	2,035	2,240	1,599	8,457	9,033	7,518	3,249	-	34,131

TABLE A-4. California ocean recreational salmon fishing effort in angler trips by port and month. (Page 3 of 3)

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>Monterey</b>											
1976-1980	1,763	2,199	1,984	1,229	931	1,137	498	161	101	56	10,038
1981-1985	990	2,134	2,730	1,953	1,317	1,993	805	164	67	84	12,237
1986-1990	3,447	7,261	11,695	4,141	6,637	10,555	4,182	637	269	364	49,189
1991-1995	505	9,243	15,522	12,159	11,062	16,341	4,519	1,051	1,498	600	71,520
1996-2000	-	11,189	15,209	10,403	11,864	12,301	3,672	762	-	-	63,009
2001	-	883	19,395	10,966	2,071	3,934	604	301	-	-	38,154
2002	-	2,863	32,727	11,892	9,005	8,983	2,304	149	-	-	67,923
2003	-	5,092	10,118	5,834	3,165	4,083	233	--	-	-	28,525
2004	-	-	24,564	11,320	4,443	13,358	2,335	475	0	-	56,495
2005	-	-	14,787	6,997	13,298	8,870	1,354	361	-	-	45,667
2006	-	-	14,538	3,226	5,465	4,311	76	100	-	-	27,716
2007	-	-	10,846	4,102	5,687	2,502	1,611	434	26	-	25,208
2008	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	11,616	4,019	300	2,004	528	60	-	-	18,527
2011 <sup>a/</sup>	-	-	11,963	2,119	3,005	5,520	3,265	1,903	-	-	27,775
<b>Total Statewide</b>											
1976-1980	9,865	12,468	9,233	10,285	21,968	44,285	30,130	14,806	7,981	4,078	163,469
1981-1985	5,107	7,945	8,772	10,692	22,993	45,287	28,475	10,590	5,662	1,426	146,950
1986-1990	8,272	17,094	24,034	16,896	44,266	74,160	36,515	12,837	5,029	1,563	240,667
1991-1995	675	15,641	23,079	25,264	38,143	62,125	30,137	14,807	5,943	302	215,996
1996-2000	32	17,927	25,245	23,878	38,002	46,084	31,995	10,517	4,144	916	194,586
2001	--	1,573	26,353	25,889	21,705	37,640	29,198	14,103	6,081	2,593	165,135
2002	194	3,760	40,477	30,761	36,535	46,562	39,552	10,007	1,823	381	210,052
2003	607	6,374	15,069	19,600	24,402	37,972	19,455	8,217	2,667	264	134,627
2004	183	999	32,865	33,471	33,038	63,055	36,822	12,468	4,303	1,539	218,743
2005	869	521	24,631	21,071	33,300	39,900	28,870	16,085	5,868	965	172,080
2006	289	298	19,198	21,404	31,338	34,163	9,684	7,857	1,827	448	126,506
2007	249	855	15,043	15,311	25,091	27,489	13,969	4,671	1,817	1,394	105,889
2008	206	185	-	-	-	-	-	-	-	-	391
2009	-	-	-	-	-	-	2,515	2,844	-	-	5,359
2010	-	-	16,774	7,306	3,412	9,255	9,757	2,163	-	-	48,667
2011 <sup>a/</sup>	-	-	15,520	7,715	9,552	25,012	19,029	10,839	3,431	-	91,098

a/ Preliminary.

TABLE A-5. California ocean recreational salmon landings in numbers of fish by port of landing and month. (Page 1 of 2)

Year or Avg.	CHINOOK										COHO											
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>Crescent City</b>																						
1976-1980	--	--	0	2	470	1,756	1,286	81	0	0	3,595	--	--	0	9	3,087	6,587	2,049	156	0	0	11,889
1981-1985	--	--	0	497	1,439	3,107	1,925	65	0	0	7,032	--	--	0	23	1,222	4,403	1,656	72	0	0	7,376
1986-1990	--	--	-	414	4,552	7,689	1,640	315	-	-	14,610	--	--	-	71	3,561	8,430	1,645	141	-	-	13,847
1991-1995	-	-	-	1,316	1,402	1,101	301	405	-	-	3,481	-	-	-	5	2,223	5,171	725	133	-	-	5,597
1996-2000	-	-	-	166	827	680	659	81	-	-	2,413	-	-	-	4	27	23	21	19	-	-	61
2001	-	-	-	484	607	533	507	105	-	-	2,236	-	-	-	3	52	24	16	-	-	-	95
2002	-	-	-	283	245	31	392	156	-	-	1,107	-	-	-	-	26	3	4	-	-	-	33
2003	-	-	-	62	76	60	90	103	-	-	391	-	-	-	-	4	-	12	-	-	-	16
2004	-	-	-	487	259	172	309	63	-	-	1,290	-	-	-	8	7	40	24	-	-	-	79
2005	-	-	-	11	829	389	240	29	-	-	1,498	-	-	-	-	4	-	17	-	-	-	21
2006	-	-	-	252	273	216	-	15	-	-	756	-	-	-	3	9	8	-	-	-	-	20
2007	-	-	-	30	198	589	27	27	-	-	871	-	-	-	-	8	43	-	5	-	-	56
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	36	111	-	-	147	-	-	-	-	-	-	-	3	-	-	3
2010	-	-	-	0	0	0	0	0	-	-	0	-	-	-	-	-	-	-	-	-	-	-
2011 <sup>#</sup>	-	-	-	36	12	42	18	5	-	-	113	-	-	-	-	-	-	-	-	-	-	-
<b>Eureka</b>																						
1976-1980	--	--	0	159	1,247	3,656	953	56	4	0	6,075	--	--	1	97	4,135	7,074	1,734	74	0	0	13,114
1981-1985	--	--	1	1,284	2,226	4,927	1,075	73	8	0	9,594	--	--	0	157	2,585	5,755	1,718	151	0	0	10,366
1986-1990	--	--	-	953	4,926	6,722	3,014	184	0	-	15,798	--	--	-	660	5,551	12,445	2,726	269	0	-	21,651
1991-1995	-	-	-	621	3,097	1,890	725	625	1	-	5,313	-	-	-	209	3,364	5,067	506	381	2	-	6,642
1996-2000	-	-	-	805	1,948	992	2,064	239	-	-	6,049	-	-	-	12	38	16	44	12	-	-	108
2001	-	-	-	1,399	3,622	2,113	2,025	1,429	-	-	10,588	-	-	-	8	50	20	13	-	-	-	91
2002	-	-	-	2,259	4,991	564	5,487	1,723	-	-	15,024	-	-	-	10	196	23	24	9	-	-	262
2003	-	-	-	2,875	1,764	1,379	1,686	657	-	-	8,361	-	-	-	29	50	8	34	-	-	-	121
2004	-	-	-	5,496	1,946	4,377	7,153	2,582	-	-	21,554	-	-	-	184	76	74	123	24	-	-	481
2005	-	-	-	1,015	6,485	1,879	4,020	2,647	-	-	16,046	-	-	-	24	44	3	11	48	-	-	130
2006	-	-	-	4,316	5,413	2,113	-	3,805	-	-	15,647	-	-	-	88	20	25	-	88	-	-	221
2007	-	-	-	797	5,050	4,296	6,037	1,845	-	-	18,025	-	-	-	-	105	96	108	36	-	-	345
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	266	259	-	-	525	-	-	-	-	-	-	-	5	-	-	5
2010	-	-	-	17	158	37	477	31	-	-	720	-	-	-	-	-	-	50	-	-	-	50
2011 <sup>#</sup>	-	-	-	624	926	4,202	3,653	296	-	-	9,701	-	-	-	5	10	50	29	4	-	-	98
<b>Fort Bragg</b>																						
1976-1980	--	--	0	19	367	1,724	1,212	100	0	0	3,423	--	--	0	59	634	1,239	391	82	0	0	2,406
1981-1985	--	--	1	29	616	1,553	319	11	1	0	2,530	--	--	0	0	224	568	137	3	0	0	932
1986-1990	0	1	85	360	2,626	3,857	674	71	2	0	7,676	0	0	0	38	860	1,862	264	70	0	0	3,094
1991-1995	52	85	429	1,182	5,940	2,869	2,378	456	43	1	11,801	0	1	4	177	1,847	7,157	678	111	10	0	6,985
1996-2000	6	112	641	1,433	4,923	3,268	3,312	728	37	-	14,291	-	-	3	8	66	20	46	17	-	-	123
2001	--	464	516	2,663	6,305	10,402	5,348	358	6	2	26,064	-	-	-	57	199	145	36	-	-	-	437
2002	14	200	2,496	3,960	8,636	11,582	4,151	163	0	0	31,202	-	-	-	3	47	127	30	-	-	-	207
2003	444	845	428	1,222	5,063	6,353	1,420	400	5	0	16,180	-	-	-	3	45	45	11	5	-	-	109
2004	41	510	107	1,657	8,494	10,211	1,334	729	122	0	23,205	-	-	-	64	230	61	21	-	-	-	376
2005	285	111	183	1,142	3,848	6,632	9,642	335	5	0	22,183	-	-	-	-	48	28	-	-	-	-	76
2006	55	109	255	1,418	4,630	4,672	2,743	111	0	0	13,993	-	-	-	19	140	176	40	-	-	-	375
2007	48	200	67	1,425	1,873	1,980	158	0	0	0	5,751	-	-	-	5	12	4	-	-	-	-	21
2008	0	6	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	204	264	27	417	657	109	-	-	1,678	-	-	-	7	-	15	19	-	-	-	41
2011 <sup>#</sup>	-	-	878	682	915	3,931	507	204	118	-	7,235	-	-	-	-	18	83	4	-	5	-	110

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

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>San Francisco</b>																						
1976-1980	5,338	7,787	7,423	5,763	10,882	14,396	8,390	7,292	6,618	1,328	75,216	4	8	229	1,341	875	883	203	53	14	2	3,611
1981-1985	5,339	5,819	5,505	7,181	12,346	16,869	16,032	8,497	5,527	1,367	84,484	0	1	11	138	439	323	145	37	29	0	1,123
1986-1990	4,510	10,976	16,873	8,315	12,172	17,167	15,479	7,596	4,108	1,094	98,291	0	1	38	159	339	379	480	83	12	0	1,490
1991-1995	106	5,185	7,028	6,921	14,149	33,404	13,387	8,221	3,591	52	91,971	1	8	17	71	1,035	1,184	157	31	13	0	2,517
1996-2000	-	6,310	8,191	8,343	13,124	27,456	12,395	4,759	2,955	982	82,664	-	-	-	8	60	68	12	15	6	-	140
2001	-	-	3,314	6,207	1,613	11,167	6,717	6,552	3,065	1,221	39,856	-	-	-	165	8	306	10	-	-	-	489
2002	-	-	4,953	13,189	17,955	34,305	13,097	3,100	348	61	87,008	-	-	2	19	72	191	16	-	-	-	300
2003	-	-	4,707	9,358	13,179	19,974	5,067	3,288	1,043	0	56,616	-	-	-	38	71	94	-	4	-	-	207
2004	-	-	6,847	18,714	23,692	47,484	22,562	7,887	2,696	338	130,220	-	-	-	41	40	236	140	13	-	-	470
2005	-	-	7,878	10,827	12,593	20,653	5,959	10,609	3,950	355	72,824	-	-	-	16	147	110	-	-	-	-	273
2006	-	-	1,803	12,416	18,151	20,092	1,280	861	256	67	54,926	-	-	-	57	296	310	9	-	-	-	672
2007	-	-	796	4,245	4,642	5,419	650	278	441	325	16,796	-	-	-	37	30	114	9	14	-	-	204
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	1,004	452	598	1,764	2,012	286	-	-	6,116	-	-	-	-	68	-	-	-	8	-	76
2011 <sup>a/</sup>	-	-	429	919	320	4,429	6,478	5,850	1,140	-	19,565	-	-	-	-	17	26	-	-	-	-	43
<b>Monterey</b>																						
1976-1980	493	717	1,292	456	532	437	92	41	45	11	4,114	6	6	9	39	43	29	7	0	0	0	139
1981-1985	608	1,446	1,731	444	341	568	236	22	18	43	5,457	0	0	10	11	17	12	20	0	0	0	70
1986-1990	1,120	4,312	9,407	1,362	4,126	7,467	1,704	167	129	225	30,020	0	0	18	15	101	144	28	1	0	0	306
1991-1995	215	6,106	14,107	7,457	7,574	18,690	2,519	248	1,032	372	57,730	0	0	2	12	245	361	34	0	6	0	657
1996-2000	-	7,763	15,030	7,820	11,023	9,943	1,908	490	-	-	52,326	-	-	-	-	19	12	4	-	-	-	20
2001	-	792	14,229	3,022	235	1,552	89	120	-	-	20,039	-	-	4	198	4	11	-	-	-	-	217
2002	-	2,779	30,310	4,784	3,751	5,441	611	27	-	-	47,703	-	-	-	-	11	15	-	-	-	-	26
2003	-	3,133	4,434	1,629	801	3,115	14	-	-	-	13,126	-	-	-	29	81	50	-	-	-	-	160
2004	-	-	24,516	4,476	1,762	12,916	1,074	101	0	-	44,845	-	-	-	-	9	9	-	-	-	-	18
2005	-	-	6,194	2,303	14,910	6,809	414	76	-	-	30,706	-	-	-	19	95	85	-	-	-	-	199
2006	-	-	7,350	399	1,318	1,893	0	10	-	-	10,970	-	-	-	32	204	102	-	-	-	-	338
2007	-	-	2,289	735	2,098	681	346	112	0	-	6,261	-	-	-	16	69	23	12	-	-	-	120
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	4,057	1,692	5	387	154	0	-	-	6,295	-	-	8	-	-	-	-	-	-	-	8
2011 <sup>a/</sup>	-	-	4,206	270	1,168	3,934	2,162	666	-	-	12,406	-	-	8	10	27	7	13	-	-	-	65
<b>Total Statewide</b>																						
1976-1980	5,830	8,504	8,715	6,399	13,497	21,969	11,933	7,569	6,667	1,338	92,422	10	14	239	1,545	8,774	15,812	4,383	366	15	2	31,158
1981-1985	5,947	7,266	7,239	9,435	16,968	27,024	19,587	8,667	5,554	1,410	109,097	0	1	21	329	4,486	11,061	3,677	262	29	0	19,866
1986-1990	5,630	15,288	26,365	11,404	28,402	42,902	22,512	8,333	4,240	1,319	166,395	0	1	56	943	10,412	23,259	5,142	563	12	0	40,388
1991-1995	244	11,376	21,564	17,109	31,262	55,610	18,628	9,956	4,451	239	170,296	0	9	23	389	7,597	11,982	1,717	656	25	0	22,399
1996-2000	6	14,184	23,734	18,567	31,846	42,339	20,338	6,198	2,977	982	157,742	-	-	3	16	167	126	125	29	6	-	452
2001	-	1,256	18,059	13,775	12,382	25,767	14,686	8,564	3,071	1,223	98,783	-	-	4	431	313	506	75	-	-	-	1,329
2002	14	2,979	37,759	24,475	35,578	51,923	23,738	5,169	348	61	182,044	-	-	2	32	352	359	74	9	-	-	828
2003	444	3,978	9,569	15,146	20,883	30,881	8,277	4,448	1,048	0	94,674	-	-	-	99	251	197	57	9	-	-	613
2004	41	510	31,470	30,830	36,153	75,160	32,432	11,362	2,818	338	221,114	-	-	-	233	196	589	348	58	-	-	1,424
2005	285	111	14,255	15,298	38,665	36,362	20,275	13,696	3,955	355	143,257	-	-	-	59	290	246	56	48	-	-	699
2006	55	109	9,408	18,801	29,785	28,986	4,023	4,802	256	67	96,292	-	-	-	199	669	621	49	88	-	-	1,626
2007	48	200	3,152	7,232	13,861	12,965	7,218	2,262	441	325	47,704	-	-	-	53	217	288	133	55	-	-	746
2008	0	6	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	302	370	-	-	672	-	-	-	-	-	-	-	8	-	-	8
2010	-	-	5,265	2,425	788	2,605	3,300	426	-	-	14,809	-	-	8	7	68	15	69	8	-	-	175
2011 <sup>a/</sup>	-	-	5,513	2,531	3,341	16,538	12,818	7,021	1,258	-	49,020	-	-	8	15	72	166	46	4	5	-	316

a/ Preliminary.

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

Year or Average	Astoria	Tillamook	Newport	Coos Bay	Brookings	Oregon Subtotal	Alaska	Washington	California	Total
<b>DAYS FISHED</b>										
1976-1980	2,875	7,782	15,029	20,620	9,578	55,885	0	1	0	55,886
1981-1985	1,096	3,409	6,008	9,960	5,024	25,496	8	295	210	26,009
1986-1990	659	6,887	8,650	20,307	1,652	38,154	3	74	44	38,275
1991-1995	374	1,941	4,722	2,011	196	9,016	0	22	7	9,046
1996-2000	70	947	3,733	2,135	316	7,187	0	12	31	7,230
2001	242	1,357	5,248	3,830	471	11,148	0	19	26	11,193
2002	430	1,648	4,391	4,804	428	11,701	0	286	7	11,994
2003	413	1,889	4,562	5,026	528	12,418	0	101	9	12,528
2004	347	1,341	4,839	6,159	518	13,204	0	221	0	13,425
2005	516	1,722	4,279	4,857	249	11,623	0	0	0	11,623
2006	981	749	2,248	367	183	4,528	0	0	0	4,528
2007	325	703	1,115	2,626	464	5,233	0	0	0	5,233
2008	661	49	-	48	51	809	0	0	-	809
2009	528	271	284	136	-	1,219	0	0	-	1,219
2010	634	400	1,521	1,555	181	4,291	0	0	-	4,291
2011 <sup>b/</sup>	288	218	736	2,187	286	3,715	0	0	-	3,715
<b>CHINOOK LANDINGS</b>										
1976-1980	15,336	11,222	46,613	85,563	73,899	232,632	300	2,800	900	236,632
1981-1985	5,556	5,901	27,917	63,507	42,623	145,503	89	2,982	2,157	150,731
1986-1990	3,477	26,242	82,957	253,426	28,825	394,927	137	1,179	1,386	397,628
1991-1995	937	6,887	76,934	15,554	1,679	100,945	0	212	276	101,432
1996-2000	572	8,191	81,290	36,042	3,542	129,523	0	54	597	130,175
2001	4,091	26,357	168,644	72,272	3,599	274,963	0	1,194	539	276,696
2002	12,797	30,331	132,084	122,174	6,803	304,189	0	14,966	182	319,337
2003	10,384	33,516	148,550	132,156	5,072	329,678	0	3,188	833	333,699
2004	3,118	9,677	91,288	140,142	8,484	252,709	0	8,522	0	261,231
2005	10,085	27,980	90,064	120,900	2,266	251,295	0	0	0	251,295
2006	10,489	2,756	19,003	1,979	738	34,965	0	0	0	34,965
2007	1,443	4,178	4,064	21,705	4,097	35,487	0	0	0	35,487
2008	5,434	76	-	208	236	5,954	0	0	-	5,954
2009	712	144	-	293	-	1,149	0	0	-	1,149
2010	11,120	3,648	12,377	11,419	869	39,433	0	0	-	39,433
2011 <sup>b/</sup>	2,836	1,099	4,942	21,740	1,317	31,934	0	0	-	31,934

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

Year or Average	Astoria	Tillamook	Newport	Coos Bay	Brookings	Oregon Subtotal	Alaska	Washington	California	Total
<b>COHO LANDINGS</b>										
1976-1980	73,122	126,085	192,121	290,131	60,235	741,694	1,800	9,300	300	753,094
1981-1985	21,305	84,331	109,715	131,470	24,728	301,499	0	9,590	621	311,710
1986-1990	21,364	106,658	135,872	132,522	6,375	397,243	7	4,179	279	401,708
1991-1995	9,949	48,905	41,190	35,625	-	119,367	0	106	55	119,527
1996-2000	12,258	-	-	8	-	6,133	0	57	-	6,190
2001	9,333	-	-	-	-	9,333	0	34	-	9,367
2002	1,515	-	-	-	-	1,515	0	0	-	1,515
2003	6,441	-	-	-	-	6,441	0	270	-	6,711
2004	8,839	-	-	-	-	8,839	0	453	-	9,292
2005	2,618	-	-	-	-	2,618	0	0	-	2,618
2006	1,414	-	-	-	-	1,414	0	0	-	1,414
2007	11,553	1,279	1,872	2,391	-	17,095	0	0	-	17,095
2008	435	-	-	-	-	435	0	0	-	435
2009	12,688	3,491	5,103	686	-	21,968	0	0	-	21,968
2010	1,038	-	-	-	-	1,038	0	0	-	1,038
2011 <sup>b/</sup>	464	-	-	-	-	464	0	0	-	464

a/ Days fished and landings are reported by port of landing through 1978 and by area of catch beginning in 1979. Catch and landing areas include the following port areas: Astoria area includes Oregon ports from Astoria through Cannon Beach; Tillamook area includes Nehalem through Pacific City; Newport area includes Depoe Bay through Waldport; Coos Bay area prior to 1986 includes Florence through Bandon and after 1987 includes Florence through Port Orford; Brookings area prior to 1986 includes Port Orford through Brookings and after 1987 includes Gold Beach through Brookings. Values include state-waters only terminal area fisheries.

b/ Preliminary.

TABLE A-7. Oregon commercial troll salmon effort in days fished by area and month.<sup>a/</sup> (Page 1 of 4)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
<u>Astoria</u>											
1976-1980	-	-	205	299	1,220	844	251	56	-	1	2,875
1981-1985	-	-	402	0	322	338	33	0	-	-	1,096
1986-1990	-	-	146	26	183	579	273	22	-	-	659
1991-1995	-	-	58	43	50	166	111	-	-	-	374
1996-2000	-	-	2	2	-	246	18	-	-	-	70
2001	-	-	5	26	84	100	27	-	-	-	242
2002	-	-	24	56	156	194	-	-	-	-	430
2003	-	-	95	20	111	143	44	-	-	-	413
2004	-	-	48	1	66	88	144	-	-	-	347
2005	-	-	216	36	30	234	-	-	-	-	516
2006	-	-	510	299	2	77	93	-	-	-	981
2007	-	-	77	46	40	148	14	-	-	-	325
2008	-	-	279	282	33	57	10	-	-	-	661
2009	-	-	72	85	232	130	9	-	-	-	528
2010	-	-	69	288	141	120	16	-	-	-	634
2011 <sup>b/</sup>	-	-	85	119	45	24	15	-	-	-	288
<u>Tillamook</u>											
1976-1980	-	-	23	1,152	3,574	2,656	316	62	-	-	7,782
1981-1985	-	-	98	47	2,030	999	140	94	-	-	3,409
1986-1990	-	-	182	328	2,931	1,831	1,007	604	17	-	6,887
1991-1995	-	-	96	95	714	476	558	513	2	-	1,941
1996-2000	-	-	71	188	61	186	276	186	13	-	947
2001	-	46	101	227	307	302	248	117	9	-	1,357
2002	13	19	132	242	125	323	396	394	4	-	1,648
2003	9	15	534	453	159	148	285	264	22	-	1,889
2004	15	201	226	136	106	126	290	227	14	-	1,341
2005	247	40	347	710	-	-	287	90	1	-	1,722
2006	-	-	-	177	11	34	178	318	31	-	749
2007	-	8	284	101	4	86	95	95	30	-	703
2008	-	-	-	-	-	-	37	12	--	-	49
2009	-	-	-	-	-	-	247	24	-	-	271
2010	-	-	32	176	109	37	37	9	-	-	400
2011 <sup>b/</sup>	-	1	24	96	21	23	30	23	-	-	218



TABLE A-7. Oregon commercial troll salmon effort in days fished by area and month.<sup>a/</sup> (Page 2 of 4)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
<u>Newport</u>											
1976-1980	-	-	300	1,662	6,370	5,374	1,003	321	1	-	15,029
1981-1985	-	-	600	300	3,004	1,728	198	174	4	-	6,008
1986-1990	-	-	826	1,180	3,835	1,597	619	594	-	-	8,650
1991-1995	-	-	945	1,236	1,176	1,159	601	554	-	-	4,722
1996-2000	-	-	920	915	329	848	453	241	-	-	3,733
2001	-	446	1,264	1,033	495	1,081	591	338	-	-	5,248
2002	186	345	788	471	278	411	746	1,166	-	-	4,391
2003	41	265	884	528	470	626	927	821	-	-	4,562
2004	485	1,060	1,279	628	383	405	496	103	-	-	4,839
2005	296	145	554	1,953	-	-	1,005	326	-	-	4,279
2006	-	-	-	857	476	152	423	248	92	-	2,248
2007	-	81	354	294	94	166	91	29	6	-	1,115
2008	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	284	-	-	-	284
2010	-	-	478	409	288	346	-	-	-	-	1,521
2011 <sup>b/</sup>	-	60	323	220	22	101	-	10	-	-	736
<u>Coos Bay</u>											
1976-1980	-	-	524	2,531	9,644	6,069	1,491	355	2,628	2,628	20,620
1981-1985	-	-	714	664	5,159	2,633	604	180	5	-	9,960
1986-1990	-	-	2,737	2,986	7,267	4,665	1,588	964	497	-	20,307
1991-1995	-	-	193	696	554	418	287	255	88	-	2,011
1996-2000	-	-	291	471	570	498	243	209	104	-	2,135
2001	-	445	646	720	556	668	375	293	126	1	3,830
2002	168	476	792	1,252	279	559	465	644	154	15	4,804
2003	125	1,110	1,439	560	273	573	453	362	117	14	5,026
2004	406	1,245	632	1,055	336	1,302	573	374	215	21	6,159
2005	755	184	1,931	-	-	-	1,227	544	141	75	4,857
2006	-	-	-	-	-	-	30	156	155	26	367
2007	-	249	560	396	166	891	118	120	125	1	2,626
2008	-	-	-	-	-	-	-	-	48	-	48
2009	-	-	-	-	-	-	100	36	-	-	136
2010	-	-	508	400	167	332	-	148	-	-	1,555
2011 <sup>b/</sup>	-	256	537	754	57	79	72	202	230	-	2,187

TABLE A-7. Oregon commercial troll salmon effort in days fished by area and month.<sup>a/</sup> (Page 3 of 4)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
<b>Brookings</b>											
1976-1980	-	-	187	1,090	3,079	2,241	1,469	939	572	-	9,578
1981-1985	-	-	265	188	1,367	1,708	427	732	336	-	5,024
1986-1990	-	-	319	647	556	607	125	224	217	-	1,652
1991-1995	-	-	45	-	48	56	22	186	-	-	196
1996-2000	-	-	55	-	-	80	47	150	-	-	316
2001	-	-	18	41	-	150	96	166	-	-	471
2002	3	15	22	73	82	67	70	96	-	-	428
2003	0	7	47	70	109	106	80	107	2	-	528
2004	2	9	73	139	102	53	61	61	18	-	518
2005	6	1	-	-	-	-	114	110	18	-	249
2006	-	-	-	-	-	-	6	150	27	-	183
2007	-	6	8	137	99	95	60	47	12	-	464
2008	-	-	-	-	-	-	-	51	-	-	51
2009	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	43	-	26	40	-	72	-	-	181
2011 <sup>b/</sup>	-	-	60	60	8	84	-	74	-	-	286
<b>South of Cape Falcon</b>											
1976-1980	-	-	1,034	6,435	22,667	16,340	4,280	1,677	577	-	53,010
1981-1985	-	-	1,678	1,199	11,559	7,068	1,368	1,180	346	-	24,400
1986-1990	-	-	4,065	5,011	14,144	8,457	3,289	2,296	292	-	37,495
1991-1995	-	-	1,252	2,027	1,845	1,654	1,339	1,396	88	-	8,792
1996-2000	-	-	1,337	1,579	960	1,612	992	786	116	-	7,131
2001	-	937	2,029	2,021	1,358	2,201	1,310	914	135	1	10,906
2002	370	855	1,734	2,038	764	1,360	1,677	2,300	158	15	11,271
2003	175	1,397	2,904	1,611	1,011	1,453	1,745	1,554	141	14	12,005
2004	908	2,515	2,210	1,958	927	1,886	1,420	765	247	21	12,857
2005	1,304	370	2,832	2,663	-	-	2,633	1,070	160	75	11,107
2006	-	-	-	1,034	487	186	637	872	305	26	3,547
2007	-	344	1,206	928	363	1,238	364	291	173	1	4,908
2008	-	-	-	-	-	-	37	63	48	-	148
2009	-	-	-	-	-	-	631	60	-	-	691
2010	-	-	1,061	985	590	755	37	229	-	-	3,657
2011 <sup>b/</sup>	-	317	944	1,130	108	287	102	309	230	-	3,427

TABLE A-7. Oregon commercial troll salmon effort in days fished by area and month.<sup>a/</sup> (Page 4 of 4)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
<b>Statewide Total</b>											
1976-1980	-	-	1,238	6,734	23,887	17,184	4,531	1,733	577	1	55,885
1981-1985	-	-	2,080	1,199	11,881	7,407	1,401	1,181	346	-	25,496
1986-1990	-	-	4,211	5,027	14,180	8,804	3,398	2,301	292	-	38,154
1991-1995	-	-	1,287	1,647	1,870	1,753	1,384	1,396	88	-	9,016
1996-2000	-	-	1,339	1,581	960	1,661	995	786	116	-	7,187
2001	-	937	2,034	2,047	1,442	2,301	1,337	914	135	1	11,148
2002	370	855	1,758	2,094	920	1,554	1,677	2,300	158	15	11,701
2003	175	1,397	2,999	1,631	1,122	1,596	1,789	1,554	141	14	12,418
2004	908	2,515	2,258	1,959	993	1,974	1,564	765	247	21	13,204
2005	1,304	370	3,048	2,699	30	234	2,633	1,070	160	75	11,623
2006	-	-	510	1,333	489	263	730	872	305	26	4,528
2007	-	344	1,283	974	403	1,386	378	291	173	1	5,233
2008	-	-	279	282	33	57	47	63	48	-	809
2009	-	-	72	85	232	130	640	60	-	-	1,219
2010	-	-	1,130	1,273	731	875	53	229	-	-	4,291
2011 <sup>b/</sup>	-	317	1,029	1,249	153	311	117	309	230	-	3,715

a/ Summary of ODFW fish receiving ticket information. Beginning in 1979, monthly totals are the sum of statistical weeks with closest fit to the calendar month. Excludes effort occurring off Alaska, Washington, and California. Days fished data are reported by port of landing through 1978 and by area of catch beginning in 1979. Catch and landing areas include the following port areas: Astoria area includes Oregon ports from Astoria through Cannon Beach; Tillamook area includes Nehalem through Pacific City; Newport area includes Depoe Bay through Waldport; Coos Bay area prior to 1986 includes Florence through Bandon and after 1987 includes Florence through Port Orford; Brookings area prior to 1986 includes Port Orford through Brookings and after 1987 includes Gold Beach through Brookings. Values include state-waters only terminal area fisheries.

b/ Preliminary.

TABLE A-8. Oregon commercial troll Chinook and coho salmon landings in numbers of fish by catch area and month.<sup>a/</sup> (Page 1 of 4)

Year or Avg.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season	June	July	Aug.	Sept.	Oct.	Season
	<b>CHINOOK</b>											<b>COHO</b>					
<u>Astoria</u>																	
1952-1975	6,179	4,901	4,813	3,439	2,234	2,715	973	346	-	-	20,451	13,070	24,252	20,450	11,547	1,263	70,582
1976-1980	-	-	5,039	4,624	3,123	1,480	492	577	-	-	15,336	28,655	31,526	12,401	5,569	879	73,122
1981-1985	-	-	4,738	0	499	293	23	2	-	-	5,556	-	18,828	11,874	2,543	-	21,305
1986-1990	-	-	1,791	363	2,225	1,172	765	71	-	-	3,477	-	7,390	21,733	6,281	304	21,364
1991-1995	-	-	318	322	78	187	88	-	-	-	937	-	435	7,655	3,007	-	9,949
1996-2000	-	-	9	64	-	1,951	49	-	-	-	572	-	-	11,600	658	-	12,258
2001	-	-	380	1,704	925	753	329	-	-	-	4,091	-	3,701	3,376	2,256	-	9,333
2002	-	-	855	3,189	4,241	4,512	-	-	-	-	12,797	-	-	1,515	-	-	1,515
2003	-	-	4,927	1,171	1,310	2,377	599	-	-	-	10,384	-	1,473	3,657	1,311	-	6,441
2004	-	-	1,884	17	381	331	505	-	-	-	3,118	-	718	1,399	6,722	-	8,839
2005	-	-	5,119	927	367	3,672	-	-	-	-	10,085	-	204	2,414	-	-	2,618
2006	-	-	7,167	3,168	1	61	92	-	-	-	10,489	-	10	1,182	222	-	1,414
2007	-	-	777	374	115	163	14	-	-	-	1,443	22	1,040	10,334	157	-	11,553
2008	-	-	2,616	2,508	129	161	20	-	-	-	5,434	-	49	357	29	-	435
2009	-	-	119	232	240	117	4	-	-	-	712	-	9,065	3,458	165	-	12,688
2010	-	-	580	6,652	2,121	1,657	110	-	-	-	11,120	-	636	367	35	-	1,038
2011 <sup>b/</sup>	-	-	1,057	1,400	114	239	26	-	-	-	2,836	-	234	147	83	-	464
<u>Tillamook</u>																	
1952-1975	-	3	47	436	853	1,355	324	59	-	-	3,078	6,799	24,958	22,977	2,518	102	57,355
1976-1980	-	-	476	3,256	4,108	2,688	505	189	-	-	11,222	49,936	66,185	27,829	2,034	124	126,085
1981-1985	-	-	1,547	283	2,380	1,210	281	199	7	-	5,901	-	68,832	20,120	1,637	-	84,331
1986-1990	-	-	1,745	3,147	8,129	6,212	4,946	2,060	11	-	26,242	-	82,150	29,287	5,397	-	106,658
1991-1995	-	-	306	375	1,435	2,843	1,922	1,607	7	-	6,887	-	45,367	7,065	-	-	48,905
1996-2000	-	-	363	2,863	370	2,082	1,413	1,259	21	-	8,191	-	-	-	-	-	-
2001	-	791	927	4,799	7,629	6,776	3,968	1,425	42	-	26,357	-	-	-	-	-	-
2002	131	98	1,270	4,684	1,671	5,361	6,983	10,128	5	-	30,331	-	-	-	-	-	-
2003	335	84	13,970	11,718	1,205	1,451	2,649	2,071	33	-	33,516	-	-	-	-	-	-
2004	31	2,967	3,373	562	332	457	1,001	882	72	-	9,677	-	-	-	-	-	-
2005	7,027	498	6,451	10,655	-	-	2,480	866	3	-	27,980	-	-	-	-	-	-
2006	-	-	-	1,153	60	39	450	959	95	-	2,756	-	-	-	-	-	-
2007	-	14	2,757	922	6	59	136	237	47	-	4,178	-	-	1,195	84	-	1,279
2008	-	-	-	-	-	-	64	12	-	-	76	-	-	-	-	-	-
2009	-	-	-	-	-	-	105	39	-	-	144	-	-	-	3,491	-	3,491
2010	-	-	108	2,466	931	72	56	15	-	-	3,648	-	-	-	-	-	-
2011 <sup>b/</sup>	-	1	130	615	174	49	82	48	-	-	1,099	-	-	-	-	-	-

TABLE A-8. Oregon commercial troll Chinook and coho salmon landings in numbers of fish by catch area and month.<sup>a/</sup> (Page 2 of 4)

Year or Avg.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season	June	July	Aug.	Sept.	Oct.	Season
	<b>CHINOOK</b>											<b>COHO</b>					
<u>Newport</u>																	
1952-1975	19	192	1,863	6,947	11,599	13,546	6,810	1,524	-	-	42,483	23,816	69,383	72,472	15,038	1,319	182,027
1976-1980	-	-	3,649	6,485	12,469	16,372	4,788	2,828	106	-	46,613	60,615	95,719	54,446	4,784	1,339	192,121
1981-1985	-	-	6,292	2,256	11,737	5,174	959	1,476	111	-	27,917	-	75,337	66,674	4,161	-	109,715
1986-1990	-	-	8,800	14,067	27,795	14,835	6,926	10,533	-	-	82,957	56	108,283	44,241	5,166	-	135,872
1991-1995	-	-	11,091	14,000	14,613	29,112	11,702	10,884	-	-	76,934	58,218	24,704	7,972	-	-	41,190
1996-2000	-	-	17,947	16,800	3,786	24,729	12,138	4,150	-	-	81,290	-	-	-	-	-	-
2001	-	8,536	45,372	28,016	15,669	40,694	20,356	10,001	-	-	168,644	-	-	-	-	-	-
2002	3,938	4,321	12,233	7,372	5,135	7,648	34,931	56,506	-	-	132,084	-	-	-	-	-	-
2003	674	8,915	24,752	12,180	12,769	22,804	36,204	30,252	-	-	148,550	-	-	-	-	-	-
2004	12,970	12,286	26,499	7,350	8,085	11,018	12,354	726	-	-	91,288	-	-	-	-	-	-
2005	4,171	2,209	7,347	39,240	-	-	29,592	7,505	-	-	90,064	-	-	-	-	-	-
2006	-	-	-	8,505	3,556	923	3,852	1,528	639	-	19,003	-	-	-	-	-	-
2007	-	279	1,553	1,427	323	338	88	54	2	-	4,064	-	-	1,596	276	-	1,872
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,103	-	5,103
2010	-	-	3,950	3,513	2,505	2,409	-	-	-	-	12,377	-	-	-	-	-	-
2011 <sup>b/</sup>	-	378	2,355	1,421	192	561	-	35	-	-	4,942	-	-	-	-	-	-
<u>Coos Bay</u>																	
1952-1975	16	155	2,913	11,578	18,162	26,765	8,692	1,872	111	-	70,148	47,943	96,268	52,431	9,087	964	206,694
1976-1980	-	17	3,113	11,974	30,188	28,911	7,483	3,863	28	-	85,563	88,960	168,959	47,488	2,358	264	290,131
1981-1985	-	-	5,515	4,301	29,871	17,260	5,419	1,129	11	-	63,507	-	115,958	31,021	5	-	131,470
1986-1990	-	-	30,467	28,162	103,530	64,284	18,029	8,518	2,178	-	253,426	22	103,641	44,708	10,213	-	132,522
1991-1995	-	-	1,102	3,642	3,908	4,544	3,587	1,701	451	-	15,554	33,031	35,841	1,069	-	-	35,625
1996-2000	-	-	3,377	8,994	9,724	11,353	4,218	1,930	981	-	36,042	8	-	-	-	-	8
2001	-	9,209	14,253	10,111	14,241	13,237	6,211	3,686	1,303	21	72,272	-	-	-	-	-	-
2002	2,593	6,167	9,949	47,825	5,515	15,292	16,947	16,571	1,250	65	122,174	-	-	-	-	-	-
2003	2,183	49,900	34,800	7,943	5,605	13,066	10,793	6,766	963	137	132,156	-	-	-	-	-	-
2004	8,042	18,736	7,398	14,987	5,651	65,177	11,176	6,714	2,079	182	140,142	-	-	-	-	-	-
2005	17,099	2,075	41,943	-	-	-	49,865	8,799	784	335	120,900	-	-	-	-	-	-
2006	-	-	-	-	-	-	65	962	821	131	1,979	-	-	-	-	-	-
2007	-	1,563	3,018	2,114	1,430	11,963	489	504	621	3	21,705	-	-	2,232	159	-	2,391
2008	-	-	-	-	-	-	-	-	208	-	208	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	293	-	-	293	-	-	-	686	-	686
2010	-	-	4,961	2,987	840	1,316	-	1,315	-	-	11,419	-	-	-	-	-	-
2011 <sup>b/</sup>	-	4,102	5,373	8,308	333	370	207	1,093	1,954	-	21,740	-	-	-	-	-	-

TABLE A-8. Oregon commercial troll Chinook and coho salmon landings in numbers of fish by catch area and month.<sup>a/</sup> (Page 3 of 4)

Year or Avg.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season	June	July	Aug.	Sept.	Oct.	Season
	<b>CHINOOK</b>											<b>COHO</b>					
<u>Brookings</u>																	
1952-1975	0	115	1,001	5,127	10,173	8,226	2,936	1,199	1,203	93	28,885	15,507	31,926	10,269	1,028	81	58,810
1976-1980	-	-	1,815	4,472	21,039	27,055	10,526	6,583	2,409	-	73,899	13,633	39,564	8,784	876	174	60,235
1981-1985	-	-	1,782	1,845	10,357	20,079	3,952	3,495	1,113	-	42,623	-	15,830	35,594	-	-	24,728
1986-1990	-	-	5,087	16,802	9,562	8,706	2,844	963	1,460	-	28,825	4,594	7,121	-	-	-	6,375
1991-1995	-	-	265	-	1,682	234	210	1,191	-	-	1,679	-	-	-	-	-	-
1996-2000	-	-	1,064	-	-	1,049	665	696	-	-	3,542	-	-	-	-	-	-
2001	-	-	233	362	-	1,290	986	728	-	-	3,599	-	-	-	-	-	-
2002	5	103	118	952	1,457	1,326	2,305	537	-	-	6,803	-	-	-	-	-	-
2003	0	110	575	484	1,082	1,108	1,119	591	3	-	5,072	-	-	-	-	-	-
2004	6	32	774	2,825	2,305	2,011	271	220	40	-	8,484	-	-	-	-	-	-
2005	87	6	-	-	-	-	1,376	641	156	-	2,266	-	-	-	-	-	-
2006	-	-	-	-	-	-	12	590	136	-	738	-	-	-	-	-	-
2007	-	15	25	727	1,150	1,524	400	209	47	-	4,097	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	236	-	-	236	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	164	-	51	125	-	529	-	-	869	-	-	-	-	-	-
2011 <sup>b/</sup>	-	-	601	254	27	331	-	104	-	-	1,317	-	-	-	-	-	-
	<b>South of Cape Falcon</b>																
1952-1975	35	465	5,824	24,088	40,787	49,892	18,762	4,654	1,313	93	144,594	94,065	222,535	158,148	27,671	2,466	504,885
1976-1980	-	17	9,052	26,186	67,804	75,026	23,302	13,463	2,458	-	217,296	185,506	370,427	138,547	10,052	1,901	668,571
1981-1985	-	-	15,135	8,684	54,345	43,724	10,612	6,299	1,149	-	139,947	-	275,957	97,114	5,803	-	350,243
1986-1990	-	-	46,099	58,818	141,367	90,555	31,607	21,689	1,642	-	391,449	3,700	295,499	95,999	20,776	-	380,152
1991-1995	-	-	12,605	18,016	15,388	29,246	16,869	14,668	453	-	100,382	91,249	105,911	8,382	-	-	109,418
1996-2000	-	-	22,751	29,104	13,880	39,214	18,035	8,035	1,002	-	129,065	8	-	-	-	-	8
2001	-	18,536	60,785	43,288	37,539	61,997	31,521	15,840	1,345	21	270,872	-	-	-	-	-	-
2002	6,667	10,689	23,570	60,833	13,778	29,627	61,166	83,742	1,255	65	291,392	-	-	-	-	-	-
2003	3,192	59,009	74,097	32,325	20,661	38,429	50,765	39,680	999	137	319,294	-	-	-	-	-	-
2004	21,049	34,021	38,044	25,724	16,373	78,663	24,802	8,542	2,191	182	249,591	-	-	-	-	-	-
2005	28,384	4,788	55,741	49,895	-	-	83,313	17,811	943	335	241,210	-	-	-	-	-	-
2006	-	-	-	9,658	3,616	962	4,379	4,039	1,691	131	24,476	-	-	-	-	-	-
2007	-	1,871	7,353	5,190	2,909	13,884	1,113	1,004	717	3	34,044	-	-	5,023	519	-	5,542
2008	-	-	-	-	-	-	64	248	208	-	520	-	-	-	-	-	-
2009	-	-	-	-	-	-	105	332	-	-	437	-	-	-	9,280	-	9,280
2010	-	-	9,183	8,966	4,327	3,922	56	1,859	-	-	28,313	-	-	-	-	-	-
2011 <sup>b/</sup>	-	4,481	8,459	10,598	726	1,311	289	1,280	1,954	-	29,098	-	-	-	-	-	-

TABLE A-8. Oregon commercial troll Chinook and coho salmon landings in numbers of fish by catch area and month.<sup>a/</sup> (Page 4 of 4)

Year or Avg.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season	June	July	Aug.	Sept.	Oct.	Season
	<b>CHINOOK</b>											<b>COHO</b>					
<b>Statewide Total</b>																	
1952-1975	6,214	5,366	10,638	27,526	43,020	52,608	19,735	4,999	1,313	93	165,045	107,135	246,787	178,599	39,218	3,729	575,468
1976-1980	-	17	14,092	30,810	70,928	76,506	23,794	14,041	2,458	-	232,632	214,161	401,952	150,948	15,621	2,305	741,694
1981-1985	-	-	19,873	8,684	54,844	44,017	10,635	6,301	1,149	-	145,503	-	290,078	84,710	8,346	-	301,499
1986-1990	-	-	47,890	59,035	141,812	91,259	31,913	21,703	1,642	-	394,927	3,700	296,977	89,839	11,112	304	397,243
1991-1995	-	-	12,795	14,606	15,426	29,358	16,904	14,668	453	-	100,945	91,249	70,897	16,037	3,007	19	119,367
1996-2000	-	-	22,757	29,154	13,880	39,604	18,044	8,035	1,002	-	129,523	8	-	11,600	658	-	6,133
2001	-	18,536	61,165	44,992	38,464	62,750	31,850	15,840	1,345	21	274,963	-	3,701	3,376	2,256	-	9,333
2002	6,667	10,689	24,425	64,022	18,019	34,139	61,166	83,742	1,255	65	304,189	-	-	1,515	-	-	1,515
2003	3,192	59,009	79,024	33,496	21,971	40,806	51,364	39,680	999	137	329,678	-	1,473	3,657	1,311	-	6,441
2004	21,049	34,021	39,928	25,741	16,754	78,994	25,307	8,542	2,191	182	252,709	-	718	1,399	6,722	-	8,839
2005	28,384	4,788	60,860	50,822	367	3,672	83,313	17,811	943	335	251,295	-	204	2,414	-	-	2,618
2006	-	-	7,167	12,826	3,617	1,023	4,471	4,039	1,691	131	34,965	-	10	1,182	222	-	1,414
2007	-	1,871	8,130	5,564	3,024	14,047	1,127	1,004	717	3	35,487	22	1,040	15,357	676	-	17,095
2008	-	-	2,616	2,508	129	161	84	248	208	-	5,954	-	49	357	29	-	435
2009	-	-	119	232	240	117	109	332	-	-	1,149	-	9,065	3,458	9,445	-	21,968
2010	-	-	9,763	15,618	6,448	5,579	166	1,859	-	-	39,433	-	636	367	35	-	1,038
2011 <sup>b/</sup>	-	4,481	9,516	11,998	840	1,550	315	1,280	1,954	-	31,934	-	234	147	83	-	464

a/ Beginning in 1979, monthly totals are the sum of statistical weeks with closest fit to the calendar month. Excludes harvests off Alaska, Washington (north of Leadbetter Point), and California that were landed in Oregon. Landings are reported by port of landing through 1978 and by area of catch beginning in 1979. Catch and landing areas include the following port areas: Astoria area includes Oregon ports from Astoria through Cannon Beach; Tillamook area includes Nehalem through Pacific City; Newport area includes Depoe Bay through Waldport; Coos Bay area prior to 1988 includes Florence through Bandon and after 1987 includes Florence through Port Orford; Brookings area prior to 1988 includes Port Orford through Brookings and after 1987 includes Gold Beach through Brookings. Values include state-waters only terminal area fisheries.

b/ Preliminary.

TABLE A-9. Oregon ocean recreational effort in salmon angler trips by catch area and month.<sup>a/</sup> (Page 1 of 4)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<u>Astoria</u>										
1976-1980	-	0	890	8,582	17,436	25,284	8,325	374	22	60,746
1981-1985	-	-	977	3,269	11,837	9,897	4,192	-	-	26,221
1986-1990	-	-	146	1,110	8,890	9,559	1,423	-	-	17,740
1991-1995	-	-	-	1,496	6,681	6,695	2,084	-	-	15,833
1996-2000	-	-	-	-	2,457	2,909	946	-	-	5,442
2001	-	-	-	-	7,990	12,960	2,291	-	-	23,241
2002	-	-	155	372	3,989	6,373	1,156	6	-	12,051
2003	-	-	-	151	5,275	12,550	1,250	-	-	19,226
2004	-	-	-	256	4,439	11,290	2,608	-	-	18,593
2005	-	-	-	-	2,246	8,116	2,900	-	-	13,262
2006	-	-	-	-	1,711	5,769	762	-	-	8,242
2007	-	-	-	-	2,548	8,849	989	-	-	12,386
2008	-	-	66	498	1,875	1,215	-	-	-	3,654
2009	-	-	-	85	5,698	6,097	370	-	-	12,250
2010	-	-	-	306	2,211	6,996	741	-	-	10,254
2011 <sup>b/</sup>	-	-	-	459	1,402	4,645	877	-	-	7,383
<u>Tillamook</u>										
1976-1980	-	0	1,043	5,476	14,753	18,525	3,792	393	61	43,838
1981-1985	-	-	678	2,040	14,150	14,502	3,413	1,603	-	30,298
1986-1990	-	-	222	2,005	12,063	11,291	4,392	--	--	29,007
1991-1995	-	-	728	1,722	10,452	4,271	2,075	4,879	396	13,369
1996-2000	-	-	489	102	1,451	346	2,772	2,895	170	8,126
2001	-	0	526	2,827	7,278	895	2,747	2,051	162	16,486
2002	-	11	386	360	7,005	4,787	5,041	6,767	50	24,407
2003	21	5	435	1,860	11,990	5,450	4,819	3,019	395	27,994
2004	8	94	397	2,849	11,855	6,729	4,442	2,647	291	29,312
2005	28	66	463	2,318	3,216	1,622	3,799	599	12	12,123
2006	2	16	382	1,334	3,299	497	5,293	4,988	98	15,909
2007	-	16	828	1,753	4,612	8,074	3,459	2,286	--	21,028
2008	-	-	-	643	1,269	1,226	3,635	2,348	--	9,121
2009	-	-	-	974	10,482	7,131	1,772	2,009	-	22,368
2010	-	-	126	1,158	3,833	3,620	3,718	1,048	-	13,503
2011 <sup>b/</sup>	0	50	143	936	3,771	2,968	3,730	1,240	-	12,838



TABLE A-9. Oregon ocean recreational effort in salmon angler trips by catch area and month.<sup>a/</sup> (Page 2 of 4)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<u>Newport</u>										
1976-1980	-	0	2,686	14,777	37,841	34,826	6,813	1,205	46	97,675
1981-1985	-	-	1,237	6,383	28,951	25,961	3,812	--	-	57,094
1986-1990	-	-	997	7,789	37,404	24,000	5,730	-	-	74,574
1991-1995	-	-	484	3,881	26,682	9,837	1,389	117	-	24,888
1996-2000	-	-	101	114	3,819	1,090	249	29	-	5,396
2001	-	0	175	6,648	13,301	2,432	872	143	-	23,571
2002	-	34	123	502	12,360	2,837	1,469	738	-	18,063
2003	24	28	310	3,761	20,799	12,739	1,371	526	-	39,558
2004	36	57	139	4,642	17,640	12,676	3,423	413	-	39,026
2005	0	264	429	3,927	3,562	1,863	3,187	167	-	13,399
2006	8	43	139	1,593	5,785	584	1,919	299	-	10,370
2007	19	26	87	3,472	8,013	8,284	778	46	40	20,765
2008	-	-	-	1,128	2,301	2,020	-	-	-	5,449
2009	-	-	-	2,126	13,786	12,307	1,388	-	-	29,607
2010	-	-	349	1,093	2,933	8,491	2,127	-	-	14,993
2011 <sup>b/</sup>	20	2	103	847	4,550	2,518	3,913	-	-	11,953
<u>Coos Bay</u>										
1976-1980	-	0	5,296	24,105	44,633	29,677	6,974	652	98	111,116
1981-1985	-	-	3,365	13,367	34,917	20,849	3,452	--	--	63,724
1986-1990	-	-	891	8,744	33,097	15,721	3,842	--	--	61,349
1991-1995	-	-	605	5,646	26,029	8,416	1,728	21	--	25,929
1996-2000	-	-	118	381	4,301	2,953	507	53	--	8,282
2001	-	0	648	8,073	15,394	6,122	765	60	--	31,062
2002	-	230	786	5,319	17,293	6,570	2,812	388	--	33,398
2003	36	106	950	5,263	21,326	12,880	2,247	90	--	42,898
2004	34	87	954	7,376	19,875	9,368	2,734	34	--	40,462
2005	2	76	578	6,353	7,042	6,312	4,262	12	--	24,637
2006	14	33	279	1,991	9,250	2,736	2,784	81	--	17,168
2007	17	33	329	2,603	9,442	9,550	990	9	--	22,973
2008	-	-	-	1,482	4,111	1,806	-	-	--	7,399
2009	-	-	-	1,044	8,744	3,991	583	--	--	14,362
2010	-	-	388	709	2,350	4,683	489	--	--	8,619
2011 <sup>b/</sup>	2	23	187	1,182	2,514	4,687	1,711	-	16	10,322

TABLE A-9. Oregon ocean recreational effort in salmon angler trips by catch area and month.<sup>a/</sup> (Page 3 of 4)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>Brookings</b>										
1976-1980	-	0	1,250	11,841	27,828	20,162	6,768	5,604	913	74,368
1981-1985	-	-	2,109	10,478	25,949	15,387	3,357	3,402	230	56,207
1986-1990	-	-	2,226	12,965	24,727	13,463	3,098	5,030	--	58,492
1991-1995	-	-	2,866	5,957	11,093	3,333	4,014	3,831	-	22,694
1996-2000	-	-	1,177	3,022	2,353	6,833	2,212	2,766	-	18,363
2001	-	-	3,667	4,123	4,409	9,200	362	4,340	-	26,101
2002	-	-	1,767	4,048	528	5,651	3,755	3,973	-	19,722
2003	-	-	1,124	1,480	3,910	4,081	1,522	2,630	-	14,747
2004	-	-	1,232	3,448	3,813	4,396	3,845	1,575	-	18,309
2005	-	-	525	3,510	280	2,802	3,063	2,398	-	12,578
2006	-	-	611	2,657	716	-	3,565	3,081	-	10,630
2007	-	-	332	752	1,600	4,741	424	3,263	-	11,112
2008	-	-	-	712	2,317	701	-	1,065	-	4,795
2009	-	-	-	268	2,329	754	2,580	-	-	5,931
2010	-	-	129	95	335	619	2,502	2,270	-	5,950
2011 <sup>b/</sup>	-	-	393	296	189	1,772	1,853	1,757	-	6,260
<b>South of Cape Falcon</b>										
1976-1980	-	0	10,275	56,199	125,056	103,191	24,348	6,954	974	326,997
1981-1985	-	-	4,749	32,267	103,968	64,436	11,899	3,723	230	207,322
1986-1990	-	-	3,869	31,504	107,292	64,475	14,270	5,030	--	223,421
1991-1995	-	-	4,110	16,015	74,256	11,676	6,091	7,130	396	86,880
1996-2000	-	-	1,885	3,618	11,923	11,221	5,739	5,699	170	40,167
2001	-	0	5,016	21,671	40,382	18,649	4,746	6,594	162	97,220
2002	-	275	3,062	10,229	37,186	19,845	13,077	11,866	50	95,590
2003	81	139	2,819	12,364	58,025	35,150	9,959	6,265	395	125,197
2004	78	238	2,722	18,315	53,183	33,169	14,444	4,669	291	127,109
2005	30	406	1,995	16,108	14,100	12,599	14,311	3,176	12	62,737
2006	24	92	1,411	7,575	19,050	3,817	13,561	8,449	98	54,077
2007	36	75	1,576	8,580	23,667	30,649	5,651	5,604	40	75,878
2008	-	-	-	3,965	9,998	5,753	3,635	3,413	--	26,764
2009	-	-	-	4,412	35,341	24,183	6,323	2,009	--	72,268
2010	-	-	992	3,055	9,451	17,413	8,836	3,318	--	43,065
2011 <sup>b/</sup>	22	75	826	3,261	11,024	11,945	11,207	2,997	16	41,373

TABLE A-9. Oregon ocean recreational effort in salmon angler trips by catch area and month.<sup>a/</sup> (Page 4 of 4)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>Total All Areas</b>										
1976-1980	-	0	11,165	64,781	142,492	128,475	32,673	7,179	978	387,743
1981-1985	-	-	4,993	27,469	115,805	74,334	13,575	3,723	230	233,544
1986-1990	-	-	3,898	32,392	116,182	72,122	14,554	5,030	--	241,161
1991-1995	-	-	4,110	16,314	62,372	17,032	7,757	7,130	396	99,547
1996-2000	-	-	1,885	3,618	13,888	14,130	6,307	5,699	170	45,609
2001	-	0	5,016	21,671	48,372	31,609	7,037	6,594	162	120,461
2002	-	275	3,217	10,601	41,175	26,218	14,233	11,872	50	107,641
2003	81	139	2,819	12,515	63,300	47,700	11,209	6,265	395	144,423
2004	78	238	2,722	18,571	57,622	44,459	17,052	4,669	291	145,702
2005	30	406	1,995	16,108	16,346	20,715	17,211	3,176	12	75,999
2006	24	92	1,411	7,575	20,761	9,586	14,323	8,449	98	62,319
2007	36	75	1,576	8,580	26,215	39,498	6,640	5,604	40	88,264
2008	-	-	66	4,463	11,873	6,968	3,635	3,413	--	30,418
2009	-	-	-	4,497	41,039	30,280	6,693	2,009	--	84,518
2010	-	-	992	3,361	11,662	24,409	9,577	3,318	--	53,319
2011 <sup>b/</sup>	22	75	826	3,720	12,426	16,590	12,084	2,997	16	48,756

a/ Monthly totals are the sum of statistical weeks with closest fit to the calendar month. The average 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. Astoria 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. Values include state-waters only terminal area fisheries.

b/ Preliminary.

TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish by catch area and month.<sup>a/</sup> (Page 1 of 3)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	May	June	July	Aug.	Sept.	Oct. <sup>b/</sup>	Season <sup>b/</sup>
<b>CHINOOK</b>																	
<b>Astoria</b>																	
1976-1980 <sup>b/</sup>	-	0	333	3,210	4,073	7,975	1,490	85	4	17,132	897	12,916	20,699	21,677	7,142	323	63,525
1981-1985	-	-	29	922	2,427	1,902	729	-	-	5,364	1,699	4,463	16,455	11,211	5,509	-	33,780
1986-1990	-	-	29	127	954	1,459	87	-	-	2,246	-	1,825	15,220	14,456	1,307	-	28,506
1991-1995	-	-	-	81	224	302	63	-	-	609	-	2,409	10,831	9,892	2,332	-	23,657
1996-2000	-	-	-	-	197	223	38	-	-	403	-	-	3,775	3,675	935	-	7,257
2001	-	-	-	-	1,000	1,478	140	-	-	2,618	-	-	13,537	21,990	3,662	-	39,189
2002	-	-	33	347	1,540	827	4	3	-	2,754	-	-	4,432	8,530	1,441	-	14,403
2003	-	-	-	8	546	1,659	117	-	-	2,330	-	55	8,237	19,891	1,588	-	29,771
2004	-	-	-	25	303	1,426	429	-	-	2,183	-	368	6,583	13,601	1,946	-	22,498
2005	-	-	-	-	481	2,637	517	-	-	3,635	-	-	2,165	6,337	1,464	-	9,966
2006	-	-	-	-	81	370	58	-	-	509	-	-	1,616	3,560	235	-	5,411
2007	-	-	-	-	81	457	56	-	-	594	-	-	3,812	13,807	778	-	18,397
2008	-	-	17	152	343	305	-	-	-	817	-	101	1,108	982	-	-	2,191
2009	-	-	-	4	422	543	11	-	-	980	-	138	9,593	9,330	358	-	19,419
2010	-	-	-	37	388	1,321	66	-	-	1,812	-	12	1,479	4,404	213	-	6,108
2011 <sup>c/</sup>	-	-	-	129	147	1,268	79	-	-	1,623	-	178	981	4,128	755	-	6,042
<b>Tillamook</b>																	
1976-1980 <sup>b/</sup>	-	0	104	152	409	655	99	19	29	1,436	342	3,155	6,284	11,402	960	194	22,259
1981-1985	-	0	18	28	790	582	117	42	-	1,533	89	855	10,321	8,671	766	3	20,171
1986-1990	-	0	10	67	441	864	486	-	-	1,766	29	1,993	12,423	8,726	1,827	63	24,621
1991-1995	-	-	62	140	380	186	169	1,237	-	1,084	26	1,457	11,796	3,732	717	-	12,184
1991-1995	-	-	70	10	65	31	502	494	-	1,188	-	-	976	6	9	-	602
2001	-	0	70	235	727	234	826	431	23	2,546	-	3,398	8,771	37	69	22	12,297
2002	-	1	56	108	3,170	2,182	1,531	1,735	0	8,783	-	-	4,753	1,096	41	22	5,912
2003	-	-	54	439	1,724	737	1,468	936	64	5,422	2	1,407	14,049	5,705	42	14	21,219
2004	-	5	40	501	3,146	2,755	940	1,409	69	8,865	-	1,305	8,693	4,212	175	23	14,408
2005	6	10	36	371	684	291	1,142	186	0	2,726	-	543	502	11	2	-	1,058
2006	0	0	40	75	204	14	1,079	1,944	49	3,405	-	184	1,055	-	119	-	1,358
2007	-	0	41	58	109	241	507	474	-	1,430	2	1,206	4,305	6,926	124	-	12,563
2008	-	-	-	2	-	3	262	201	-	468	-	43	220	930	45	3	1,241
2009	-	-	-	4	23	20	92	226	-	365	-	1,141	12,672	9,456	310	6	23,585
2010	-	-	12	72	112	190	323	122	-	831	-	323	1,392	1,390	268	-	3,373
2011 <sup>c/</sup>	0	0	4	29	122	182	574	207	-	1,118	-	366	1,541	1,288	2,532	-	5,727
<b>Newport</b>																	
1976-1980 <sup>b/</sup>	-	0	112	520	839	806	184	31	1	2,480	1,273	12,737	25,257	22,756	1,813	211	63,962
1981-1985	-	-	18	344	1,462	942	89	-	-	2,706	126	3,484	22,849	19,232	2,241	-	46,040
1986-1990	-	-	68	497	1,687	1,029	601	-	-	3,649	662	9,013	46,079	23,917	3,429	-	82,281
1991-1995	-	-	44	143	1,155	507	65	28	-	1,113	31	8,315	36,626	11,925	1,119	-	40,251
1996-2000	-	-	26	44	262	408	95	3	-	837	-	-	8,151	30	7	-	3,286
2001	-	0	70	362	1,541	2,324	858	160	-	5,315	2	7,803	15,631	16	3	-	23,455
2002	-	14	37	196	3,269	1,031	1,179	804	-	6,530	-	-	9,819	933	22	2	10,776
2003	-	1	95	871	6,939	3,049	1,126	334	-	12,415	-	2,694	21,419	14,419	-	-	38,532
2004	-	17	83	554	6,931	8,225	1,507	485	-	17,802	-	2,707	13,981	6,625	207	-	23,520
2005	0	94	109	392	463	1,000	2,556	92	-	4,706	-	659	376	18	84	-	1,137
2006	2	1	17	77	326	41	128	80	-	672	-	101	3,970	10	473	-	4,554
2007	1	0	13	82	150	163	28	0	16	453	-	2,715	6,516	5,982	175	-	15,388
2008	-	-	-	-	3	-	-	-	-	3	-	106	865	1,820	-	-	2,791
2009	-	-	-	2	6	25	-	-	-	33	-	2,564	17,733	14,694	447	-	35,438
2010	-	-	55	52	135	474	88	-	-	804	-	27	551	6,283	966	-	7,827
2011 <sup>c/</sup>	0	6	21	44	110	52	230	-	-	463	-	179	1,705	385	3,683	-	5,952

TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish by catch area and month.<sup>a/</sup> (Page 2 of 3)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	May	June	July	Aug.	Sept.	Oct. <sup>b/</sup>	Season <sup>b/</sup>
<b>CHINOOK</b>																	
<b>COHO</b>																	
<b>Coos Bay</b>																	
1976-1980 <sup>b/</sup>	-	0	484	2,108	2,866	3,618	1,181	94	24	10,323	7,484	31,027	44,646	20,736	2,845	265	106,898
1981-1985	-	-	37	921	4,075	1,994	436	--	--	7,087	2,106	13,671	29,455	13,020	1,699	--	53,301
1986-1990	-	-	75	1,213	4,999	2,206	963	--	--	9,249	453	10,859	39,003	12,888	1,568	-	64,366
1991-1995	-	-	40	862	1,495	352	231	7	--	2,033	465	12,213	39,345	10,077	2,713	-	59,645
1996-2000	-	-	11	89	1,660	793	142	16	--	2,702	-	-	2,042	22	3	-	1,549
2001	-	0	77	1,441	5,548	2,163	281	3	--	9,513	19	6,470	12,691	152	4	-	19,336
2002	-	140	237	4,840	10,170	2,782	1,213	97	--	19,479	-	35	5,129	134	40	-	5,338
2003	2	21	119	1,626	6,453	5,449	1,366	3	--	15,039	-	3,477	15,393	5,194	22	-	24,086
2004	2	2	192	2,849	11,416	3,666	2,606	13	--	20,746	2	943	8,275	830	84	-	10,134
2005	0	0	56	2,933	3,081	3,273	1,826	2	--	11,171	-	862	544	8	21	-	1,435
2006	0	3	11	388	3,225	927	656	0	--	5,210	-	184	3,321	26	42	-	3,573
2007	2	0	18	115	545	672	62	0	--	1,414	-	813	8,402	3,509	12	-	12,736
2008	-	-	-	7	3	-	-	-	--	10	-	621	1,726	1,381	-	-	3,728
2009	-	-	-	3	7	2	-	-	--	12	-	1,154	7,596	1,175	42	-	9,967
2010	-	-	8	83	133	444	28	--	--	696	-	18	238	663	8	-	927
2011 <sup>c/</sup>	0	1	31	88	254	389	248	-	6	1,017	-	11	330	338	411	-	1,090
<b>Brookings</b>																	
1976-1980 <sup>b/</sup>	-	0	91	982	2,803	3,365	570	717	75	8,602	378	10,569	15,434	5,252	483	716	32,545
1981-1985	-	-	853	2,140	9,162	4,185	566	507	14	16,395	247	3,102	7,541	2,962	165	4	12,102
1986-1990	-	-	415	5,447	7,146	4,010	1,436	872	-	18,803	350	3,346	11,414	3,280	467	16	18,863
1991-1995	-	-	816	1,506	1,489	533	819	870	-	4,517	97	3,448	5,118	994	386	3	6,341
1996-2000	-	-	327	861	924	2,899	389	702	-	6,102	17	11	21	32	11	9	75
2001	-	-	807	996	1,213	3,022	314	856	-	7,208	-	16	11	29	-	13	69
2002	-	-	506	2,532	35	2,654	3,906	301	-	9,934	-	31	16	29	32	-	108
2003	-	-	448	316	1,199	1,354	1,579	552	-	5,448	-	5	17	17	12	-	51
2004	-	-	531	2,325	1,541	1,638	569	233	-	6,837	2	357	673	222	18	3	1,275
2005	-	-	180	2,904	49	989	1,181	404	-	5,707	-	89	0	12	9	-	110
2006	-	-	52	513	186	-	644	397	-	1,792	2	474	117	-	81	7	681
2007	-	-	14	42	116	2,000	343	535	-	3,050	-	132	606	809	19	3	1,569
2008	-	-	-	-	-	-	-	280	-	280	-	449	1,273	409	-	3	2,134
2009	-	-	-	-	9	23	163	-	-	195	-	6	1,123	59	9	-	1,197
2010	-	-	7	2	3	24	247	541	-	824	-	-	19	25	16	-	60
2011 <sup>c/</sup>	-	-	148	24	7	328	196	233	-	936	-	-	12	8	8	-	28
<b>South of Cape Falcon</b>																	
1976-1980 <sup>b/</sup>	-	0	792	3,762	6,917	8,445	2,033	804	90	22,841	9,476	57,488	91,620	60,146	6,100	1,387	225,663
1981-1985	-	-	908	2,071	15,489	7,703	1,208	516	9	27,722	1,988	21,112	70,167	43,292	4,870	4	131,613
1986-1990	-	-	535	7,125	14,274	8,109	3,075	349	--	33,467	1,259	25,210	108,918	48,811	5,926	16	190,131
1991-1995	-	-	798	2,349	4,518	844	1,004	1,024	28	8,747	554	19,075	92,885	11,088	1,663	3	84,075
1996-2000	-	-	434	1,004	2,911	4,132	1,128	1,204	14	10,828	17	11	5,092	74	18	8	5,203
2001	-	0	1,024	3,034	9,029	7,743	2,279	1,450	23	24,582	21	17,687	37,104	234	76	35	55,157
2002	-	155	836	7,676	16,644	8,649	7,829	2,937	0	44,726	-	66	19,717	2,192	135	24	22,134
2003	2	22	716	3,252	16,315	10,589	5,539	1,825	64	38,324	2	7,583	50,878	25,335	76	14	83,888
2004	2	24	846	6,229	23,034	16,284	5,622	2,140	69	54,250	4	5,312	31,622	11,889	484	26	49,337
2005	6	104	381	6,600	4,277	5,553	6,705	684	0	24,310	-	2,153	1,422	49	116	-	3,740
2006	2	4	120	1,053	3,941	982	2,507	2,421	49	11,079	2	943	8,463	36	715	7	10,166
2007	3	0	86	297	920	3,076	940	1,009	16	6,347	2	4,866	19,829	17,226	330	3	42,256
2008	-	-	-	9	6	3	262	481	--	761	-	1,219	4,084	4,540	45	6	9,894
2009	-	-	-	9	45	70	255	226	--	605	-	4,865	39,124	25,384	808	6	70,187
2010	-	-	82	209	383	1,132	686	663	--	3,155	-	368	2,200	8,361	1,258	-	12,187
2011 <sup>c/</sup>	0	7	204	185	493	951	1,248	440	--	3,534	-	556	3,588	2,019	6,634	-	12,797

TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish by catch area and month.<sup>a/</sup> (Page 3 of 3)

Year or Average	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	May	June	July	Aug.	Sept.	Oct. <sup>b/</sup>	Season <sup>b/</sup>
	CHINOOK										COHO						
<b>Total All Areas</b>																	
1976-1980 <sup>b/</sup>	-	0	1,125	6,972	10,989	16,420	3,522	854	91	39,974	10,373	70,404	112,320	81,823	13,242	1,710	289,189
1981-1985	-	-	915	2,809	17,916	9,605	1,499	516	9	33,085	2,412	20,297	86,622	54,503	7,625	4	165,393
1986-1990	-	-	541	7,227	15,227	9,276	3,093	349	--	35,713	1,259	26,670	124,138	60,376	6,187	16	218,637
1991-1995	-	-	798	2,365	3,613	1,085	1,055	1,024	28	9,234	554	19,677	80,495	19,002	3,528	3	103,001
1996-2000	-	-	434	1,004	3,069	4,355	1,150	1,204	14	11,231	17	11	8,112	3,750	580	8	12,459
2001	-	0	1,024	3,034	10,029	9,221	2,419	1,450	23	27,200	21	17,687	50,641	22,224	3,738	35	94,346
2002	-	155	869	8,023	18,184	9,476	7,833	2,940	0	47,480	-	66	24,149	10,722	1,576	24	36,537
2003	2	22	716	3,260	16,861	12,248	5,656	1,825	64	40,654	2	7,638	59,115	45,226	1,664	14	113,659
2004	2	24	846	6,254	23,337	17,710	6,051	2,140	69	56,433	4	5,680	38,205	25,490	2,430	26	71,835
2005	6	104	381	6,600	4,758	8,190	7,222	684	0	27,945	-	2,153	3,587	6,386	1,580	-	13,706
2006	2	4	120	1,053	4,022	1,352	2,565	2,421	49	11,588	2	943	10,079	3,596	950	7	15,577
2007	3	0	86	297	1,001	3,533	996	1,009	16	6,941	2	4,866	23,641	31,033	1,108	3	60,653
2008	-	-	17	161	349	308	262	481	--	1,578	-	1,320	5,192	5,522	45	6	12,085
2009	-	-	-	13	467	613	266	226	--	1,585	-	5,003	48,717	34,714	1,166	6	89,606
2010	-	-	82	246	771	2,453	752	663	--	4,967	-	380	3,679	12,765	1,471	-	18,295
2011 <sup>c/</sup>	0	7	204	314	640	2,219	1,327	440	--	5,157	-	734	4,569	6,147	7,389	-	18,839

a/ Monthly totals are the sum of statistical weeks with closest fit to the calendar month and may include illegal catch. The 1976-1980 catch is from combined salmon/steelhead punch card and sampled port data. Since 1981, data is from sampled ports only. Astoria 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. Values include state-waters only terminal area fisheries.

b/ October, season, and total catch for the following port areas and years includes the following catch in November: Astoria 1976 - 29 coho; Tillamook 1976 - 38 coho; Newport 1976 - 22 coho; Coos Bay 1976 - 66 coho; Brookings 1976 - 367 coho.

c/ Preliminary.

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 Avg.	Washington					Oregon	California	Alaska	Total
	Ilwaco	Westport	La Push	Neah Bay <sup>a/</sup>	Subtotal				
<b>DAYS FISHED</b>									
1976-1980	9,007	15,023	9,446	9,707	43,184	664	42	970	44,860
1981-1985	1,961	5,194	1,553	3,111	11,819	244	18	25	12,106
1986-1990	871	2,619	300	928	4,718	100	0	3	4,821
1991-1995	335	2,079	243	1,421	4,476	100	0	3	4,579
1996-2000	20	128	55	235	431	30	0	0	460
2001	76	435	39	214	764	174	0	0	938
2002	65	782	94	397	1,338	272	0	0	1,610
2003	114	603	313	668	1,698	188	0	0	1,886
2004	52	575	246	508	1,381	0	0	0	1,381
2005	103	570	282	483	1,438	-	0	0	1,438
2006	134	367	597	340	1,438	-	0	0	1,438
2007	100	638	436	100	1,274	-	0	0	1,274
2008	128	655	331	109	1,223	-	-	0	1,223
2009	87	1,144	564	196	1,991	-	-	0	1,991
2010	92	1,620	426	298	2,436	-	-	0	2,436
2011 <sup>b/</sup>	92	1,133	669	170	2,064	-	-	0	2,064
<b>CHINOOK LANDINGS</b>									
1976-1980	23,518	81,100	44,972	33,934	183,524	4,878	648	12,666	201,716
1981-1985	9,172	34,995	7,061	10,074	61,303	901	184	203	62,591
1986-1990	5,089	27,281	4,251	9,601	46,222	1,431	0	1	47,654
1991-1995	1,386	13,907	2,769	12,082	25,628	1,431	0	1	27,060
1996-2000	184	1,329	1,503	7,048	10,018	812	0	0	10,830
2001	944	12,903	1,129	6,253	21,229	6,309	0	0	27,538
2002	1,756	30,329	3,026	18,708	53,819	7,701	0	0	61,520
2003	1,920	16,773	6,995	30,514	56,202	4,599	0	0	60,801
2004	358	11,088	4,842	19,084	35,372	0	0	0	35,372
2005	1,486	15,178	6,411	11,991	35,066	-	0	0	35,066
2006	2,124	2,557	7,877	4,211	16,769	-	0	0	16,769
2007	500	8,111	5,103	554	14,268	-	0	0	14,268
2008	1,242	4,673	2,222	499	8,636	-	-	0	8,636
2009	261	8,132	2,722	1,201	12,316	-	-	0	12,316
2010	886	34,171	5,911	4,131	45,099	-	-	0	45,099
2011 <sup>b/</sup>	1,032	12,518	10,418	2,934	26,902	-	-	0	26,902

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 Avg.	Washington					Oregon	California	Alaska	Total
	Ilwaco	Westport	La Push	Neah Bay <sup>a/</sup>	Subtotal				
<b>COHO LANDINGS</b>									
1976-1980	136,926	207,515	203,330	156,502	704,272	21,460	1,595	15,218	742,545
1981-1985	32,087	63,633	34,020	42,272	152,480	8,260	33	876	161,649
1986-1990	23,765	15,616	4,139	19,563	54,379	1,501	0	103	55,983
1991-1995	5,957	8,689	2,876	13,939	27,800	1,501	0	103	29,404
1991-1995	1,413	2,387	851	7,478	8,881	0	-	103	8,984
2001	1,458	6,209	165	280	8,112	91	-	0	8,203
2002	127	53	-	-	180	0	-	0	180
2003	1,290	3,200	2,784	1,683	8,957	7	-	0	8,964
2004	1,130	6,365	3,175	2,623	13,293	0	-	0	13,293
2005	638	373	94	337	1,442	-	-	0	1,442
2006	74	184	766	241	1,265	-	-	0	1,265
2007	2,865	1,783	1,091	147	5,886	-	-	0	5,886
2008	77	1,132	490	7	1,706	-	-	0	1,706
2009	2,254	10,060	7,157	584	20,055	-	-	0	20,055
2010	151	1,657	209	87	2,104	-	-	0	2,104
2011 <sup>b/</sup>	38	1,708	1,167	140	3,053	-	-	0	3,053
<b>PINK LANDINGS<sup>c/</sup></b>									
1976-1980	3,598	27,219	143,277	238,787	412,880	1,829	0	2,380	417,089
1981-1985	1,272	7,589	22,914	107,620	139,394	342	1	263	140,000
1986-1990	45	412	364	18,894	19,714	19	0	0	19,733
1991-1995	30	11	1,773	23,992	25,792	19	0	0	25,811
1991-1995	0	2	7	21	29	19	0	0	48
2001	2	14	0	16	32	91	0	0	123
2002	0	0	0	0	0	0	0	0	0
2003	36	37	108	70	251	7	0	0	258
2004	0	0	0	0	0	0	0	0	0
2005	0	3	5	0	8	-	0	0	8
2006	0	0	0	0	0	-	0	0	0
2007	0	1	122	24	147	-	0	0	147
2008	0	0	0	0	0	-	-	0	0
2009	0	9	117	9	135	-	-	0	135
2010	0	0	0	0	0	-	-	0	0
2011 <sup>b/</sup>	0	110	98	7	215	-	-	0	215

a/ Neah Bay data includes landings from Strait of Juan de Fuca Area 4B.

b/ Preliminary.

c/ Landings primarily in odd-years only; averages are odd-year average.



TABLE A-12. Washington non-Indian commercial troll salmon fishing effort in days fished by catch area and month. <sup>a/</sup> (Page 1 of 2)

Year or Avg.	May	June	July	Aug.	Sept. <sup>b/</sup>	Oct.	Season
<u>Neah Bay<sup>c/</sup></u>							
1976-1980	656	402	3,064	4,198	1,734	-	9,707
1981-1985	416	53	1,662	1,332	14	-	3,111
1986-1990	480	178	8	434	-	-	928
1991-1995	652	416	296	406	132	-	1,421
1996-2000	140	63	96	88	-	-	235
2001	84	81	49	-	-	-	214
2002	97	81	139	80	-	-	397
2003	280	92	150	132	14	-	668
2004	198	1	160	116	33	-	508
2005	164	24	149	146	-	-	483
2006	144	89	15	54	38	-	340
2007	49	10	37	2	2	-	100
2008	34	65	1	9	0	-	109
2009	68	74	50	2	2	-	196
2010	139	97	44	18	0	-	298
2011 <sup>d/</sup>	107	34	17	3	9	-	170
<u>La Push</u>							
1976-1980	570	541	3,812	3,609	1,143	-	9,446
1981-1985	175	25	1,199	505	-	-	1,553
1986-1990	186	110	5	136	15	-	300
1991-1995	74	85	127	52	16	-	243
1996-2000	36	23	12	8	5	-	55
2001	29	4	6	-	-	-	39
2002	0	3	53	38	-	-	94
2003	42	24	148	91	8	-	313
2004	17	4	105	99	21	-	246
2005	65	23	69	125	-	-	282
2006	39	179	63	209	107	-	597
2007	29	180	168	57	2	-	436
2008	10	118	119	73	11	-	331
2009	123	114	173	124	30	-	564
2010	154	93	95	81	3	-	426
2011 <sup>d/</sup>	199	236	139	70	25	-	669
<u>Westport</u>							
1976-1980	2,255	1,320	5,000	4,231	2,218	-	15,023
1981-1985	2,109	250	2,790	1,087	-	-	5,194
1986-1990	1,723	614	855	390	-	-	2,619
1991-1995	852	552	352	235	309	-	2,079
1996-2000	46	39	51	65	2	-	128
2001	96	127	104	70	38	-	435
2002	331	99	228	124	-	-	782
2003	99	79	178	192	55	-	603
2004	245	5	127	127	71	-	575
2005	263	57	119	131	-	-	570
2006	176	113	21	33	24	-	367
2007	367	63	149	55	4	-	638
2008	202	170	103	131	49	-	655
2009	276	363	209	194	102	-	1,144
2010	218	668	362	329	43	-	1,620
2011 <sup>d/</sup>	300	386	292	135	20	-	1,133

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

Year or Avg.	May	June	July	Aug.	Sept. <sup>b/</sup>	Oct.	Season
<b>Ilwaco</b>							
1976-1980	695	673	3,199	2,907	1,668	-	9,007
1981-1985	566	97	1,092	710	568	-	1,961
1986-1990	197	61	284	583	578	-	871
1991-1995	95	9	63	160	44	-	335
1996-2000	0	0	-	48	11	-	20
2001	24	1	13	26	12	-	76
2002	16	1	26	22	-	-	65
2003	18	4	41	32	19	-	114
2004	3	3	16	18	12	-	52
2005	14	15	25	49	-	-	103
2006	71	54	1	2	6	-	134
2007	22	27	10	31	10	-	100
2008	34	80	3	8	3	-	128
2009	7	13	20	43	4	-	87
2010	23	22	23	17	7	-	92
2011 <sup>d/</sup>	42	43	1	3	3	-	92
<b>Statewide Total</b>							
1976-1980	4,177	2,800	15,075	14,944	6,187	-	43,184
1981-1985	3,266	382	6,469	2,956	291	-	11,819
1986-1990	2,452	876	580	1,100	585	-	4,718
1991-1995	1,673	1,063	838	755	333	-	4,476
1996-2000	221	124	158	145	10	-	431
2001	233	213	172	96	50	-	764
2002	444	184	446	264	-	-	1,338
2003	439	199	517	447	96	-	1,698
2004	463	13	408	360	137	-	1,381
2005	506	119	362	451	-	-	1,438
2006	430	435	100	298	175	-	1,438
2007	467	280	364	145	18	-	1,274
2008	280	433	226	221	63	-	1,223
2009	474	564	452	363	138	-	1,991
2010	534	880	524	445	53	-	2,436
2011 <sup>d/</sup>	648	699	449	211	57	-	2,064

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

b/ Data for September includes any effort after September.

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

d/ Preliminary.

TABLE A-13. Washington non-Indian commercial troll Chinook, coho, and pink salmon landings in numbers of fish by catch area and month.<sup>a/</sup> (Page 1 of 3)

Year or Avg.	May	June	July	Aug.	Sept. <sup>b/</sup>	Season	May	June	July	Aug.	Sept. <sup>b/</sup>	Season	May	June	July	Aug.	Sept. <sup>b/</sup>	Season
	<b>CHINOOK</b>						<b>COHO</b>						<b>PINKS</b>					
<u>Neah Bay<sup>c/</sup></u>																		
1976-1980	6,781	3,805	12,440	8,782	2,659	33,934	-	19,014	67,297	58,787	33,270	156,502	45	235	42,003	192,169	4,336	238,787
1981-1985	3,293	532	6,289	1,424	31	10,074	-	-	43,965	15,853	100	42,272	113	20	38,466	103,127	415	107,620
1986-1990	8,157	4,180	74	672	-	9,601	-	-	776	24,066	-	19,563	0	-	1,524	36,263	-	18,894
1991-1995	8,818	5,679	1,388	424	366	12,082	-	-	3,378	9,604	5,293	13,939	9	9	64	23,603	535	23,992
1996-2000	3,887	1,923	3,428	1,524	-	7,048	-	-	2,997	4,481	-	7,478	1	1	30	8	-	21
2001	2,072	2,284	1,897	-	-	6,253	-	-	280	-	-	280	1	8	7	-	-	16
2002	5,626	4,680	5,589	2,813	-	18,708	-	-	-	-	-	-	-	-	-	-	-	-
2003	13,364	4,385	6,554	5,848	363	30,514	-	-	706	866	111	1,683	0	0	47	23	0	70
2004	7,128	510	4,685	5,727	1,034	19,084	-	-	647	1,745	231	2,623	-	-	-	-	-	-
2005	4,929	595	3,285	3,182	-	11,991	-	-	62	275	-	337	0	0	0	0	-	0
2006	2,434	545	109	662	461	4,211	-	-	12	206	23	241	-	-	-	-	-	-
2007	223	122	171	20	18	554	-	-	143	0	4	147	8	0	16	0	0	24
2008	47	434	1	17	0	499	-	-	0	7	0	7	-	-	-	-	-	-
2009	597	461	138	3	2	1,201	-	-	458	102	24	584	1	8	0	0	0	9
2010	1,902	1,529	368	332	0	4,131	-	-	69	18	0	87	-	-	-	-	-	-
2011 <sup>d/</sup>	2,022	513	276	30	93	2,934	-	-	1	0	139	140	0	0	7	0	0	7
<u>La Push</u>																		
1976-1980	6,487	5,777	19,674	10,996	2,548	44,972	-	46,357	112,723	63,373	22,453	203,330	281	156	39,572	102,977	293	143,277
1981-1985	1,879	257	4,971	1,313	-	7,061	-	-	29,610	8,820	-	34,020	39	-	7,150	15,725	-	22,914
1986-1990	3,225	2,241	40	527	11	4,251	-	-	350	5,397	16	4,139	0	-	728	0	-	364
1991-1995	921	1,020	734	335	11	2,769	-	-	1,773	1,465	1,050	2,876	0	0	20	1,736	46	1,773
1996-2000	966	416	336	150	-	1,503	-	-	140	547	328	851	0	0	0	13	0	7
2001	843	106	180	-	-	1,129	-	-	165	-	-	165	0	0	0	-	-	0
2002	0	72	1,803	1,151	-	3,026	-	-	-	-	-	-	-	-	-	-	-	-
2003	964	787	3,564	1,631	49	6,995	-	-	1,752	928	104	2,784	0	0	63	35	10	108
2004	237	273	1,974	2,056	302	4,842	-	-	1,059	1,847	269	3,175	-	-	-	-	-	-
2005	1,939	450	1,469	2,553	-	6,411	-	-	2	92	-	94	4	0	0	1	-	5
2006	723	2,371	844	2,658	1,281	7,877	-	-	100	551	115	766	-	-	-	-	-	-
2007	144	2,932	1,588	437	2	5,103	-	-	803	286	2	1,091	0	19	103	0	0	122
2008	24	1,259	501	380	58	2,222	-	-	186	265	39	490	-	-	-	-	-	-
2009	1,372	523	522	272	33	2,722	-	-	2,466	3,888	803	7,157	0	2	80	34	1	117
2010	2,125	1,632	984	1,147	23	5,911	-	-	121	87	1	209	-	-	-	-	-	-
2011 <sup>d/</sup>	2,700	4,075	2,683	781	179	10,418	-	-	574	436	157	1,167	0	2	58	37	1	98

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

Year or Avg.	May	June	July	Aug.	Sept. <sup>b/</sup>	Season	May	June	July	Aug.	Sept. <sup>b/</sup>	Season	May	June	July	Aug.	Sept. <sup>b/</sup>	Season	
	<b>CHINOOK</b>						<b>COHO</b>						<b>PINKS</b>						
<u>Westport</u>																			
1976-1980	28,493	15,087	18,923	13,306	5,291	81,100	97	69,485	123,307	52,640	17,651	207,515	239	53	13,298	13,510	119	27,219	
1981-1985	20,022	2,850	13,121	3,661	-	34,995	-	-	55,366	11,022	-	63,633	78	20	4,976	3,773	-	7,589	
1986-1990	17,976	6,478	17,639	1,489	-	27,281	-	-	34,992	9,157	-	15,616	115	182	390	23	-	412	
1991-1995	6,118	5,160	1,807	1,207	929	13,907	-	-	1,968	3,364	6,020	8,689	2	1	4	6	4	11	
1996-2000	394	559	266	619	3	1,329	-	-	769	1,855	29	2,387	0	1	1	0	0	2	
2001	4,177	4,798	2,863	846	219	12,903	-	-	1,524	2,070	2,615	6,209	0	1	13	0	0	14	
2002	12,384	6,249	7,879	3,817	-	30,329	-	-	-	53	-	53	-	-	-	-	-	-	
2003	3,592	3,636	4,254	4,577	714	16,773	-	-	821	1,961	418	3,200	0	0	32	5	0	37	
2004	7,889	374	1,232	1,102	491	11,088	-	-	336	1,060	4,969	6,365	-	-	-	-	-	-	
2005	11,426	1,159	1,255	1,338	-	15,178	-	-	102	271	-	373	0	0	2	1	-	3	
2006	1,578	632	120	138	89	2,557	-	-	10	59	115	184	-	-	-	-	-	-	
2007	5,326	814	1,700	264	7	8,111	-	-	998	757	28	1,783	0	0	0	1	0	1	
2008	1,380	1,657	671	764	201	4,673	-	-	165	645	322	1,132	-	-	-	-	-	-	
2009	3,576	3,111	955	405	85	8,132	-	-	1,933	5,291	2,836	10,060	0	4	2	3	0	9	
2010	4,192	19,171	4,761	5,788	259	34,171	-	-	895	639	123	1,657	-	-	-	-	-	-	
2011 <sup>d/</sup>	2,960	4,727	3,056	1,709	66	12,518	-	-	1,055	456	197	1,708	0	1	53	56	0	110	
<u>Ilwaco</u>																			
1976-1980	7,990	6,369	3,933	3,312	3,188	23,518	6	92,879	72,101	28,995	17,251	136,926	5	5	1,817	1,348	423	3,598	
1981-1985	6,464	1,263	2,309	603	418	9,172	-	-	29,801	14,415	13,373	32,087	4	-	931	647	-	1,272	
1986-1990	2,998	901	1,324	1,518	937	5,089	-	-	10,844	19,388	13,026	23,765	0	0	87	1	1	45	
1991-1995	1,147	36	57	156	15	1,386	-	-	477	5,019	930	5,957	0	0	0	30	0	30	
1996-2000	0	0	-	513	40	184	-	-	-	1,221	385	1,413	0	0	-	-	-	0	
2001	518	9	111	148	158	944	-	-	351	594	513	1,458	0	0	0	2	0	2	
2002	371	48	855	482	-	1,756	-	-	-	127	-	127	-	-	-	-	-	-	
2003	790	110	486	383	151	1,920	-	-	417	512	361	1,290	0	0	34	2	0	36	
2004	56	77	72	99	54	358	-	-	188	309	633	1,130	-	-	-	-	-	-	
2005	254	308	262	662	-	1,486	-	-	154	484	-	638	0	0	0	0	-	0	
2006	1,746	364	0	1	13	2,124	-	-	7	29	38	74	-	-	-	-	-	-	
2007	173	226	43	50	8	500	-	-	338	2,401	126	2,865	0	0	0	0	0	0	
2008	361	847	7	24	3	1,242	-	-	4	65	8	77	-	-	-	-	-	-	
2009	146	49	20	46	0	261	-	-	587	1,667	0	2,254	0	0	0	0	0	0	
2010	210	230	168	237	41	886	-	-	99	38	14	151	-	-	-	-	-	-	
2011 <sup>d/</sup>	472	543	1	12	4	1,032	-	-	1	25	12	38	0	0	0	0	0	0	

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

Year or Avg.	May	June	July	Aug.	Sept. <sup>b/</sup>	Season	May	June	July	Aug.	Sept. <sup>b/</sup>	Season	May	June	July	Aug.	Sept. <sup>b/</sup>	Season
	CHINOOK						COHO						PINKS					
<b>Statewide Total</b>																		
1976-1980	49,751	29,764	54,970	36,395	12,644	183,524	36	227,735	375,428	203,795	79,481	704,272	570	449	96,689	310,003	5,170	412,880
1981-1985	31,659	4,389	26,113	5,153	225	61,303	-	-	140,300	37,526	4,524	152,480	234	33	51,212	87,639	415	139,394
1986-1990	30,079	11,970	9,576	2,950	943	46,222	-	-	23,869	49,522	13,034	54,379	115	182	2,729	36,287	1	19,714
1991-1995	17,003	11,895	3,985	1,396	1,132	25,628	-	-	7,595	17,356	8,862	27,800	10	9	88	25,360	390	25,792
1996-2000	5,247	2,897	4,030	1,713	43	10,018	-	-	3,905	6,021	386	8,881	1	2	31	21	0	29
2001	7,610	7,197	5,051	994	377	21,229	-	-	2,320	2,664	3,128	8,112	1	9	20	2	0	32
2002	18,381	11,049	16,126	8,263	-	53,819	-	-	-	180	-	180						
2003	18,710	8,918	14,858	12,439	1,277	56,202	-	-	3,696	4,267	994	8,957	0	0	176	65	10	251
2004	15,310	1,234	7,963	8,984	1,881	35,372	-	-	2,230	4,961	6,102	13,293						
2005	18,548	2,512	6,271	7,735	-	35,066	-	-	320	1,122	-	1,442	4	0	2	2	-	8
2006	6,481	3,912	1,073	3,459	1,844	16,769	-	-	129	845	291	1,265						
2007	5,866	4,094	3,502	771	35	14,268	-	-	2,282	3,444	160	5,886	8	19	119	1	0	147
2008	1,812	4,197	1,180	1,185	262	8,636	-	-	355	982	369	1,706						
2009	5,691	4,144	1,635	726	120	12,316	-	-	5,444	10,948	3,663	20,055	1	14	82	37	1	135
2010	8,429	22,562	6,281	7,504	323	45,099	-	-	1,184	782	138	2,104						
2011 <sup>d/</sup>	8,154	9,858	6,016	2,532	342	26,902	-	-	1,631	917	505	3,053	0	3	118	93	1	215

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

b/ Data for September include any catch after September.

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

d/ Preliminary.

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

Year or Avg.	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.-Dec.	Total	Year
									May-Sept.	Total
<u>Area 4B</u>										
1976-1980	207	33	41	37	44	22	4	37	177	424
1981-1985	167	53	43	54	57	16	14	32	224	436
1986-1990	167	63	53	75	92	24	2	43	309	520
1991-1995	75	35	27	29	64	3	26	26	158	269
1996-2000	14	12	14	1	25	6	-	2	58	74
2001	22	42	33	47	60	23	-	5	205	232
2002	13	8	12	5	1	0	-	3	26	42
2003	5	2	1	2	0	3	-	2	8	15
2004	28	0	12	38	68	22	-	107	140	275
2005	103	21	32	45	5	3	-	206	106	415
2006	28	13	157	16	15	10	-	39	211	278
2007	179	9	29	48	18	0	-	129	104	412
2008	52	9	21	59	110	13	-	51	212	315
2009	76	48	202	101	124	4	-	20	479	575
2010 <sup>al</sup>	145	143	200	25	7	1	-	40	376	561
2011 <sup>al</sup>	301	68	51	8	1	0	-	22	128	451
<u>Neah Bay</u>										
1976-1980	2	14	59	93	65	19	2	2	250	257
1981-1985	0	11	59	115	140	100	3	0	424	427
1986-1990	1	44	52	167	149	75	0	0	486	487
1991-1995	0	29	34	83	95	28	0	1	269	271
1996-2000	0	18	20	2	52	43	-	0	136	136
2001	0	11	31	74	112	79	-	0	307	307
2002	1	23	29	54	44	41	-	0	191	192
2003	2	21	25	61	53	40	-	0	200	202
2004	0	26	37	86	78	52	-	0	279	279
2005	0	67	110	78	133	67	-	0	455	455
2006	1	78	118	138	112	101	-	2	547	550
2007	0	13	161	135	125	4	-	0	438	438
2008	2	14	74	30	83	74	-	0	275	277
2009	0	27	27	122	112	0	-	0	288	288
2010 <sup>al</sup>	0	5	94	63	99	42	-	0	303	303
2011 <sup>al</sup>	0	25	130	122	100	19	-	0	396	396
<u>La Push<sup>bl</sup></u>										
1976-1980	0	14	37	54	43	8	0	0	156	156
1981-1985	0	10	26	86	93	29	0	0	243	243
1986-1990	0	21	39	119	150	37	-	-	366	366
1991-1995	0	3	7	44	100	5	-	-	160	160
1996-2000	0	0	1	0	3	2	-	-	6	6
2001	0	0	0	0	0	2	-	-	2	2
2002	0	0	0	1	2	0	10	-	3	13
2003	0	0	1	0	0	0	15	-	1	16
2004	0	0	0	2	2	0	15	-	4	19
2005	0	1	1	3	3	1	0	-	9	9
2006	0	2	7	11	8	3	5	-	31	36
2007	0	0	15	2	13	1	0	-	31	31
2008	0	4	26	11	9	2	1	-	52	53
2009	0	2	3	2	6	0	4	-	13	17
2010 <sup>al</sup>	0	3	1	11	10	2	4	-	27	31
2011 <sup>al</sup>	0	0	3	0	3	2	1	-	8	9

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

Year or Avg.	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct. <sup>b/</sup>	Nov.-Dec.	Total May-Sept.	Year Total
<b><u>Westport</u></b>										
1976-1980	0	1	1	8	10	0	0	0	20	20
1981-1985	0	6	12	30	23	2	0	0	72	72
1986-1990	0	10	24	73	68	24	-	-	199	199
1991-1995	0	1	4	26	52	10	-	-	95	95
1996-2000	0	1	2	8	15	3	-	-	29	29
2001	0	0	1	1	0	0	-	-	2	2
2002	0	0	1	1	4	0	-	-	6	6
2003	0	1	0	0	4	2	-	-	7	7
2004	0	1	0	1	4	2	-	-	8	8
2005	0	9	3	0	9	6	-	-	27	27
2006	0	3	3	2	5	3	-	-	16	16
2007	0	0	0	4	11	2	-	-	17	17
2008	0	3	4	2	29	3	-	-	41	41
2009	0	6	6	8	28	1	-	-	49	49
2010 <sup>a/</sup>	0	7	40	56	32	18	-	-	153	153
2011 <sup>a/</sup>	0	0	8	15	21	1	-	-	45	45
<b><u>Statewide Total</u></b>										
1976-1980	209	61	137	192	162	50	6	39	603	858
1981-1985	167	79	141	284	313	146	17	32	963	1,179
1986-1990	168	138	168	434	460	161	2	43	1,360	1,572
1991-1995	75	69	71	182	311	48	10	27	682	794
1996-2000	14	31	38	11	96	53	-	2	229	246
2001	22	53	65	122	172	104	-	5	516	543
2002	14	31	42	61	51	41	10	3	226	253
2003	7	24	27	63	57	45	15	2	216	240
2004	28	27	49	127	152	76	15	107	431	581
2005	103	98	146	126	150	77	0	206	597	906
2006	29	96	285	167	140	117	5	41	805	880
2007	179	22	205	189	167	7	0	129	590	898
2008	54	30	125	102	231	92	1	51	580	686
2009	76	83	238	233	270	5	4	20	829	929
2010 <sup>a/</sup>	145	158	335	155	148	63	4	40	859	1,048
2011 <sup>a/</sup>	301	93	192	145	125	22	1	22	577	901

a/ Preliminary.

b/ October effort beginning in 2002 occurred during Quileute ceremonial and subsistence fishery.

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

Year or Avg.	CHINOOK										COHO									
	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.-Dec.	May-Sept.	Year	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.-Dec.	May-Sept.	Year
<b>Area 4B</b>																				
1976-1980	8,521	360	641	98	103	27	10	776	1,229	10,536	406	23	499	191	252	152	5	61	1,116	1,589
1981-1985	13,109	1,066	248	94	49	29	145	823	1,485	15,562	42	245	184	825	1,015	208	36	7	2,476	2,561
1986-1990	6,009	2,540	1,746	284	323	63	12	2,677	4,956	13,654	9	0	65	2,150	7,766	813	7	13	10,794	10,822
1991-1995	3,549	467	865	60	282	2	147	1,068	1,677	6,323	2	0	0	554	4,036	30	257	7	4,620	4,731
1996-2000	694	371	459	25	113	31	-	32	1,000	1,726	0	0	0	0	1,221	132	-	0	1,353	1,353
2001	1,364	1,208	4,293	928	478	137	-	273	7,044	8,681	0	0	1	2,543	3,103	730	-	1	6,377	6,378
2002	366	467	848	113	31	0	-	25	1,459	1,850	0	0	0	0	0	0	-	0	0	0
2003	187	25	46	14	0	2	-	3	87	277	0	0	0	4	0	141	-	0	145	145
2004	1,555	0	2,544	1,032	1,910	1,647	-	14,588	7,133	23,276	0	0	0	1,958	12,817	1,829	-	108	16,604	16,712
2005	999	238	3,764	522	6	6	-	3,935	4,536	9,470	3	0	0	2,040	64	25	-	41	2,129	2,173
2006	157	154	2,335	50	93	81	-	456	2,713	3,326	0	1	3	96	22	47	-	0	169	169
2007	2,218	53	324	556	167	0	-	1,340	1,100	4,658	0	0	0	1,496	29	0	-	5	1,525	1,530
2008	483	35	272	618	1,607	109	-	375	2,641	3,499	0	0	8	81	483	72	-	0	644	644
2009	464	481	4,528	593	615	12	-	68	6,229	6,761	0	0	0	3,319	4,555	17	-	0	7,891	7,891
2010 <sup>af</sup>	1,722	1,657	3,240	171	37	9	-	200	5,114	7,036	0	0	0	106	3	0	-	12	109	121
2011 <sup>af</sup>	2,889	585	373	46	15	0	-	89	1,019	3,997	2	0	0	10	13	0	-	2	23	27
<b>Neah Bay</b>																				
1976-1980	8	297	1,140	1,168	146	16	1	9	2,766	2,784	1	57	3,527	1,486	483	256	6	2	5,809	5,818
1981-1985	0	520	1,191	2,406	673	772	54	11	5,561	5,626	0	8	4,647	9,017	16,515	13,404	18	0	43,590	43,609
1986-1990	6	2,604	2,317	3,114	2,657	685	0	0	11,376	11,382	0	3	106	16,829	16,934	7,241	0	0	41,114	41,114
1991-1995	0	3,800	2,807	2,797	2,704	471	0	16	12,579	12,595	0	1	1	12,665	13,860	4,816	0	1	31,342	31,343
1996-2000	1	2,191	5,957	353	3,368	1,809	-	17	13,679	13,697	0	0	0	15	9,027	7,940	-	0	16,982	16,982
2001	0	1,070	9,047	5,438	2,510	3,171	-	0	21,236	21,236	0	0	11	5,967	24,881	21,335	-	0	52,194	52,194
2002	34	4,897	10,263	11,805	8,005	3,123	-	0	38,093	38,127	0	1	1	3,449	4,530	9,042	-	0	17,023	17,023
2003	21	2,821	12,946	12,921	5,023	1,031	-	0	34,742	34,763	98	3	0	4,445	4,164	2,012	-	0	10,624	10,722
2004	0	9,809	14,433	9,670	4,978	3,387	-	0	42,277	42,277	0	3	3	14,114	23,814	7,361	-	0	45,295	45,295
2005	0	4,733	14,608	4,272	7,105	3,097	-	0	33,815	33,815	0	3	1	1,715	15,460	3,972	-	0	21,151	21,151
2006	6	2,565	5,714	6,827	5,696	4,744	-	35	25,546	25,587	2	15	99	9,928	9,304	10,418	-	0	29,764	29,766
2007	0	263	12,532	2,639	4,099	52	-	0	19,585	19,585	0	0	12	20,862	14,951	745	-	0	36,570	36,570
2008	55	242	5,694	1,066	3,119	3,071	-	0	13,192	13,247	17	0	8	511	2,107	9,304	-	0	11,930	11,947
2009	0	802	1,083	1,615	1,649	0	-	0	5,149	5,149	0	0	0	21,558	23,832	0	-	0	45,390	45,390
2010 <sup>af</sup>	0	231	8,059	5,080	8,486	957	-	0	22,813	22,813	0	0	13	1,304	4,580	2,882	-	0	8,779	8,779
2011 <sup>af</sup>	0	535	7,701	14,407	4,989	359	-	0	27,991	27,991	0	0	0	1,949	4,193	6,174	-	0	12,316	12,316



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

Year or Avg.	CHINOOK										COHO									
	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.-Dec.	May-Sept.	Year	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.-Dec.	May-Sept.	Year
<u>La Push<sup>b/</sup></u>																				
1976-1980	0	118	243	483	142	27	0	0	1,013	1,013	0	641	3,624	1,229	482	34	0	0	6,010	6,010
1981-1985	0	243	321	827	508	212	0	0	2,112	2,112	0	30	2,251	5,302	6,393	2,855	0	0	16,832	16,832
1986-1990	0	1,062	944	2,044	744	259	-	-	5,054	5,054	0	0	2,694	8,430	7,021	2,250	-	-	20,395	20,395
1991-1995	0	61	278	465	601	22	-	-	1,428	1,428	0	0	0	2,863	6,123	201	-	-	9,187	9,187
1996-2000	0	0	16	0	40	7	-	-	63	63	0	0	0	103	95	-	-	198	198	
2001	0	0	0	0	0	3	-	-	3	3	0	0	0	0	24	-	-	24	24	
2002	0	0	0	124	4	0	30	-	128	158	0	0	0	372	0	80	-	372	452	
2003	0	0	47	0	0	0	35	-	47	82	0	0	0	0	0	85	-	0	85	
2004	0	0	0	50	6	0	25	-	56	81	0	0	0	61	23	0	100	84	184	
2005	0	258	1	177	188	74	0	-	698	698	0	0	0	1	26	36	0	63	63	
2006	0	82	248	825	870	66	15	-	2,091	2,106	0	0	0	446	1,272	123	5	1,841	1,846	
2007	0	0	1,773	60	234	5	0	-	2,072	2,072	0	0	0	248	1,099	52	0	1,399	1,399	
2008	0	58	2,834	380	888	368	1	-	4,528	4,529	0	0	2	267	297	379	0	945	945	
2009	0	83	99	20	158	25	25	-	385	410	0	0	0	102	3,060	15	15	3,177	3,192	
2010 <sup>a/</sup>	0	6	85	754	700	41	10	-	1,586	1,596	0	2	0	157	226	13	15	398	413	
2011 <sup>a/</sup>	0	0	457	0	69	46	1	-	572	573	0	0	0	0	29	482	0	511	511	
<u>Westport</u>																				
1976-1980	0	12	14	27	24	1	0	0	78	78	0	0	27	10	58	1	0	0	95	95
1981-1985	0	321	123	310	105	6	0	0	865	865	0	0	353	1,262	561	199	0	0	2,376	2,376
1986-1990	0	671	949	1,283	783	241	-	-	3,926	3,926	0	0	1,391	4,901	4,221	747	-	-	11,260	11,260
1991-1995	0	15	231	188	656	74	-	-	1,165	1,165	0	0	0	1,138	2,019	228	-	-	3,385	3,385
1996-2000	0	18	91	67	286	46	-	-	508	508	0	0	0	712	367	-	-	1,079	1,079	
2001	0	0	365	195	0	0	-	-	560	560	0	0	0	0	0	0	-	-	0	0
2002	0	0	95	37	34	0	-	-	166	166	0	0	0	0	27	0	-	-	27	27
2003	0	10	0	0	209	77	-	-	296	296	0	0	0	0	112	61	-	-	173	173
2004	0	138	0	13	66	52	-	-	269	269	0	0	0	0	30	84	-	-	114	114
2005	0	1,629	1	0	801	495	-	-	2,926	2,926	0	0	0	0	399	255	-	-	654	654
2006	0	20	44	34	31	66	-	-	195	195	0	0	0	5	36	123	-	-	164	164
2007	0	0	0	94	79	13	-	-	186	186	0	0	0	137	344	63	-	-	544	544
2008	0	23	64	35	393	31	-	-	546	546	0	0	0	6	674	65	-	-	745	745
2009	0	128	118	101	144	0	-	-	491	491	0	0	0	443	3,694	68	-	-	4,205	4,205
2010 <sup>a/</sup>	0	37	766	938	468	624	-	-	2,833	2,833	0	0	50	448	249	1,390	-	-	2,137	2,137
2011 <sup>a/</sup>	0	0	277	253	1,560	13	-	-	2,103	2,103	0	0	0	132	566	65	-	-	763	763

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

Year or Avg.	CHINOOK										COHO										
	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.-Dec.	May-Sept.	Year	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.-Dec.	May-Sept.	Year	
<b>Statewide Total</b>																					
1976-1980	8,529	787	2,037	1,776	415	70	11	785	5,086	14,411	407	720	7,677	2,915	1,275	443	11	63	13,030	13,512	
1981-1985	13,109	2,150	1,883	3,636	1,336	1,018	198	834	10,023	24,164	42	283	7,435	16,406	24,484	16,666	54	7	65,274	65,377	
1986-1990	6,015	6,877	5,955	6,726	4,506	1,248	12	2,677	25,312	34,016	9	3	4,256	32,310	35,942	11,051	7	13	83,563	83,591	
1991-1995	3,549	4,343	4,181	3,511	4,243	571	29	1,084	16,849	21,511	2	1	1	17,220	26,038	5,275	103	8	48,535	48,647	
1996-2000	695	2,580	6,524	446	3,806	1,893	-	49	15,249	15,994	0	0	0	15	11,063	8,533	-	0	19,611	19,611	
2001	1,364	2,278	13,705	6,561	2,988	3,311	-	273	28,843	30,480	0	0	12	8,510	27,984	22,089	-	1	58,595	58,596	
2002	400	5,364	11,206	12,079	8,074	3,123	30	25	39,846	40,301	0	1	1	3,449	4,929	9,042	80	0	17,422	17,502	
2003	208	2,856	13,039	12,935	5,232	1,110	35	3	35,172	35,418	98	3	0	4,449	4,276	2,214	85	0	10,942	11,125	
2004	1,555	9,947	16,977	10,765	6,960	5,086	25	14,588	49,735	65,903	0	3	3	16,133	36,684	9,274	100	108	62,097	62,305	
2005	999	6,858	18,374	4,971	8,100	3,672	0	3,935	41,975	46,909	3	3	1	3,756	15,949	4,288	0	41	23,997	24,041	
2006	163	2,821	8,341	7,736	6,690	4,957	15	491	30,545	31,214	2	16	102	10,475	10,634	10,711	5	0	31,938	31,945	
2007	2,218	316	14,629	3,349	4,579	70	0	1,340	22,943	26,501	0	0	12	22,743	16,423	860	0	5	40,038	40,043	
2008	538	358	8,864	2,099	6,007	3,579	1	375	20,907	21,821	17	0	18	865	3,561	9,820	0	0	14,264	14,281	
2009	464	1,494	5,828	2,329	2,566	37	25	68	12,254	12,811	0	0	0	25,422	35,141	100	15	0	60,663	60,678	
2010 <sup>a/</sup>	1,722	1,931	12,150	6,943	9,691	1,631	10	200	32,346	34,278	0	2	63	2,015	5,058	4,285	15	12	11,423	11,450	
2011 <sup>a/</sup>	2,889	1,120	8,808	14,706	6,633	418	1	89	31,685	34,664	2	0	0	2,091	4,801	6,721	0	2	13,613	13,617	

a/ Preliminary.

b/ October landings beginning in 2002 occurred during Quileute ceremonial and subsistence fishery.

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

Year or Avg. <sup>a/</sup>	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.-Dec.	Total	
									May-Sept.	Year
<u>Area 4B</u>										
1977-1979	1	2	267	158	649	16	0	0	1,092	1,092
1981-1985	0	23	2	108	698	7	0	0	838	838
1987-1989	0	0	0	1,395	643	142	0	0	2,179	2,179
1991-1995	0	0	0	43	1,233	2	0	0	1,278	1,278
1997-1999	0	0	0	0	550	7	-	0	557	557
2001	0	0	0	504	334	15	-	0	853	853
2003	0	0	0	0	0	0	-	0	0	0
2005	0	0	0	154	88	0	-	0	242	242
2007	0	0	0	82	141	0	-	0	223	223
2009	0	0	0	189	219	0	-	0	408	408
2011 <sup>b/</sup>	0	0	3	55	15	0	-	0	73	73
<u>Neah Bay</u>										
1977-1979	0	42	91	636	1,339	5	0	0	2,112	2,112
1981-1985	0	0	94	1,340	6,684	302	0	0	8,419	8,419
1987-1989	0	2	4	6,553	2,901	377	0	0	9,837	9,837
1991-1995	0	0	1	385	4,002	249	0	0	4,636	4,636
1997-1999	0	0	0	0	1,023	74	-	0	1,096	1,096
2001	0	11	0	192	1,203	192	-	0	1,598	1,598
2003	0	0	0	172	41	23	-	0	236	236
2005	0	0	0	32	103	3	-	0	138	138
2007	0	0	7	244	96	0	-	0	347	347
2009	0	0	0	237	145	0	-	0	382	382
2011 <sup>b/</sup>	0	0	3	656	310	16	-	0	985	985
<u>La Push</u>										
1977-1979	0	5	1,192	259	1,032	0	0	0	2,488	2,488
1981-1985	0	7	100	654	418	12	0	0	1,191	1,191
1987-1989	0	3	6	625	667	65	-	-	1,365	1,365
1991-1995	0	0	0	65	277	10	-	-	353	353
1997-1999	0	0	0	0	0	0	-	-	0	0
2001	0	0	0	0	0	0	-	-	0	0
2003	0	0	0	0	0	0	0	-	0	0
2005	0	0	0	0	1	0	0	-	1	1
2007	0	0	0	0	14	0	0	-	14	14
2009	0	0	0	1	4	0	0	-	5	5
2011 <sup>b/</sup>	0	0	0	0	4	0	0	-	4	4

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

Year or Avg. <sup>a/</sup>	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.-Dec.	Total	
									May-Sept.	Year
<b>Westport</b>										
1977-1979	0	0	0	0	0	0	0	0	0	0
1981-1985	0	1	18	106	6	0	0	0	132	132
1987-1989	0	0	0	419	44	8	-	-	471	471
1991-1995	0	0	0	7	6	0	-	-	13	13
1997-1999	0	0	0	0	0	0	-	-	0	0
2001	0	0	0	0	0	0	-	-	0	0
2003	0	0	0	0	0	0	-	-	0	0
2005	0	0	0	0	6	0	-	-	6	6
2007	0	0	0	0	0	0	-	-	0	0
2009	0	0	0	4	1	0	-	-	5	5
2011 <sup>b/</sup>	0	0	0	4	5	0	-	-	9	9
<b>Total Statewide</b>										
1977-1979	1	49	1,550	1,053	3,019	21	0	0	5,691	5,692
1981-1985	0	32	214	2,208	7,806	320	0	0	10,580	10,580
1987-1989	0	5	10	8,991	4,254	591	0	0	13,851	13,851
1991-1995	0	0	1	499	5,519	261	0	0	6,280	6,280
1997-1999	0	0	0	0	1,573	81	-	0	1,653	1,653
2001	0	11	0	696	1,537	207	-	0	2,451	2,451
2003	0	0	0	172	41	23	0	0	236	236
2005	0	0	0	186	198	3	0	0	387	387
2007	0	0	7	326	251	0	0	0	584	584
2009	0	0	0	431	369	0	0	0	800	800
2011 <sup>b/</sup>	0	0	6	715	334	16	0	0	1,071	1,071

a/ Odd year averages only.

b/ Preliminary.

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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
<u>Neah Bay</u>								
1976-1980	746	1,094	4,100	13,027	17,885	6,974	529	44,206
1981-1985	80	557	979	9,338	13,391	3,382	126	27,495
1986-1990	-	431	491	13,953	7,341	2,193	-	23,175
1991-1995 <sup>a/</sup>	-	1,258	4	12,553	9,455	994	-	20,494
1996-2000 <sup>a/</sup>	-	-	-	3,462	5,345	1,098	-	8,301
2001	-	-	-	10,450	6,516	981	-	17,947
2002	-	576	2,533	3,957	5,467	1,151	-	13,684
2003	-	-	1,372	10,109	8,071	897	-	20,449
2004	-	-	435	14,337	10,376	993	-	26,141
2005	-	-	-	11,462	4,977	1,972	-	18,410
2006	-	-	946	6,600	4,935	928	-	13,409
2007	-	-	-	6,945	5,731	691	-	13,367
2008	-	-	1,066	2,475	2,582	247	-	6,370
2009	-	-	225	6,436	8,608	1,202	-	16,471
2010	-	-	1,239	5,701	3,803	807	-	11,549
2011 <sup>b/</sup>	-	-	638	5,500	4,259	671	-	11,069
<u>La Push</u>								
1976-1980	24	344	1,341	7,932	11,716	3,916	436	24,736
1981-1985	-	0	77	1,119	2,075	231	239	3,332
1986-1990	-	66	60	1,768	749	154	113	2,478
1991-1995	-	-	-	2,236	548	480	8	2,587
1996-2000	-	-	-	1,060	666	588	-	1,537
2001	-	-	-	1,941	960	247	239	3,387
2002	-	59	231	1,089	1,350	568	113	3,410
2003	-	-	244	1,774	1,595	628	128	4,369
2004	-	-	123	1,883	1,484	1,053	20	4,563
2005	-	-	-	1,867	2,039	895	160	4,961
2006	-	-	173	1,029	1,943	740	258	4,143
2007	-	-	-	989	1,640	639	0	3,268
2008	-	-	281	535	709	508	38	2,071
2009	-	-	102	1,462	2,700	601	212	5,077
2010	-	-	390	838	1,940	513	154	3,836
2011 <sup>b/</sup>	-	-	194	1,406	1,946	676	16	4,237
<u>Westport</u>								
1976-1980	4,720	12,340	37,368	66,487	66,306	23,133	3,454	210,286
1981-1985	-	3,607	20,142	34,172	23,472	2,602	208	78,766
1986-1990	-	1,451	3,663	30,256	15,991	5,000	40	52,492
1991-1995	-	-	4,955	20,127	15,146	8,072	706	44,760
1996-2000	-	-	-	7,529	8,354	1,951	-	15,938
2001	-	-	-	25,363	16,256	8,063	-	49,682
2002	-	1,861	10,849	16,358	12,343	-	-	41,411
2003	-	-	4,278	20,747	18,302	4,722	-	48,049
2004	-	-	1,455	15,722	15,045	5,967	-	38,189
2005	-	-	1,119	12,560	15,488	6,003	-	35,170
2006	-	-	-	8,857	13,802	1,883	-	24,541
2007	-	-	-	9,548	14,143	2,225	-	25,916
2008	-	-	2,660	8,381	5,880	1,809	-	18,731
2009	-	-	777	10,217	21,238	5,599	-	37,831
2010	-	-	7,822	11,841	13,804	4,961	-	38,428
2011 <sup>b/</sup>	-	-	4,705	10,428	14,973	3,440	-	33,545

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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
<b>Ilwaco<sup>c/</sup></b>								
1976-1980	914	4,670	20,809	41,988	62,372	18,676	2,127	150,581
1981-1985	-	921	7,560	23,249	21,383	3,652	721	53,751
1986-1990	-	298	1,641	19,733	19,450	1,782	-	41,268
1991-1995	-	-	1,660	17,100	11,766	7,412	-	37,108
1996-2000	-	-	-	4,775	7,041	3,037	-	12,683
2001	-	-	-	21,097	25,229	9,060	-	55,386
2002	-	215	1,290	9,004	18,137	8,016	-	36,662
2003	-	-	455	15,033	29,574	6,938	-	52,000
2004	-	-	597	11,662	23,716	7,836	-	43,811
2005	-	-	-	6,070	18,968	7,016	-	32,054
2006	-	-	-	5,740	15,480	1,950	-	23,170
2007	-	-	-	7,486	20,350	2,295	-	30,132
2008	-	-	777	4,506	5,156	-	-	10,439
2009	-	-	193	10,271	30,247	1,470	-	42,181
2010	-	-	557	7,165	17,349	2,070	-	27,141
2011 <sup>b/</sup>	-	-	674	5,358	15,127	3,586	-	24,744
<b>Total Statewide<sup>c/</sup></b>								
1976-1980	3,574	18,447	63,618	129,433	158,279	51,916	5,256	429,809
1981-1985	80	4,067	22,991	67,877	60,321	7,746	436	163,344
1986-1990	-	1,339	5,840	65,710	43,382	5,090	40	119,412
1991-1995 <sup>a/</sup>	-	1,258	4,140	48,319	36,915	16,837	714	104,949
1996-2000 <sup>a/</sup>	-	-	-	15,695	21,407	4,496	-	38,459
2001	-	-	-	58,851	48,961	18,351	239	126,402
2002	-	2,711	14,903	30,408	37,297	9,735	113	95,167
2003	-	-	6,349	47,663	57,542	13,185	128	124,867
2004	-	-	2,610	43,604	50,621	15,849	20	112,704
2005	-	-	1,119	31,959	41,472	15,886	160	90,595
2006	-	-	1,119	22,226	36,159	5,501	258	65,263
2007	-	-	-	24,968	41,865	5,851	0	72,683
2008	-	-	4,784	15,898	14,327	2,564	38	37,610
2009	-	-	1,297	28,386	62,792	8,872	212	101,560
2010	-	-	10,008	25,546	36,896	8,351	154	80,955
2011 <sup>b/</sup>	-	-	6,211	22,692	36,305	8,372	16	73,596

a/ Includes effort from the Washington State waters Area 4B fishery (none in 1994 or 1999).

b/ Preliminary.

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

TABLE A-18. Washington ocean recreational Chinook and coho salmon landings in numbers of fish by port of landing and statistical month. (Page 1 of 3)

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
	<b>CHINOOK</b>								<b>COHO</b>							
<u>Neah Bay</u>																
1976-1980	318	534	1,197	2,438	1,424	617	96	6,334	213	537	3,363	11,424	20,652	7,761	252	44,158
1981-1985	57	149	234	1,293	483	194	35	2,224	80	338	639	8,878	16,452	3,414	150	29,436
1986-1990 <sup>a/</sup>	-	114	143	2,554	358	35	-	2,963	-	-	384	15,896	11,629	3,446	-	29,747
1991-1995 <sup>b/</sup>	-	148	-	1,443	232	62	-	1,420	-	40	-	15,654	13,052	991	-	25,804
1996-2000 <sup>b/</sup>	-	-	-	396	68	5	-	267	-	-	-	1,686	5,023	1,782	-	7,103
2001	-	-	-	1,103	366	54	-	1,523	-	-	-	9,840	6,936	1,101	-	17,877
2002	-	234	1,225	3,004	757	7	-	5,227	-	-	-	1,792	5,419	1,185	-	8,396
2003	-	-	589	3,071	997	40	-	4,697	-	-	785	9,104	8,721	1,139	-	19,749
2004	-	-	235	4,117	1,090	73	-	5,515	-	-	361	14,188	13,846	1,005	-	29,400
2005	-	-	-	2,254	316	213	-	2,784	-	-	-	7,033	2,420	765	-	10,218
2006	-	-	166	734	443	73	-	1,417	-	-	380	3,763	1,570	309	-	6,023
2007	-	-	-	1,179	245	47	-	1,471	-	-	-	4,981	4,997	631	-	10,608
2008 <sup>b/</sup>	-	-	311	725	317	3	-	1,357	-	-	-	679	1,459	23	-	2,161
2009	-	-	51	1,277	1,071	47	-	2,447	-	-	118	4,807	7,500	912	-	13,336
2010	-	-	144	1,573	1,453	129	-	3,299	-	-	1	1,926	1,609	150	-	3,687
2011 <sup>c/</sup>	-	-	257	1,382	1,330	14	-	2,983	-	-	54	1,918	943	140	-	3,054
<u>La Push</u>																
1976-1980	0	8	161	948	1,318	410	135	2,844	22	271	1,671	8,586	15,198	3,879	43	28,864
1981-1985	-	0	7	132	166	8	-	304	-	0	72	861	2,786	251	-	3,791
1986-1990 <sup>a/</sup>	-	9	10	303	93	15	-	391	-	-	37	2,129	1,026	125	-	3,022
1991-1995	-	-	-	215	31	29	2	207	-	-	-	2,766	606	444	2	3,014
1996-2000	-	-	-	188	125	54	-	259	-	-	-	894	732	704	-	1,550
2001	-	-	-	324	100	60	100	584	-	-	-	1,785	1,357	153	15	3,310
2002	-	7	123	1,132	579	92	43	1,976	-	-	-	492	1,010	146	4	1,652
2003	-	-	128	785	802	111	62	1,888	-	-	136	1,564	1,502	193	12	3,407
2004	-	-	38	853	529	404	6	1,830	-	-	37	1,437	1,266	420	3	3,163
2005	-	-	-	605	694	309	43	1,651	-	-	-	274	1,395	633	18	2,320
2006	-	-	36	247	955	342	91	1,670	-	-	36	744	1,041	61	2	1,884
2007	-	-	-	132	348	116	0	595	-	-	-	758	1,869	142	0	2,769
2008	-	-	80	244	300	106	6	736	-	-	-	102	273	165	1	541
2009	-	-	7	194	329	53	97	680	-	-	165	1,944	4,317	377	92	6,896
2010	-	-	38	294	715	86	45	1,177	-	-	-	211	709	223	37	1,180
2011 <sup>c/</sup>	-	-	32	501	907	90	5	1,535	-	-	48	572	1,029	398	2	2,050

TABLE A-18. Washington ocean recreational Chinook and coho salmon landings in numbers of fish by port of landing and statistical month. (Page 2 of 3)

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
	<b>CHINOOK</b>								<b>COHO</b>							
<u>Westport</u>																
1976-1980	2,826	5,744	20,759	18,019	15,844	5,707	929	67,945	161	12,374	43,808	89,416	63,127	21,910	2,274	232,518
1981-1985	-	2,328	16,253	17,397	7,513	407	17	40,102	-	2,457	11,790	27,665	22,997	3,371	34	63,289
1986-1990	-	667	1,539	10,334	5,012	1,692	-	17,387	-	19	2,220	40,125	23,296	7,004	45	69,421
1991-1995	-	-	1,911	3,062	2,764	1,496	213	7,853	-	-	6,781	24,170	19,803	8,578	322	54,327
1996-2000	-	-	-	1,908	1,667	585	-	3,544	-	-	-	8,644	9,155	1,241	-	17,062
2001	-	-	-	12,205	2,758	782	-	15,745	-	-	-	31,372	25,115	12,909	-	69,396
2002	-	2,313	13,877	17,848	8,548	-	-	42,586	-	5	271	8,043	10,762	-	-	19,081
2003	-	-	1,972	9,103	8,953	1,786	-	21,814	-	-	2,714	14,882	17,343	4,328	-	39,267
2004	-	-	254	4,087	5,358	1,647	-	11,340	-	-	1,183	7,060	12,476	8,617	-	29,336
2005	-	-	364	5,245	12,179	4,585	-	22,373	-	-	126	3,139	4,869	2,374	-	10,508
2006	-	-	-	2,293	3,125	398	-	5,815	-	-	-	2,008	5,675	1,096	-	8,779
2007	-	-	-	2,494	2,545	208	-	5,247	-	-	-	7,289	14,055	1,648	-	22,992
2008	-	-	2,145	4,459	2,735	305	-	9,644	-	-	30	2,550	3,383	1,564	-	7,528
2009	-	-	124	2,080	2,594	225	-	5,023	-	-	539	10,745	33,181	9,403	-	53,868
2010	-	-	4,711	9,948	10,586	1,744	-	26,989	-	-	45	3,680	3,957	4,925	-	12,607
2011 <sup>c/</sup>	-	-	2,220	5,579	10,835	455	-	19,089	-	-	229	4,499	6,723	2,392	-	13,843
<u>Ilwaco<sup>d/</sup></u>																
1976-1980	286	2,019	9,143	7,497	15,789	2,261	182	36,969	493	5,627	40,398	69,166	65,240	23,882	2,221	206,286
1981-1985	-	214	3,364	4,545	4,505	279	40	12,031	-	5,410	10,296	36,373	26,437	5,982	825	75,883
1986-1990	-	111	233	1,793	3,302	76	-	5,334	-	-	2,638	32,864	27,048	2,114	-	62,868
1991-1995	-	-	86	704	736	194	-	1,677	-	-	2,733	25,600	14,459	6,796	-	48,220
1996-2000	-	-	-	356	561	129	-	923	-	-	-	7,157	8,380	2,707	-	15,730
2001	-	-	-	2,253	2,300	569	-	5,122	-	-	-	32,325	34,359	10,795	-	77,479
2002	-	53	1,927	3,380	2,571	101	-	8,032	-	-	30	10,136	23,997	10,842	-	45,005
2003	-	-	44	1,498	3,561	681	-	5,784	-	-	600	24,359	43,757	7,957	-	76,673
2004	-	-	22	765	4,039	1,396	-	6,222	-	-	935	17,203	27,040	5,859	-	51,037
2005	-	-	-	1,174	7,002	1,385	-	9,561	-	-	-	7,000	17,066	4,658	-	28,724
2006	-	-	-	478	1,148	140	-	1,765	-	-	-	6,533	12,222	646	-	19,401
2007	-	-	-	292	1,225	114	-	1,631	-	-	-	12,170	32,559	2,689	-	47,419
2008	-	-	474	1,166	1,258	-	-	2,898	-	-	330	3,337	4,973	-	-	8,640
2009	-	-	10	925	3,239	28	-	4,202	-	-	334	17,246	45,207	1,605	-	64,392
2010	-	-	106	1,485	3,588	229	-	5,409	-	-	1	6,430	11,725	650	-	18,805
2011 <sup>c/</sup>	-	-	352	808	4,107	329	-	5,596	-	-	289	5,104	12,678	2,564	-	20,634



TABLE A-18. Washington ocean recreational Chinook and coho salmon landings in numbers of fish by port of landing and statistical 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								COHO							
<b>Total Statewide<sup>d/</sup></b>																
1976-1980	2,392	8,304	31,259	28,901	34,375	8,790	1,285	114,092	551	18,809	89,239	178,591	164,217	56,656	3,873	511,827
1981-1985	57	2,153	15,884	23,367	12,667	645	46	54,662	80	2,961	22,620	73,777	68,672	9,800	436	172,399
1986-1990 <sup>a/</sup>	-	901	1,886	14,984	8,674	1,212	-	26,075	-	19	5,077	91,015	62,794	7,165	45	165,058
1991-1995 <sup>b/</sup>	-	148	1,041	5,009	3,756	1,743	215	11,156	-	40	6,124	63,585	47,920	16,697	324	131,364
1996-2000 <sup>b/</sup>	-	-	-	2,603	2,407	564	-	4,940	-	-	-	17,736	23,289	3,967	-	41,445
2001	-	-	-	15,885	5,524	1,465	100	22,974	-	-	-	75,322	67,767	24,958	15	168,062
2002	-	2,607	17,152	25,364	12,455	200	43	57,821	-	5	301	20,463	41,188	12,173	4	74,134
2003	-	-	2,733	14,457	14,313	2,618	62	34,183	-	-	4,235	49,909	71,323	13,617	12	139,096
2004	-	-	549	9,822	11,016	3,520	6	24,907	-	-	2,516	39,888	54,628	15,901	3	112,936
2005	-	-	364	9,278	20,191	6,492	43	36,369	-	-	126	17,446	25,750	8,430	18	51,770
2006	-	-	202	3,751	5,670	953	91	10,667	-	-	416	13,047	20,509	2,112	2	36,087
2007	-	-	-	4,097	4,362	485	0	8,944	-	-	-	25,198	53,479	5,110	0	83,788
2008	-	-	3,011	6,594	4,611	414	6	14,635	-	-	360	6,669	10,088	1,752	1	18,870
2009	-	-	192	4,476	7,233	353	97	12,351	-	-	1,157	34,742	90,204	12,297	92	138,493
2010	-	-	5,000	13,299	16,341	2,189	45	36,874	-	-	47	12,247	17,999	5,947	37	36,278
2011 <sup>c/</sup>	-	-	2,861	8,271	17,178	889	5	29,203	-	-	620	12,093	21,372	5,494	2	39,582

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

b/ Includes catch from the Washington State waters Area 4B fishery in 1991, 1992, 1993, 1996, 1997, 1998, 2000, and 2008.

c/ Preliminary.

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

TABLE A-19. Washington ocean recreational pink salmon landings in numbers of fish by port of landing and statistical month.  
(Page 1 of 2)

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
<u>Neah Bay</u>								
1977	0	0	15	1,667	8,714	89	0	10,485
1979	17	1	308	2,375	8,408	646	24	11,779
1981	-	18	7	1,787	5,965	-	27	7,804
1983	-	-	-	409	3,605	154	-	4,168
1985	-	-	0	143	1,071	9	-	1,223
1987	-	-	6	686	713	-	-	1,405
1989 <sup>al</sup>	-	0	0	1,443	295	202	-	1,940
1991 <sup>al</sup>	-	-	-	479	1,543	0	-	2,022
1993 <sup>al</sup>	-	0	-	609	1,264	371	-	2,244
1995	-	-	-	-	2,578	30	-	2,608
1997 <sup>al</sup>	-	-	-	79	498	-	-	577
1999	-	-	-	730	1,165	81	-	1,976
2001	-	-	-	1,715	1,081	3	-	2,799
2003	-	-	6	2,863	5,136	120	-	8,125
2005	-	-	-	1,456	1,375	62	-	2,893
2007	-	-	-	1,268	2,766	0	-	4,033
2009	-	-	9	2,591	4,266	270	-	7,136
2011 <sup>b/</sup>	-	-	33	3,320	3,960	159	-	7,473
<u>La Push</u>								
1977	0	0	40	600	2,328	8	0	2,976
1979	-	1	16	259	1,529	0	-	1,805
1981	-	0	0	0	336	-	-	336
1983	-	-	-	7	253	1	-	261
1985	-	-	0	9	33	0	-	42
1987	-	-	0	12	37	-	-	49
1989	-	0	0	0	-	-	-	0
1991	-	-	-	46	-	-	-	46
1993	-	-	-	46	34	4	-	84
1995	-	-	-	-	78	11	-	89
1997	-	-	-	195	0	-	-	195
1999	-	-	-	87	47	0	-	134
2001	-	-	-	129	32	-	-	161
2003	-	-	4	419	459	23	0	905
2005	-	-	-	41	167	2	0	210
2007	-	-	-	42	84	0	0	126
2009	-	-	6	148	77	0	0	231
2011 <sup>b/</sup>	-	-	4	520	929	67	0	1,520
<u>Westport</u>								
1977	0	303	1,424	11,649	909	10	0	14,295
1979	-	40	748	990	2,188	0	-	3,966
1981	-	31	177	771	717	-	-	1,696
1983	-	0	2	26	0	2	-	30
1985	-	-	0	695	907	4	-	1,606
1987	-	-	0	183	45	-	-	228
1989	-	0	0	28	45	-	-	73
1991	-	-	0	43	33	4	-	80
1993	-	-	-	33	35	2	-	70
1995	-	-	-	40	51	2	-	93
1997	-	-	-	520	96	22	-	638
1999	-	-	-	35	40	0	-	75
2001	-	-	-	782	136	-	-	918
2003	-	-	12	3,559	756	32	-	4,359
2005	-	-	0	26	128	0	-	154
2007	-	-	-	261	240	2	-	503
2009	-	-	51	79	131	0	-	261
2011 <sup>b/</sup>	-	-	4	544	1,270	13	-	1,832

TABLE A-19. Washington ocean recreational pink salmon landings in numbers of fish by port of landing and statistical month.  
(Page 2 of 2)

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
<b><u>Illwaco<sup>c/</sup></u></b>								
1977	0	33	171	689	602	4	0	1,499
1979	-	3	8	246	26	0	-	283
1981	-	2	4	101	260	-	-	367
1983	-	0	0	0	2	0	-	2
1985	-	-	0	6	203	-	-	209
1987	-	-	0	110	9	-	-	119
1989	-	0	0	11	12	-	-	23
1991	-	-	0	45	21	0	-	66
1993	-	-	-	7	11	0	-	18
1995	-	-	-	4	18	9	-	31
1997	-	-	-	0	0	-	-	0
1999	-	-	-	0	3	0	-	3
2001	-	-	-	5	31	4	-	40
2003	-	-	0	2	16	0	-	18
2005	-	-	-	3	0	0	-	3
2007	-	-	-	5	3	0	-	8
2009	-	-	0	0	0	0	-	0
2011 <sup>b/</sup>	-	-	0	2	1	0	-	3
<b><u>Total Statewide<sup>c/</sup></u></b>								
1977	0	336	1,650	14,605	12,553	111	0	29,255
1979	17	45	1,080	3,870	12,151	646	24	17,833
1981	-	51	188	2,659	7,278	-	27	10,203
1983	-	0	2	442	3,860	157	-	4,461
1985	-	-	0	853	2,214	13	-	3,080
1987	-	-	6	991	804	-	-	1,801
1989 <sup>a/</sup>	-	0	0	1,482	352	202	-	2,036
1991 <sup>a/</sup>	-	-	0	613	1,597	4	-	2,214
1993 <sup>a/</sup>	-	0	-	695	1,344	377	-	2,416
1995	-	-	-	44	2,725	52	-	2,821
1997 <sup>a/</sup>	-	-	-	794	594	22	-	1,410
1999	-	-	-	852	1,255	81	-	2,188
2001	-	-	-	2,631	1,280	7	-	3,918
2003	-	-	22	6,843	6,367	175	0	13,407
2005	-	-	0	1,526	1,670	64	0	3,260
2007	-	-	-	1,575	3,093	2	0	4,670
2009	-	-	65	2,818	4,474	270	0	7,627
2011 <sup>b/</sup>	-	-	41	4,386	6,161	240	0	10,828

a/ Includes catch from the Washington State waters Area 4B fishery.

b/ Preliminary.

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

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

Year or Avg.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
<u>Cape Falcon to Humbug Mt.<sup>a/</sup></u>											
1978-1980	-	-	650	2,964	12,169	11,602	1,692	598	10	-	29,684
1981-1985	-	-	1,413	1,011	10,193	5,360	941	448	10	-	19,377
1986-1990	-	-	3,745	4,494	14,033	8,093	3,214	2,162	257	-	35,843
1991-1995	-	-	1,234	2,027	2,444	2,054	1,335	1,321	88	-	8,674
1996-2000	-	-	1,282	1,573	960	1,532	973	636	114	-	6,815
2001	-	937	2,011	1,980	1,358	2,051	1,214	748	135	1	10,435
2002	367	840	1,712	1,965	682	1,293	1,607	2,204	158	15	10,843
2003	175	1,390	2,857	1,541	902	1,347	1,665	1,447	139	14	11,477
2004	906	2,506	2,137	1,819	825	1,833	1,359	704	229	21	12,339
2005	1,298	369	2,832	2,663	-	-	2,519	960	142	75	10,858
2006	-	-	-	1,034	487	186	631	722	278	26	3,364
2007	-	338	1,198	791	264	1,143	304	244	161	1	4,444
2008	-	-	-	-	-	-	37	12	48	-	97
2009	-	-	-	-	-	-	631	60	-	-	691
2010	-	-	1,018	985	564	715	37	157	-	-	3,476
2011 <sup>b/</sup>	-	317	884	1,070	100	203	102	235	230	-	3,141
<u>Humbug Mt. to Horse Mt. (KMZ)<sup>a/c/</sup></u>											
1978-1980	-	320	7,953	8,898	12,009	9,367	3,437	955	568	-	43,400
1981-1985	-	-	2,979	1,817	5,010	5,260	1,273	732	336	-	17,408
1986-1990	-	-	326	1,889	756	1,406	551	160	217	-	3,825
1991-1995	-	-	45	-	48	56	522	157	-	-	396
1996-2000	-	-	55	-	-	107	208	150	-	-	533
2001	-	-	18	41	-	150	411	166	-	-	786
2002	3	15	22	73	82	188	548	102	-	-	1,033
2003	0	21	49	74	109	106	185	113	2	-	659
2004	2	31	73	141	138	220	358	61	18	-	1,042
2005	6	1	-	-	-	-	438	110	18	-	573
2006	-	-	-	-	-	-	6	150	27	-	183
2007	-	6	8	137	99	95	417	47	12	-	821
2008	-	-	-	-	-	-	-	51	-	-	51
2009	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	43	-	26	40	-	72	-	-	181
2011 <sup>b/</sup>	-	-	60	60	162	134	-	74	-	-	490

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

Year or Avg.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
<b>Horse Mt. to U.S./Mexico Border</b>											
1978-1980	-	1,399	13,359	14,229	21,707	8,985	5,102	-	-	-	59,571
1981-1985	-	2,037	10,225	7,881	15,092	8,601	4,766	-	-	-	47,380
1986-1990	-	-	14,517	15,253	14,467	9,262	2,839	-	-	-	56,337
1991-1995	-	-	7,860	5,620	5,160	4,320	2,620	-	-	-	25,580
1996-2000	-	-	4,642	4,173	4,570	2,323	2,230	-	-	-	18,082
2001	-	-	4,894	1,448	3,042	1,419	2,222	501	-	-	13,526
2002	-	-	4,246	3,247	4,664	2,816	1,686	139	-	-	16,798
2003	-	-	3,074	2,727	3,697	3,745	2,431	136	-	-	15,810
2004	-	-	5,146	4,034	6,297	3,470	1,972	290	-	-	21,209
2005	-	-	3,881	377	5,001	3,365	3,669	401	-	-	16,694
2006	-	-	2,062	103	650	2,593	2,477	374	-	-	8,259
2007	-	106	3,132	29	3,288	2,659	932	168	-	-	10,314
2008	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	-	1,105	870	-	-	-	-	1,975
2011 <sup>b/</sup>	-	-	1,867	497	1,703	1,863	621	120	-	-	6,671
<b>Total South of Cape Falcon</b>											
1978-1980	-	1,718	21,962	21,347	45,885	29,955	10,230	1,553	578	-	132,655
1981-1985	-	2,037	14,617	10,709	30,296	19,221	6,981	1,180	346	-	84,165
1986-1990	-	-	18,589	21,258	28,802	18,198	6,604	2,322	292	-	96,006
1991-1995	-	-	9,112	7,242	6,636	5,974	4,059	1,416	88	-	34,492
1996-2000	-	-	5,979	5,752	4,953	3,962	3,411	786	116	-	25,430
2001	-	937	6,923	3,469	4,400	3,620	3,847	1,415	135	1	24,747
2002	370	855	5,980	5,285	5,428	4,297	3,841	2,445	158	15	28,674
2003	175	1,411	5,980	4,342	4,708	5,198	4,281	1,696	141	14	27,946
2004	908	2,537	7,356	5,994	7,260	5,523	3,689	1,055	247	21	34,590
2005	1,304	370	6,713	3,040	5,001	3,365	6,626	1,471	160	75	28,125
2006	-	-	2,062	1,137	1,137	2,779	3,114	1,246	305	26	11,806
2007	-	450	4,338	957	3,651	3,897	1,653	459	173	1	15,579
2008	-	-	-	-	-	-	37	63	48	-	-
2009	-	-	-	-	-	-	631	60	-	-	-
2010	-	-	1,061	985	1,695	1,625	37	229	-	-	5,632
2011 <sup>b/</sup>	-	317	2,811	1,627	1,965	2,200	723	429	230	-	10,302

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

b/ Preliminary.

c/ The current KMZ boundaries are Humbug Mt. to Horse Mt. These have changed slightly since the early 1980s.



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

Year or Avg.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
<b>CHINOOK</b>												<b>COHO</b>							
<u>Horse Mt. to U.S./Mexico Border</u>																			
1976-1980	-	34,194	108,017	87,178	128,494	48,348	26,139	-	-	-	432,370	13	13,988	42,514	19,864	4,307	540	0	67,225
1981-1985	-	31,016	95,110	63,197	128,909	57,751	17,536	-	-	-	393,519	37	503	5,765	14,913	2,219	276	0	23,173
1986-1990	-	-	239,714	226,495	193,068	71,735	17,365	-	-	-	748,377	-	-	15,505	17,802	3,427	163	0	36,897
1991-1995	-	-	121,373	73,940	80,950	42,707	22,018	-	-	-	340,988	-	-	25,850	12,250	2,825	-	-	40,925
1996-2000	-	-	121,717	101,679	88,632	24,057	25,378	-	-	-	361,464	-	-	-	-	-	-	-	0
2001	-	-	73,044	11,497	63,084	14,172	22,111	3,655	-	-	187,563	-	-	-	-	-	-	-	-
2002	-	-	86,120	93,214	128,032	56,896	13,456	470	-	-	378,188	-	-	-	-	-	-	-	-
2003	-	-	73,234	104,201	123,712	111,086	73,735	1,882	-	-	487,850	-	-	-	-	-	-	-	-
2004	-	-	97,596	154,175	157,237	44,525	15,451	1,211	-	-	470,195	-	-	-	-	-	-	-	-
2005	-	-	76,855	5,001	139,928	35,046	74,673	2,305	-	-	333,808	-	-	-	-	-	-	-	-
2006	-	-	9,911	391	16,783	18,589	22,982	1,072	-	-	69,728	-	-	-	-	-	-	-	-
2007	-	748	36,598	156	41,808	23,212	2,505	352	-	-	105,379	-	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	-	8,906	6,182	-	-	-	-	15,088	-	-	-	-	-	-	-	-
2011 <sup>b/</sup>	-	-	11,698	4,157	30,034	19,391	1,788	320	-	-	67,388	-	-	-	-	-	-	-	-
<u>Total South of Cape Falcon</u>																			
1976-1980	-	42,728	209,087	135,541	241,157	142,938	57,106	13,463	2,458	-	844,479	26,024	54,897	267,931	424,414	151,469	12,087	1,141	857,041
1981-1985	-	31,016	139,724	83,407	199,475	125,855	34,284	6,299	1,149	-	621,208	37	4,029	12,948	248,929	70,738	2,240	0	334,855
1986-1990	-	-	286,235	316,652	336,505	167,846	55,719	21,881	1,642	-	1,186,481	-	-	27,490	313,756	80,277	4,883	0	426,405
1991-1995	-	-	133,977	88,353	93,260	71,953	39,747	14,748	453	-	442,491	-	-	71,475	118,161	10,265	3	12	199,916
1996-2000	-	-	144,468	130,783	94,184	63,810	46,379	8,035	1,002	-	488,661	-	-	8	-	-	-	-	8
2001	-	18,536	133,829	54,785	100,623	76,169	59,155	19,495	1,345	21	463,958	-	-	-	-	-	-	-	-
2002	6,667	10,689	109,690	154,047	141,810	88,596	85,592	84,636	1,255	65	683,047	-	-	-	-	-	-	-	-
2003	3,192	60,663	147,415	136,626	144,373	149,515	126,544	41,724	999	137	811,188	-	-	-	-	-	-	-	-
2004	21,049	34,739	135,640	179,905	178,855	142,874	46,513	9,753	2,191	182	751,701	-	-	-	-	-	-	-	-
2005	28,384	4,788	132,596	54,896	139,928	35,046	165,040	20,116	943	335	582,072	-	-	-	-	-	-	-	-
2006	-	-	9,911	10,049	20,399	19,551	27,361	5,111	1,691	131	94,204	-	-	-	-	-	-	-	-
2007	-	2,619	43,951	5,346	44,717	37,096	12,380	1,356	717	3	148,185	-	-	-	-	5,023	519	-	5,542
2008	-	-	-	-	-	-	64	248	208	-	520	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	105	332	-	-	437	-	-	-	-	-	9,280	-	9,280
2010	-	-	9,183	8,966	13,233	10,104	56	1,859	-	-	43,401	-	-	-	-	-	-	-	-
2011 <sup>b/</sup>	-	4,481	20,157	14,755	32,345	21,512	2,077	1,600	1,954	-	98,881	-	-	-	-	-	-	-	-

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

b/ Preliminary.

c/ The current KMZ boundaries are Humbug Mt. to Horse Mt. These have changed slightly since the early 1980s.

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

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<u>Cape Falcon to Humbug Mt.<sup>a/</sup></u>											
1978-1980	-	-	0	9,025	44,358	97,228	83,028	17,580	2,250	151	252,629
1981-1985	-	-	-	5,279	21,790	78,019	61,312	10,677	1,603	--	151,116
1986-1990	-	-	-	2,054	18,538	82,564	51,012	11,171	--	--	164,930
1991-1995	-	-	-	1,817	11,249	63,162	22,523	5,191	4,948	396	64,187
1996-2000	-	-	-	708	596	9,570	4,388	3,527	2,933	170	21,804
2001	-	-	0	1,349	17,548	35,973	9,449	4,384	2,254	162	71,119
2002	-	-	275	1,295	6,181	36,658	14,194	9,322	7,893	50	75,868
2003	-	81	139	1,695	10,884	54,115	31,069	8,437	3,635	395	110,450
2004	-	78	238	1,490	14,867	49,370	28,773	10,599	3,094	291	108,800
2005	-	30	406	1,470	12,598	13,820	9,797	11,248	778	12	50,159
2006	-	24	92	800	4,918	18,334	3,817	9,996	5,368	98	43,447
2007	-	36	75	1,244	7,828	22,067	25,908	5,227	2,341	40	64,766
2008	-	-	-	-	3,253	7,681	5,052	3,635	2,348	--	21,969
2009	-	-	-	-	4,144	33,012	23,429	3,743	2,009	--	66,337
2010	-	-	-	863	2,960	9,116	16,794	6,334	1,048	--	37,115
2011 <sup>b/</sup>	0	22	75	433	2,965	10,835	10,173	9,354	1,240	16	35,113
<u>Humbug Mt. to Horse Mt. (KMZ)<sup>a/c/</sup></u>											
1978-1980	0	0	4	1,607	20,812	50,059	30,892	8,329	5,617	913	118,233
1981-1985	0	0	1	3,481	14,938	49,198	26,922	4,354	3,416	138	102,448
1986-1990	0	0	-	5,291	33,539	62,718	27,347	5,042	3,353	-	135,949
1991-1995	-	-	-	6,722	16,127	28,644	7,901	7,727	2,879	-	51,816
1996-2000	-	-	-	3,271	9,150	5,570	12,832	3,266	2,766	-	36,854
2001	-	-	-	6,542	11,561	11,274	15,394	1,683	4,340	-	50,794
2002	-	-	-	4,989	10,558	1,259	14,412	6,074	3,973	-	41,265
2003	-	-	-	3,669	5,103	7,346	8,750	3,026	2,630	-	30,524
2004	-	-	-	5,830	7,419	9,227	13,450	6,405	1,575	-	43,906
2005	-	-	-	1,799	9,099	1,932	8,781	5,898	2,398	-	29,907
2006	-	-	-	4,887	8,619	3,174	-	7,320	3,081	-	27,081
2007	-	-	-	2,346	6,223	7,541	10,178	2,004	3,263	-	31,555
2008	-	-	-	-	712	2,317	701	-	1,065	-	4,795
2009	-	-	-	-	268	2,329	3,269	5,424	-	-	11,290
2010	-	-	-	665	771	1,280	2,493	2,700	2,270	-	10,179
2011 <sup>b/</sup>	-	-	-	2,236	2,970	5,015	6,540	2,621	1,757	-	21,139



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

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>Horse Mt. to U.S./Mexico Border</b>											
1976-1980	9,865	12,468	9,230	9,929	12,998	22,054	19,400	13,245	7,968	4,078	119,603
1981-1985	5,107	7,945	8,771	8,898	14,341	22,038	16,941	9,593	5,648	1,426	100,709
1986-1990	8,272	17,094	24,034	13,831	23,693	36,170	22,631	10,893	5,029	1,563	163,209
1991-1995	675	15,641	23,079	22,180	30,007	51,595	26,483	11,093	5,939	302	186,873
1996-2000	32	14,341	25,245	21,784	31,874	42,867	25,997	9,463	4,144	610	176,094
2001	0	1,573	26,353	23,014	14,267	30,775	23,004	12,782	6,081	2,593	140,442
2002	194	3,760	40,477	27,539	30,025	45,831	30,791	7,688	1,823	381	188,509
2003	607	6,374	15,069	17,055	20,779	34,536	14,786	6,713	2,667	264	118,850
2004	183	999	32,865	28,873	29,067	57,641	27,768	9,908	4,303	1,539	193,146
2005	869	521	24,631	19,797	27,711	38,248	22,891	13,250	5,868	965	154,751
2006	289	298	19,198	17,128	25,376	31,705	9,684	4,102	1,827	448	110,055
2007	249	855	15,043	13,297	19,620	21,548	8,532	3,091	1,817	1,394	85,446
2008	206	185	-	-	-	-	-	-	-	-	391
2009	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	16,774	6,770	2,736	8,310	7,883	1,965	-	-	44,438
2011 <sup>b/</sup>	-	-	15,520	5,872	6,878	20,186	14,261	10,071	3,431	-	76,219
<b>Total South of Cape Falcon</b>											
1976-1980	9,865	12,468	9,233	20,561	78,167	169,341	133,321	39,154	14,935	3,420	490,465
1981-1985	5,107	7,945	8,772	14,491	42,353	149,255	92,912	22,489	9,385	1,564	354,272
1986-1990	8,272	17,094	24,034	20,765	75,770	181,452	100,990	27,107	7,041	1,563	464,088
1991-1995	675	15,641	23,079	29,374	54,157	106,679	41,813	20,897	10,221	425	302,876
1996-2000	32	14,341	25,258	25,763	41,620	58,007	43,217	16,256	9,843	723	234,753
2001	0	1,573	26,353	30,905	43,376	78,022	47,847	18,849	12,675	2,755	262,355
2002	194	3,760	40,752	33,823	46,764	83,748	59,397	23,084	13,689	431	305,642
2003	607	6,455	15,208	22,419	36,766	95,997	54,605	18,176	8,932	659	259,824
2004	183	1,077	33,103	36,193	51,353	116,238	69,991	26,912	8,972	1,830	345,852
2005	869	551	25,037	23,066	49,408	54,000	41,469	30,396	9,044	977	234,817
2006	289	322	19,290	22,815	38,913	53,213	13,501	21,418	10,276	546	180,583
2007	249	891	15,118	16,887	33,671	51,156	44,618	10,322	7,421	1,434	181,767
2008	206	185	-	-	3,965	9,998	5,753	3,635	3,413	--	27,155
2009	-	-	-	-	4,412	35,341	26,698	9,167	2,009	--	77,627
2010	-	-	16,774	8,298	6,467	18,706	27,170	10,999	3,318	--	91,732
2011 <sup>b/</sup>	0	22	15,595	8,541	12,813	36,036	30,974	22,046	6,428	16	132,471

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

b/ Preliminary.

c/ The current KMZ boundaries are Humbug Mt. to Horse Mt. These have changed slightly since the early 1980s.

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

Year or Avg.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
<b>CHINOOK</b>												<b>COHO</b>										
<u>Cape Falcon to Humbug Mt.<sup>a/</sup></u>																						
1978-1980	-	-	0	700	2,780	4,114	5,079	1,463	144	39	14,239	-	-	-	9,099	46,920	76,187	54,894	5,617	671	-	193,118
1981-1985	-	-	-	55	787	6,327	3,518	642	42	--	11,326	-	-	-	2,321	18,010	62,626	40,922	4,706	-	-	119,511
1986-1990	-	-	-	150	1,678	7,128	4,099	1,639	--	--	14,664	-	-	-	1,136	21,865	97,505	45,530	6,824	-	-	171,268
1991-1995	-	-	-	146	1,144	3,030	1,044	465	1,254	42	4,230	-	-	-	522	21,985	87,767	25,734	3,192	-	-	97,169
1996-2000	-	-	-	107	142	1,987	1,233	738	503	36	4,726	-	-	-	-	-	8,452	42	12	1	-	5,127
2001	-	-	0	217	2,038	7,816	4,721	1,965	594	23	17,374	-	-	-	21	17,671	37,093	205	76	22	-	55,088
2002	-	-	155	330	5,144	16,609	5,995	3,923	2,636	0	34,792	-	-	-	-	35	19,701	2,163	103	24	-	22,026
2003	-	2	22	268	2,936	15,116	9,235	3,960	1,273	64	32,876	-	-	-	2	7,578	50,861	25,318	64	14	-	83,837
2004	-	2	24	315	3,904	21,493	14,646	5,053	1,907	69	47,413	-	-	-	2	4,955	30,949	11,667	466	23	-	48,062
2005	-	6	104	201	3,696	4,228	4,564	5,524	280	0	18,603	-	-	-	-	2,064	1,422	37	107	-	-	3,630
2006	-	2	4	68	540	3,755	982	1,863	2,024	49	9,287	-	-	-	-	469	8,346	36	634	-	-	9,485
2007	-	3	0	72	255	804	1,076	597	474	16	3,297	-	-	-	2	4,734	19,223	16,417	311	-	-	40,687
2008	-	-	-	-	9	6	3	262	201	--	481	-	-	-	-	770	2,811	4,131	45	3	-	7,760
2009	-	-	-	-	9	36	47	92	226	--	410	-	-	-	-	4,859	38,001	25,325	799	6	-	68,990
2010	-	-	-	75	207	380	1,108	439	122	--	2,331	-	-	-	-	368	2,181	8,336	1,242	-	-	12,127
2011 <sup>b/</sup>	-	0	7	56	161	486	623	1,052	207	6	2,598	-	-	-	-	556	3,576	2,011	6,626	-	-	12,769
<u>Humbug Mt. to Horse Mt. (KMZ)<sup>a/c/</sup></u>																						
1978-1980	-	0	0	252	2,699	8,214	5,604	706	721	75	18,272	--	--	1	483	17,791	29,095	9,034	713	430	0	57,548
1981-1985	-	0	1	2,463	4,949	17,196	7,185	703	515	9	33,021	--	--	0	378	5,668	17,700	5,744	354	1	0	29,844
1986-1990	-	0	-	1,782	14,924	21,557	8,664	1,935	581	-	49,211	--	--	-	1,081	12,458	32,289	7,650	877	10	-	54,361
1991-1995	-	-	-	2,752	6,005	4,480	1,559	1,849	653	-	13,312	-	-	-	186	8,173	15,356	2,224	900	2	-	18,580
1996-2000	-	-	-	1,298	3,637	2,596	5,622	709	702	-	14,564	-	-	-	33	63	55	98	22	9	-	244
2001	-	-	-	2,690	5,225	3,859	5,554	1,848	856	-	20,032	-	-	-	11	118	55	58	-	13	-	255
2002	-	-	-	3,048	7,768	630	8,533	5,785	301	-	26,065	-	-	-	10	253	42	57	41	-	-	403
2003	-	-	-	3,385	2,156	2,638	3,130	2,339	552	-	14,200	-	-	-	29	59	25	63	12	-	-	188
2004	-	-	-	6,514	4,530	6,090	9,100	3,214	233	-	29,681	-	-	-	194	440	787	369	42	3	-	1,835
2005	-	-	-	1,206	10,218	2,317	5,249	3,857	404	-	23,251	-	-	-	24	137	3	40	57	-	-	261
2006	-	-	-	4,620	6,199	2,515	-	4,464	397	-	18,195	-	-	-	93	503	150	-	169	7	-	922
2007	-	-	-	841	5,290	5,001	8,064	2,215	535	-	21,946	-	-	-	-	245	745	917	60	3	-	1,970
2008	-	-	-	-	-	-	-	-	280	-	280	-	-	-	-	449	1,273	409	-	3	-	2,134
2009	-	-	-	-	-	9	325	533	-	-	867	-	-	-	-	6	1,123	59	17	-	-	1,205
2010	-	-	-	24	160	40	501	278	541	-	1,544	-	-	-	-	-	19	75	16	-	-	110
2011 <sup>b/</sup>	-	-	-	808	962	4,251	3,999	497	233	-	10,750	-	-	-	5	10	62	37	12	-	-	126

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

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												COHO										
<b>Horse Mt. to U.S./Mexico Border</b>																						
1976-1980	5,830	8,504	8,715	6,238	11,781	16,557	9,694	7,432	6,663	1,338	82,753	10	14	238	1,439	1,551	2,151	600	136	14	2	6,155
1981-1985	5,947	7,266	7,238	7,654	13,303	18,990	16,587	8,530	5,546	1,410	92,471	0	1	21	149	680	903	303	40	29	0	2,125
1986-1990	5,630	15,288	26,365	10,037	18,925	28,491	17,858	7,834	4,240	1,319	135,987	0	1	56	212	1,300	2,384	772	153	12	0	4,890
1991-1995	244	11,376	21,564	15,561	27,663	53,815	17,807	8,925	4,451	159	161,502	0	9	23	260	3,128	5,839	733	142	25	--	10,159
1996-2000	6	14,184	23,734	17,596	29,070	40,667	17,615	5,878	2,977	982	149,280	-	-	3	11	112	91	59	16	6	-	283
2001	--	1,256	18,059	11,892	8,153	23,121	12,154	7,030	3,071	1,223	85,959	-	-	4	420	211	462	46	-	-	-	1,143
2002	14	2,979	37,759	21,933	30,342	51,328	17,859	3,290	348	61	165,913	-	-	2	22	130	333	46	-	-	-	533
2003	444	3,978	9,569	12,209	19,043	29,442	6,501	3,688	1,048	0	85,922	-	-	-	70	197	189	11	9	-	-	476
2004	41	510	31,470	24,847	33,948	70,611	24,970	8,717	2,818	338	198,270	-	-	-	41	113	475	201	34	-	-	864
2005	285	111	14,255	14,272	31,351	34,094	16,015	11,020	3,955	355	125,713	-	-	-	35	242	243	28	-	-	-	548
2006	55	109	9,408	14,233	24,099	26,657	4,023	982	256	67	79,889	-	-	-	108	640	588	49	-	-	-	1,385
2007	48	200	3,152	6,405	8,613	8,080	1,154	390	441	325	28,808	-	-	-	53	104	149	25	14	-	-	345
2008	0	6	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	5,265	2,408	630	2,568	2,823	395	-	-	14,089	-	-	8	7	68	15	19	8	-	-	125
2011 <sup>b/</sup>	-	-	5,513	1,871	2,403	12,294	9,147	6,720	1,258	-	39,206	-	-	8	10	62	116	17	-	5	-	218
<b>Total South of Cape Falcon</b>																						
1976-1980	5,830	8,504	8,715	7,190	17,259	28,886	20,378	9,602	7,471	1,428	115,264	10	14	239	11,021	66,262	107,432	64,529	6,466	847	2	256,821
1981-1985	5,947	7,266	7,239	10,162	19,039	42,513	27,290	9,875	6,070	1,419	136,819	0	1	21	1,919	17,153	81,228	46,969	4,158	30	0	151,479
1986-1990	5,630	15,288	26,365	11,939	35,527	57,176	30,621	11,409	4,588	1,319	199,862	0	1	56	2,202	35,623	132,177	53,953	6,489	18	0	230,519
1991-1995	244	11,376	21,564	17,908	33,611	58,321	19,472	10,960	5,475	140	179,043	0	9	23	722	22,857	67,713	12,805	2,319	26	--	106,474
1996-2000	2	11,347	23,735	19,001	32,850	45,250	24,470	7,326	4,181	678	168,570	-	-	3	22	175	5,218	199	42	9	-	5,655
2001	0	1,256	18,059	14,799	15,416	34,796	22,429	10,843	4,521	1,246	123,365	-	-	4	452	18,000	37,610	309	76	35	-	56,486
2002	14	2,979	37,914	25,311	43,254	68,567	32,387	12,998	3,285	61	226,770	-	-	2	32	418	20,076	2,266	144	24	-	22,962
2003	444	3,980	9,591	15,862	24,135	47,196	18,866	9,987	2,873	64	132,998	-	-	-	101	7,834	51,075	25,392	85	14	-	84,501
2004	41	512	31,494	31,676	42,382	98,194	48,716	16,984	4,958	407	275,364	-	-	-	237	5,508	32,211	12,237	542	26	-	50,761
2005	285	117	14,359	15,679	45,265	40,639	25,828	20,401	4,639	355	167,567	-	-	-	59	2,443	1,668	105	164	-	-	4,439
2006	55	111	9,412	18,921	30,838	32,927	5,005	7,309	2,677	116	107,371	-	-	-	201	1,612	9,084	85	803	7	-	11,792
2007	48	203	3,152	7,318	14,158	13,885	10,294	3,202	1,450	341	54,051	-	-	-	55	5,083	20,117	17,359	385	3	-	43,002
2008	0	6	-	-	9	6	3	262	481	--	767	-	-	-	-	1,219	4,084	4,540	45	6	-	9,894
2009	-	-	-	-	9	45	372	625	226	--	1,277	-	-	-	-	4,865	39,124	25,384	816	6	-	70,195
2010	-	-	5,265	2,507	997	2,988	4,432	1,112	663	--	17,964	-	-	8	7	436	2,215	8,430	1,266	-	-	12,362
2011 <sup>b/</sup>	-	0	5,520	2,735	3,526	17,031	13,769	8,269	1,698	6	52,554	-	-	8	15	628	3,754	2,065	6,638	5	-	13,113

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

b/ Preliminary.

c/ The current KMZ boundaries are Humbug Mt. to Horse Mt. These have changed slightly since the early 1980s.

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

Year or Avg.	May	June	July	Aug.	Sept.	Oct.	Season
<b>U.S./Canada Border to Leadbetter Pt. - Non-Indian</b>							
1976-1980	3,482	2,262	11,876	12,038	4,519	-	34,176
1981-1985	2,700	309	5,650	2,388	14	-	9,858
1986-1990	2,255	830	438	750	15	-	3,847
1991-1995	1,578	1,054	775	635	304	-	3,224
1996-2000	221	124	158	129	5	-	419
2001	209	212	159	70	38	-	688
2002	428	183	420	242	-	-	1,273
2003	421	195	476	415	77	-	1,584
2004	460	10	392	342	125	-	1,329
2005	492	104	337	402	-	-	1,335
2006	359	381	99	296	169	-	1,304
2007	445	253	354	114	8	-	1,174
2008	246	353	223	213	60	-	1,095
2009	467	551	432	320	134	-	1,904
2010	511	858	501	428	46	-	2,344
2011 <sup>b/</sup>	606	656	448	208	54	-	1,972
<b>U.S./Canada Border to Leadbetter Pt. - Treaty Indian<sup>c/</sup></b>							
1976-1980	61	137	192	162	50	6	603
1981-1985	79	141	284	313	146	17	963
1986-1990	138	168	434	460	161	2	1,360
1991-1995	69	71	182	311	48	10	682
1996-2000	31	38	11	96	53	-	229
2001	53	65	122	172	104	-	516
2002	31	42	61	51	41	10	226
2003	24	27	63	57	45	15	216
2004	27	49	127	152	76	15	431
2005	98	146	126	150	77	0	597
2006	96	285	167	140	117	5	805
2007	22	205	189	167	7	0	590
2008	30	125	102	231	92	1	580
2009	83	238	233	270	5	4	829
2010 <sup>b/</sup>	158	335	155	148	63	4	859
2011 <sup>b/</sup>	93	192	145	125	22	1	577
<b>U.S./Canada Border to Leadbetter Pt. - Total<sup>c/</sup></b>							
1976-1980	3,543	2,399	12,069	12,200	4,569	6	34,780
1981-1985	2,779	388	4,804	2,701	149	17	10,821
1986-1990	2,393	832	609	1,210	164	2	5,207
1991-1995	1,016	704	492	819	230	10	3,260
1996-2000	208	137	74	173	55	-	648
2001	262	277	281	242	142	-	1,204
2002	459	225	481	293	41	10	1,499
2003	445	222	539	472	122	15	1,800
2004	487	59	519	494	201	15	1,760
2005	590	250	463	552	77	0	1,932
2006	455	666	266	436	286	5	2,109
2007	467	458	543	281	15	0	1,764
2008	276	478	325	444	152	1	1,675
2009	550	789	665	590	139	4	2,733
2010 <sup>b/</sup>	669	1,193	656	576	109	4	3,203
2011 <sup>b/</sup>	699	848	593	333	76	1	2,549

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

Year or Avg.	May	June	July	Aug.	Sept.	Oct.	Season
<u>Leadbetter Pt. to Cape Falcon - Non-Indian</u>							
1976-1980	900	838	4,419	3,751	1,920	56	11,882
1981-1985	969	58	977	906	146	0	3,057
1986-1990	343	87	467	1,162	850	22	1,530
1991-1995	153	52	113	326	155	-	709
1996-2000	2	2	-	294	29	-	85
2001	29	27	97	126	39	-	318
2002	40	57	182	216	-	-	495
2003	113	24	152	175	63	-	527
2004	51	4	82	106	156	-	399
2005	230	51	55	283	-	-	619
2006	581	353	3	79	99	-	1,115
2007	99	73	50	179	24	-	425
2008	313	362	36	65	13	-	789
2009	79	98	252	173	13	-	615
2010	92	310	164	137	23	-	726
2011 <sup>b/</sup>	127	162	46	27	18	-	380
<u>U.S./Canada Border to Cape Falcon - Non-Indian Total</u>							
1976-1980	4,382	3,100	16,295	15,788	6,438	56	46,058
1981-1985	3,669	305	5,497	3,294	149	0	12,915
1986-1990	2,598	895	671	1,447	858	22	5,377
1991-1995	1,731	1,106	888	879	407	-	3,756
1996-2000	223	126	158	227	19	-	487
2001	238	239	256	196	77	-	1,006
2002	468	240	602	458	-	-	1,768
2003	534	219	628	590	140	-	2,111
2004	511	14	474	448	281	-	1,728
2005	722	155	392	685	-	-	1,954
2006	940	734	102	375	268	-	2,419
2007	544	326	404	293	32	-	1,599
2008	559	715	259	278	73	-	1,884
2009	546	649	684	493	147	-	2,519
2010	603	1,168	665	565	69	-	3,070
2011 <sup>b/</sup>	733	818	494	235	72	-	2,352
<u>U.S./Canada Border to Cape Falcon - Treaty Indian Total<sup>c/</sup></u>							
1976-1980	61	137	192	162	50	6	603
1981-1985	79	141	284	313	146	17	963
1986-1990	138	168	434	460	161	2	1,360
1991-1995	69	71	182	311	48	10	682
1996-2000	31	38	11	96	53	-	229
2001	53	65	122	172	104	-	516
2002	31	42	61	51	41	10	226
2003	24	27	63	57	45	15	216
2004	27	49	127	152	76	15	431
2005	98	146	126	150	77	0	597
2006	96	285	167	140	117	5	805
2007	22	205	189	167	7	0	590
2008	30	125	102	231	92	1	580
2009	83	238	233	270	5	4	829
2010 <sup>b/</sup>	158	335	155	148	63	4	859
2011 <sup>b/</sup>	93	192	145	125	22	1	577

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

Year or Avg.	May	June	July	Aug.	Sept.	Oct.	Season
<b>U.S./Canada Border to Cape Falcon - Total Treaty Indian and Non-Indian<sup>c/</sup></b>							
1976-1980	4,598	1,584	14,872	14,595	3,982	38	39,663
1981-1985	3,186	443	3,575	1,919	273	16	9,396
1986-1990	2,569	1,036	678	1,862	635	16	6,784
1991-1995	720	519	515	556	178	0	2,489
1996-2000	265	193	105	239	79	-	881
2001	291	304	378	368	181	-	1,522
2002	499	282	663	509	41	10	1,994
2003	558	246	691	647	185	15	2,327
2004	538	63	601	600	357	15	2,159
2005	820	301	518	835	77	0	2,551
2006	1,036	1,019	269	515	385	5	3,224
2007	566	531	593	460	39	0	2,189
2008	589	840	361	509	165	1	2,464
2009	629	887	917	763	152	4	3,348
2010 <sup>b/</sup>	761	1,503	820	713	132	4	3,929
2011 <sup>b/</sup>	826	1,010	639	360	94	1	2,929

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/ Preliminary.

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

TABLE A-25. U.S./Canada border to Cape Falcon ocean troll Chinook and coho landings in number of fish by catch area and month.<sup>a/</sup> (Page 1 of 4)

Year or Avg.	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
<b>CHINOOK</b>							<b>COHO</b>							
<u>U.S./Canada Border to Leadbetter Pt. - Non-Indian</u>														
1976-1980	41,761	24,669	51,037	33,083	9,456	-	160,006	97	134,856	303,327	174,800	62,229	-	567,347
1981-1985	25,195	3,442	24,381	4,671	31	-	52,131	-	-	117,950	25,994	100	-	120,394
1986-1990	27,081	11,294	8,914	1,811	11	-	41,133	-	-	18,447	34,981	16	-	35,367
1991-1995	15,857	11,859	3,929	1,279	1,118	-	24,589	-	-	7,119	13,592	8,242	-	23,332
1996-2000	5,247	2,897	4,030	1,456	3	-	9,880	-	-	3,905	5,207	193	-	7,939
2001	7,092	7,188	4,940	846	219	-	20,285	-	-	1,969	2,070	2,615	-	6,654
2002	18,010	11,001	15,271	7,781	-	-	52,063	-	-	-	53	-	-	53
2003	17,920	8,808	14,372	12,056	1,126	-	54,282	-	-	3,279	3,755	633	-	7,667
2004	15,254	1,157	7,891	8,885	1,827	-	35,014	-	-	2,042	4,652	5,469	-	12,163
2005	18,294	2,204	6,009	7,073	-	-	33,580	-	-	166	638	-	-	804
2006	4,735	3,548	1,073	3,458	1,831	-	14,645	-	-	122	816	253	-	1,191
2007	5,693	3,868	3,459	721	27	-	13,768	-	-	1,944	1,043	34	-	3,021
2008	1,451	3,350	1,173	1,161	259	-	7,394	-	-	351	917	361	-	1,629
2009	5,545	4,095	1,615	680	120	-	12,055	-	-	4,857	9,281	3,663	-	17,801
2010	8,219	22,332	6,113	7,267	282	-	44,213	-	-	1,085	744	124	-	1,953
2011 <sup>b/</sup>	7,682	9,315	6,015	2,520	338	-	25,870	-	-	1,630	892	493	-	3,015
<u>U.S./Canada Border to Leadbetter Pt. - Treaty Indian<sup>c/</sup></u>														
1976-1980	787	2,037	1,776	415	70	11	5,086	720	7,677	2,915	1,275	443	11	13,030
1981-1985	2,150	1,883	3,636	1,336	1,018	198	10,023	283	7,435	16,406	24,484	16,666	54	65,274
1986-1990	6,877	5,955	6,726	4,506	1,248	12	25,312	3	4,256	32,310	35,942	11,051	7	83,563
1991-1995	4,343	4,181	3,511	4,243	571	29	16,849	1	1	17,220	26,038	5,275	103	48,535
1996-2000	2,580	6,524	446	3,806	1,893	-	15,249	0	0	15	11,063	8,533	-	19,611
2001	2,278	13,705	6,561	2,988	3,311	-	28,843	0	12	8,510	27,984	22,089	-	58,595
2002	5,364	11,206	12,079	8,074	3,123	30	39,846	1	1	3,449	4,929	9,042	80	17,422
2003	2,856	13,039	12,935	5,232	1,110	35	35,172	3	0	4,449	4,276	2,214	85	10,942
2004	9,947	16,977	10,765	6,960	5,086	25	49,735	3	3	16,133	36,684	9,274	100	62,097
2005	6,858	18,374	4,971	8,100	3,672	0	41,975	3	1	3,756	15,949	4,288	0	23,997
2006	2,821	8,341	7,736	6,690	4,957	15	30,545	16	102	10,475	10,634	10,711	5	31,938
2007	316	14,629	3,349	4,579	70	0	22,943	0	12	22,743	16,423	860	0	40,038
2008	358	8,864	2,099	6,007	3,579	1	20,907	0	18	865	3,561	9,820	0	14,264
2009	1,494	5,828	2,329	2,566	37	25	12,254	0	0	25,422	35,141	100	15	60,663
2010 <sup>b/</sup>	1,931	12,150	6,943	9,691	1,631	10	32,346	2	63	2,015	5,058	4,285	15	11,423
2011 <sup>b/</sup>	1,120	8,808	14,706	6,633	418	1	31,685	0	0	2,091	4,801	6,721	0	13,613

TABLE A-25. U.S./Canada border to Cape Falcon ocean troll Chinook and coho landings in number of fish by catch area and month.<sup>a/</sup> (Page 2 of 4)

Year or Avg.	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
<b>CHINOOK</b>								<b>COHO</b>						
<b>U.S./Canada Border to Leadbetter Pt. - Total<sup>d/</sup></b>														
1976-1980	42,548	26,706	52,813	33,498	9,526	11	165,092	740	34,648	306,242	176,074	62,673	11	580,376
1981-1985	27,345	4,637	23,141	6,007	1,024	198	62,154	283	7,435	110,766	50,478	16,706	54	185,667
1986-1990	33,958	14,990	10,291	5,955	1,250	12	66,445	3	4,256	39,689	63,927	11,054	7	118,930
1991-1995	13,857	11,297	5,082	5,266	1,018	29	36,520	1	1	20,068	36,911	10,220	103	67,200
1996-2000	6,778	8,842	1,252	4,389	1,893	-	23,153	0	0	1,577	14,187	8,610	-	24,375
2001	9,370	20,893	11,501	3,834	3,530	-	49,128	0	12	10,479	30,054	24,704	-	65,249
2002	23,374	22,207	27,350	15,855	3,123	30	91,909	1	1	3,449	4,982	9,042	80	17,475
2003	20,776	21,847	27,307	17,288	2,236	35	89,454	3	0	7,728	8,031	2,847	85	18,609
2004	25,201	18,134	18,656	15,845	6,913	25	84,749	3	3	18,175	41,336	14,743	100	74,260
2005	25,152	20,578	10,980	15,173	3,672	0	75,555	3	1	3,922	16,587	4,288	0	24,801
2006	7,556	11,889	8,809	10,148	6,788	15	45,190	16	102	10,597	11,450	10,964	5	33,129
2007	6,009	18,497	6,808	5,300	97	0	36,711	0	12	24,687	17,466	894	0	43,059
2008	1,809	12,214	3,272	7,168	3,838	1	28,301	0	18	1,216	4,478	10,181	0	15,893
2009	7,039	9,923	3,944	3,246	157	25	24,309	0	0	30,279	44,422	3,763	15	78,464
2010 <sup>b/</sup>	10,150	34,482	13,056	16,958	1,913	10	76,559	2	63	3,100	5,802	4,409	15	13,376
2011 <sup>b/</sup>	8,802	18,123	20,721	9,153	756	1	57,555	0	0	3,721	5,693	7,214	0	16,628
<b>Leadbetter Pt. to Cape Falcon - Non-Indian</b>														
1976-1980	13,048	10,310	7,546	5,975	4,004	577	41,459	6	37,584	95,592	40,793	21,260	1,875	189,215
1981-1985	11,202	758	1,884	775	107	2	14,728	-	-	48,629	26,289	15,916	-	53,392
1986-1990	4,789	1,264	3,549	2,691	1,702	71	8,566	-	-	18,234	41,121	19,306	304	45,128
1991-1995	1,465	357	134	344	103	-	2,323	-	-	911	12,674	3,937	-	15,906
1996-2000	9	64	-	2,464	89	-	710	-	-	-	7,021	1,043	-	7,542
2001	898	1,713	1,036	901	487	-	5,035	-	-	4,052	3,970	2,769	-	10,791
2002	1,226	3,237	5,096	4,994	-	-	14,553	-	-	-	1,642	-	-	1,642
2003	5,717	1,281	1,796	2,760	750	-	12,304	-	-	1,890	4,169	1,672	-	7,731
2004	1,940	94	453	430	559	-	3,476	-	-	906	1,708	7,355	-	9,969
2005	5,373	1,235	629	4,334	-	-	11,571	-	-	358	2,898	-	-	3,256
2006	8,913	3,532	1	62	105	-	12,613	-	-	17	1,211	260	-	1,488
2007	950	600	158	213	22	-	1,943	-	22	1,378	12,735	283	-	14,418
2008	2,977	3,355	136	185	23	-	6,676	-	-	53	422	37	-	512
2009	265	281	260	163	4	-	973	-	-	9,652	5,125	165	-	14,942
2010	790	6,882	2,289	1,894	151	-	12,006	-	-	735	405	49	-	1,189
2011 <sup>b/</sup>	1,529	1,943	115	251	30	-	3,868	-	-	235	172	95	-	502



TABLE A-25. U.S./Canada border to Cape Falcon ocean troll Chinook and coho landings in number of fish by catch area and month.<sup>a/</sup> (Page 3 of 4)

Year or Avg.	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
<b>CHINOOK</b>							<b>COHO</b>							
<u>U.S./Canada Border to Cape Falcon - Non-Indian</u>														
1976-1980	54,809	34,978	58,583	39,058	13,460	577	201,465	36	71,298	398,919	215,593	83,490	1,875	756,562
1981-1985	36,397	3,511	21,389	5,446	113	2	66,859	-	-	154,422	47,025	5,372	-	173,785
1986-1990	31,870	12,242	10,688	3,829	1,708	71	49,699	-	-	27,564	65,822	19,314	304	71,470
1991-1995	17,321	12,216	4,063	1,537	1,220	-	26,331	-	-	8,030	23,097	10,866	-	35,261
1996-2000	5,255	2,961	4,030	2,688	92	-	10,590	-	-	3,905	9,887	715	-	12,967
2001	7,990	8,901	5,976	1,747	706	-	25,320	-	-	6,021	6,040	5,384	-	17,445
2002	19,236	14,238	20,367	12,775	-	-	66,616	-	-	-	1,695	-	-	1,695
2003	23,637	10,089	16,168	14,816	1,876	-	66,586	-	-	5,169	7,924	2,305	-	15,398
2004	17,194	1,251	8,344	9,315	2,386	-	38,490	-	-	2,948	6,360	12,824	-	22,132
2005	23,667	3,439	6,638	11,407	-	-	45,151	-	-	524	3,536	-	-	4,060
2006	13,648	7,080	1,074	3,520	1,936	-	27,258	-	-	139	2,027	513	-	2,679
2007	6,643	4,468	3,617	934	49	-	15,711	-	22	3,322	13,778	317	-	17,439
2008	4,428	6,705	1,309	1,346	282	-	14,070	-	-	404	1,339	398	-	2,141
2009	5,810	4,376	1,875	843	124	-	13,028	-	-	14,509	14,406	3,828	-	32,743
2010	9,009	29,214	8,402	9,161	433	-	56,219	-	-	1,820	1,149	173	-	3,142
2011 <sup>b/</sup>	9,211	11,258	6,130	2,771	368	-	29,738	-	-	1,865	1,064	588	-	3,517
<u>U.S./Canada Border to Cape Falcon - Treaty Indian<sup>c/</sup></u>														
1976-1980	787	2,037	1,776	415	70	11	5,086	720	7,677	2,915	1,275	443	11	13,030
1981-1985	2,150	1,883	3,636	1,336	1,018	198	10,023	283	7,435	16,406	24,484	16,666	54	65,274
1986-1990	6,877	5,955	6,726	4,506	1,248	12	25,312	3	4,256	32,310	35,942	11,051	7	83,563
1991-1995	4,343	4,181	3,511	4,243	571	29	16,849	1	1	17,220	26,038	5,275	103	48,535
1996-2000	2,580	6,524	446	3,806	1,893	-	15,249	0	0	15	11,063	8,533	-	19,611
2001	2,278	13,705	6,561	2,988	3,311	-	28,843	0	12	8,510	27,984	22,089	-	58,595
2002	5,364	11,206	12,079	8,074	3,123	30	39,846	1	1	3,449	4,929	9,042	80	17,422
2003	2,856	13,039	12,935	5,232	1,110	35	35,172	3	0	4,449	4,276	2,214	85	10,942
2004	9,947	16,977	10,765	6,960	5,086	25	49,735	3	3	16,133	36,684	9,274	100	62,097
2005	6,858	18,374	4,971	8,100	3,672	0	41,975	3	1	3,756	15,949	4,288	0	23,997
2006	2,821	8,341	7,736	6,690	4,957	15	30,545	16	102	10,475	10,634	10,711	5	31,938
2007	316	14,629	3,349	4,579	70	0	22,943	0	12	22,743	16,423	860	0	40,038
2008	358	8,864	2,099	6,007	3,579	1	20,907	0	18	865	3,561	9,820	0	14,264
2009	1,494	5,828	2,329	2,566	37	25	12,254	0	0	25,422	35,141	100	15	60,663
2010 <sup>b/</sup>	1,931	12,150	6,943	9,691	1,631	10	32,346	2	63	2,015	5,058	4,285	15	11,423
2011 <sup>b/</sup>	1,120	8,808	14,706	6,633	418	1	31,685	0	0	2,091	4,801	6,721	0	13,613

TABLE A-25. U.S./Canada border to Cape Falcon ocean troll Chinook and coho landings in number of fish by catch area and month.<sup>a/</sup> (Page 4 of 4)

Year or Avg.	May	June	July	Aug.	Sept.	Oct.	Season	May	June	July	Aug.	Sept.	Oct.	Season
	<b>CHINOOK</b>							<b>COHO</b>						
<b>U.S./Canada Border to Cape Falcon - Total Treaty Indian and Non-Indian<sup>c/</sup></b>														
1976-1980	55,596	37,016	60,359	39,473	13,530	588	206,551	742	64,715	401,834	216,868	83,933	1,511	769,591
1981-1985	38,547	5,395	25,025	6,782	1,131	201	76,882	283	7,435	139,943	71,509	19,889	54	239,059
1986-1990	38,747	15,749	11,001	7,570	1,931	26	75,011	3	4,256	43,336	88,600	18,777	68	155,033
1991-1995	14,736	11,511	5,136	5,472	1,059	29	37,914	1	1	20,432	44,516	11,795	103	76,744
1996-2000	6,784	8,892	1,252	4,881	1,911	-	23,721	0	0	1,577	16,996	8,819	-	27,392
2001	10,268	22,606	12,537	4,735	4,017	-	54,163	0	12	14,531	34,024	27,473	-	76,040
2002	24,600	25,444	32,446	20,849	3,123	30	106,462	1	1	3,449	6,624	9,042	80	19,117
2003	26,493	23,128	29,103	20,048	2,986	35	101,758	3	0	9,618	12,200	4,519	85	26,340
2004	27,141	18,228	19,109	16,275	7,472	25	88,225	3	3	19,081	43,044	22,098	100	84,229
2005	30,525	21,813	11,609	19,507	3,672	0	87,126	3	1	4,280	19,485	4,288	0	28,057
2006	16,469	15,421	8,810	10,210	6,893	15	57,803	16	102	10,614	12,661	11,224	5	34,617
2007	6,959	19,097	6,966	5,513	119	0	38,654	0	34	26,065	30,201	1,177	0	57,477
2008	4,786	15,569	3,408	7,353	3,861	1	34,977	0	18	1,269	4,900	10,218	0	16,405
2009	7,304	10,204	4,204	3,409	161	25	25,282	0	0	39,931	49,547	3,928	15	93,406
2010 <sup>b/</sup>	10,940	41,364	15,345	18,852	2,064	10	88,565	2	63	3,835	6,207	4,458	15	14,565
2011 <sup>b/</sup>	10,331	20,066	20,836	9,404	786	1	61,423	0	0	3,956	5,865	7,309	0	17,130

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/ Preliminary.

c/ Season totals do not include January-April, October, or November-December treaty troll catches.

TABLE A-26. U.S./Canada border to Cape Falcon ocean troll pink salmon landings in numbers of fish by catch area and month (odd-year averages).<sup>a/</sup> (Page 1 of 2)

Year or Avg.	May	June	July	Aug.	Sept.	Oct.	Season
<u>U.S./Canada Border to Leadbetter Pt. - Non-Indian</u>							
1976-1980	565	444	94,872	308,655	4,747	-	409,282
1981-1985	230	33	50,591	86,991	415	-	138,123
1986-1990	115	182	2,642	36,286	-	-	19,670
1991-1995	10	9	88	25,340	390	-	25,772
1997	2	3	-	-	-	-	5
1999	0	1	31	21	0	-	53
2001	1	9	20	0	0	-	30
2003	0	0	142	63	10	-	215
2005	4	0	2	2	-	-	8
2007	8	19	119	1	0	-	147
2009	1	14	82	37	1	-	0
2011 <sup>b/</sup>	0	3	118	93	1	-	135
<u>U.S./Canada Border to Leadbetter Pt. - Treaty Indian<sup>c/</sup></u>							
1976-1980	49	1,550	1,053	3,019	21	0	5,691
1981-1985	32	214	2,208	7,806	320	0	10,580
1986-1990	5	10	8,991	4,254	591	0	13,851
1991-1995	0	1	499	5,519	261	0	6,280
1997	0	0	0	1,757	53	-	1,810
1999	0	0	0	1,388	108	-	1,496
2001	11	0	696	1,537	207	-	2,451
2003	0	0	172	41	23	0	236
2005	0	0	186	198	3	0	387
2007	0	7	326	251	0	0	584
2009	0	0	431	369	0	0	800
2011 <sup>b/</sup>	0	6	715	334	16	0	1,071
<u>U.S./Canada Border to Leadbetter Pt. - Total<sup>c/</sup></u>							
1976-1980	614	1,993	95,925	311,674	4,768	0	414,973
1981-1985	262	247	52,799	94,798	597	0	148,703
1986-1990	120	101	10,312	22,397	591	0	33,520
1991-1995	7	7	528	30,859	651	0	32,052
1997	2	3	0	1,757	53	-	1,815
1999	0	1	31	1,409	108	-	1,549
2001	12	9	716	1,537	207	-	2,481
2003	0	0	314	104	33	0	451
2005	4	0	188	200	3	0	395
2007	8	26	445	252	0	0	731
2009	1	14	513	406	1	0	800
2011 <sup>b/</sup>	0	9	833	427	17	0	1,206
<u>Leadbetter Pt. to Cape Falcon - Non-Indian</u>							
1976-1980	5	36	3,110	3,798	1,052	-	8,000
1981-1985	5	4	842	2,327	0	0	3,178
1986-1990	0	0	109	1	1	0	111
1991-1995	0	0	0	55	0	-	55
1997	0	0	0	0	0	-	0
1999	0	0	0	0	0	-	0
2001	195	50	50	51	0	-	346
2003	0	2	43	16	0	-	61
2005	0	0	1	1	1	-	3
2007	65	0	4	11	0	-	80
2009	0	0	2	8	8	-	18
2011 <sup>b/</sup>	0	36	5	8	0	-	49

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

Year or Avg.	May	June	July	Aug.	Sept.	Oct.	Season
<b><u>U.S./Canada Border to Cape Falcon - Non-Indian</u></b>							
1976-1980	570	479	97,982	312,453	5,799	-	417,282
1981-1985	235	37	51,434	89,318	277	-	141,301
1986-1990	115	91	1,430	18,144	1	-	19,781
1991-1995	7	6	29	25,395	390	-	25,827
1997	2	3	0	0	0	-	5
1999	0	1	31	21	0	-	53
2001	196	59	70	51	0	-	376
2003	0	2	185	79	10	-	276
2005	4	0	3	3	1	-	11
2007	73	19	123	12	0	-	227
2009	1	14	84	45	9	-	18
2011 <sup>b/</sup>	0	39	123	101	1	-	184
<b><u>U.S./Canada Border to Cape Falcon - Treaty Indian<sup>c/</sup></u></b>							
1976-1980	49	1,550	1,053	3,019	21	0	5,691
1981-1985	32	214	2,208	7,806	320	0	10,580
1986-1990	5	10	8,991	4,254	591	0	13,851
1991-1995	0	1	499	5,519	261	0	6,280
1991	0	2	1,148	3,356	0	0	4,506
1993	0	0	349	2,261	783	0	3,393
1995	0	0	0	10,940	0	0	10,940
1997	0	0	0	1,757	53	-	1,810
1999	0	0	0	1,388	108	-	1,496
2001	11	0	696	1,537	207	-	2,451
2003	0	0	172	41	23	0	236
2005	0	0	186	198	3	0	387
2007	0	7	326	251	0	0	584
2009	0	0	431	369	0	0	800
2011 <sup>b/</sup>	0	6	715	334	16	0	1,071
<b><u>U.S./Canada Border to Cape Falcon - Total<sup>c/</sup></u></b>							
1976-1980	619	2,029	99,035	315,472	5,820	0	422,973
1981-1985	267	251	53,641	97,124	597	0	151,881
1986-1990	120	101	10,421	22,398	592	0	33,631
1991-1995	7	7	528	30,914	651	0	32,107
1997	2	3	0	1,757	53	-	1,815
1999	0	1	31	1,409	108	-	1,549
2001	207	59	766	1,588	207	-	2,827
2003	0	2	357	120	33	0	512
2005	4	0	189	201	4	0	398
2007	73	26	449	263	0	0	811
2009	1	14	515	414	9	0	818
2011 <sup>b/</sup>	0	45	838	435	17	0	1,255

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/ Preliminary.

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

TABLE A-27. U.S./Canada border to Cape Falcon ocean recreational fishing effort in salmon angler trips by area and month.<sup>a/</sup>

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season <sup>b/</sup>
<u>U.S./Canada Border to Leadbetter Pt.<sup>c/</sup></u>								
1976-1980	3,118	13,778	42,809	87,445	95,907	33,240	3,554	279,228
1981-1985	80	3,331	16,943	44,629	38,938	5,555	196	109,593
1986-1990	-	1,190	4,199	45,977	23,931	4,377	40	78,144
1991-1995	-	1,258	4,959	31,219	25,149	9,425	714	67,841
1996-2000	-	-	-	10,921	14,366	2,674	-	25,776
2001	-	-	-	37,754	23,732	9,291	239	71,016
2002	-	2,496	13,613	21,404	19,160	1,719	113	58,505
2003	-	-	5,894	32,630	27,968	6,247	128	72,867
2004	-	-	2,013	31,942	26,905	8,013	20	68,893
2005	-	-	1,119	25,889	22,504	8,870	160	58,541
2006	-	-	1,119	16,486	20,679	3,551	258	42,093
2007	-	-	-	17,482	21,514	3,555	0	42,551
2008	-	-	4,007	11,392	9,171	2,564	38	27,171
2009	-	-	1,104	18,115	32,546	7,402	212	59,379
2010	-	-	9,451	18,380	19,546	6,282	154	53,813
2011 <sup>d/</sup>	-	-	5,537	17,334	21,178	4,787	16	48,852
<u>Leadbetter Pt. to Cape Falcon</u>								
1976-1980	609	5,560	29,391	59,424	87,656	27,001	2,407	211,327
1981-1985	-	1,165	10,828	35,085	31,281	4,835	721	79,973
1986-1990	-	444	2,751	28,624	27,098	2,493	-	59,008
1991-1995	-	-	2,408	23,781	18,461	9,495	-	52,941
1996-2000	-	-	-	7,231	9,950	3,983	-	18,125
2001	-	-	-	29,087	38,189	11,351	-	78,627
2002	-	370	1,662	12,993	24,510	9,172	6	48,713
2003	-	-	606	20,308	42,124	8,188	-	71,226
2004	-	-	853	16,101	35,006	10,444	-	62,404
2005	-	-	-	8,316	27,084	9,916	-	45,316
2006	-	-	-	7,451	21,249	2,712	-	31,412
2007	-	-	-	10,034	29,199	3,284	-	42,518
2008	-	66	1,275	6,381	6,371	-	-	14,093
2009	-	-	278	15,969	36,344	1,840	-	54,431
2010	-	-	863	9,376	24,345	2,811	-	37,395
2011 <sup>d/</sup>	-	-	1,133	6,760	19,772	4,463	-	32,127
<u>U.S./Canada Border to Cape Falcon<sup>b/</sup></u>								
1976-1980	3,574	19,337	72,200	146,869	183,563	60,241	5,480	490,555
1981-1985	80	4,263	25,606	79,714	70,218	9,423	436	189,565
1986-1990	-	1,412	6,950	74,600	51,029	5,374	40	137,152
1991-1995	-	1,258	4,888	55,000	43,610	18,921	714	120,782
1996-2000	-	-	-	18,152	24,315	5,064	-	43,901
2001	-	-	-	66,841	61,921	20,642	239	149,643
2002	-	2,866	15,275	34,397	43,670	10,891	119	107,218
2003	-	-	6,500	52,938	70,092	14,435	128	144,093
2004	-	-	2,866	48,043	61,911	18,457	20	131,297
2005	-	-	1,119	34,205	49,588	18,786	160	103,857
2006	-	-	1,119	23,937	41,928	6,263	258	73,505
2007	-	-	-	27,516	50,714	6,840	0	85,069
2008	-	66	5,282	17,773	15,542	2,564	38	41,264
2009	-	-	1,382	34,084	68,889	9,242	212	113,810
2010	-	-	10,314	27,757	43,892	9,092	154	91,209
2011 <sup>d/</sup>	-	-	6,670	24,094	40,950	9,249	16	80,979

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/ Includes minor effort from November in some years.

c/ Includes catch from the Washington State waters Area 4B fishery in 1991, 1992, 1993, 1996, 1997, 1998, 2000, and 2008.

d/ Preliminary.

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

Year or Avg.	April	May	June	July	Aug.	Sept.	Oct.	Season	April	May	June	July	Aug.	Sept.	Oct.	Season
	CHINOOK								COHO							
<u>U.S./Canada Border to Leadbetter Pt.<sup>b/</sup></u>																
1976-1980	2,202	6,285	22,116	21,405	18,586	6,528	1,103	77,123	304	13,182	48,841	109,426	98,977	32,774	2,097	305,540
1981-1985	57	1,982	13,193	18,822	8,162	505	26	42,631	80	1,157	12,324	37,404	42,235	6,211	161	96,516
1986-1990	-	790	1,653	13,191	5,373	1,161	-	20,741	-	19	2,439	58,151	35,746	6,320	45	102,190
1991-1995	-	148	1,911	4,305	3,020	1,549	215	9,479	-	40	6,781	37,985	33,461	9,902	324	83,144
1996-2000	-	-	-	2,246	1,846	467	-	4,016	-	-	-	10,579	14,909	2,343	-	25,715
2001	-	-	-	13,632	3,224	896	100	17,852	-	-	-	42,997	33,408	14,163	15	90,583
2002	-	2,554	15,225	21,984	9,884	99	43	49,789	-	5	271	10,327	17,191	1,331	4	29,129
2003	-	-	2,689	12,959	10,752	1,937	62	28,399	-	-	3,635	25,550	27,566	5,660	12	62,423
2004	-	-	527	9,057	6,977	2,124	6	18,685	-	-	1,581	22,685	27,588	10,042	3	61,899
2005	-	-	364	8,104	13,189	5,107	43	26,808	-	-	126	10,446	8,684	3,772	18	23,046
2006	-	-	202	3,274	4,522	813	91	8,902	-	-	416	6,514	8,287	1,466	2	16,686
2007	-	-	-	3,804	3,138	371	0	7,313	-	-	-	13,028	20,920	2,421	0	36,369
2008	-	-	2,537	5,428	3,352	414	6	11,737	-	-	30	3,332	5,115	1,752	1	10,230
2009	-	-	182	3,551	3,994	325	97	8,149	-	-	823	17,496	44,998	10,692	92	74,101
2010	-	-	4,893	11,814	12,753	1,960	45	31,465	-	-	46	5,817	6,275	5,297	37	17,473
2011 <sup>c/</sup>	-	-	2,509	7,462	13,071	559	5	23,607	-	-	331	6,989	8,694	2,931	2	18,947
<u>Leadbetter Pt. to Cape Falcon</u>																
1976-1980	191	2,352	12,353	11,569	23,764	3,751	246	54,102	493	6,524	53,314	89,865	86,917	31,024	2,463	269,812
1981-1985	-	221	4,286	6,972	6,406	672	40	17,395	-	7,109	14,759	52,828	37,648	7,241	825	109,663
1986-1990	-	140	360	2,747	4,469	120	-	7,580	-	-	4,463	48,084	38,613	2,767	-	91,374
1991-1995	-	-	126	928	1,038	257	-	2,286	-	-	3,938	36,431	24,351	9,127	-	57,502
1996-2000	-	-	-	553	783	167	-	1,326	-	-	-	10,932	12,055	3,643	-	22,986
2001	-	-	-	3,253	3,778	709	-	7,740	-	-	-	45,862	56,349	14,457	-	116,668
2002	-	86	2,274	4,920	3,398	105	3	10,786	-	-	30	14,568	32,527	12,283	-	59,408
2003	-	-	52	2,044	5,220	798	-	8,114	-	-	655	32,596	63,648	9,545	-	106,444
2004	-	-	47	1,068	5,465	1,825	-	8,405	-	-	1,303	23,786	40,641	7,805	-	73,535
2005	-	-	-	1,655	9,639	1,902	-	13,196	-	-	-	9,165	23,403	6,122	-	38,690
2006	-	-	-	559	1,518	198	-	2,274	-	-	-	8,149	15,782	881	-	24,812
2007	-	-	-	373	1,682	170	-	2,225	-	-	-	15,982	46,366	3,467	-	65,816
2008	-	17	626	1,509	1,563	-	-	3,715	-	-	431	4,445	5,955	-	-	10,831
2009	-	-	14	1,347	3,782	39	-	5,182	-	-	472	26,839	54,537	1,963	-	83,811
2010	-	-	143	1,873	4,909	295	-	7,221	-	-	13	7,909	16,129	863	-	24,913
2011 <sup>c/</sup>	-	-	481	955	5,375	408	-	7,219	-	-	467	6,085	16,806	3,319	-	26,676

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TABLE A-28. U.S./Canada border to Cape Falcon ocean recreational Chinook and coho salmon landings in numbers of fish by area and month.<sup>a/</sup> (Page 2 of 2)

Year or Avg.	April	May	June	July	Aug.	Sept.	Oct.	Season	April	May	June	July	Aug.	Sept.	Oct.	Season
	<b>CHINOOK</b>								<b>COHO</b>							
<b>U.S./Canada Border to Cape Falcon<sup>b/</sup></b>																
1976-1980	1,794	8,638	34,469	32,974	42,350	10,279	1,348	131,225	551	19,705	102,155	199,291	185,895	63,798	4,067	575,352
1981-1985	57	2,159	16,622	25,794	14,568	1,009	46	60,026	80	3,527	27,083	90,232	79,883	12,003	436	206,178
1986-1990	-	930	2,014	15,938	9,841	1,241	-	28,321	-	19	6,902	106,235	74,359	7,427	45	193,564
1991-1995	-	148	1,082	5,233	4,058	1,806	215	11,765	-	40	7,328	74,416	57,812	19,029	324	124,017
1996-2000	-	-	-	2,799	2,629	592	-	5,342	-	-	-	21,511	26,964	4,529	-	48,702
2001	-	-	-	16,885	7,002	1,605	100	25,592	-	-	-	88,859	89,757	28,620	15	207,251
2002	-	2,640	17,499	26,904	13,282	204	46	60,575	-	5	301	24,895	49,718	13,614	4	88,537
2003	-	-	2,741	15,003	15,972	2,735	62	36,513	-	-	4,290	58,146	91,214	15,205	12	168,867
2004	-	-	574	10,125	12,442	3,949	6	27,090	-	-	2,884	46,471	68,229	17,847	3	135,434
2005	-	-	364	9,759	22,828	7,009	43	40,004	-	-	126	19,611	32,087	9,894	18	61,736
2006	-	-	202	3,832	6,040	1,011	91	11,176	-	-	416	14,663	24,069	2,347	2	41,498
2007	-	-	-	4,178	4,819	541	0	9,538	-	-	-	29,010	67,286	5,888	0	102,185
2008	-	17	3,163	6,937	4,916	414	6	15,452	-	-	461	7,777	11,070	1,752	1	21,061
2009	-	-	196	4,898	7,776	364	97	13,331	-	-	1,295	44,335	99,534	12,655	92	157,912
2010	-	-	5,037	13,687	17,662	2,255	45	38,686	-	-	59	13,726	22,403	6,160	37	42,386
2011 <sup>c/</sup>	-	-	2,990	8,418	18,446	968	5	30,826	-	-	798	13,074	25,500	6,249	2	45,624

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/ Includes catch from the Washington State waters Area 4B fishery in 1991, 1992, 1993, 1996, 1997, 1998, 2000, and 2008.

c/ Preliminary.

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

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TABLE B-1. California Central Valley natural area fall Chinook salmon spawning escapement in numbers of fish.<sup>a/</sup>

Year or Average	Upper Sacramento River <sup>b/c/</sup>		Lower Sacramento River								Sacramento River Totals		San Joaquin River Totals		Central Valley	
	Adults	Jacks	Feather River		Yuba River		American River		Total		Adults	Jacks	Adults	Jacks	Adults	Jacks
1971-1975	58,462	18,289	40,221	9,745	10,877	1,615	41,726	3,695	92,824	15,055	151,286	33,345	13,820	1,411	165,105	34,756
1976-1980	67,012	17,905	33,954	3,544	7,387	1,563	28,509	1,344	69,850	6,452	136,862	24,356	2,886	763	139,747	25,120
1981-1985	57,913	22,432	36,252	5,243	12,825	5,146	32,332	4,954	81,409	15,343	139,322	37,775	34,930	10,721	174,252	48,496
1986-1990	87,396	17,244	38,709	6,426	9,261	2,444	24,420	3,323	72,390	12,193	159,787	29,437	10,853	4,377	170,640	33,815
1991-1995	60,151	11,496	32,578	4,355	8,309	2,131	28,549	4,151	69,436	10,637	129,587	22,134	2,626	904	132,212	23,038
1996	131,268	11,649	44,593	12,577	23,492	4,408	67,719	7,026	135,803	24,012	267,071	35,661	5,766	5,979	272,837	41,640
1997	167,353	13,736	47,009	3,538	19,202	6,746	46,036	6,159	112,246	16,444	279,599	30,180	17,983	1,146	297,583	31,325
1998	60,713	5,137	39,600 <sup>d/</sup>	3,400	26,737	4,353	41,094	13,698	107,431	21,451	168,144	26,588	13,119	6,292	181,263	32,880
1999	256,629	7,495	30,000 <sup>d/</sup>	7,500	18,778	5,452	48,311	8,688	97,089	21,640	353,718	29,135	10,708	7,185	364,426	36,320
2000	152,923	3,900	109,924	7,017	12,954	2,041	93,413	5,646	216,291	14,704	369,214	18,604	36,896	2,578	406,110	21,182
2001	179,198	11,853	169,588	9,114	21,567	1,825	167,062	13,553	358,217	24,492	537,415	36,345	23,899	3,705	561,314	40,050
2002	474,812 <sup>e/</sup>	11,259	93,766	11,397	18,406	4,796	95,711	10,635	207,883	26,828	682,695	38,087	21,852	3,788	704,547	41,875
2003	164,802	4,402	85,578	4,369	26,820	1,489	136,238	9,627	248,636	15,485	413,438	19,887	14,519	2,164	427,957	22,051
2004	70,548	7,220	48,580	5,591	9,260	5,208	75,090	13,774	132,930	24,573	203,478	31,793	7,250	3,310	210,728	35,103
2005	96,716	3,267	43,738	4,848	16,251	987	54,001	2,842	113,990	8,677	210,706	11,944	15,843	1,577	226,549	13,521
2006	89,933	2,874	75,545	1,869	7,891	230	21,755	1,145	105,191	3,244	195,124	6,118	5,622	669	200,746	6,787
2007	36,079	978	21,541	321	2,523	81	9,855	130	33,919	532	69,998	1,510	1,521	164	71,519	1,674
2008	36,274	2,074	5,703	236	3,084	424	1,791	154	10,578	814	46,852	2,888	2,010	316	48,862	3,204
2009	12,277	1,624	3,950	897	3,992	803	3,118	575	11,060	2,275	23,337	3,899	1,394	688	24,731	4,587
2010	25,682	6,872	40,981	3,933	12,074	1,023	5,831	1,742	58,886	6,698	84,568	13,570	4,003	934	88,571	14,504
2011 <sup>f/</sup>	20,466	15,096	39,532	12,891	5,389	3,539	13,484	7,919	58,405	24,349	78,871	39,445	3,876	3,099	82,747	42,544

a/ Most estimates based on carcass surveys with a jack length cut-off. In 2004, CDFG reviewed and updated 1971-2003 escapement estimates to reflect final project reports.

b/ Upper Sacramento mainstem estimates generally based on carcass surveys with a jack length cut-off, however jack estimates from Red Bluff Diversion Dam (RBDD) reports have occasionally been used. Early (pre-2001) mainstem Sacramento River adult and jack estimates based on RBDD passage.

c/ Upper Sacramento River escapement includes Sacramento River mainstem; Battle, Clear, Mill, Deer, Butte, Cottonwood, and Cow creeks; and other small tributaries when surveys were conducted. Specific escapement estimates by tributary can be found at [www.calfish.org](http://www.calfish.org).

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

e/ Change in estimation methodology due to extremely high Battle Creek escapement.

f/ Preliminary.

TABLE B-2. California Central Valley hatchery fall Chinook salmon escapement in numbers of fish.<sup>a/</sup>

Year or Average	Sacramento Hatcheries								San Joaquin Hatcheries						Central Valley Hatchery Totals	
	Coleman <sup>b/</sup>		Feather River <sup>b/</sup>		Nimbus <sup>c/</sup>		Totals		Mokelumne River		Merced River		Totals		Adults	Jacks
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults <sup>d/</sup>	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1971-1975	1,373	1,167	3,882	1,387	7,791	1,311	13,661	4,065	305	156	460	19	765	175	14,427	4,240
1976-1980	4,239	1,292	4,261	1,043	7,845	2,270	17,804	5,040	271	59	346	23	617	82	18,421	5,122
1981-1985	11,557	3,734	6,845	884	10,543	2,444	30,303	7,877	759	734	797	449	1,556	1,183	31,859	9,060
1986-1990	11,507	2,288	5,837	1,947	6,927	1,943	24,271	6,178	278	286	299	140	577	426	24,847	6,604
1991-1995	11,948	2,295	10,537	2,762	7,669	1,664	30,154	6,721	1,077	554	239	233	1,316	788	31,471	7,509
1996	18,848	2,330	6,494	1,613	9,219	2,273	34,561	6,216	1,828	2,055	395	746	2,223	2,801	36,784	9,017
1997	44,590	6,080	13,358	1,770	7,293	2,435	65,241	10,285	6,305	189	838	108	7,143	297	72,384	10,582
1998	42,400	1,951	17,567	1,322	17,797	3,979	77,763	7,253	2,686	585	347	452	3,033	1,037	80,796	8,290
1999	23,194	3,776	12,822	1,104	10,095	5,543	46,112	10,422	1,611	1,542	650	987	2,261	2,529	48,372	12,952
2000	20,793	866	16,470	1,676	11,060	1,893	48,323	4,435	4,637	887	1,615	331	6,252	1,218	54,575	5,653
2001	23,710	988	24,001	871	11,649	4,547	59,360	6,406	4,467	1,427	1,137	523	5,604	1,950	64,964	8,356
2002	61,895	4,029	17,516	2,991	7,762	8,146	87,173	15,166	5,800	2,119	1,250	588	7,050	2,707	94,223	17,873
2003	82,882	5,352	13,615	1,352	13,081	7,032	109,578	13,736	5,108	3,009	392	157	5,500	3,166	115,078	16,902
2004	52,145	17,027	15,769	5,535	15,493	21,390	83,407	43,952	5,477	4,879	456	594	5,933	5,473	89,340	49,425
2005	139,979	2,694	20,597	1,787	24,723	3,437	185,299	7,918	5,035	528	346	75	5,381	603	190,680	8,521
2006	56,819	1,013	13,400	634	9,687	681	79,906	2,328	2,801	1,338	130	20	2,931	1,358	82,837	3,686
2007	11,543	201	5,169	172	4,664	21	21,376	394	1,004	40	70	9	1,074	49	22,450	443
2008	10,181	458	5,031	323	3,300	453	18,512	1,234	116	123	39	37	155	160	18,667	1,394
2009	5,433	719	6,240	3,723	5,863	1,126	17,536	5,568	730	823	109	137	839	960	18,375	6,528
2010	8,666	8,572	17,215	2,757	13,821	2,389	39,702	13,718	3,543	1,733	115	31	3,658	1,764	43,360	15,482
2011 <sup>e/</sup>	19,312	23,068	15,925	16,691	7,634	8,963	42,871	48,722	2,402	13,503	99	338	2,501	13,841	45,372	62,563
GOALS <sup>f/</sup>	12,000	-	6,000	-	4,000	-	22,000	-	5,000	-	1,000	-	6,000	-	26,000	-

a/ In 2004, CDFG reviewed and updated 1971-2003 adult and jack spawner escapements based on final project reports.

b/ Chinook spawning during the fall; may include spring run fish.

c/ Nimbus Hatchery adult and jack counts include fish taken at Nimbus Weir, 1979-current.

d/ Total adults in Sacramento Hatcheries include Tehama-Colusa Fish Facility escapements, 1971-1985.

e/ Preliminary.

f/ Current hatchery-specific goals, not PFMC goals.

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

Year or Average	Upper Sacramento River										
	Late Fall <sup>a/b/c/</sup>		Winter <sup>d/</sup>				Spring				
	Adults	Jacks	RBDD <sup>a/c/</sup>		Carcass Survey		Tributary <sup>e/</sup> Adults and Jacks <sup>h/</sup>	Sacramento River <sup>a/f/</sup>		Feather River <sup>g/</sup>	
Adults			Jacks	Adults	Jacks	Adults		Jacks	Adults	Jacks	
1971-1975	18,193	1,087	22,863	9,063	--	--	5,194	5,098	1,718	366	-
1976-1980	9,662	1,798	13,499	2,640	--	--	1,201	8,335	2,571	375	-
1981-1985	8,102	1,746	5,027	921	--	--	1,061	9,798	4,241	1,446	133
1986-1990	10,047	1,761	1,369	390	--	--	1,658	8,795	1,930	2,884	406
1991-1995	3,844 <sup>i/</sup>	383 <sup>i/</sup>	586	78	--	--	2,813	410	165	3,441	465
1999-2000	16,061 <sup>i/</sup>	2,478 <sup>i/</sup>	940	1,032	--	--	7,768	242	160	4,393	503
2001	20,614	1,199	1,696	3,827	7,443	781	21,623 <sup>j/</sup>	981	0 <sup>h/</sup>	4,052	83
2002	39,818	765	7,614	1,555	7,047	417	20,198 <sup>j/</sup>	430	53	3,982	207
2003	8,122	613	6,172	3,585	7,675	543	21,798 <sup>j/</sup>	0	0	8,373	389
2004	12,458	1,574	2,588	4,604	5,786	2,083	12,556 <sup>j/</sup>	763	326	3,630	572
2005	14,047	2,141	3,521	1,778	14,683	1,156	21,319 <sup>j/</sup>	21	9	1,811 <sup>k/</sup>	24 <sup>k/</sup>
2006	14,709	351	4,792	2,623	16,764	385	10,669 <sup>j/</sup>	0	0	2,052 <sup>k/</sup>	9 <sup>k/</sup>
2007	11,954	714	3,004	3,140	2,402	131	8,951 <sup>j/</sup>	226	22	2,669 <sup>k/</sup>	5 <sup>k/</sup>
2008	9,946	381	1,504	2,131	2,521	204	11,943 <sup>j/</sup>	0	0	1,056 <sup>k/</sup>	10 <sup>k/</sup>
2009	9,515	460	m/	m/	4,363	53	3,517 <sup>j/</sup>	m/	m/	867 <sup>k/</sup>	122 <sup>k/</sup>
2010	8,894	1,001	m/	m/	1,555	41	2,951 <sup>j/</sup>	m/	m/	1,655 <sup>k/</sup>	6 <sup>k/</sup>
2011 <sup>l/</sup>	7,129	1,161	m/	m/	637	187	5,431 <sup>j/</sup>	m/	m/	1,831 <sup>k/</sup>	138 <sup>k/</sup>

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

b/ Since 1998, late-fall adult and jack estimates are based on carcass counts of natural spawners plus fish spawned at Coleman Hatchery.

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

d/ RBDD and carcass survey estimates represent alternative methods for determining winter run Chinook escapement.

e/ Natural spawning spring run which are isolated from fall run; primarily Mill Creek, Deer Creek, and Butte Creek escapement.

f/ Sacramento River spring run estimates are the total RBDD counts minus the spring run numbers in the upper Sacramento tributaries. If this number is less than or equal to zero, then upper Sacramento River spring run estimates are zero.

g/ Feather River spring run estimates are primarily fish returning to Feather River Hatchery. Spring run are not distinguished from fall run in the natural spawning surveys and are reported in the fall run natural escapement numbers.

h/ Jack proportion could not be determined.

i/ Primarily number of fish spawned at Coleman Hatchery 1991-1997. No data are available for natural spawners, as RBDD gates were raised during the time coinciding with the late-fall run.

j/ Methodology change from using snorkel survey to carcass survey for Butte Creek spring run estimates.

k/ Methodology change for distinguishing spring run Chinook at Feather River Hatchery was implemented in 2005. Fish arriving at the hatchery prior to the spring Chinook spawning period were tagged and returned to the river. The spring Chinook escapement estimate is the number of these tagged fish that subsequently returned to the hatchery during the spring Chinook spawning period.

l/ Preliminary.

m/ RBDD did not go into operation until June 15th, a month later than normal; thus RBDD winter and spring run estimates are unavailable.

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

Year or Average	Category	Total Inriver Run	Inriver Harvest			Nonlanded Fishery Mortality	Spawning Escapement								
			Indian	Sport	Total		Klamath River			Trinity River			Total		
							Hatchery	Natural	Total	Hatchery	Natural	Total	Hatchery	Natural	Total
1978-1980	Adults	63,306	14,621	2,777	17,398	1,329	3,886	21,277	25,163	3,823	15,593	19,416	7,709	36,871	44,579
	Jacks	23,731	1,379	3,385	4,764	189	544	8,224	8,768	1,515	8,495	10,010	2,059	16,719	18,778
1981-1985	Adults	63,230	17,128	5,096	22,224	1,593	8,812	16,313	25,125	2,934	11,354	14,288	11,746	27,667	39,413
	Jacks	29,811	1,287	6,447	7,734	243	1,162	6,227	7,389	4,888	9,556	14,444	6,050	15,783	21,833
1986-1990	Adults	151,203	36,669	15,145	51,814	3,498	13,194	21,543	34,737	11,912	49,242	61,154	25,106	70,785	95,891
	Jacks	20,227	446	4,924	5,370	139	1,009	3,460	4,469	2,285	7,964	10,248	3,294	11,423	14,718
1991-1995	Adults	80,666	10,574	3,094	13,668	983	12,980	26,594	39,574	5,104	21,339	26,442	18,084	47,932	66,016
	Jacks	12,038	291	2,741	3,032	81	1,140	3,216	4,356	1,134	3,435	4,569	2,274	6,651	8,925
1996-2000	Adults	123,856	24,565	6,817	31,382	2,275	24,549	32,279	56,828	11,421	21,950	33,371	35,970	54,229	90,199
	Jacks	10,332	170	1,805	1,976	52	1,413	2,628	4,042	872	3,391	4,262	2,285	6,019	8,304
2001	Adults	187,333	38,645	12,134	50,779	3,608	37,204	40,944	78,148	17,908	36,890	54,798	55,112	77,834	132,946
	Jacks	11,343	399	1,500	1,899	66	1,364	6,378	7,742	267	1,369	1,636	1,631	7,747	9,378
2002	Adults	160,788 <sup>a/</sup>	24,574	10,495	35,069	2,351	23,667	54,225	77,892	3,516	11,410	14,926	27,183	65,635	92,818
	Jacks	9,226	126	870	996	29	1,294	1,529	2,823	1,037	2,338	3,375	2,331	3,867	6,198
2003	Adults	191,949	30,034	9,680	39,714	2,810	31,970	55,423	87,393	29,812	32,219	62,031	61,782	87,642	149,424
	Jacks	3,845	44	814	858	21	290	848	1,138	574	1,254	1,828	864	2,102	2,966
2004	Adults	78,943	25,803	4,003	29,806	2,325	10,582	10,711	21,293	12,399	13,120	25,519	22,982	23,831	46,813
	Jacks	9,646	168	2,741	2,909	71	937	846	1,783	1,044	3,839	4,883	1,980	4,685	6,665
2005	Adults	65,227	8,016	1,985	10,001	738	13,955	13,554	27,509	13,744	13,235	26,979	27,699	26,789	54,488
	Jacks	2,296	70	1,030	1,100	27	42	398	440	59	670	729	101	1,068	1,169
2006	Adults	61,374	10,283	62	10,345	1,344	11,604	14,264	25,868	7,918	15,899	23,817	19,522	30,163	49,685
	Jacks	26,935	415	5,527	5,942	149	2,386	6,516	8,902	4,076	7,866	11,942	6,462	14,382	20,844
2007	Adults	132,131	27,573	6,312	33,885	2,526	16,969	21,292	38,261	18,081	39,378	57,459	35,050	60,670	95,720
	Jacks	1,684	21	369	390	10	180	232	412	33	839	872	213	1,071	1,284
2008	Adults	70,554	22,259	1,919	24,178	24,178	9,101	19,020	28,121	4,451	11,830	16,281	13,552	30,850	44,402
	Jacks	25,247	641	4,308	4,949	144	2,130	9,425	11,555	801	11,555	8,599	2,931	17,223	20,154
2009	Adults	100,644	28,387	5,651	34,038	2,583	12,263	27,743	40,006	7,351	16,666	24,017	19,614	44,409	64,023
	Jacks	11,914	178	2,214	2,392	60	1,229	1,948	3,177	143	6,142	6,285	1,372	8,090	9,462
2010 <sup>b/</sup>	Adults	90,860	29,887	3,035	32,922	2,661	10,278	15,170	25,448	7,774	22,055	29,829	18,052	37,225	55,277
	Jacks	16,640	428	1,831	2,259	74	1,069	1,811	2,880	1,432	9,995	11,427	2,501	11,806	14,307
2011 <sup>b/</sup>	Adults	103,005	26,371	4,164	30,535	2,379	8,490	18,013	26,503	13,846	29,742	43,588	22,336	47,755	70,091
	Jacks	85,840	1,304	9,996	11,300	317	9,549	24,791	34,340	1,875	38,008	39,883	11,424	62,799	74,223
GOAL	Adults														≥40,700 <sup>c/</sup>

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

b/ Preliminary.

c/ In December 2011, Amendment 16 to the Salmon Fishery Management Plan was approved, which replaced the 35,000 spawning escapement floor with an  $S_{MSY}$  management objective of 40,700 natural area adult spawners. The 35,000 spawner floor was in effect from 1989-2007 and in 2011. In 2008-2010, fisheries were managed for a natural area spawning escapement of 40,700 adults under requirements of a rebuilding plan.

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

Year	Area <sup>a/</sup>	Spring Run			Fall Run		
		Jack	Adult	Total	Jack	Adult	Total
2005	Commercial:Estuary	0	0	0	0	0	0
	Upper Klamath	0	0	0	0	0	0
	Subsistence:Estuary	0	477	477	21	2,293	2,314
	Middle Klamath	0	518	518	5	464	469
	Upper Klamath	0	1,320	1,320	33	2,851	2,884
	Trinity River	17	1,858	1,858	11	2,409	2,420
	<b>Total</b>	<b>33</b>	<b>7,286</b>	<b>7,302</b>	<b>70</b>	<b>8,017</b>	<b>8,087</b>
2006	Commercial:Estuary	0	0	0	0	0	0
	Upper Klamath	0	0	0	0	0	0
	Subsistence:Estuary	8	302	310	30	2,726	2,756
	Middle Klamath	3	1,113	1,116	93	1,310	1,403
	Upper Klamath	36	1,257	1,293	147	2,086	2,233
	Trinity River	58	1,632	1,690	145	4,161	4,306
	<b>Total</b>	<b>105</b>	<b>4,304</b>	<b>4,409</b>	<b>415</b>	<b>10,283</b>	<b>10,698</b>
2007	Commercial:Estuary	0	2,300	2,300	1	21,100	21,101
	Upper Klamath	0	0	0	0	0	0
	Subsistence:Estuary	0	1,363	1,363	15	2,375	2,390
	Middle Klamath	0	200	200	1	425	426
	Upper Klamath	0	631	631	4	1,375	1,379
	Trinity River	6	1,349	1,355	0	2,298	2,298
	<b>Total</b>	<b>6</b>	<b>5,843</b>	<b>5,849</b>	<b>21</b>	<b>27,573</b>	<b>27,594</b>
2008	Commercial:Estuary	0	323	323	201	11,804	12,005
	Middle Klamath	0	0	0	11	154	165
	Subsistence:Estuary	0	295	295	101	5,906	6,007
	Middle Klamath	0	722	722	62	870	932
	Upper Klamath	9	685	694	114	1,612	1,726
	Trinity River	77	1,328	1,405	152	1,914	2,066
	<b>Total</b>	<b>86</b>	<b>3,353</b>	<b>3,439</b>	<b>641</b>	<b>22,260</b>	<b>22,901</b>
2009	Commercial:Estuary	0	21	21	34	15,463	15,497
	Middle Klamath	0	0	0	2	243	245
	Subsistence:Estuary	0	763	763	9	4,002	4,011
	Middle Klamath	2	487	489	18	2,202	2,220
	Upper Klamath	0	451	451	19	2,324	2,343
	Trinity River	74	1,764	1,838	96	4,153	4,249
	<b>Total</b>	<b>76</b>	<b>3,486</b>	<b>3,562</b>	<b>178</b>	<b>28,387</b>	<b>28,565</b>
2010	Commercial:Estuary	0	259	259	14	15,234	15,248
	Middle Klamath	0	0	0	3	83	86
	Subsistence:Estuary	0	812	812	6	6,491	6,497
	Middle Klamath	0	1,421	1,421	62	1,763	1,825
	Upper Klamath	6	781	787	91	2,615	2,706
	Trinity River	4	1,740	1,744	252	3,701	3,953
	<b>Total</b>	<b>10</b>	<b>5,013</b>	<b>5,023</b>	<b>428</b>	<b>29,887</b>	<b>30,315</b>
2011 <sup>b/</sup>	Commercial:Estuary	0	33	33	372	14,931	15,303
	Middle Klamath	0	0	0	28	255	283
	Subsistence:Estuary	8	398	406	429	1,915	2,344
	Middle Klamath	12	1,234	1,246	243	1,942	2,185
	Upper Klamath	9	875	884	224	2,047	2,271
	Trinity River	108	2,282	2,390	323	4,966	5,289
	<b>Total</b>	<b>137</b>	<b>4,822</b>	<b>4,959</b>	<b>1,619</b>	<b>26,056</b>	<b>27,675</b>

a/ Klamath River tribal fishing areas are defined as follows: Estuary: mouth to Highway 101 bridge; Middle Klamath: Highway 101 bridge to Surpur Creek; Upper Klamath: Surpur Creek to Weitchpec.

b/ Preliminary.

TABLE B-6. Shasta, Scott, and Salmon rivers fall Chinook salmon spawning escapement estimates in numbers of fish.

Year	Shasta River <sup>a/</sup>		Scott River <sup>b/c/</sup>		Salmon River <sup>b/</sup>	
	Adults	Jacks	Adults	Jacks	Adults	Jacks
1931-1935 <sup>d/</sup>	37,474	12,690	-	-	-	-
1936-1940	26,165	8,223	-	-	-	-
1941-1945	9,654	3,129	-	-	-	-
1946-1950	1,862	178	-	-	-	-
1951-1955	1,577	370	-	-	-	-
1956-1960	6,146	1,074	-	-	-	-
1961-1965	15,167	4,388	-	-	-	-
1966-1970	10,472	1,410	-	-	-	-
1971-1975	6,297	2,866	-	-	-	-
1976-1980 <sup>e/</sup>	6,506	3,194	2,950	1,527	1,467	583
1981-1985 <sup>f/</sup>	4,560	1,942	3,373	1,929	1,287	389
1986-1990 <sup>g/</sup>	2,403	318	4,010	1,512	3,361	537
1991-1995	1,891	184	3,779	568	3,086	376
1991	716	10	2,019	146	1,337	143
1992	520	66	1,873	965	778	547
1993	1,341	85	5,035	265	3,077	456
1994	3,363	1,840	2,358	505	3,216	277
1995	12,816	695	11,198	3,279	4,140	1,335
1996	1,404	46	11,952	145	5,189	274
1997	1,667	334	8,284	277	5,783	217
1998	2,466	76	3,061	266	1,337	116
1999	1,296	1,901	3,021	563	670	110
2000	11,025	1,271	5,729	524	1,544	228
2001	8,452	2,641	5,398	744	2,607	743
2002	6,432	386	4,261	47	2,669	78
2003	4,134	155	11,988	65	3,302	73
2004	833	129	445	22	282	51
2005	2,018	37	698	58	401	105
2006	789	1,395	3,007	1,953	1,278	791
2007	2,009	27	4,494	11	1,377	55
2008	2,741	3,621	3,445	1,228	1,749	650
2009	6,145	151	2,167	44	2,204	516
2010	1,261	87	2,114	394	2,478	356
2011 <sup>h/</sup>	213	11,187	3,016	2,499	3,674	1,819

a/ From 1930-1937, 1957-1987 and 1991-1995, Shasta 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). 1991- 2011 estimates were generated from weir counts.

b/ In 1991, estimates were generated from weir counts. In 1992-2007, estimates were generated from carcass surveys. In 2008-2011, estimates were generated from a combination of video weir counts and carcass surveys.

c/ In 2005 and 2007, redd counts were used in lieu of carcass surveys.

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

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

f/ Shasta adults include 276 females taken to Iron Gate Hatchery in 1981.

g/ Low water conditions appeared to hinder entry into the Shasta River in 1988.

h/ Preliminary.



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

Year	Cañon Creek <sup>a/b/c/</sup> (Mad River)		Sprawl Creek <sup>a/b/d/</sup> (Eel River)		Tomki Creek <sup>e/</sup> (Eel River)	Russian <sup>f/</sup> River	Lagunitas <sup>g/</sup> Watershed
	Chinook	Coho	Chinook	Coho	Chinook	Chinook	Coho Redds
1978-1979	-	-	534	23	-	-	-
1979-1980	-	-	572	0	2,410	-	-
1980-1981	-	-	164	4	317	-	-
1981-1982	23	0	121	0	1,153	-	-
1982-1983	68	0	169	1	1,807	-	-
1983-1984	137	0	82	0	-	-	-
1984-1985 <sup>h/</sup>	16	0	67	13	1,292	-	-
1985-1986	514	14	320	0	3,558	-	-
1986-1987 <sup>h/</sup>	90	3	307	13	2,173	-	-
1987-1988	117	29	2,187	4	3,666	-	-
1988-1989	69	7	339	12	556	-	-
1989-1990 <sup>h/</sup>	9	9	89	14	-	-	-
1990-1991	0	3	0	0	-	-	-
1991-1992 <sup>h/</sup>	8	0	159	0	3	-	-
1992-1993 <sup>h/</sup>	57	1	142	2	15	-	-
1993-1994	20	0	171	36	5	-	-
1994-1995	33	3	52	0	21	-	-
1995-1996 <sup>h/</sup>	93	4	136	8	69	-	86
1996-1997	129	4	106	8	84	-	254
1997-1998	55	1	97	0	39	-	253
1998-1999	66	0	79	11	45	-	184
1999-2000 <sup>h/</sup>	162	1	34	1	24	-	203
2000-2001 <sup>h/</sup>	79	3	12	0	50	1,445	204
2001-2002	45	6	136	25	162	1,383	286
2002-2003	402	1	267	17	5	5,474	158
2003-2004 <sup>h/</sup>	79	1	106	8	137	6,103	383
2004-2005 <sup>h/</sup>	86	0	199	36	115	4,788	496
2005-2006	270	0	201	13	77	2,572	190
2006-2007 <sup>i/</sup>	152	2	37	9	20	3,410	338
2007-2008 <sup>i/</sup>	99	1	70	19	69	1,963	148
2008-2009 <sup>i/</sup>	65	0	158	40	17	1,125	26
2009-2010 <sup>i/</sup>	36	0	314	2	15	1,801	51
2010-2011 <sup>i/</sup>	131	2	273	60	151	2,414	80
2011-2012 <sup>h/i/j/</sup>	76	1	20	98	92	3,088	103 <sup>k/</sup>

a/ Survey frequency variable from year to year (between 1 and 10 surveys annually).

b/ Numbers reflect maximum annual counts of live fish and carcasses with adults and jacks combined. Counts are not shown in years where visibility is too poor to conduct surveys.

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

d/ Survey area was the mainstem and West Fork (4.5 miles).

e/ Total run size estimate including jacks and adults. Survey methodology changed in 2000-2001 to using index sites, and subsequent estimates are not comparable to previous estimates.

f/ Video counts of combined adults and jacks made at Mirabel Dam. Image quality is affected by turbidity.

g/ Numbers reported are redd counts. Olema Creek is excluded.

h/ Low flows appeared to increase mainstem spawning and decrease tributary spawning for Cañon, Sprawl, and Tomki creeks.

i/ Cañon and Sprawl creek totals exclude salmonids that were unidentifiable to species due to poor visibility or advanced decomposition.

j/ Preliminary data.

k/ Redd counts as of January 31, 2012.

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

Year or Avg.	Deep Creek (Pistol River) (0.4 mile)		Big Emily Creek (Chetco River) (1.0 mile)		Bear Creek (Winchuck River) (0.8 mile)		Index (fish per mile)	
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1961-1965	6	1	-	-	22	1	-	-
1966-1970	31	3	-	-	36	2	-	-
1971-1975	5	0	211	12	25	2	130	7
1976-1980	2	1	124	32	18	1	65	14
1981-1985	24	2	62	10	13	1	45	6
1986-1990	9 <sup>a/</sup>	1 <sup>a/</sup>	58	12	10	2	35	7
1991-1995	12	9	74	10	16	2	46	10
1996	81	9	79	7	27	5	85	10
1997	17	1	60	5	14	1	41	3
1998	46	11	52	3	19	2	53	7
1999	58	3	12	1	10	0	36	2
2000	26	3	63	6	11	1	45	5
2001	25	2	49	2	9	3	38	3
2002	62	7	70	3	15	9	67	9
2003	20	7	28	5	12	1	27	6
2004	97	19	29	4	11	1	62	11
2005	15	2	16	3	1	0	15	2
2006	22	3	24	2	5	1	23	3
2007	44	0	14	4	6	1	29	2
2008	10	1	15	29	3	5	13	16
2009	20	1	91	11	35	9	66	10
2010	14	2	75	5	26	2	52	4
2011 <sup>b/</sup>	12	2	49	6	17	3	35	5

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

b/ Preliminary.

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

Year or Avg.	Gold Ray Dam, Rogue River <sup>a/</sup>				Winchester Dam, Umpqua River <sup>a/</sup>			
	Natural	Hatchery	Total	Jacks <sup>b/</sup>	Natural	Hatchery	Total	Jacks <sup>b/</sup>
1942-1945	35.1	-	35.1	4.9	-	-	-	-
1946-1950	24.7	-	24.7	3.0	2.7	-	2.7	0.5
1951-1955	21.4	-	21.4	4.2	4.2	0.9	4.9	1.0
1956-1960	19.8	-	19.8	3.4	4.4	0.9	5.4	0.7
1961-1965	37.7	-	37.7	6.4	6.4	1.8	8.2	1.8
1966-1970	33.9	-	33.9	5.5	7.2	4.5	11.8	3.2
1971-1975	26.0	0.8	26.8	5.0	7.3	6.2	13.5	3.8
1976-1980	25.8	6.3	32.1	7.0	5.8	3.9	9.7	3.2
1981-1985	16.4	6.2	22.6	7.3	5.2	3.5	8.7	2.5
1986-1990	28.5	39.2	67.7	14.9	7.5	4.1	11.6	2.5
1991-1995	9.7	18.4	28.0	3.9	3.5	2.5	6.0	1.1
1996	10.3	26.3	36.6	3.4	4.3	2.2	6.5	1.0
1997	9.6	32.2	41.8	2.8	3.3	2.5	5.8	16.0
1998	3.7	12.3	16.0	2.8	4.0	2.9	6.9	1.5
1999	6.0	15.0	21.0	1.9	2.8	4.6	7.4	3.1
2000	3.4	26.8	30.2	3.1	3.4	9.2	12.6	4.6
2001	9.3	23.9	33.2	2.3	6.1	14.6	20.7	4.7
2002	7.0	40.8	47.8	3.2	6.8	17.4	24.2	3.1
2003	19.3	22.6	41.9	3.0	7.9	12.3	20.2	4.1
2004	13.3	26.0	39.3	3.8	5.4	10.1	15.4	2.5
2005	5.8	12.3	18.1	1.3	3.6	5.5	9.0	1.3
2006	4.8	7.0	11.7	2.2	2.6	3.5	6.1	1.7
2007	3.5	7.7	11.2	1.6	2.4	4.2	6.6	1.7
2008	4.0	8.6	12.5	3.8	2.6	5.1	7.7	2.7
2009	5.2	8.3	13.6	2.3	5.3	9.0	14.3	4.8
2010	9.6	11.5	21.1	1.9	6.1	7.8	13.9	3.8
2011 <sup>c/</sup>	9.9 <sup>d/</sup>	NA	NA	NA	8.9	7.7	16.6	5.4

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.

d/ Gold Ray Dam removed October, 2010. Natural estimate derived using relationship of 2004-2010 spawning ground surveys to Gold Ray Dam passage. Estimate includes an unknown number of jacks.

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

Year or Avg.	Carcass Counts		
	Adults	Jacks	Total
1977-1980	5,256	1,004	6,259
1981-1985	3,906	1,009	4,915
1986-1990	16,797	1,527	18,324
1990-1995	4,387	316	4,703
1996	2,448	121	2,569
1997	1,643	68	1,711
1998	3,601	40	3,641
1999	2,493	157	2,650
2000	3,366	226	3,592
2001	6,380	772	7,152
2002	11,836	905	12,741
2003	14,620	983	15,603
2004	5,326 <sup>a/</sup>	250	5,576
2005 <sup>b/</sup>	-	-	-
2006 <sup>b/</sup>	-	-	-
2007 <sup>b/</sup>	-	-	-
2008 <sup>b/</sup>	-	-	-
2009 <sup>b/</sup>	-	-	-
2010 <sup>b/</sup>	-	-	-
2011 <sup>b/</sup>	-	-	-

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

b/ Surveys were not conducted.

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

Year or Average	River Tributaries																			
	Humbug (Nehalem) (1.0 mile)		Tillamook (1.8 mile)		Niagara (Nestucca) (0.4 mile)		Sunshine (Siletz) (1.2 mile)		Grant (Yaquina) (1.7 mile)		Buck (Alsea) (1.0 mile)		Siuslaw (Lake) (0.8 mile)		W.F. Millicoma (Coos) (0.5 mile)		Salmon (Coquille) (0.8 mile)		Index Fish Per Mile	
	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks
1961-1965	95	22	116	25	72	5	59	13	43	13	28	9	61	15	2	1	23	13	54	13
1966-1970	57	3	93	27	47	6	30	5	61	13	26	16	134	40	6	1	26	9	52	13
1971-1975	101	26	55	5	55	4	40	5	64	8	17	3	94	49	18	13	15	5	50	14
1976-1980	143	12	61	6	32	2	47	5	127	23	22	3	166	39	31	28	31	10	72	14
1981-1985	163	18	95	9	78	6	55	2	178	24	47	6	149	31	6	2	45	7	89	11
1986-1990	136	4	154	8	118	3	54	2	240	24	100	6	427	44	15	5	49	6	141	11
1991-1995	65	2	92	6	103	3	60	2	153	10	44	4	395	18	49	7	86	5	116	6
1996	86	2	60	0	40	0	122	0	a/	a/	62	2	614	29	92	3	29	3	147	5
1997	162	1	47	1	24	1	60	0	a/	a/	49	3	325	9	12	0	108	3	105	2
1998	93	2	42	1	42	0	83	3	a/	a/	78	0	176	2	33	10	193	7	99	3
1999	116	3	38	1	60	2	36	3	a/	a/	55	5	478	14	14	3	136	8	124	5
2000	175	3	40	3	32	2	63	1	a/	a/	38	3	205	18	5	0	83	9	85	5
2001	220	4	62	6	53	7	195	3	a/	a/	95	6	711	49	30	5	153	22	203	14
2002	311	1	137	3	124	1	221	1	a/	a/	118	6	834	22	51	12	218	9	269	7
2003	215	6	135	5	27	1	120	3	341	7	145	1	1,230	37	209	31	147	2	279	10
2004	196	3	71	2	76	1	19	0	238	11	91	5	988	16	40	4	101	5	198	5
2005	124	3	a/	a/	74	2	54	1	a/	a/	40	1	302	5	17	2	61	2	118	3
2006	31	0	65	0	67	0	82	0	a/	a/	22	0	165	0	7	1	129	8	76	1
2007	91	1	34	2	20	0	6	0	a/	a/	17	1	132	2	14	3	2	0	42	1
2008	73	1	15	2	13	0	8	0	a/	a/	11	2	135	15	20	5	28	8	40	4
2009	92	13	17	0	2	0	32	2	a/	a/	50	0	179	26	34	9	a/	a/	61	7
2010	57	0	24	1	27	2	56	3	a/	a/	75	6	301	7	46	14	a/	a/	87	5
2011 <sup>b/</sup>	164	5	48	2	15	1	29	0	a/	a/	40	2	270	21	53	1	a/	a/	92	5

a/ Surveys were not conducted.

b/ Preliminary.

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

Year or Average	Minimum Inriver Run Size	Tributary Runs											
		Lower River Catch <sup>a/</sup>		Willamette					Sandy	Cowlitz <sup>c/</sup>	Lewis <sup>c/</sup>	Kalama	Hatchery Escapement <sup>d/</sup>
		Commercial	Sport	Run Size	L. Willamette Sport Catch	Will. Falls Escapement <sup>b/</sup>							
1971-1975	84,000	13,800	3,700	53,300	17,000	34,300	--	11,900	200	1,100	20,000		
1976-1980	92,160	6,160	2,720	51,240	14,380	31,420	975	19,680	2,980	2,020	26,580		
1981-1985	130,000	6,680	1,840	67,700	15,620	35,580	1,940	19,960	4,220	3,740	28,840		
1986-1990	175,563	11,980	4,330	103,100	21,140	58,760	2,425	10,691	11,340	1,877	32,460		
1991-1995	119,467	3,680	2,875	66,039	18,180	32,580	4,920	6,801	5,870	1,976	23,700		
1996	54,241	149	-	33,358	6,100	20,400	3,801	1,787	1,730	627	15,900		
1997	53,345	300	-	34,536	1,900	26,200	4,410	1,877	2,196	505	18,100		
1998	52,460	100	49	43,497	2,800	33,100	3,577	1,055	1,611	407	22,900		
1999	62,948	349	-	52,584	5,500	38,900	3,585	2,069	1,753	977	25,900		
2000	72,192	1,149	249	55,788	9,000	37,594	3,641	2,199	2,515	1,418	24,100		
2001	100,666	3,700	4,300	78,436	7,600	52,700	5,329	1,609	3,777	1,796	29,000		
2002	149,987	7,900	5,800	120,164	10,800	83,100	5,905	5,215	3,520	2,932	58,300		
2003	163,370	1,900	8,200	123,352	13,500	87,600	5,615	15,998	5,057	4,565	45,626		
2004	195,851	8,500	7,500	143,242	12,000	95,200	12,680	16,521	7,426	4,339	67,791		
2005	85,984	3,400	4,400	59,495	5,800	35,453	7,668	9,358	3,511	3,389	33,102		
2006	91,034	3,000	2,900	59,311	7,200	36,851	4,382	6,967	7,311	5,482	34,428		
2007	69,330	1,900	2,600	39,943	5,700	22,818	2,813	3,974	7,596	8,036	29,375		
2008	44,451	100	700	27,016	4,600	14,151	5,994	2,986	2,252	1,617	15,757		
2009	53,850	349	2,000	39,400	4,500	25,795	2,429	5,977	1,485	402	18,805		
2010	154,795	3,349	6,200	110,500	22,700	65,293	7,710	8,830	2,337	918	48,591		
2011 <sup>e/</sup>	99,735	2,349	2,500	80,254	22,800	43,748	4,348	4,064	1,436	764	32,371		

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 the timing of the catch, as in previous years. Since 1986, GSI and VSI techniques have been used for stock composition analysis. Commercial catch includes Select Area fisheries. Sport catch is mainstem Columbia River, does not include tributaries. Catch may include small numbers of jacks. Sport fishery closed in 1995 to 1997.

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

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

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

e/ Preliminary.

TABLE B-13. Estimates of inriver run size, catch, and escapement in numbers of Columbia River adult spring Chinook destined for areas above Bonneville Dam.<sup>a/</sup> This table includes Snake River summer Chinook.

Year or Avg.	Inriver Run Size	Lower River Catch <sup>b/</sup>		Bonneville Dam Count	Zone 6 Sport	Mainstem Treaty Indian Catch		Snake River Escapement <sup>d/</sup>		Rock Island Dam Count		Hatchery Escapement <sup>e/</sup>
		Commercial	Sport			Commercial <sup>c/</sup>	Ceremonial/ Subsistence	Hatchery	Wild	Hatchery	Wild	
1976-1980	55,960	185	0	55,775	-	259	1,714	2,903	6,413	2,800	2,241	2,613
1981-1985	70,440	1,706	393	68,342	-	1,024	2,545	7,508	10,787	4,831	3,239	10,849
1986-1990	108,167	2,378	1,357	104,433	-	186	6,771	19,648	10,192	5,881	3,089	18,780
1991-1995	63,404	511	711	62,183	-	15	3,730	7,097	7,015	5,698	1,546	11,386
1996	55,552	46	10	55,496	-	0	2,911	3,179	3,788	1,959	371	5,402
1997	124,321	53	16	124,252	-	14	8,309	39,388	5,310	4,767	697	27,191
1998	44,308	27	14	44,267	-	1	2,224	6,707	7,587	2,735	377	8,813
1999	43,067	28	16	43,023	-	1	1,983	3,703	2,856	3,272	370	5,786
2000	186,715	251	124	186,340	-	1,379	9,973	29,568	8,255	13,954	829	21,623
2001	440,336	2,538	22,719	415,079	167	43,790	10,985	141,121	45,337	31,314	4,305	49,869
2002	335,214	10,151	16,268	308,795	1,716	24,257	9,208	67,312	30,248	19,976	1,622	35,042
2003	242,605	3,493	9,611	229,501	1,860	9,205	9,090	54,951	32,365	12,046	1,174	24,547
2004	221,675	6,233	17,146	198,296	1,616	8,370	9,114	58,624	21,401	9,525	1,744	26,447
2005	106,911	2,289	7,235	97,397	388	1	6,163	22,932	10,127	12,882	3,223	19,373
2006	132,583	2,238	4,187	126,158	1,245	0	8,401	20,248	9,490	10,245	1,092	16,752
2007	86,247	1,491	3,927	80,829	1,368	3	5,624	23,308	7,100	10,106	803	15,700
2008	178,629	6,292	19,612	151,895	2,196	12,314	8,247	55,587	17,586	19,575	1,178	35,314
2009	169,296	4,543	15,246	147,489	290	0	11,083	49,836	14,975	20,964	1,855	32,534
2010	315,345	9,281	23,535	277,389	3,512	25,008	12,807	97,770	26,643	22,291	2,110	51,730
2011 <sup>f/</sup>	221,157	3,929	9,506	205,431	2,379	7	13,235	72,262	24,562	17,625	2,682	27,170
GOAL				115,000				35,000 <sup>g/</sup>	25,000 <sup>g/</sup>			

a/ Spring Chinook accounting ends on June 15. Chinook formerly managed separately as Snake River summer Chinook are now grouped with all upriver spring Chinook because of overlap in run timing. Snake River summer Chinook have been moved from Table B-14 to this table.

b/ 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 Select Area commercial gillnet fisheries beginning in 1979 and catch and release mortalities from selective fisheries beginning in 2001. Sport catch includes mainstem fisheries between Buoy 10 and Bonneville Dam.

c/ Spring season fishery closed in 1975, 1976, and from 1978 to 2000. Spring Chinook landed during those years were from the winter season fishery.

d/ Snake River escapement at Lower Granite relative to escapement goals. Wild escapement goal includes Snake Basin harvest below Lower Granite Dam, Lower Granite count of wild escapement, and Tucannon wild return. Hatchery escapement goal includes Lower Granite count of hatchery escapement only.

e/ Hatchery rack and trap returns above Lower Granite Dam plus Tucannon and hatchery returns above Priest Rapids Dam (Wenatchee, Entiat, and Methow) plus Ringold. Does not include Leavenworth or East Bank.

f/ Preliminary.

g/ U.S. v. Oregon goal; not an FMP goal: wild escapement goal includes Snake Basin harvest below Lower Granite Dam, Lower Granite count of wild escapement, and Tucannon wild return. Hatchery escapement goal includes Lower Granite count of hatchery escapement only.

TABLE B-14. Estimates of inriver run size, catch, and escapement in numbers of Columbia River adult summer Chinook destined for areas above Bonneville Dam.<sup>a/</sup> This table does not include Snake River summer Chinook.

Year or Avg.	Inriver Run Size	Lower River Catch <sup>b/</sup>		Bonneville Dam Count	Zone 6 Sport	Mainstem Treaty Indian Catch		
		Commercial <sup>c/</sup>	Sport			Commercial <sup>d/</sup>	Ceremonial/ Subsistence	Rock Island Dam Count
1976-1980	22,320	81	-	22,485	-	38	1,047	16,326
1981-1985	16,709	55	-	16,767	-	304	669	10,010
1986-1990	21,036	71	10	21,166	-	708	194	14,563
1991-1995	12,984	30	15	12,988	-	-	227	10,748
1996	12,080	15	34	12,031	0	0	374	9,417
1997	17,709	6	16	18,252	0	0	270	10,063
1998	15,536	1	27	16,304	0	0	335	11,225
1999	21,867	1	51	21,815	0	0	395	18,588
2000	22,595	0	17	22,578	0	0	209	20,218
2001	52,960	1	64	52,895	0	150	542	48,844
2002	89,524	8	1,447	88,069	113	74	2,019	86,825
2003	83,058	36	1,945	81,077	417	3,587	710	81,543
2004	65,623	222	1,246	63,970	261	8,004	390	62,311
2005	60,272	2,787	1,621	55,864	487	6,415	1,227	54,033
2006	77,573	4,828	4,926	67,819	346	15,771	548	61,821
2007	37,035	1,122	2,214	33,699	194	4,564	811	28,222
2008	55,532	1,429	2,140	51,963	1,072	8,317	712	38,171
2009	53,881	2,546	2,341	48,994	193	10,441	1,209	44,295
2010	72,346	4,740	2,738	64,638	156	15,569	0 <sup>e/</sup>	47,220
2011 <sup>f/</sup>	80,574	5,004	5,576	69,994	208	20,645	0 <sup>e/</sup>	44,432
<b>GOAL</b>	<b>29,000<sup>g/</sup></b>							<b>12,143<sup>h/</sup></b>

a/ Summer Chinook accounting begins on June 16. Chinook managed as Snake River summer Chinook prior to 2004 are now grouped with all upriver spring Chinook because of overlap in run timing. As of 2004, they have been moved from this table to Table B-13.

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

c/ No directed commercial summer Chinook fishery from 1964 to 2003. Landings during those years are bycatch from commercial shad and sockeye fisheries.

d/ No directed commercial summer Chinook fishery from 1965 to 2003. Landings during those years are bycatch from commercial sockeye fishery.

e/ No ceremonial and subsistence permits issued, sales of platform and hook & line subsistence catch allowed and included in commercial catch.

f/ Preliminary.

g/ Comanager goal established in 2004 associated with regrouping Snake River summer Chinook with Snake River spring Chinook.

h/ MSY spawning escapement objective adopted in 2011 under Amendment 16 based on Chinook Technical Committee Report 99-3.



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

Year or Average	Inriver Run Size	Harvest				Escapement	
		Bonneville Dam Count	Treaty Indian Commercial and Subsistence	Non-Indian		Natural	Hatchery <sup>c/</sup>
				Commercial <sup>b/</sup>	Sport		
1971-1975	105,700	67,600	29,000	37,900	300	2,900	17,000
1976-1980	116,522	83,000	32,533	31,794	131	3,884	21,972
1981-1985	63,342	49,780	24,637	9,747	580	2,711	15,955
1986-1990	16,673	10,200	6,080	2,920	820	1,500	4,600
1991-1995	30,192	25,564	11,360	2,067	1,280	1,460	9,700
1996	33,137	30,300	21,100	1,700	900	1,300	7,700
1997	27,377	23,300	10,329	0	2,981	4,612	8,688
1998	20,158	17,100	6,592	197	2,556	2,731	3,224
1999	50,189	46,800	28,197	258	2,617	3,338	14,488
2000	20,527	18,400	7,903	1,141	897	4,085	6,257
2001	124,951	115,800	52,124	3,693	3,302	5,063	36,663
2002	158,299	145,200	48,350	11,485	6,654	8,069	67,436
2003	180,592	161,735	48,204	9,850	7,659	27,894	56,935
2004	175,245	164,482	59,941	3,690	5,614	14,084	68,932
2005	103,526	98,322	49,471	3,981	3,049	4,667	31,977
2006	27,917	21,197	13,400	1,774	654	1,931	9,889
2007	14,549	13,072	5,034	474	306	2,870	5,899
2008	93,860	82,331	43,933	7,100	3,526	2,765	33,722
2009	48,970	40,268	21,622	5,262	1,523	4,103	13,680
2010	130,767	115,993	58,824	11,236	3,299	4,843	45,279
2011 <sup>d/</sup>	81,000	65,905	32,204	11,018	1,183	3,813	29,888
GOAL							7,000 <sup>e/</sup>

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

b/ Includes Select Area fisheries.

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

d/ Preliminary estimates based on inseason run updates.

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

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

Year or Average	Inriver Run Size	Harvest			Escapement	
		Treaty Indian Commercial and Subsistence	Non-Indian		Natural	Hatchery <sup>d/</sup>
			Commercial <sup>b/</sup>	Sport <sup>c/</sup>		
1971-1975	175,900	0	78,100	5,400	49,200	43,200
1976-1980	145,377	20	59,400	4,380	36,940	44,620
1981-1985	107,163	851	25,604	4,486	37,755	36,846
1986-1990	199,938	655	93,794	17,420	38,774	48,821
1991-1995	55,519	238	2,871	4,998	19,915	27,419
1996	75,495	360	3,899	4,641	23,909	42,662
1997	57,393	0	2,369	7,704	22,663	24,657
1998	45,265	0	844	4,519	16,713	23,035
1999	39,933	0	2,234	6,118	12,551	19,030
2000	26,997	0	860	3,212	10,714	12,211
2001	94,331	0	4,428	7,443	39,434	42,996
2002	156,444	279	9,928	15,353	80,670	50,138
2003	154,983	0	9,216	14,213	97,089	34,465
2004	109,055	475	13,122	11,870	53,399	30,103
2005	78,293	186	9,219	10,140	33,598	25,042
2006	58,319	237	5,919	9,449	26,633	15,957
2007	32,689	0	1,308	6,123	10,208	15,050
2008	61,559	502	5,701	6,543	21,528	27,265
2009	76,738	0	10,259	11,295	23,746	31,436
2010	102,955	0	14,981	13,046	33,962	40,964
2011 <sup>e/</sup>	128,611	0	15,930	12,411	47,127	53,143
GOAL						Hatchery Production

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

b/ Includes Select Area fisheries.

c/ Includes tributary catches.

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

e/ Preliminary estimates based on inseason run updates.

TABLE B-17. Estimates of inriver run size, catch, and escapement in numbers of Columbia River adult lower river wild (LRW) stock fall Chinook.<sup>a/</sup>

Year or Average	Inriver Run Size	Harvest			Escapement	
		Treaty Indian Commercial and Subsistence	Non-Indian		Natural	Hatchery
			Commercial	Sport <sup>b/</sup>		
1971-1975	59,700	0	27,900	2,100	29,400	100
1976-1980	26,963	20	11,720	1,220	13,720	240
1981-1985	16,287	0	1,940	1,320	12,480	480
1986-1990	32,600	60	10,689	3,251	18,383	181
1991-1995	14,761	0	2,159	2,433	10,101	68
1996	14,566	0	325	234	13,914	93
1997	12,323	0	0	1,082	11,241	0
1998	7,253	0	0	667	6,493	93
1999	3,349	0	18	0	3,257	74
2000	10,234	0	604	0	9,422	208
2001	15,721	0	1,382	729	13,610	0
2002	25,171	161	1,801	3,245	19,654	50
2003	26,021	0	3,391	4,962	17,668	0
2004	22,327	0	2,343	3,638	16,346	0
2005	16,767	0	2,240	2,632	11,725	170
2006	18,105	0	2,546	2,801	12,758	0
2007	4,276	0	258	138	3,857	23
2008	7,120	0	0	937	6,183	0
2009	7,533	0	293	347	6,893	0
2010	10,898	0	0	237	10,661	0
2011 <sup>c/</sup>	13,120	0	776	3,416	8,928	0
GOAL					5,700 <sup>d/</sup>	

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

b/ Includes tributary catches.

c/ Preliminary estimates based on inseason run updates.

d/ Escapement objective is for North Lewis River, but escapement numbers include other fish. The escapement objective for the North Lewis River was met for all years except 1998, 1999, 2007, 2008, and 2009.

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

Year or Average	Inriver Run Size	Bonneville Dam Count	Harvest			Escapement							
			Treaty Indian Commercial and Subsistence	Non-Indian		Natural Escapement <sup>c/</sup>	Up. Col. Escapement <sup>d/</sup>	Hatchery	Deschutes above/below Sheares		Ice Harbor Dam Count	Total Lower Granite Count	SRW L. Granite Dam Count <sup>f/</sup>
				Commercial	Sport <sup>b/</sup>				McNary Dam Count	Falls <sup>e/</sup>			
1971-1975	110,500	80,400	35,100	29,300	3,100	36,800	NA	2,600	NA	39,500	5,600	-	-
1976-1980	92,301	72,360	32,160	19,180	980	29,480	NA	1,980	NA	31,080	1,160	532	532
1981-1985	111,873	94,120	26,700	13,880	3,020	46,060	NA	8,100	NA	51,042	1,583	586	450
1986-1990	291,407	222,337	100,379	61,499	13,613	90,709	NA	13,231	7,081	107,252	4,369	691	289
1991-1995	105,302	99,028	20,813	5,000	5,095	51,424	NA	9,419	7,342	61,362	3,352	903	473
1996	143,155	135,499	29,868	3,717	8,918	59,598	NA	15,905	10,233	73,929	3,810	1,308	639
1997	161,735	152,941	42,637	1,429	11,506	68,889	NA	13,114	20,208	67,192	2,752	1,451	797
1998	141,575	137,509	33,760	770	8,137	54,297	NA	18,798	15,908	63,791	4,220	1,909	306
1999	165,889	155,756	38,822	2,133	15,173	48,372	NA	30,272	7,389	78,356	6,586	3,381	905
2000	156,595	145,104	36,501	5,551	10,545	66,512	58,513	10,841	4,985	66,378	6,509	3,602	1,148
2001	232,366	219,801	35,422	8,151	12,648	92,194	72,738	21,143	12,817	110,517	13,635	8,915	5,163
2002	279,548	257,711	57,405	6,881	25,651	123,446	99,728	17,299	11,907	141,682	15,319	12,351	2,116
2003	374,154	341,208	49,060	15,930	25,918	176,865	146,437	12,356	13,413	179,970	20,903	11,732	3,856
2004	362,804	336,585	46,566	19,760	22,276	148,028	122,417	23,137	10,197	170,648	21,100	14,960	2,983
2005	278,539	256,119	45,776	8,464	23,980	115,612	98,777	23,299	14,937	131,550	14,677	11,170	2,602
2006	230,390	132,632	44,565	8,757	14,515	79,852	62,567	15,197	14,223	89,081	10,272	8,048	2,483
2007	114,065	105,626	18,878	2,833	10,860	51,004	34,201	7,267	12,721	57,268	13,408	10,195	2,016
2008	197,295	183,242	39,988	7,574	14,323	75,421	51,757	23,468	6,908	101,869	21,896	16,628	2,222
2009	212,047	190,695	58,616	11,601	17,310	87,585	62,428	15,762	6,429	104,544	24,824	15,167	1,262
2010	324,908	247,620	59,115	13,536	24,624	163,998	114,230	28,684	9,275	146,924	46,541	41,815	9,583
2011 <sup>g/</sup>	335,700	289,650	100,710	27,041	31,537	75,341	NA	23,117	NA	161,191	31,405	25,249	NA
<b>GOAL</b>								39,625 <sup>h/</sup>		60,000 <sup>i/</sup>			

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

b/ Includes tributary and mainstem catches between Bonneville and Priest Rapids dams.

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

d/ Upper Columbia escapement only: Yakima River, Hanford Reach, and Priest Rapids Dam count.

e/ Entire time series of Deschutes escapement revised in 2010 to match Deschutes River Chinook Spawner Escapement Goal using U.S. v. Oregon Technical Advisory Committee Data (Sharma et al. 2009).

f/ Snake River wild; adjusted for stray hatchery fish. Includes wild fish hauled to Lyons Ferry Hatchery.

g/ Preliminary based on inseason run update.

h/ MSY spawning escapement objective adopted in FMP Amendment 16 in 2011.

i/ The U.S. v. Oregon parties managed for a McNary Dam escapement of 60,000 beginning in 2008 for increased production in the Snake basin. However, starting in 1994 inriver fisheries were managed primarily for ESA consultation standards.

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

Year or Average	Inriver Run Size	Harvest				Escapement	
		Bonneville Dam Count	Treaty Indian Commercial and Subsistence	Non-Indian		Natural	Hatchery <sup>c/</sup>
				Commercial	Sport <sup>b/</sup>		
1982-1985	10,275	4,925	1,875	1,675	100	0	3,450
1986-1990	60,894	24,780	16,288	26,547	2,277	4,253	9,194
1991-1995	32,352	19,360	6,014	4,151	1,622	7,327	10,631
1996	59,698	38,100	12,443	5,306	3,387	15,618	15,868
1997	58,932	36,600	11,596	3,320	6,517	15,916	15,808
1998	37,328	29,900	5,570	1,063	5,697	11,380	8,401
1999	50,788	40,400	10,581	1,543	5,927	17,213	7,334
2000	37,191	25,600	7,186	3,739	3,507	10,135	7,884
2001	76,504	48,100	16,821	7,023	9,580	14,600	13,701
2002	108,198	57,600	24,358	9,437	12,737	27,005	21,946
2003	150,042	97,179	27,830	20,432	12,804	38,204	24,175
2004	122,496	79,866	23,392	9,178	11,167	27,779	26,210
2005	100,333	60,464	23,158	6,590	10,727	14,271	30,991
2006	80,470	31,402	22,705	4,577	3,567	12,501	19,745
2007	47,556	29,029	13,369	6,665	2,528	5,559	13,053
2008	76,297	44,210	23,260	10,349	5,648	6,813	21,409
2009	73,069	41,298	21,213	8,508	7,433	9,320	22,003
2010	78,937	50,878	22,009	3,719	5,960	7,904	33,391
2011 <sup>d/</sup>	77,000	44,528	15,517	8,541	10,433	17,078	20,657
GOAL							Hatchery Production

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

b/ Includes tributary and mainstem catches.

c/ Little White Salmon and Bonneville Hatcheries.

d/ Preliminary based on inseason run updates.

TABLE B-20. Estimates of minimum inriver run size and catch in numbers of adult spring, summer, and fall Chinook from the Columbia River. (Page 1 of 3)

Year	Minimum Inriver Run Size	Below Bonneville Dam					Above Bonneville Dam						Total Treaty Indian & Non-Indian		
		Non-Indian Sport		Non-Indian Commercial			Non-Indian Sport		Treaty Indian			Non-Indian Total			
		Tributary <sup>a/</sup>	Buoy 10 Mainstem <sup>b/</sup>	Select Area <sup>c/</sup>	Mainstem	Bonneville Dam Counts	Mainstem	Tributary <sup>d/</sup>	Ticketed Commercial <sup>e/</sup>	Non-Ticketed Public Sales	Ceremonial & Subsistence <sup>f/</sup>	Sport		Commercial	
<b>Spring Chinook<sup>g/</sup></b>															
'79-'80	146,560	11,427	h/	1,150	-	2,900	55,775	-	-	259	--	1,714	12,653	2,900	17,525
'81-'85	200,440	19,568	h/	2,233	-	8,197	68,342	-	925	1,024	--	2,545	22,726	8,197	34,492
'86-'90	283,730	39,688	h/	5,686	-	14,138	104,433	-	3,366	186	--	6,771	48,741	14,138	69,836
'91-'95	182,871	33,201	h/	3,011	376	4,042	62,183	-	1,227	15	--	3,730	37,438	4,343	45,526
'96-'00	149,830	12,669	h/	93	2,731	430	90,676	-	4,163	279	--	5,080	16,925	3,161	25,445
2001	541,002	17,419	h/	27,014	9,769	5,279	415,079	167	56,651	22,019	21,696	10,985	101,251	15,048	170,999
2002	485,201	28,588	h/	22,045	12,251	17,407	308,795	1,716	25,837	17,930	6,324	9,208	78,187	29,658	141,306
2003	405,975	31,924	h/	17,781	8,800	4,658	229,501	1,860	21,105	6,363	2,842	9,090	72,671	13,458	104,424
2004	417,526	35,584	h/	24,638	11,643	14,489	198,296	1,616	22,471	5,256	3,114	9,114	84,310	26,132	127,926
2005	192,895	16,136	h/	11,635	2,563	5,647	97,397	388	6,545	1	--	6,163	34,703	8,210	49,077
2006	223,617	18,826	h/	7,087	7,581	5,106	126,158	1,245	3,686	0	--	8,401	30,844	12,687	51,931
2007	155,577	14,549	h/	6,527	6,968	3,336	80,829	1,368	5,082	3	--	5,624	27,526	10,304	43,457
2008	223,080	8,094	h/	20,312	4,586	6,007	151,895	2,196	19,341	12,314	--	8,247	49,943	10,593	81,096
2009	223,146	10,946	h/	17,246	4,275	4,521	147,489	290	17,451	0	--	11,083	45,932	8,796	65,811
2010	470,140	38,771	h/	29,735	26,142	10,807	277,389	3,512	38,083	25,008	--	12,807	110,101	36,949	184,865
2011 <sup>h/</sup>	320,892	24,666	h/	12,006	11,855	5,759	205,431	2,379	23,906	7	--	13,235	62,957	17,614	93,813
<b>Summer Chinook<sup>g/h/</sup></b>															
'79-'80	22,320	-	-	-	-	81	22,485	-	-	38	--	1,047	0	81	1,165
'81-'85	16,709	-	-	-	-	55	16,767	-	-	304	--	669	0	55	1,028
'86-'90	21,036	-	-	8	-	71	21,166	-	-	1,180	--	194	8	71	980
'91-'95	12,984	-	-	15	-	30	12,988	-	-	-	--	227	15	30	271
'96-'00	17,957	-	-	29	-	5	18,196	-	-	-	--	317	37	5	358
2001	52,960	-	-	64	-	1	52,895	-	82	150	--	542	146	1	839
2002	89,524	-	-	1,447	-	8	88,069	113	197	74	--	2,019	1,757	8	3,858
2003	83,058	-	-	1,945	36	0	81,077	417	223	3,587	--	710	2,584	36	6,917
2004	65,623	-	-	1,246	3	219	63,970	261	157	8,004	--	390	1,663	222	10,279
2005	60,272	-	-	1,621	0	2,787	55,864	487	338	6,415	--	1,227	2,446	2,787	12,875
2006	77,573	-	-	4,926	9	4,819	67,819	346	216	15,771	--	548	5,488	4,828	26,635
2007	37,035	-	-	2,214	0	1,122	33,699	194	294	4,564	--	811	2,702	1,122	9,199
2008	55,532	-	-	2,140	59	1,370	51,963	1,072	188	8,317	--	712	3,400	1,429	13,858
2009	53,881	-	0	2,341	22	2,524	48,994	193	185	10,441	--	1,209	2,719	2,546	16,915
2010	72,346	-	0	2,738	20	4,720	64,638	156	48	15,569	--	k/	2,942	4,740	23,251
2011 <sup>h/</sup>	80,574	-	0	5,576	0	5,004	69,994	208	55	20,645	--	k/	5,839	5,004	31,488

TABLE B-20. Estimates of minimum inriver run size and catch in numbers of adult spring, summer, and fall Chinook from the Columbia River. (Page 2 of 3)

Year	Minimum Inriver Run Size	Below Bonneville Dam						Above Bonneville Dam						Total Treaty Indian & Non-Indian	
		Non-Indian Sport				Bonneville Dam Counts	Non-Indian Sport		Treaty Indian			Non-Indian Total			
		Tributary <sup>a/</sup>	Buoy 10	Mainstem <sup>b/</sup>	Select Area <sup>c/</sup>		Mainstem	Mainstem	Tributary <sup>d/</sup>	Ticketed Commercial <sup>e/</sup>	Non-Ticketed Public Sales	Ceremonial & Subsistence <sup>f/</sup>	Sport		Commercial
						Fall Chinook <sup>h/</sup>									
'79-'80	327,458	3,651	-	1,155	20,800	73,253	135,878	500	--	32,568	--	--	5,306	113,253	151,127
'81-'85	307,206	4,158	7,176	1,528	8,560	45,490	150,768	2,795	--	48,888	--	5,025	10,234	54,050	118,196
'86-'90	603,713	6,383	20,641	4,119	16,059	181,817	258,807	5,825	442	118,864	4,765	5,692	37,056	197,876	360,441
'91-'95	240,267	3,541	6,224	2,633	1,230	14,693	145,489	4,150	584	33,408	4,732	658	15,887	15,923	70,476
'96-'00	295,597	1,398	6,906	8,766	2,919	7,346	208,836	5,084	1,922	38,397	21,746	606	24,077	10,265	94,970
2001	548,736	2,971	12,287	8,683	4,200	22,938	400,410	7,922	2,800	79,959	31,397	365	34,663	27,138	173,522
2002	733,340	7,789	18,273	21,235	7,899	34,428	474,648	11,171	5,940	96,277	33,918	457	64,408	42,327	237,387
2003	893,926	11,999	14,873	25,931	9,360	54,620	610,336	9,267	4,490	94,822	31,107	683	66,560	63,980	257,152
2004	799,024	8,379	15,201	16,968	12,400	40,373	583,269	10,297	4,215	111,833	15,379	416	55,060	52,773	235,461
2005	584,009	7,810	9,983	20,111	8,677	26,231	417,057	9,110	4,307	92,463	22,058	570	51,321	34,908	201,320
2006	422,433	7,052	1,620	13,447	4,822	23,144	299,161	5,136	3,969	58,842	18,849	391	31,224	27,966	137,272
2007	219,628	2,700	3,389	7,888	3,650	11,685	159,815	4,914	2,019	34,001	11,085	270	20,910	15,335	81,601
2008	448,985	3,499	7,764	10,881	12,495	27,678	314,995	7,022	2,647	90,968	18,055	40	31,813	40,173	181,049
2009	428,981	7,616	4,218	14,954	10,973	32,668	283,691	8,124	3,330	63,498	12,008	15	38,242	43,641	157,404
2010	657,083	8,074	6,473	16,948	18,137	30,712	467,524	13,527	3,307	118,447	13,029	27	48,329	48,849	228,681
2011 <sup>h/</sup>	648,941	7,647	9,603	31,624	25,037	50,606	401,576	11,279	0	109,655	19,834	550	60,153	75,643	265,835
<b>Total Chinook</b>															
'79-'80	496,338	13,253	-	1,728	20,800	39,608	214,138	500	--	16,581	--	2,760	15,306	59,608	94,254
'81-'85	524,355	23,726	7,176	3,761	8,560	53,742	235,877	1,677	925	50,216	--	8,239	32,959	62,302	153,716
'86-'90	908,480	46,071	20,641	9,813	16,059	196,025	384,406	5,825	3,454	119,758	4,765	12,656	85,804	212,085	431,257
'91-'95	436,121	36,741	6,224	5,658	1,531	18,765	220,660	4,150	1,811	33,424	4,732	4,482	53,340	20,295	116,273
'96-'00	463,384	14,067	6,906	8,888	5,650	7,781	317,708	5,084	6,093	38,676	21,746	5,881	41,038	13,431	120,773
2001	1,142,698	20,390	12,287	35,761	13,969	28,218	868,384	8,089	59,533	102,128	53,093	11,892	136,060	42,187	345,361
2002	1,308,065	36,377	18,273	44,727	20,150	51,843	871,512	13,000	31,974	114,281	40,242	11,684	144,351	71,993	382,551
2003	1,382,959	43,923	14,873	45,657	18,196	59,278	920,914	11,544	25,818	104,772	33,949	10,483	141,815	77,474	368,493
2004	1,282,174	43,963	15,201	42,852	24,046	55,081	845,535	12,174	26,843	125,093	18,493	9,920	141,033	79,127	373,666
2005	837,176	23,946	9,983	33,367	11,240	34,665	570,318	9,984	11,190	98,879	22,058	7,960	88,470	45,905	263,272
2006	723,623	25,878	1,620	25,460	12,412	33,069	493,138	6,727	7,871	74,613	18,849	9,340	67,556	45,481	215,838
2007	412,239	17,249	3,389	16,629	10,618	16,143	274,343	6,476	7,395	38,568	11,085	6,705	51,138	26,761	134,257
2008	727,597	11,593	7,764	33,333	17,140	35,055	518,853	10,290	22,176	111,599	18,055	8,999	85,156	52,195	276,003
2009	706,008	18,562	4,218	34,541	15,270	39,713	480,174	8,607	20,966	73,939	12,008	12,307	86,893	54,983	240,130
2010	1,199,569	46,845	6,473	49,422	44,299	46,239	809,551	17,195	41,438	159,024	13,029	12,834	161,372	90,538	436,797
2011 <sup>h/</sup>	1,050,407	32,313	9,603	49,206	36,892	61,369	677,001	13,866	23,961	130,307	19,834	13,785	128,949	98,261	391,136

TABLE B-20. Estimates of minimum inriver run size and catch in numbers of adult spring, summer, and fall Chinook from the Columbia River. (Page 3 of 3)

- a/ For spring Chinook: includes lower and upper Willamette, Clackamas, Cowlitz, Kalama, Lewis, and Sandy Rivers. Sandy River harvest not available before 1990. Catch estimates may include small numbers of Jacks. Does not include SAFE sport. For summer Chinook: all tributaries are closed. For fall Chinook: all tributaries downstream from Bonneville Dam.
- b/ Includes Select Area catch.
- c/ Youngs Bay Select Area began in 1992. Tongue Point and Blind Slough began in 1998. Select Area test fisheries began in 1991. Other Select Areas include Knappa in Oregon and Deep River in Washington.
- d/ Includes tributaries between Bonneville and McNary Dams, the Snake and Yakima rivers, Icicle and Ringold creeks. For Spring Chinook, this is Ringold creeks and tributaries above Lower Granite Dam. For summer Chinook, this is Wanapum and Hanford Reach.
- e/ Primarily mainstem fisheries between Bonneville and McNary dams, but also includes fish caught in miscellaneous commercial Indian fisheries such as Klickitat dip net and mainstem fisheries upstream from McNary Dam. Spring season fishery closed in 1975, 1976, and from 1978 to 2000. Spring Chinook landed during those years were from the winter season fishery. Summer season fishery closed from 1974 to 1982, 1989 to 2000. Summer Chinook landed during those years are bycatch from shad and sockeye fishery.
- f/ Primarily mainstem fisheries between Bonneville and McNary dams. Significant subsistence fisheries also occur in tributaries throughout the Columbia and Snake River basin, especially for spring Chinook, which are not included in these estimates.
- g/ Upriver spring Chinook accounting ends on June 15 and summer Chinook accounting begins on June 16.
- h/ Spring Chinook Buoy 10 area catch is included in mainstem sport.
- i/ Preliminary. Fall Chinook estimates are from inseason run updates.
- j/ Summer Chinook retention was prohibited for all mainstem non-Indian and treaty Indian fisheries until 2003. Small non-Indian incidental mortalities prior to 2003 are associated with recreational Steelhead fisheries and commercial shad and Sockeye fisheries. A few stray summer Chinook are caught in Select Area (terminal) fisheries that are open for late returning spring Chinook and early returning fall Chinook. Prior to 2003, Treaty Indians could retain summer Chinook for subsistence purposes.
- k/ No ceremonial and subsistence permits issued, sales of platform and hook & line subsistence catch allowed and included in commercial catch or non-ticked public sales.
- l/ Fall Chinook minimum run size includes LRH, LRW, SCH, URB, MCB, and SAB.



TABLE B-21. Estimates of minimum inriver run size, catch, and escapement in thousands of adult coho entering the Columbia River.<sup>a</sup>

Year or Average	Minimum Inriver Run Size	Below Bonneville Dam					Above Bonneville Dam			
		Lower River Catch			Lower River Escapement		Bonneville Dam Counts <sup>e/</sup>	Mainstem Commercial Treaty Catch	Zone 6 Escapement <sup>f/</sup>	Hatchery Escapement
		Commercial	Recreational		Hatchery <sup>c/</sup>	Tributary Dam Counts <sup>d/</sup>				
			Buoy 10	Mainstem <sup>b/</sup>						
1971-1975	373.4	199.4	-	11.8	117.1	9.5	35.7	9.1	26.6	11.6
1976-1980	263.3	123.6	-	10.1	102.2	3.6	23.8	2.6	21.2	7.0
1981-1985	305.3	132.1	30.6	11.4	101.0	4.6	31.9	2.6	29.2	12.5
1986-1990	688.4	392.2	82.3	13.9	147.6	5.8	46.3	5.5	40.7	11.5
1991-1995	305.9	115.8	55.9	10.7	96.0	3.7	23.6	2.0	21.6	6.1
1996	113.0	26.2	4.5	3.8	62.2	0.6	15.7	0.7	15.0	1.4
1997	149.1	20.4	20.4	11.6	69.7	2.8	24.2	0.6	23.6	4.4
1998	168.4	23.0	3.2	6.7	87.9	1.3	46.3	1.5	44.8	11.3
1999	274.2	79.1	9.0	19.9	124.5	1.0	40.7	2.3	38.4	10.0
2000	548.2	168.4	21.5	37.7	288.6	6.2	85.8	6.3	79.5	26.6
2001	1,108.3	253.1	132.0	78.0	377.3	8.2	259.8	5.4	254.4	80.6
2002	499.9	163.0	6.2	27.4	211.1	3.7	88.6	1.6	86.9	2.9
2003	677.7	257.3	54.4	23.6	205.4	11.2	125.7	5.8	120.0	3.9
2004	442.6	119.6	15.2	13.6	173.5	5.6	115.0	10.3	104.8	6.2
2005	341.0	94.8	6.9	10.5	142.3	3.3	83.3	4.9	78.5	2.3
2006	386.2	63.4	3.7	16.5	191.1	9.5	102.1	8.1	94.1	0.7
2007	336.9	40.3	8.4	24.2	161.0	10.5	92.5	8.0	84.5	2.0
2008	494.3	60.4	8.6	42.8	240.9	6.2	135.5	21.6	113.9	1.1
2009	729.8	124.2	48.1	39.8	260.4	32.3	244.9	8.9	236.0	2.4
2010 <sup>g/</sup>	440.4	76.3	8.0	24.2	188.9	22.3	102.7	7.1	95.6	0.6
2011 <sup>g/</sup>	352.0	59.0	7.6	23.5	108.3	8.3	145.3	33.3	112.0	0.6
GOAL		Hatchery Production					Hatchery Production			

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

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

c/ Includes hatcheries operated by all agencies.

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

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

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

g/ Preliminary.

TABLE B-22. Estimated catch and effort in the Buoy 10 fishery.<sup>a/</sup>

Year	Angler Trips	Catch <sup>b/</sup>		Catch Per Trip
		Chinook	Coho	
1982-1985	30,996	4,040	30,547	0.97
1986-1990 <sup>c/d/</sup>	130,633	22,107	82,910	0.78
1991-1995 <sup>e/</sup>	79,475	5,689	55,895	0.50
1996	18,034	1,409	4,537	0.33
1997	55,725	13,153	20,357	0.60
1998	29,998	5,784	3,175	0.30
1999	49,581	9,850	8,861	0.38
2000	72,518	6,085	21,478	0.38
2001	125,884	12,709	132,038	1.15
2002	84,457	19,441	6,233	0.30
2003	88,827	16,316	54,440	0.80
2004	68,818	16,016	15,169	0.45
2005	55,182	9,286	6,878	0.29
2006	40,688	1,706	3,687	0.13
2007	36,064	3,776	8,356	0.34
2008	32,467	8,349	8,573	0.52
2009	72,803	5,940	48,127	0.74
2010	52,300	6,807	7,980	0.28
2011 <sup>f/</sup>	49,409	10,919	7,614	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. Beginning in 2000, includes catch and effort from the Astoria-Megler Bridge upstream to the new boundary from Tongue Point, Oregon to Rocky Point, Washington.

b/ Includes adults and jacks as determined by CWT analysis.

c/ 1989 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, 3,195 coho, and a catch rate of 0.47 fish per trip. Catches in this fishery were counted against the Buoy 10 quota.

d/ 1990 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, 28 coho, and a catch rate of 0.03 fish per trip.

e/ 1991 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, 1,151 coho, and a catch rate of 0.43 fish per trip.

f/ Preliminary.

TABLE B-23. Willapa Bay fall Chinook terminal run size, catch, and spawning escapement in numbers of fish.

Year or Average	Non-local Stocks	Terminal Catch		Spawning Escapement		Terminal Run Size <sup>d/</sup>
	Gillnet Catch <sup>a/</sup>	Gillnet	Sport <sup>b/</sup>	Natural <sup>c/</sup>	Hatchery	
1976-1980	8,660	14,496	419	1,995	4,529	21,439
1981-1985	1,011	7,331	589	1,588	5,398	14,906
1986-1990	2,521	18,173	1,578	5,596	22,458	47,805
1991-1995	1,162	28,082	2,823	2,818	17,086	50,809
1996	-	37,065	3,024	2,153	12,079	54,321
1997	-	12,311	2,404	3,852	13,729	32,296
1998	-	6,765	2,178	3,114	8,658	20,715
1999	-	265	1,906	1,360	6,966	10,497
2000	-	5,902	1,399	2,303	10,455	20,059
2001	-	5,444	2,121	2,161	10,099	19,825
2002	36	9,452	2,537	1,729	13,680	27,398
2003	220	7,488	3,242	2,732	14,628	28,090
2004	-	4,349	3,851	2,838	21,444	32,482
2005	-	6,523	6,630	2,510	18,177	33,840
2006	-	12,334	6,442	4,258	24,209	47,243
2007	-	4,112	2,579	2,346	13,400	22,437
2008	-	3,595	2,904	1,900	14,891	23,290
2009	-	6,868	4,552	2,847	19,831	34,098
2010 <sup>e/</sup>	-	6,903	3,217	3,395	23,468	36,983
2011 <sup>e/</sup>	1,857	17,059	NA	NA	NA	NA
GOAL				3,393 <sup>f/</sup>	9,800 <sup>g/</sup>	

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

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

c/ Escapement estimates after 1984 are based on revised spawning habitat estimates. Natural = adult returns assumed to be from natural origin parents.

d/ Does not include catch of non-local stocks.

e/ Preliminary.

f/ MSY spawning escapement objective established in FMP Amendment 16; previously a WDFW goal of 4,350.

g/ WDFW goal; not an FMP goal.

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

Year or Average	Terminal Catch		Spawning Escapement		Terminal Run Size <sup>d/</sup>
	Gillnet	Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery <sup>c/</sup>	
1976-1980	15,011	2,842	5,800	14,328	37,981
1981-1985	39,007	2,181	3,567	26,640	69,968
1986-1990	69,199	2,591	NA	35,811	107,601
1991-1995	34,287	2,802	4,582	27,205	65,211
1996	38,316	4,052	15,711	69,940	128,019
1997	1,550	806	4,934	9,992	17,282
1998	13,140	852	13,807	9,701	37,500
1999	5,467	2,836	9,628	27,481	45,412
2000	10,193	1,780	23,031	34,651	69,655
2001	31,837	5,689	48,414	54,777	140,717
2002	59,435	5,683	58,703	48,984	172,805
2003	66,460	5,881	49,398	66,783	188,522
2004	16,533	2,325	38,672	19,624	77,154
2005	49,001	3,867	26,493	40,926	120,287
2006	19,948	811	12,563	7,866	41,188
2007	8,218	955	18,009	9,434	36,616
2008	16,699	1,221	16,419	11,009	45,348
2009	75,417	6,257	47,333	21,384	150,391
2010 <sup>e/</sup>	28,568	4,891	77,784	27,514	138,757
2011 <sup>e/</sup>	48,173	NA	NA	NA	NA
GOAL			13,090 <sup>f/</sup>	6,100 <sup>f/</sup>	

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

b/ Natural spawning escapement estimates were not made in 1984-1994; estimates in 1996, 1997, and 1998 do not include adult fish released upstream of hatchery racks.

c/ Hatchery rack number includes fish released upstream.

d/ Does not include natural spawning escapement between 1984 and 1994.

e/ Preliminary.

f/ WDFW goal; not an FMP goal.

TABLE B-25. Grays Harbor Chinook terminal catch, spawning escapement, and run size in numbers of fish. (Page 1 of 2)

Year or Average	Terminal Catch					Spawning Escapement		Terminal Run Size <sup>d/</sup>
	Early Non-local Catch	Non-Indian Gillnet	Treaty Indian Gillnet	Chehalis Tribal Gillnet	Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery <sup>c/</sup>	
<b>SPRING Chinook</b>								
1976-1980	-	-	-	587	e/	600	-	1,187
1981-1985	-	-	-	57	5	924	-	963
1986-1990	-	-	e/	143	6	1,875	-	2,024
1991-1995	-	-	0	94	15	1,566	-	1,675
1996	-	-	104	127	52	4,462 <sup>f/</sup>	-	4,745
1997	-	-	52	172	160	4,460 <sup>f/</sup>	-	4,844
1998	-	-	6	164	121	2,388	-	2,679
1999	-	-	3	187	76	1,285	-	1,551
2000	-	-	17	174	91	3,135	-	3,417
2001	-	-	4	210	252	2,860	-	3,326
2002	-	-	76	419	124	2,598	-	3,217
2003	-	-	68	0	131	1,904	-	2,103
2004	-	-	54	177	65	5,034	-	5,330
2005	-	-	26	439	88	2,129	-	2,682
2006	-	-	5	249	128	2,481	-	2,863
2007 <sup>g/</sup>	-	-	5	205	54	651	-	915
2008 <sup>g/</sup>	-	-	2	0	0	995	-	997
2009 <sup>g/</sup>	-	-	18	0	0	1,132	-	1,150
2010 <sup>g/</sup>	-	-	0	0	0	3,495	-	3,495
2011 <sup>g/</sup>	-	-	10	0	NA	NA	-	NA
GOAL						1,092 <sup>h/</sup>		

TABLE B-25. Grays Harbor Chinook terminal catch, spawning escapement, and run size in numbers of fish. (Page 2 of 2)

Year or Average	Terminal Catch					Spawning Escapement		Terminal Run Size <sup>d/</sup>
	Early Non-local Catch	Non-Indian Gillnet	Treaty Indian Gillnet	Chehalis Tribal Gillnet	Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery <sup>c/</sup>	
<b>FALL Chinook</b>								
1976-1980	4,433	3,642	3,108	1,006	1,128	7	413	9,303
1981-1985	602	964	3,524	465	268	10	742	5,973
1986-1990	694	4,122	10,414	597	1,340	20,474	1,319	38,266 <sup>i/</sup>
1991-1995	206	5,000	7,750	901	3,794	12,044	3,006	32,496 <sup>i/</sup>
1996	148	1,441	4,068	49	7,456	16,988	4,307	34,309 <sup>i/</sup>
1997	24	2,796	6,630	311	2,687	16,342	2,416	31,183 <sup>i/</sup>
1998	5	267	4,135	0	2,912	11,476	1,921	20,711 <sup>i/</sup>
1999	0	87	1,926	1	114	9,196	1,990	13,315 <sup>i/</sup>
2000	671	647	3,289	0	1,714	8,081	1,450	15,182
2001	0	2,523	3,885	0	3,210	8,340	1,121	19,079
2002	40	26	963	0	2,955	10,621	2,006	16,570
2003	0	295	851	0	1,031	17,808	2,858	22,842
2004	0	183	3,498	476	6,158	29,461	3,584	43,360
2005	0	379	2,260	3	465	17,040	3,536	23,683
2006	0	195	3,738	0	1,635	15,955	2,845	24,368
2007 <sup>g/</sup>	0	514	2,472	19	1,719	11,264	1,072	17,060
2008 <sup>g/</sup>	0	717	1,878	72	0	13,570	1,631	17,868
2009 <sup>g/</sup>	0	1,193	2,485	0	860	7,215	1,125	12,878
2010 <sup>g/</sup>	0	1,495	3,403	0	1,995	16,951	2,217	26,061
2011 <sup>g/</sup>	0	2,121	6,402	0	NA	NA	NA	NA
GOAL						11,388 <sup>h/</sup>		

a/ Age-3 and older.

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

c/ Includes fish taken from the spawning grounds for broodstock.

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

e/ Fewer than 50 fish.

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

g/ Preliminary.

h/ MSY spawning escapement objective adopted under Amendment 16. Previous objectives of 1,400 (spring) and 14,600 (fall) were used for preseason planning in 2011.

i/ Recreational catch estimates by WDFW reflect application of catch record card bias correction factor of 0.833. Quinault Indian Nation does not believe this factor is appropriate for this fishery. Unadjusted catch estimates are 1,000 for 1987; 2,400 for 1988; 2,500 for 1989; 2,400 for 1990; 4,500 for 1991; 2,600 for 1992; 4,200 for 1993; 4,300 for 1994; 6,500 for 1995; 6,800 for 1996; 3,400 for 1997; 3,500 for 1998; and 100 for 1999; terminal run sizes would be adjusted accordingly.

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

Year or Average	Terminal Catch				Spawning Escapement <sup>b/</sup>		Terminal Run Size <sup>c/</sup>		
	Non-Indian Gillnet	Treaty Indian Gillnet	Chehalis Tribal Gillnet		Natural	Hatchery	Natural	Hatchery	Total <sup>d/</sup>
				Sport <sup>e/</sup>					
1976-1980	5,231	9,675	3,500	2,021	29,510	10,207	44,430	17,933	61,088
1981-1985	5,299	15,614	2,863	5,012	36,847	17,565	40,374	42,013	82,388
1986-1990	7,715	30,109	1,817	5,355	44,836	30,767	51,553	69,041	120,595
1991-1995	12,502	29,745	2,716	10,503	36,516	31,654	51,384	72,082	123,466
1996	10,096	51,812	2,915	20,846	63,572	49,378	87,869	110,161	198,030
1997	115	5,548	125	1,547	22,469	12,710	19,258	22,958	42,216
1998	795	13,586	361	2,123	35,551	16,228	40,398	28,702	69,100
1999	1,674	12,212	797	4,507	33,346	29,655	37,987	44,342	82,329
2000	4,995	10,947	331	5,122	38,054	29,127	43,355	40,268	83,623
2001	3,152	15,671	533	20,868	80,100	90,411	76,401	118,595	194,996
2002	6,853	14,518	797	13,083	110,066	45,300	110,969	76,108	187,077
2003	6,623	18,778	1,000	12,026	84,952	65,114	94,759	87,383	182,142
2004	5,231	17,431	4,483	9,847	60,690	47,418	64,371	80,736	145,107
2005	3,073	23,232	2,286	11,043	38,585	47,784	43,665	82,716	126,381
2006 <sup>e/</sup>	649	8,680	127	2,185	17,767	16,729	20,440	24,902	45,342
2007 <sup>e/</sup>	1,687	8,922	1,108	4,456	25,121	14,345	32,472	23,284	55,756
2008 <sup>e/</sup>	7,783	10,204	385	3,210	34,054	12,774	47,060	19,990	67,050
2009 <sup>e/</sup>	561	28,487	858	16,053	69,222	45,174	88,405	56,792	145,197
2010 <sup>e/</sup>	3,990	25,133	2,519	12,038	102,237	67,387	105,590	96,265	201,855
2011 <sup>e/</sup>	3,628	28,895	1,542	NA	NA	NA	NA	NA	NA
GOAL					24,426 <sup>f/</sup>				

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

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

c/ Terminal run size numbers from 1981 to present are under co-manager review.

d/ The combined natural and hatchery run size total may not add to the sum of the catch and escapements due to hatchery total run size including on-station and off-station escapements.

e/ Preliminary.

f/ MSY spawning escapement objective adopted under Amendment 16. Previous objective of 35,400 was used for preseason planning in 2011.

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

Year or Average	Spring/Summer Chinook <sup>a/</sup>	Fall Chinook <sup>a/</sup>	Chum	Sockeye
1976-1980	149	4,320	7,960	17,560
1981-1985	114	5,100	4,720	12,600
1986-1990	338	8,822	4,686	11,218
1991-1995	98	6,293	2,505	9,523
1996	41	5,221	594	1,244
1997	19	2,625	1,033	2,532
1998	75	6,124	4,699	3,440
1999	10	4,840	599	73
2000	0	3,421	755	0
2001	5	4,047	2,009	0
2002	36	4,542	1,151	16,939
2003	92	7,343	3,742	37,130
2004	142	10,662	2,916	6,990
2005	24	7,648	1,283	116
2006	16	7,044	862	8
2007	<20	2,126	1,173	1
2008	10	3,682	1,171	0
2009 <sup>b/</sup>	43	5,455	1,156	1,441
2010 <sup>b/</sup>	8	4,521	2,037	1,856
2011 <sup>b/</sup>	26	5,998	7,421	9,177

a/ Stock separation under review.

b/ Preliminary.



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

Year or Average	Terminal Catch <sup>a/</sup>			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport	Natural	Hatchery	Natural	Hatchery	Total
1977-1980	9,750	--	--	3,425	3,107	8,465	7,750	16,215
1981-1985	10,700	--	--	3,237	6,239	7,809	12,657	20,466
1986-1990	13,777	--	--	3,185	4,239	8,024	13,200	21,224
1991-1995	7,963	--	--	4,319	8,046	6,205	13,472	19,678
1996	10,087	--	--	13,327	9,521	18,849	13,865	32,714
1997	365	--	--	3,150	1,054	3,339	1,118	4,457
1998	5,946	--	--	3,770	3,158	7,156	5,581	12,737
1999	15,491	--	--	12,666	14,617	19,138	23,101	42,239
2000	16,194	--	--	7,421	9,481	14,559	18,099	32,658
2001	25,348	--	--	21,565	30,689	30,016	47,115	77,131
2002	19,197	--	--	12,213	16,841	16,847	30,196	47,043
2003	22,546	--	--	4,710	16,841	9,546	34,132	43,678
2004	17,055	--	--	1,404	10,321	3,377	24,821	28,198
2005	23,852	--	--	6,418	10,034	15,951	25,574	41,525
2006	9,785	336	325	1,110	3,207	3,432	11,032	14,464
2007	11,770	578	650	6,193	15,069	9,778	24,395	34,173
2008	25,227	961	978	14,920	14,959	26,544	29,774	56,318
2009 <sup>b/</sup>	54,882	2,036	2,047	33,140	23,353	48,324	66,095	114,419
2010 <sup>b/</sup>	41,726	1,449	1,450	19,445	12,785	33,945	41,445	76,854
2011 <sup>b/</sup>	38,426	NA	NA	NA	NA	NA	NA	NA
GOAL				Hatchery Production				

a/ Includes dip-in fish destined for other river systems.

b/ Preliminary.

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

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery	Natural	Hatchery	Total
1976-1980	267	18	53	851	24	1,176	37	1,078
1981-1985	243	20	27	890	52	956	74	1,209
1986-1990	646	46	67	1,527	-	2,287	-	2,287
1991-1995	64	5	10	610	-	689	-	688
1996	43	3	69	776	-	891	-	891
1997	72	10	71	540	-	693	-	693
1998	18	27	-	492	-	537	-	537
1999	12	41	-	373	-	426	-	426
2000	-	2	-	248	-	250	-	250
2001	-	17	-	548	-	565	-	565
2002	-	17	-	738	-	755	-	755
2003	-	6	-	189	-	195	-	195
2004	-	15	-	604	-	619	-	619
2005	-	8	-	298	-	306	-	306
2006	-	6	-	330	-	336	-	336
2007	-	6	-	352	-	358	-	358
2008	-	3	-	305	-	305	-	305
2009 <sup>c/</sup>	-	0	-	495	-	495	-	495
2010 <sup>c/</sup>	-	0	-	259	-	259	-	259
2011 <sup>c/</sup>	-	0	-	NA	-	NA	-	NA
GOAL				700 <sup>d/</sup>				

a/ River catch of adults.

b/ Natural escapement includes hatchery strays.

c/ Preliminary.

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

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

Average	Terminal Catch			Escapement Natural <sup>b/</sup>	Terminal Run Size		Total
	Gillnet	Ceremonial & Subsistence	River Sport <sup>a/</sup>		Natural <sup>c/</sup>	Indicator <sup>d/</sup>	
1976-1980	1,540	100	36	2,820	4,320	-	4,320
1981-1985	2,104	20	135	3,930	5,691	591	6,282
1986-1990	2,430	20	214	8,768	10,677	861	11,538
1991-1995	1,860	20	109	4,106	5,511	708	6,219
1996	1,307	20	238	4,218	4,693	1,234	5,927
1997	1,708	20	210	2,872	4,122	823	4,945
1998	804	20	347	3,859	5,009	164	5,173
1999	947	20	93	1,918	2,885	220	3,105
2000	262	20	50	3,755	3,752	395	4,147
2001	1,366	64	285	3,099	3,604	1,204	4,808
2002	2,887	69	20	2,589	4,377	1,184	5,561
2003	1,322	93	278	4,979	5,203	1,415	6,618
2004	1,228	93	370	5,105	4,778	2,019	6,797
2005	1,648	90	441	4,557	4,521	2,213	6,734
2006	1,079	57	71	3,051	3,255	1,003	4,258
2007	634	20	74	878	1,293	307	1,600
2008	1,020	41	0	3,082	3,465	692	4,157
2009	1,522	65	209	3,106	4,032	856	4,889
2010 <sup>e/</sup>	1,722	81	169	4,022	4,233	1,758	5,994
2011 <sup>e/</sup>	2,327	NA	NA	NA	NA	NA	NA
GOAL				2,500 <sup>f/</sup>			

a/ River sport catch of age-3 and older fish. The 2000 sport fishery was closed to retention of unmarked Chinook. The 2002 sport fishery was closed to Chinook retention on October 18 due to unusually low water conditions. The 2008 sport fishery was closed to the retention of Chinook. The 2009 sport fishery was closed to retention of unmarked Chinook in Queets and Salmon Rivers within Olympic National Park.

b/ Includes Indicator Stock. Estimates for years prior to 2001 assume a broodstock take of 150 as a placeholder until individual run reconstructions are complete.

c/ Includes from 100 to 200 wild Chinook captured each season near spawning grounds to be used as Indicator broodstock.

d/ This is an integrated wild/hatchery program. Broodstock are unmarked wild fish collected from river.

e/ Preliminary.

f/ Minimum. Terminal run managed at 40 percent exploitation rate of terminal run size.

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

Year or Average	Terminal Catch <sup>a/</sup>			Escapement <sup>c/</sup>			Terminal Run Size <sup>c/</sup>			
	Gillnet	Ceremonial & Subsistence	River Sport <sup>b/</sup>	Natural	Supplemental	Hatchery	Natural	Supplemental	Hatchery	Total <sup>d/</sup>
1976-1980	2,440	60	140	3,460	-	1,000	5,100	-	1,640	6,740
1981-1985	2,385	20	104	5,397	-	2,654	6,411	-	3,794	10,205
1986-1990	8,455	18	241	4,826	996	3,700	6,343	1,825	9,685	17,123
1991-1995 <sup>e/</sup>	4,423	285	273	4,943	1,024	3,455	5,967	1,167	6,927	13,828
1996	16,035	920	279	8,926	3,575	5,189	10,722	4,502	13,078	28,302
1997	3,087	222	106	1,712	e/	2,137	1,970	e/	5,029	6,999
1998	7,411	452	135	4,134	1,387	3,503	4,661	1,536	9,545	15,742
1999	3,974	381	119	4,799	519	3,551	5,054	529	7,388	12,971
2000	5,066	479	223	8,104	682	2,032	8,715	701	5,366	14,782
2001	13,722	1,287	1,554	23,871	1,082	6,508	28,368	2,293	14,193	44,854
2002	23,712	1,009	399	13,968	1,065	2,240	16,123	1,311	21,514	38,948
2003	12,693	921	743	9,846	1,081	7,002	13,224	1,343	15,544	30,111
2004 <sup>f/</sup>	8,189	657	1,287	7,484	1,225	3,985	10,030	1,673	10,395	22,098
2005 <sup>f/</sup>	20,810	989	873	6,539	432	7,843	9,658	542	26,304	36,504
2006 <sup>f/</sup>	6,190	353	52	5,626	0	2,931	6,400	0	7,101	13,501
2007	2,261	304	153	4,680	0	1,874	6,066	0	2,779	8,845
2008	4,671	356	562	4,629	0	3,461	6,221	0	5,667	11,888
2009 <sup>g/</sup>	25,004	1,680	865	9,404	0	14,151	16,909	0	30,161	47,070
2010 <sup>g/</sup>	21,138	1,387	944	11,261	0	10,326	18,900	0	20,954	39,854
2011 <sup>g/</sup>	16,638	900	NA	NA	0	NA	NA	0	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 size estimates include fish taken for hatchery brood stock.

d/ Queets stock only; does not include non-local, dip-in fish.

e/ 1991 and 1997 supplemental was included in natural escapement and run size.

f/ Escapement estimates are from non-standard methods due to poor survey conditions during the coho spawning season.

g/ Preliminary. Escapement estimates for 2009 and 2010 were under review; data for the 2011 run were being processed.

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

Year or Average	Terminal Catch <sup>a/</sup>											
	Gillnet			Ceremonial & Subsistence			River Sport <sup>b/</sup>	Escapement		Terminal Run Size		
	Natural	Hatchery	Total	Natural	Hatchery	Total		Natural	Hatchery	Natural	Hatchery	Total
1976-1980	NA	NA	640	--	--	52	84	1,040	0	1,835	0	1,835
1981-1985	NA	NA	448	--	--	30	124	1,431	50	1,944	128	2,073
1986-1990	NA	NA	1,072	--	--	33	315	2,829	34	4,043	257	4,300
1991-1995	NA	NA	432	--	--	22	273	1,268	0	1,852	156	2,008
1996	NA	NA	471	--	--	30	267	1,371	16	2,083	114	2,197
1997	NA	NA	416	--	--	57	331	1,826	0	2,582	53	2,635
1998	NA	NA	294	--	--	20	288	1,287	0	1,880	28	1,908
1999 <sup>c/</sup>	NA	NA	155	--	--	20	52	928	99	1,081	171	1,252
2000 <sup>d/</sup>	NA	NA	87	--	--	38	21	492	0	529	116	645
2001 <sup>d/</sup>	NA	NA	134	--	--	39	43	1,159	0	1,231	101	1,332
2002 <sup>e/</sup>	NA	NA	587	--	--	37	372	2,464	0	3,375	85	3,460
2003 <sup>e/</sup>	NA	NA	296	--	--	20	206	1,228	0	1,646	104	1,750
2004 <sup>e/</sup>	NA	NA	401	--	--	20	102	1,786	0	2,239	70	2,309
2005 <sup>e/</sup>	NA	NA	323	--	--	36	73	1,193	0	1,389	217	1,606
2006 <sup>e/</sup>	NA	NA	576	--	--	37	109	904	0	1,061	571	1,632
2007 <sup>e/</sup>	NA	NA	760	--	--	68	136	810	0	1,023	592	1,615
2008 <sup>d/e/</sup>	22	227	249	10	40	50	7	671	0	717	274	991
2009 <sup>d/e/</sup>	30	106	136	3	2	5	12	880	2	913	110	1,023
2010 <sup>d/e/f/</sup>	24	83	107	0	0	0	6	828	0	858	83	941
2011 <sup>d/e/f/</sup>	51	25	76	7	3	10	NA	NA	NA	NA	NA	NA
GOAL								900 <sup>g/</sup>				

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

b/ Recreational catch of adults (at least 24 inches total length); beginning in 2008, all Chinook must be marked with a healed adipose fin clip.

c/ Sport fishery closed until July 14.

d/ Sport fishery closed through August 31 to retention of wild adult spring/summer Chinook.

e/ Sport fishery open May 16 through August 31 from mouth to Willoughby Creek.

f/ Preliminary.

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

TABLE B-33. Estimated inriver run size, catch, and escapement for Hoh River fall Chinook in numbers of fish.

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery	Natural <sup>b/</sup>	Hatchery	Total
1976-1980	760	36	37	2,080	-	2,960	-	2,960
1981-1985	849	36	59	2,745	20	3,684	100	3,764
1986-1990	2,000	32	213	4,500	33	6,819	88	6,907
1991-1995	871	27	233	2,774	0	3,590	65	3,655
1996	836	30	192	3,022	0	4,061	19	4,080
1997	1,114	35	164	1,773	0	3,034	52	3,086
1998	846	30	268	4,257	0	5,388	13	5,401
1999	596	30	413	1,924	0	2,941	22	2,963
2000	404	20	479	1,749	0	2,632	20	2,652
2001	946	40	600	2,560	0	4,116	120	4,236
2002 <sup>c/</sup>	1,461	30	134	4,415	82	5,716	406	6,122
2003	517	30	216	1,649	32	2,345	99	2,444
2004	815	30	400	3,211	26	4,410	72	4,482
2005	970	21	229	4,180	14	5,337	77	5,414
2006	586	30	204	1,535	0	2,324	19	2,343
2007	660	30	192	1,556	0	2,427	11	2,438
2008	659	0	278	2,999	0	3,911	25	3,936
2009	553	0	134	2,081	0	2,767	21	2,788
2010 <sup>d/</sup>	342	0	297	2,599	0	3,204	34	3,238
2011 <sup>d/</sup>	528	0	NA	NA	NA	NA	NA	NA
GOAL				1,200 <sup>e/</sup>				

a/ Recreational catch of age-3 and older fish.

b/ Includes fish taken for hatchery brood stock.

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

d/ Preliminary.

e/ Minimum. Terminal run managed for a maximum 40 percent harvest rate of inriver run size.

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

Year or Average	Terminal Catch <sup>a/</sup>			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport <sup>b/</sup>	Natural <sup>c/</sup>	Hatchery	Natural <sup>c/</sup>	Hatchery	Total
1976-1980	1,960	74	28	2,700	39	4,683	259	4,942
1981-1985	1,604	48	22	3,371	92	4,655	452	5,107
1986-1990	2,507	30	165	3,145	238	5,221	760	5,981
1991-1995	801	26	168	3,078	122	3,816	379	4,195
1996	972	50	101	4,858	0	5,835	146	5,981
1997 <sup>d/</sup>	85	25	4	1,386	0	1,449	51	1,500
1998	650	20	213	4,418	0	5,184	118	5,302
1999	1,706	25	256	4,594	0	6,293	308	6,601
2000	1,932	20	280	6,772	0	8,831	173	9,004
2001	3,909	40	786	10,773	840	14,801	1,547	16,348
2002 <sup>e/</sup>	3,114	30	401	9,009	1,922	11,254	3,222	14,476
2003	1,872	20	350	6,273	645	8,118	1,021	9,139
2004	1,255	20	437	4,702	14	6,291	137	6,428
2005	3,830	30	280	4,711	732	8,294	1,259	9,553
2006	1,313	30	108	1,282	0	2,267	466	2,733
2007	1,757	40	305	3,072	0	5,120	54	5,174
2008	1,788	4	204	2,461	67	4,308	220	4,528
2009	4,294	0	505	6,595	0	10,718	685	11,403
2010 <sup>f/</sup>	2,638	0	515	7,864	0	10,549	468	11,017
2011 <sup>f/</sup>	3,418	0	NA	NA	NA	NA	NA	NA
GOAL				2,000 to 5,000				

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

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

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

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

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

f/ Preliminary.

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

Year or Average	Terminal Catch			Escapement		Terminal Run Size		Total
	Gillnet	Ceremonial & Subsistence <sup>a/</sup>	River Sport <sup>b/</sup>	Natural <sup>c/</sup>	Hatchery <sup>d/</sup>	Natural <sup>c/</sup>	Hatchery <sup>d/</sup>	
1976-1980	2,520	20	380	2,093	800	-	-	3,698
1981-1985	700	20	48	731	260	-	-	1,164
1986-1990	1,631	22	258	1,602	1,003	3,085	2,503	4,341
1991-1995	893	25	293	1,159	832	1,444	1,758	3,202
1996	136	50	257	1,170	226	1,388	426	1,814
1997	106	50	263	890	198	1,177	305	1,482
1998	199	50	128	1,599	247	1,829	369	2,198
1999	368	50	238	713	596	818	1,147	1,965
2000	254	50	307	989	227	1,149	678	1,827
2001	330	50	353	1,225	973	1,399	1,515	2,914
2002	419	50	367	1,002	836	1,100	1,573	2,673
2003	184	50	343	1,219	1,250	1,308	1,738	3,046
2004	217	50	341	1,093	763	1,259	1,195	2,454
2005	332	3	479	876	801	1,033	1,467	2,500
2006	688	0	318	553	1,032	604	1,987	2,591
2007	800	0	180	502	1,007	568	1,921	2,489
2008	993	40	223	949	796	1,081	1,920	3,001
2009 <sup>e/</sup>	483	30	192	555	722	682	1,300	1,982
2010 <sup>e/f/</sup>	567	0	245	815	880	941	1,566	2,507
2011 <sup>e/f/</sup>	595	41	NA	600	696	806	1,236	1,932
GOAL				1,200 <sup>g/</sup>				

a/ Beginning in 2005, ceremonial and subsistence catch taken during scheduled gillnet fishery is reported as gillnet catch. Catch during designated ceremonial and subsistence fisheries is listed separately.

b/ Recreational catch of adults; mark selective for adipose fin clipped coho beginning in 2003.

c/ Natural escapement includes hatchery strays and broodstock fish.

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

e/ Preliminary.

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

g/ FMP goal is adults; WDFW goal of 1,200 includes age-3 males (jacks).



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

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence <sup>a/</sup>	River Sport <sup>b/</sup>	Natural <sup>c/</sup>	Hatchery <sup>d/</sup>	Natural <sup>c/</sup>	Hatchery <sup>d/</sup>	Total
1976-1980	2,640	20	220	4,220	144	6,540	640	7,180
1981-1985	2,075	50	131	6,282	77	8,219	305	8,525
1986-1990	5,475	50	564	12,238	112	18,004	379	18,383
1991-1995	713	50	289	5,670	11	6,705	29	6,733
1996	1,377	100	500	7,316	0	9,293	0	9,293
1997	282	50	310	5,405	0	6,047	0	6,047
1998	762	100	326	6,752	0	7,940	0	7,940
1999	1,129	100	195	3,334	0	4,758	0	4,758
2000	604	100	360	3,730	0	4,794	0	4,794
2001	1,650	100	659	5,136	0	7,545	0	7,545
2002	3,074	100	271	6,067	0	9,512	0	9,512
2003	1,345	100	626	7,398	0	9,469	23	9,492
2004	527	100	681	3,831	0	6,133	12	6,145
2005	1,414	0	499	6,406	0	8,319	32	8,351
2006	1,969	0	35	5,642	0	7,656	15	7,671
2007	905	0	166	3,066	0	4,137	0	4,137
2008	1,426	0	217	3,612	0	5,250	5	5,255
2009 <sup>e/</sup>	2,434	0	352	3,130	0	5,874	42	5,916
2010 <sup>e/f/</sup>	1,815	0	529	4,635	0	6,961	18	6,979
2011 <sup>e/f/</sup>	1,972	3	NA	3,993	0	5,927	41	5,968
GOAL				3,000 <sup>g/</sup>				

a/ Beginning in 2005, ceremonial and subsistence catch taken during scheduled gillnet fishery is reported as gillnet catch.

b/ River recreational catch of age-3 and older fish.

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

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

e/ Preliminary.

f/ Terminal run size estimates incomplete since inriver sport catch estimates were unavailable.

g/ Minimum. Terminal run managed at 40 percent harvest rate.

TABLE B-37. Estimated inriver run size, catch, and escapement for Quillayute River coho stocks in numbers of fish. (Page 1 of 2)

Year or Average	Terminal Catch <sup>a/</sup>			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence <sup>b/</sup>	River Sport <sup>c/</sup>	Natural <sup>d/</sup>	Hatchery <sup>e/</sup>	Natural <sup>d/</sup>	Hatchery <sup>e/</sup>	Total
<b>SUMMER COHO</b>								
1976-1980	5,038	56	266	1,192	4,565	1,962	9,154	11,116
1981-1985	4,062	50	105	946	2,744	2,106	5,802	7,908
1986-1990	3,204	50	94	723	4,001	1,643	6,430	8,072
1991-1995	1,286	50	191	784	6,501	989	7,823	8,812
1996	2,552	50	189	465	3,400	801	5,855	6,656
1997	70	50	14	753	1,509	798	1,598	2,396
1998	1,310	50	93	346	1,688	593	2,894	3,487
1999	945	50	292	624	7,527	723	8,715	9,438
2000	1,188	50	278	1,001	3,745	1,237	5,025	6,262
2001	2,196	50	590	961	12,993	1,841	14,949	16,790
2002	3,982	50	150	1,012	3,939	2,099	7,034	9,133
2003	2,412	50	326	505	6,539	1,472	8,360	9,832
2004	1,337	50	343	1,269	6,527	1,874	7,652	9,526
2005	10,273	0	487	1,218	7,182	2,197	16,963	19,160
2006	2,146	0	141	621	1,832	1,549	3,191	4,740
2007	645	0	200	805	4,778	1,029	5,399	6,428
2008 <sup>f/</sup>	1,313	0	198	706	6,419	971	7,665	8,636
2009 <sup>f/</sup>	3,227	0	233	1,337	8,085	2,210	10,672	12,882
2010 <sup>f/g/</sup>	890	0	NA	276	1,644	558	2,252	2,810
2011 <sup>f/g/</sup>	757	0	NA	1,644	3,800	1,991	4,210	6,201
GOAL	Hatchery Production							

TABLE B-37. Estimated inriver run size, catch, and escapement for Quillayute River coho stocks in numbers of fish. (Page 2 of 2)

Year or Average	Terminal Catch <sup>a/</sup>			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence <sup>b/</sup>	River Sport <sup>c/</sup>	Natural <sup>d/</sup>	Hatchery <sup>e/</sup>	Natural <sup>d/</sup>	Hatchery <sup>e/</sup>	Total
<b>FALL COHO</b>								
1976-1980	5,985	53	70	9,002	2,435	13,959	3,587	17,546
1981-1985	3,789	49	164	7,464	2,102	10,988	2,580	13,568
1986-1990	5,794	100	385	8,766	1,771	14,119	2,695	16,815
1991-1995	3,598	100	565	7,357	4,736	9,930	6,426	16,356
1996	8,419	100	1,336	11,009	11,515	14,596	17,783	32,379
1997	456	50	38 <sup>h/</sup>	4,623	2,645	5,021	2,791	7,812
1998	4,606	50	1,340	13,866	12,834	16,980	15,716	32,696
1999	22,946	50	1,054	9,365	13,528	19,524	27,515	47,039
2000	5,606	50	1,059	13,343	13,118	17,706	15,470	33,176
2001	23,991	50	2,620	18,876	23,892	36,714	32,715	69,429
2002	22,214	50	2,002	23,016	30,656	34,695	43,243	77,938
2003	13,949	50	2,533	14,756	13,799	25,188	19,899	45,087
2004	19,321	50	2,831	13,354	21,248	25,118	31,687	56,805
2005	29,530	0	3,420	11,501	24,137	22,125	46,463	68,588
2006	9,779	0	291	5,210	4,450	12,266	7,464	19,730
2007	10,152	0	826	6,252	5,423	10,942	11,711	22,653
2008 <sup>f/</sup>	15,722	10	511	6,947	12,098	12,979	22,309	35,288
2009 <sup>f/</sup>	37,112	0	4,620	7,863	23,373	24,653	48,315	72,968
2010 <sup>f/g/</sup>	27,127	10	NA	9,837	23,325	22,393	37,906	60,299
2011 <sup>f/g/</sup>	21,983	11	NA	9,512	22,487	20,032	33,976	54,008
GOAL	6,300-15,800							

a/ Includes dip-in fish from other systems.

b/ Beginning in 2005, ceremonial and subsistence catch taken during scheduled gillnet fishery is reported as gillnet catch. Catch during designated ceremonial and subsistence fisheries is listed separately.

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

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

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

f/ Preliminary.

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

h/ Regulations required nonretention of coho.

TABLE B-38. Estimated inriver run size, catch, and escapement for Hoko River summer/fall Chinook in numbers of fish.

Year or Average	Terminal Catch			Escapement		Terminal Run Size		
	Gillnet	Ceremonial & Subsistence	River Sport <sup>a/</sup>	Natural <sup>b/</sup>	Supplemental	Natural <sup>b/</sup>	Supplemental	Total
1991-1995	-	-	5	362	432	362	432	795
1996	-	-	4	435	830	435	830	1,265
1997	-	-	8	365	529	365	529	894
1998	-	-	-	705	1,017	705	1,017	1,722
1999	-	-	-	734	954	734	954	1,688
2000	-	-	-	294	437	294	437	731
2001	-	-	-	496	450	496	450	946
2002	-	-	-	192	488	192	488	680
2003	-	-	-	402	696	402	696	1,098
2004	-	-	-	266	820	266	820	1,086
2005	-	-	-	72	212	72	212	284
2006	-	-	-	172	723	172	723	895
2007	-	-	-	251	317	251	317	568
2008	-	-	-	106	377	106	377	483
2009 <sup>c/</sup>	-	-	-	28	347	28	347	375
2010 <sup>c/</sup>	-	-	-	322	471	322	471	793
2011 <sup>c/</sup>	-	-	-	1,081	423	1,081	423	1,504
GOAL				850 <sup>d/</sup>	200 <sup>e/</sup>			

a/ River recreational catch of age-3 and older fish.

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

c/ Preliminary.

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

d/ Goal in terms of naturally spawning fish and includes supplementation production

e/ Not an FMP goal.

TABLE B-39. Puget Sound commercial net and troll fishery salmon catches in numbers of fish.<sup>a/</sup> (Page 1 of 2)

Year or Average	Fishery	Chinook	Coho	Pink <sup>b/</sup>	Chum	Sockeye
1971-1975	Non-Indian	105,332	525,867	1,172,614	331,029	2,158,784
	Treaty Indian	57,672	224,743	61,818	78,266	38,225
	Total	163,005	750,610	1,234,433	409,295	2,197,009
1976-1980	Non-Indian	103,546	413,583	1,050,560	407,859	1,095,603
	Treaty Indian	135,592	492,549	185,831	296,057	277,771
	Total	239,138	906,132	1,236,391	703,916	1,373,374
1981-1985	Non-Indian	72,934	346,125	1,154,851	368,762	928,477
	Treaty Indian	155,966	608,241	829,340	387,951	912,408
	Total	228,899	954,366	1,984,191	756,713	1,840,885
1986-1990	Non-Indian	57,550	470,494	509,445	540,843	964,690
	Treaty Indian	176,966	812,712	590,138	662,215	1,028,361
	Total	234,516	1,283,206	1,099,583	1,203,058	1,993,051
1991-1995	Non-Indian	17,519	74,371	784,067	523,396	735,834
	Treaty Indian	82,513	316,784	832,948	607,028	741,058
	Total	100,033	391,155	1,617,015	1,130,424	1,476,892
1996-2000	Non-Indian	12,870	15,204	174,163	307,799	240,088
	Treaty Indian	64,442	184,866	211,946	210,140	321,849
	Total	77,311	200,071	386,109	517,939	561,937
2001	Non-Indian	18,029	28,299	463,083	824,328	85,112
	Treaty Indian	109,865	366,011	319,553	777,019	170,309
	Total	127,894	394,310	782,636	1,601,347	255,421
2002 <sup>c/</sup>	Non-Indian	17,628	24,459	7	1,117,666	141,456
	Treaty Indian	98,251	286,500	327	833,497	339,773
	Total	115,879	310,959	334	1,951,163	481,229

TABLE B-39. Puget Sound commercial net and troll fishery salmon catches in numbers of fish.<sup>a/</sup> (Page 2 of 2)

Year or Average	Fishery	Chinook	Coho	Pink <sup>b/</sup>	Chum	Sockeye
2003 <sup>c/</sup>	Non-Indian	8,567	18,105	683,393	764,132	90,618
	Treaty Indian	84,680	244,091	556,943	814,212	183,670
	Total	93,247	262,196	1,240,336	1,578,344	274,288
2004 <sup>c/</sup>	Non-Indian	5,042	39,481	4	1,174,295	81,031
	Treaty Indian	99,741	529,668	712	934,155	137,699
	Total	104,783	569,149	716	2,108,450	218,730
2005 <sup>c/</sup>	Non-Indian	6,236	19,694	144,567	383,127	65,931
	Treaty Indian	86,071	296,637	243,012	351,416	141,747
	Total	92,307	316,331	387,579	734,543	207,678
2006 <sup>c/</sup>	Non-Indian	13,300	9,827	6	877,791	223,908
	Treaty Indian	134,604	292,448	613	628,271	543,546
	Total	147,904	302,275	619	1,506,062	767,454
2007 <sup>c/</sup>	Non-Indian	6,785	13,435	200,687	680,385	6,266
	Treaty Indian	120,247	209,677	301,846	782,678	6,327
	Total	127,032	223,112	502,533	1,463,063	12,593
2008 <sup>c/</sup>	Non-Indian	6,103	6,464	14	449,348	16,319
	Treaty Indian	103,295	227,459	744	575,727	44,865
	Total	109,398	233,923	758	1,025,075	61,184
2009 <sup>c/</sup>	Non-Indian	2,753	20,091	2,789,870	294,841	1,605
	Treaty Indian	87,350	259,634	1,947,980	355,615	2,949
	Total	90,103	279,725	4,737,850	650,456	4,554
2010 <sup>c/</sup>	Non-Indian	7,922	18,220	309	416,252	749,668
	Treaty Indian	87,882	154,884	1,828	557,910	1,165,605
	Total	95,804	173,104	2,137	974,162	1,915,273
2011 <sup>c/</sup>	Non-Indian	10,097	28,821	2,266,672	463,116	86,908
	Treaty Indian	100,515	222,483	2,267,080	580,228	198,832
	Total	110,612	251,304	4,533,752	1,043,344	285,740

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

b/ Odd-year averages for pink salmon.

c/ Preliminary.

TABLE B-40. Summary of Puget Sound marine recreational salmon catch estimates in numbers of fish from catch record cards.<sup>a/</sup>

Year or Average	Chinook	Coho	Pink <sup>b/</sup>
1971-1975	225,650	119,301	14,855
1976-1980	253,763	202,983	47,029
1981-1985	156,183	196,632	14,910
1986-1990	127,860	251,087	40,884
1991-1995	77,310	137,637	71,030
1996	72,069	85,139	50
1997	60,425	137,571	35,197
1998	26,114	89,520	201
1999	28,739	22,055	23,780
2000	23,679	74,934	17
2001	44,422	193,454	117,367
2002	30,743	66,576	31
2003	30,349	92,114	143,248
2004	26,727	83,708	138
2005	22,879	58,309	68,546
2006	28,582	26,688	19
2007	48,726	65,306	93,251
2008	31,092	23,794	4
2009	31,685	75,684	156,901
2010 <sup>c/</sup>	37,073	27,654	32
2011 <sup>c/</sup>	NA	NA	NA

a/ WDFW Statistical Areas 5 through 13, which include the Strait of Juan de Fuca, San Juan Islands, and inner Puget Sound. 1981-1987: Adjusted all Puget Sound and freshwater estimates by 0.833, due to previous estimates being 20% too high. 1988: Area 5, no adjustment. Areas 6-13 adjusted by 0.633, due to estimates being 58% too high. 1989-Present: Area 5, no adjustment. Areas 6-13 adjusted by 0.685, due to estimates being 46% too high. 1991, 1992, and 1993 catch record card estimates adjusted for results of 1987-1990 WDFW/tribal sports emphasis study.

b/ Odd-year averages for pink salmon.

c/ Preliminary.

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

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>c/</sup>		
	Hatchery	Natural <sup>b/</sup>	Total	Hatchery	Natural <sup>b/</sup>	Total	Hatchery	Natural <sup>b/</sup>	Total
<b>Strait of Juan de Fuca</b>									
1981-1985	57	126	183	811	1,450	2,261	868	1,576	2,444
1986-1990	136	456	591	1,276	4,755	6,031	1,411	5,211	6,622
1991-1995	69	109	178	979	2,390	3,369	1,048	2,499	3,547
1996-2000	8	16	24	1,193	2,236	3,429	1,201	2,252	3,453
2001	4	5	9	1,660	1,947	3,607	1,664	1,952	3,616
2002	5	7	12	1,558	2,182	3,740	1,563	2,189	3,752
2003	7	16	23	1,258	2,787	4,045	1,265	2,803	4,068
2004	6	17	23	1,364	4,033	5,397	1,370	4,050	5,420
2005	6	9	15	1,401	2,083	3,484	1,407	2,092	3,499
2006	8	15	23	1,234	3,145	4,379	1,242	3,160	4,402
2007	3	4	7	769	1,353	2,122	772	1,357	2,129
2008	12	23	35	683	1,182	1,865	695	1,205	1,900
2009	1	10	11	1,530	1,254	2,784	1,531	1,264	2,795
2010 <sup>d/</sup>	11	72	83	737	2,518	3,255	748	2,590	3,338
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						5,300			
<b>Nooksack-Samish</b>									
1981-1985	54,054	33,567	87,621	16,083	6,541	22,623	70,137	40,107	110,244
1986-1990	38,058	26,273	64,330	10,729	4,127	14,856	48,786	30,400	79,186
1991-1995	18,245	2,302	20,548	8,646	740	9,386	26,891	3,042	29,933
1996-2000	20,298	4,662	24,960	8,263	2,611	10,874	28,561	7,274	35,834
2001	21,205	28,241	49,446	6,306	9,876	16,182	27,511	38,117	65,628
2002	10,313	28,421	38,734	4,325	13,593	17,918	14,638	42,014	56,652
2003	6,660	12,200	18,860	3,356	7,864	11,220	10,016	20,064	30,080
2004	4,822	5,814	10,636	3,097	4,325	7,422	7,919	10,139	18,058
2005	8,398	3,973	12,371	2,461	1,655	4,116	10,859	5,628	16,487
2006	16,193	9,189	25,382	3,857	2,699	6,556	20,050	11,888	31,938
2007	9,870	7,679	17,549	4,453	4,535	8,988	14,323	12,214	26,537
2008	13,577	5,772	19,349	6,271	3,516	9,787	19,848	9,288	29,136
2009	4,974	6,377	11,351	3,494	6,054	9,548	8,468	12,431	20,899
2010 <sup>d/</sup>	23,275	1,186	24,461	15,873	865	16,738	39,148	2,051	41,199
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						1,800			



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

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>c/</sup>		
	Hatchery	Natural <sup>b/</sup>	Total	Hatchery	Natural <sup>b/</sup>	Total	Hatchery	Natural <sup>b/</sup>	Total
<b>Skagit</b>									
1981-1985	595	9,162	9,757	787	11,109	11,896	1,382	20,271	21,653
1986-1990	251	4,043	4,294	815	12,452	13,267	1,066	16,495	17,561
1991-1995	463	1,583	2,046	2,402	6,280	8,682	2,865	7,863	10,728
1996-2000	10	445	455	316	10,390	10,705	326	10,835	11,161
2001	3	249	252	150	13,793	13,943	153	14,042	14,195
2002	2	324	326	101	19,591	19,692	103	19,915	20,018
2003	10	323	333	298	9,777	10,075	308	10,100	10,408
2004	5	557	562	226	23,553	23,779	231	24,110	24,341
2005	41	2,576	2,617	331	20,803	21,134	372	23,379	23,751
2006	30	1,696	1,726	368	20,768	21,136	398	22,464	22,862
2007	54	1,658	1,712	370	11,281	11,651	424	12,939	13,363
2008	47	3,315	3,362	164	11,664	11,828	211	14,979	15,190
2009	57	5,142	5,199	77	6,955	7,032	134	12,097	12,231
2010 <sup>d/</sup>	17	1,939	1,956	70	8,017	8,087	87	9,956	10,043
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						14,900			
<b>Hood Canal</b>									
1981-1985	4,918	3,649	8,567	3,787	2,038	5,824	8,705	5,686	14,391
1986-1990	10,493	4,938	15,432	6,189	2,006	8,195	16,682	6,944	23,626
1991-1995	1,830	1,021	2,851	3,946	1,408	5,355	5,776	2,430	8,206
1996-2000	3,626	82	3,708	11,002	1,606	12,608	14,629	1,688	16,317
2001 <sup>d/</sup>	9,135	913	10,048	13,042	3,002	16,044	22,177	3,915	26,092
2002 <sup>d/</sup>	14,851	220	15,071	13,451	1,725	15,176	28,302	1,945	30,247
2003 <sup>d/</sup>	17,656	207	17,863	13,643	1,512	15,155	31,299	1,719	33,018
2004 <sup>d/</sup>	14,082	910	14,992	15,666	3,663	19,329	29,748	4,573	34,321
2005 <sup>d/</sup>	31,048	1,041	32,089	19,782	2,875	22,657	50,830	3,916	54,746
2006 <sup>d/</sup>	22,475	894	23,369	15,750	1,549	17,299	38,225	2,443	40,668
2007 <sup>d/</sup>	15,265	384	15,649	16,232	663	16,895	31,497	1,047	32,544
2008 <sup>d/</sup>	15,932	881	16,813	14,814	1,439	16,253	30,746	2,320	33,066
2009 <sup>d/</sup>	20,521	984	21,505	15,271	1,224	16,495	35,792	2,208	38,000
2010 <sup>d/</sup>	27,631	773	28,404	13,957	1,341	15,298	41,588	2,114	43,702
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						3,400			

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

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>c/</sup>		
	Hatchery	Natural <sup>b/</sup>	Total	Hatchery	Natural <sup>b/</sup>	Total	Hatchery	Natural <sup>b/</sup>	Total
<b>Stillaguamish-Snohomish<sup>e/</sup></b>									
1981-1985	3,894	6,917	10,811	1,990	4,901	6,891	5,884	11,818	17,702
1986-1990	3,370	4,241	7,612	1,148	5,210	6,358	4,519	9,451	13,970
1991-1995	3,688	1,966	5,654	2,253	4,371	6,624	5,941	6,337	12,278
1996-2000	10,193	54	10,247	5,543	6,813	12,357	15,737	6,867	22,603
2001	5,115	293	5,408	872	9,513	10,385	5,987	9,806	15,793
2002	5,193	58	5,251	2,542	8,808	11,350	7,735	8,866	16,601
2003	8,796	145	8,941	5,655	6,435	12,090	14,451	6,580	21,031
2004	5,747	103	5,850	6,124	12,112	18,236	11,871	12,215	24,086
2005	7,370	241	7,611	3,592	5,447	9,039	10,962	5,688	16,650
2006	4,016	194	4,210	4,017	9,562	13,579	8,033	9,756	17,789
2007	3,380	28	3,408	6,222	4,769	10,991	9,602	4,797	14,399
2008	1,518	144	1,662	5,720	10,155	15,875	7,238	10,299	17,537
2009	1,309	173	1,482	2,422	3,291	5,713	3,731	3,464	7,195
2010 <sup>d/</sup>	2,634	552	3,186	3,273	5,218	8,491	5,907	5,770	11,677
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						7,300			
<b>South Puget Sound</b>									
1981-1985	25,101	9,101	34,201	23,341	6,371	29,712	48,442	15,472	63,913
1986-1990	25,697	20,036	45,733	36,998	18,108	55,106	62,695	38,144	100,839
1991-1995	19,388	13,071	32,460	30,556	14,488	45,044	49,944	27,559	77,504
1996-2000	14,208	10,049	24,257	37,032	27,268	64,301	51,241	37,317	88,558
2001	21,603	18,557	40,160	55,026	42,069	97,095	76,629	60,626	137,255
2002	22,549	15,845	38,394	46,744	41,135	87,879	69,293	56,980	126,273
2003	23,916	13,122	37,038	33,234	25,457	58,691	57,150	38,579	95,729
2004	20,860	15,403	36,263	45,760	26,864	72,624	66,620	42,267	108,887
2005	21,825	6,496	28,321	52,049	12,540	64,589	73,874	19,036	92,910
2006	40,430	14,284	54,714	63,541	22,691	86,232	103,971	36,975	140,946
2007	64,716	13,720	78,436	75,549	16,389	91,938	140,265	30,109	170,374
2008	43,567	16,559	60,126	47,042	15,659	62,701	90,609	32,218	122,827
2009	33,348	5,302	38,650	39,336	7,955	47,291	72,684	13,257	85,941
2010 <sup>d/</sup>	32,816	5,774	38,589	50,076	8,165	58,241	82,892	13,939	96,830
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						34,900			

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

b/ Includes estimated off-station returns.

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

d/ Preliminary.

e/ Since 1999, numbers include Tulalip hatchery returns, which are not added into escapement since no broodstock is taken at the hatchery.

TABLE B-42. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound coho stocks.<sup>a/</sup> (Page 1 of 4)

Year or Average	Commercial Net Catches <sup>c/</sup>			Spawning Escapement			Terminal Run Size <sup>c/</sup>		
	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total
<b>Strait of Juan de Fuca</b>									
1981-1985	15,822	2,907	18,729	9,300	5,960	15,260	25,122	8,867	33,989
1986-1990	5,956	2,301	8,258	2,913	6,920	9,833	8,869	9,221	18,091
1991-1995	1,872	286	2,158	4,316	4,810	9,126	6,188	5,096	11,284
1996-2000 <sup>d/</sup>	4,117	811	4,928	10,276	12,951	23,227	15,355	13,999	29,354
2001 <sup>d/</sup>	10,694	2,727	13,421	24,768	35,274	60,042	41,381	39,552	80,933
2002 <sup>d/</sup>	7,680	1,882	9,562	10,398	22,375	32,773	19,894	24,663	44,557
2003 <sup>d/</sup>	2,908	1,100	4,008	15,004	20,992	35,996	18,742	22,311	41,053
2004 <sup>d/</sup>	3,612	862	4,474	5,461	20,986	26,447	9,956	22,194	32,150
2005 <sup>d/</sup>	3,295	762	4,057	4,123	11,102	15,225	8,195	12,052	20,247
2006 <sup>d/</sup>	845	220	1,065	596	3,940	4,536	1,665	4,224	5,889
2007 <sup>d/</sup>	2,589	887	3,476	2,026	8,045	10,071	5,148	9,099	14,247
2008 <sup>d/</sup>	663	169	832	692	3,339	4,031	1,373	3,511	4,884
2009 <sup>d/</sup>	6,876	0	6,876	12,973	14,957	27,930	20,786	14,957	35,743
2010 <sup>d/</sup>	2,521	75	2,596	4,286	19,282	23,568	6,583	20,037	26,620
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						7,000-11,000			
<b>Nooksack-Samish</b>									
1981-1985	122,433	17,539	139,972	27,720	7,700	35,420	150,153	25,239	175,392
1986-1990	140,733	21,839	162,572	23,087	8,020	31,107	163,821	29,859	193,680
1991-1995	48,056	13,878	61,934	19,793	10,835	30,629	67,849	24,713	92,563
1996-2000 <sup>d/</sup>	36,169	5,272	41,441	36,920	7,611	44,530	75,056	13,577	88,633
2001 <sup>d/</sup>	49,326	25,816	75,142	49,788	27,512	77,300	102,822	55,103	157,925
2002 <sup>d/</sup>	34,705	16,746	51,451	45,161	20,313	65,474	81,534	38,996	120,530
2003 <sup>d/</sup>	34,084	9,281	43,365	35,482	14,168	49,650	71,216	23,914	95,130
2004 <sup>d/</sup>	70,851	18,771	89,622	27,625	11,591	39,216	99,330	30,671	130,001
2005 <sup>d/</sup>	20,080	15,496	35,576	25,211	2,187	27,398	46,014	17,934	63,948
2006 <sup>d/</sup>	16,932	4,846	21,778	8,533	845	9,378	25,644	5,966	31,610
2007 <sup>d/</sup>	19,724	15,123	34,847	14,782	11,205	25,987	35,274	26,578	61,852
2008 <sup>d/</sup>	26,260	2,858	29,118	6,067	990	7,057	32,612	4,055	36,667
2009 <sup>d/</sup>	39,194	5,038	44,232	12,000	2,085	14,085	51,519	7,302	58,821
2010 <sup>d/</sup>	58,127	38,714	96,841	15,384	24,582	39,966	74,396	63,570	137,966
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				17,900					

TABLE B-42. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound coho stocks. <sup>a/</sup>  
(Page 2 of 4)

Year or Average	Commercial Net Catches <sup>c/</sup>			Spawning Escapement			Terminal Run Size <sup>c/</sup>		
	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total
<b>Skagit</b>									
1981-1985	6,619	8,858	15,477	21,740	19,800	41,540	28,359	28,658	57,017
1986-1990	5,309	11,448	16,757	13,861	25,800	39,661	19,170	37,248	56,418
1991-1995	1,338	1,739	3,077	11,082	14,240	25,322	12,420	15,979	28,399
1996-2000 <sup>d/</sup>	738	5,909	6,647	10,166	42,139	52,306	11,251	50,571	61,822
2001 <sup>d/</sup>	1,658	17,933	19,591	16,852	87,017	103,869	20,390	115,647	136,037
2002 <sup>d/</sup>	2,204	11,742	13,946	19,098	55,968	75,066	22,241	70,754	92,995
2003 <sup>d/</sup>	3,803	19,034	22,837	8,587	88,712	97,299	13,098	114,384	127,482
2004 <sup>d/</sup>	7,493	27,884	35,377	11,822	118,490	130,312	19,844	151,013	170,857
2005 <sup>d/</sup>	3,249	16,054	19,303	12,139	34,713	46,852	16,086	53,080	69,166
2006 <sup>d/</sup>	1,148	4,288	5,436	1,927	7,702	9,629	3,276	12,797	16,073
2007 <sup>d/</sup>	1,833	15,098	16,931	11,536	51,972	63,508	14,276	71,159	85,435
2008 <sup>d/</sup>	1,781	6,856	8,637	11,062	24,093	35,155	13,342	32,036	45,378
2009 <sup>d/</sup>	1,947	7,572	9,519	11,018	60,798	71,816	13,720	72,677	86,397
2010 <sup>d/</sup>	2,062	23,062	25,124	4,570	31,090	35,660	6,994	56,616	63,610
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL	14,875-25,000								
<b>Hood Canal</b>									
1981-1985	36,470	21,180	57,650	19,020	23,589	42,609	55,490	44,769	100,259
1986-1990	42,838	21,862	64,699	14,711	18,328	33,039	57,549	40,190	97,738
1991-1995	13,334	673	14,007	14,792	30,048	44,840	28,126	30,721	58,847
1996-2000 <sup>d/</sup>	5,969	6,841	12,810	23,067	55,411	78,478	30,110	62,967	93,077
2001 <sup>d/</sup>	10,320	10,342	20,662	39,237	94,579	133,816	68,478	110,005	178,483
2002 <sup>d/</sup>	9,759	8,382	18,141	39,330	69,296	108,626	58,795	81,031	139,826
2003 <sup>d/</sup>	9,625	23,788	33,413	33,221	172,345	205,566	51,243	199,871	251,114
2004 <sup>d/</sup>	19,381	67,307	86,688	27,171	146,873	174,044	55,851	219,694	275,545
2005 <sup>d/</sup>	34,877	26,835	61,712	33,991	38,066	72,057	77,655	68,303	145,958
2006 <sup>d/</sup>	24,542	34,126	58,668	3,883	13,665	17,548	32,106	49,718	81,824
2007 <sup>d/</sup>	19,357	29,356	48,713	8,540	46,658	55,198	30,222	78,586	108,808
2008 <sup>d/</sup>	27,332	12,720	40,052	8,044	11,756	19,800	38,492	25,814	64,306
2009 <sup>d/</sup>	43,391	14,167	57,558	11,421	26,927	38,348	59,148	42,418	101,566
2010 <sup>d/</sup>	15,441	8,003	23,444	8,627	4,697	13,324	25,048	12,908	37,956
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL	10,750-14,350								

TABLE B-42. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound coho stocks. <sup>a/</sup>  
(Page 3 of 4)

Year or Average	Commercial Net Catches <sup>c/</sup>			Spawning Escapement			Terminal Run Size <sup>c/</sup>		
	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total
<b>Stillaguamish</b>									
1981-1985	0	9,492	9,492	0	13,592	13,592	0	23,572	23,572
1986-1990	0	20,495	20,495	0	15,886	15,886	0	36,983	36,983
1991-1995	27	5,132	5,159	94	15,717	15,811	124	21,231	21,355
1996-2000 <sup>d/</sup>	18	1,286	1,303	35	16,770	16,806	62	19,273	19,335
2001 <sup>d/</sup>	21	3,728	3,749	100	74,773	74,873	129	81,839	81,968
2002 <sup>d/</sup>	5	2,622	2,627	60	27,305	27,365	67	30,395	30,462
2003 <sup>d/</sup>	1	1,454	1,455	24	45,691	45,715	26	49,817	49,843
2004 <sup>d/</sup>	14	7,391	7,405	128	65,228	65,356	145	73,861	74,006
2005 <sup>d/</sup>	5	2,702	2,707	44	25,141	25,185	51	29,146	29,197
2006 <sup>d/</sup>	0	2,845	2,845	0	8,549	8,549	0	11,780	11,780
2007 <sup>d/</sup>	15	3,637	3,652	160	38,732	38,892	187	45,181	45,368
2008 <sup>d/</sup>	1	2,243	2,244	5	12,938	12,943	6	15,346	15,352
2009 <sup>d/</sup>	0	2,284	2,284	0	22,179	22,179	0	27,380	27,380
2010 <sup>d/</sup>	7	568	575	71	15,172	15,243	80	16,199	16,279
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					6,100-10,000				
<b>Snohomish</b>									
1981-1985	25,601	31,346	56,947	11,767	83,460	95,227	37,914	117,513	155,426
1986-1990	48,719	75,429	124,148	26,350	94,156	120,507	75,971	173,208	249,179
1991-1995	36,652	26,247	62,900	23,634	84,503	108,137	61,054	114,178	175,232
1996-2000 <sup>d/</sup>	31,493	4,900	36,393	21,206	83,292	104,498	55,392	97,133	152,525
2001 <sup>d/</sup>	58,354	13,409	71,763	37,222	261,550	298,772	100,574	294,379	394,953
2002 <sup>d/</sup>	49,482	15,733	65,215	11,798	161,441	173,239	64,069	185,092	249,161
2003 <sup>d/</sup>	1,996	5,836	7,832	14,901	182,599	197,500	18,311	199,906	218,217
2004 <sup>d/</sup>	52,032	29,168	81,200	13,856	252,767	266,623	66,966	291,458	358,424
2005 <sup>d/</sup>	21,867	11,856	33,723	13,583	109,020	122,603	36,676	127,890	164,566
2006 <sup>d/</sup>	4,898	24,081	28,979	6,136	75,630	81,766	11,224	102,050	113,274
2007 <sup>d/</sup>	15,248	10,984	26,232	7,126	117,736	124,862	23,207	136,680	159,887
2008 <sup>d/</sup>	31,224	6,521	37,745	3,329	36,015	39,344	34,744	44,603	79,347
2009 <sup>d/</sup>	19,495	8,855	28,350	11,472	98,945	110,417	33,161	115,650	148,811
2010 <sup>d/</sup>	1,402	327	1,729	3,030	49,100	52,130	3,493	52,383	55,876
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					31,000-50,000				

TABLE B-42. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound coho stocks. <sup>a/</sup>  
(Page 4 of 4)

Year or Average	Commercial Net Catches <sup>c/</sup>			Spawning Escapement			Terminal Run Size <sup>c/</sup>		
	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total
<b>South Puget Sound</b>									
1981-1985	328,516	141,229	469,745	76,560	38,510	115,070	405,076	179,738	584,815
1986-1990	509,525	211,476	721,001	69,198	28,882	98,080	578,723	240,358	819,081
1991-1995	137,961	56,462	194,423	97,002	23,945	120,947	234,963	80,407	315,370
1996-2000 <sup>d/</sup>	57,648	29,324	86,972	73,685	28,337	102,022	140,763	62,893	203,656
2001 <sup>d/</sup>	110,328	60,548	170,876	127,179	37,688	164,867	261,942	107,969	369,911
2002 <sup>d/</sup>	96,471	34,214	130,685	115,145	18,296	133,441	223,889	55,536	279,425
2003 <sup>d/</sup>	95,300	32,510	127,810	94,890	51,654	146,544	210,062	94,350	304,412
2004 <sup>d/</sup>	172,372	48,095	220,467	133,614	43,147	176,761	317,083	98,809	415,892
2005 <sup>d/</sup>	109,652	32,146	141,798	83,761	33,620	117,381	206,249	72,449	278,698
2006 <sup>d/</sup>	114,496	29,436	143,932	47,625	21,449	69,074	166,886	55,795	222,681
2007 <sup>d/</sup>	61,483	24,192	85,675	55,407	31,224	86,631	126,413	63,775	190,188
2008 <sup>d/</sup>	98,520	13,830	112,350	52,340	17,797	70,137	156,906	35,642	192,548
2009 <sup>d/</sup>	82,117	23,638	105,755	53,969	25,997	79,966	156,534	65,754	222,288
2010 <sup>d/</sup>	17,443	7,293	24,736	20,309	10,366	30,675	40,725	19,898	60,623
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL				52,000					

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

b/ Includes estimated off-station returns.

c/ Terminal run size is defined as the run to terminal marine areas; spawning escapement plus sport and commercial net catch (inriver and terminal fishery catch). Prior to 1996, estimates are Puget Sound run size, which is defined as the run available to Puget Sound net fisheries; spawning escapement plus commercial net catch (inriver, terminal, and pre-terminal Puget Sound net fishery catch), but not including fish caught in Puget Sound troll and recreational fisheries.

d/ Preliminary.

TABLE B-43. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks.<sup>a/</sup> (Page 1 of 4)

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>c/</sup>		
	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total
<b>Strait of Juan de Fuca</b>									
1981	0	295	295	0	3,100	3,100	0	3,395	3,395
1983	0	144	144	0	5,088	5,088	0	5,232	5,232
1985	0	58	58	0	4,830	4,830	0	4,888	4,888
1987	3	158	161	47	1,956	2,003	50	2,114	2,164
1989	0	1,053	1,053	0	10,903	10,903	0	11,956	11,956
1991	0	1,129	1,129	0	9,896	9,896	0	11,025	11,025
1993	0	91	91	0	1,696	1,696	0	1,787	1,787
1995	4	262	266	100	8,254	8,354	104	8,516	8,620
1997	8	538	546	71	4,953	5,024	79	5,491	5,570
1999	0	6	6	0	7,306	7,306	0	7,312	7,312
2001	3	578	581	469	80,949	81,418	472	81,527	81,999
2003	0	282	282	0	15,148	15,148	0	15,430	15,430
2005 <sup>d/</sup>	0	241	241	0	8,688	8,688	0	8,929	8,929
2007 <sup>d/</sup>	0	147	147	0	6,251	6,251	0	6,398	6,398
2009 <sup>d/</sup>	0	2,711	2,711	0	41,533	41,533	0	44,244	44,244
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL <sup>e/</sup>	Not Agreed Upon								
<b>Nooksack-Samish</b>									
1981	0	21,659	21,659	0	26,814	26,814	0	48,473	48,473
1983	0	13,321	13,321	0	66,966	66,966	0	80,287	80,287
1985	0	6,204	6,204	0	24,914	24,914	0	31,118	31,118
1987	0	5,069	5,069	0	32,685	32,685	0	37,754	37,754
1989	237	24,727	24,964	1,200	126,006	127,206	1,437	150,733	152,170
1991	0	21,852	21,852	0	21,304	21,304	0	43,156	43,156
1993	0	4,323	4,323	0	51,680	51,680	0	56,003	56,003
1995	0	13,532	13,532	0	207,112	207,112	0	220,644	220,644
1997	0	4,152	4,152	0	26,000	26,000	0	30,152	30,152
1999	0	2,478	2,478	0	95,000	95,000	0	97,478	97,478
2001	215	13,735	13,950	3,714	226,000	229,714	3,929	239,735	243,664
2003	338	2,400	2,738	7,264	51,011	58,275	7,602	53,411	61,013
2005 <sup>d/</sup>	259	1,975	2,234	1,791	13,627	15,418	2,050	15,602	17,652
2007 <sup>d/</sup>	17	1,124	1,141	276	18,992	19,268	293	20,116	20,409
2009 <sup>d/</sup>	283	6,283	6,566	2,096	46,603	48,699	2,379	52,886	55,265
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL <sup>e/</sup>	50,000								

TABLE B-43. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks.<sup>a/</sup>  
(Page 2 of 4)

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>c/</sup>		
	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total
<b>Skagit</b>									
1981	403	150,626	151,029	268	100,268	100,536	671	250,894	251,565
1983	4	19,023	19,027	128	470,128	470,256	132	489,151	489,283
1985	9	229,993	230,002	30	710,030	710,060	39	940,023	940,062
1987	1,090	421,176	422,266	1,535	593,535	595,070	2,625	1,014,711	1,017,336
1989	8	661,061	661,069	5	401,300	401,305	13	1,062,361	1,062,374
1991	0	188,927	188,927	0	351,000	351,000	0	539,927	539,927
1993	0	180,088	180,088	0	530,000	530,000	0	710,088	710,088
1995	0	568,561	568,561	0	857,000	857,000	0	1,425,561	1,425,561
1997	0	57,710	57,710	0	60,000	60,000	0	117,710	117,710
1999	0	32,626	32,626	0	320,000	320,000	0	352,626	352,626
2001	0	206,533	206,533	0	894,061	894,061	0	1,100,594	1,100,594
2003	0	232,732	232,732	0	567,080	567,080	0	799,812	799,812
2005 <sup>d/</sup>	0	20,147	20,147	0	60,000	60,000	0	80,147	80,147
2007 <sup>d/</sup>	0	13,154	13,154	0	300,000	300,000	0	313,154	313,154
2009 <sup>d/</sup>	0	396,928	396,928	0	1,160,000	1,160,000	0	1,556,928	1,556,928
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL <sup>e/</sup>					330,000				
<b>Hood Canal</b>									
1981	380	1,241	1,621	1,557	6,551	8,108	1,937	7,792	9,729
1983	50	831	881	503	25,201	25,704	553	26,032	26,585
1985	138	2,854	2,992	1,456	64,101	65,557	1,594	66,955	68,549
1987	1,855	6,942	8,797	8,056	62,220	70,276	9,911	69,162	79,073
1989	7,799	26,946	34,745	2,500	60,970	63,470	10,299	87,916	98,215
1991	409	13,518	13,927	3,300	118,450	121,750	3,709	131,968	135,677
1993	623	1,917	2,540	11,497	35,647	47,144	12,120	37,564	49,684
1995	1,565	994	2,559	24,665	31,306	55,971	26,230	32,300	58,530
1997	2,436	910	3,346	21,493	8,363	29,856	23,929	9,273	33,202
1999	18	10	28	7,617	12,667	20,284	7,635	12,677	20,312
2001	713	703	1,416	71,539	98,338	169,877	72,252	99,041	171,293
2003	464	691	1,155	25,217	37,531	62,748	25,681	38,222	63,903
2005 <sup>d/</sup>	98	121	219	14,116	17,481	31,597	14,214	17,602	31,816
2007 <sup>d/</sup>	101	677	778	4,306	29,001	33,307	4,407	29,678	34,085
2009 <sup>d/</sup>	2,670	1,230	3,900	22,943	10,575	33,518	25,613	11,805	37,418
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL <sup>e/</sup>					Not Agreed Upon				



TABLE B-43. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks.<sup>a/</sup>  
(Page 3 of 4)

Year or Average	Commercial Net Catches			Spawning Escapement			Puget Sound Run Size <sup>c/</sup>		
	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total	Hatchery <sup>b/</sup>	Natural	Total
<b>Stillaguamish-Snohomish</b>									
1981	40	49,480	49,520	96	108,096	108,192	136	157,576	157,712
1983	51	57,452	57,503	283	324,383	324,666	334	381,835	382,169
1985	63	175,095	175,158	192	502,192	502,384	255	677,287	677,542
1987	173	111,881	112,054	418	271,418	271,836	591	383,299	383,890
1989	33	354,805	354,838	16	150,549	150,565	49	505,354	505,403
1991	139	82,150	82,289	447	260,000	260,447	586	342,150	342,736
1993	13	21,444	21,457	135	210,000	210,135	148	231,444	231,592
1995	5	33,871	33,876	26	309,600	309,626	31	343,471	343,502
1997	0	59,173	59,173	0	192,109	192,109	0	251,282	251,282
1999	0	13,443	13,443	0	461,543	461,543	0	474,986	474,986
2001	0	100,015	100,015	0	1,847,648	1,847,648	0	1,947,663	1,947,663
2003	0	187,286	187,286	0	1,577,001	1,577,001	0	1,764,287	1,764,287
2005 <sup>d/</sup>	0	19,193	19,193	0	600,124	600,124	0	619,317	619,317
2007 <sup>d/</sup>	0	54,082	54,082	0	1,383,591	1,383,591	0	1,437,673	1,437,673
2009 <sup>d/</sup>	0	706,958	706,958	0	2,882,373	2,882,373	0	3,589,331	3,589,331
2011 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL <sup>e/</sup> - Stillaguamish					155,000				
GOAL <sup>e/</sup> - Snohomish					120,000				
<b>South Puget Sound</b>									
1981	1,569	9,818	11,387	791	12,715	13,506	2,360	22,533	24,893
1983	492	11,265	11,757	149	12,200	12,349	641	23,465	24,106
1985	119	5,335	5,454	13	34,700	34,713	132	40,035	40,167
1987	15	9,386	9,401	3	42,200	42,203	18	51,586	51,604
1989	361	36,999	37,360	452	62,220	62,672	813	99,219	100,032
1991	357	5,037	5,394	346	15,950	16,296	703	20,987	21,690
1993 <sup>f/</sup>	3	2,330	2,333	21	10,619	10,640	24	12,949	12,973
1995 <sup>f/</sup>	13	5,163	5,176	84	18,278	18,362	97	23,441	23,538
1997 <sup>f/</sup>	0	449	449	0	2,965	2,965	0	3,414	3,414
1999 <sup>f/</sup>	0	80	80	12	4,670	4,682	12	4,750	4,762
2001 <sup>f/g/</sup>	5	735	740	48	16,173	16,221	53	16,908	16,961
2003 <sup>f/g/</sup>	1	5,393	5,394	68	185,277	185,345	69	190,670	190,739
2005 <sup>d/f/g/</sup>	0	3,964	3,964	0	466,435	466,435	0	470,399	470,399
2007 <sup>d/f/g/</sup>	0	19,162	19,162	0	615,678	615,678	0	634,840	634,840
2009 <sup>d/f/g/</sup>	0	462,782	462,782	0	4,091,283	4,091,283	0	4,554,065	4,554,065
2011 <sup>d/f/g/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL <sup>e/</sup>					25,000				

TABLE B-43. Puget Sound commercial net fishery catches and spawning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks.<sup>a/</sup>  
(Page 4 of 4)

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

b/ Includes estimated off-station returns.

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

d/ Preliminary.

e/ State-Tribal comanager goal; the only Council goal is for a pttal Puget Sound pink salmon spawning escapement of 900,000 natural spawners.

f/ Nisqually escapement estimate incomplete.

g/ Large runs of pinks have returned to Green River in 2001, 2003, 2005, 2007, 2009, and 2011; however, no formal escapement methodology exists, and Green River pinks are not included in the run reconstruction model. When the model is revised, pre-terminal catch estimates for all stocks will be affected.

TABLE B-44. Puget Sound spring Chinook spawning escapement estimates in numbers of adult fish.

Year or Average	Stock						
	Skagit		NF Nooksack		SF Nooksack	White River	Quilcene
	Hatchery <sup>a/</sup>	Natural	Hatchery <sup>a/</sup>	Natural <sup>b/</sup>	Hatchery/ Natural	Hatchery <sup>c/</sup>	Hatchery <sup>d/</sup>
1981-1985	49	1,408	0	152	317	70	149
1986-1990	161	1,826	0	235	280	408	125
1991-1995	815	907	770	266	222	1,065	19
1996	856	1,051	1,070	535	203	1,625	12
1997	1,059	1,041	1,663	617	180	1,609	16
1998	1,050	1,086	1,280	370	157	2,710	5
1999	3,172	471	3,992	823	166	1,550	4
2000	1,102	1,021	2,052	1,242	284	2,363	0
2001	1,566	1,856	5,363	2,185	267	5,690	0
2002 <sup>e/</sup>	1,663	1,065	5,649	3,741	289	1,780	0
2003 <sup>e/</sup>	1,545	844	5,046	2,857	204	2,760	0
2004 <sup>e/</sup>	3,107	1,575	3,501	1,719	130	1,115	0
2005 <sup>e/</sup>	2,258	1,246	1,552	2,047	120	2,061	0
2006 <sup>e/</sup>	1,487	1,896	732	1,184	355	4,321	0
2007 <sup>e/</sup>	1,931	613	505	1,438	182	8,417	0
2008 <sup>e/</sup>	1,462	1,470	1,194	1,266	443	4,278	0
2009 <sup>e/</sup>	900	978	769	1,903	45	2,640	0
2010 <sup>e/</sup>	1,371	1,361	1,252	2,044	NA	2,623	0
2011 <sup>e/</sup>	1,301	825	1,331	NA	NA	NA	0
GOAL		3,000					

a/ Hatchery escapement estimates include all rack returns (retained and released).

b/ Natural escapement estimates based on carcass counts expanded by a 3.48 multiplier developed from 5 years of redd count based estimates. Most natural spawners are hatchery fish spawning in the wild.

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

d/ Program has been discontinued.

e/ Preliminary.

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**APPENDIX C  
HISTORICAL RECORD OF OCEAN SALMON FISHERY  
REGULATIONS AND A CHRONOLOGY OF 2011 EVENTS**

**LIST OF TABLES**

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TABLE C-1. Summary of actual California commercial salmon seasons in state and federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 1 of 4)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions		
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho			
2001	OR/CA Border to Humboldt South Jetty	Sept. 1-30	-	30	-	26	-	8,000 Chinook quota, includes 2,000 guideline for CA/OR border to Humbug Mt.; 30 Chinook per vessel per day landing limit. 3,000 Chinook quota.		
	Horse Mt. to Pt. Arena	May 1-21	-	21	-	26	-			
		Sept. 1-30	-	30	-	26	-			
	Pt. Arena to Pt. Reyes	June 24-30	-	7	-	26	-			
		July 1-Sept. 30	-	92	-	27	-			
	Pt. Reyes to Pt. San Pedro	May 24-June 30	-	38	-	26	-			
		July 1-Sept. 30	-	92	-	27	-			
		Oct. 1-5, 8-12	-	10	-	27	-			
	Pt. San Pedro to Pt. Sur	May 1-June 30	-	61	-	26	-			
		July 1-Aug. 14	-	45	-	27	-			
	Pt. Sur to U.S./Mexico Border	May 1-June 30	-	61	-	26	-			
July 1-Aug. 14		-	45	-	27	-				
Sept. 11-30		-	20	-	27	-				
2002	OR/CA Border to Humboldt South Jetty	Aug. 16-30	-	15	-	26	-	3,000 Chinook quota; 40 Chinook per vessel per day landing limit. 10,000 Chinook quota; 40 Chinook per vessel per day landing limit. 10,000 Chinook quota.		
		Sept. 1-20, 26-27	-	22	-	26	-			
	Horse Mt. to Pt. Arena	July 20-23	-	4	-	26	-			
		Aug. 1-30	-	30	-	26	-			
		Sept. 1-30	-	30	-	26	-			
	Pt. Arena to U.S./Mexico Border	May 1-Sept. 30	-	153	-	26	-			
	Pt. Reyes to Pt. San Pedro	Oct. 1-4, 7-11, 14-18	-	14	-	26	-			
	2003	OR/CA Border to Humboldt South Jetty	Sept. 1-30	-	30	-	26		-	10,000 Chinook quota; 40 Chinook per vessel per day landing limit. 150 Chinook per vessel per day landing limit.
		Horse Mt. to Pt. Arena	May 1-31	-	31	-	26		-	
			July 3-14	-	12	-	26		-	
July 18-Sept. 30			-	75	-	26	-			
Pt. Arena to U.S./Mexico Border		May 1-Sept. 30	-	153	-	26	-			
Pt. Reyes to Pt. San Pedro	Oct. 1-3, 6-10, 13-17	-	13	-	26	-				

TABLE C-1. Summary of actual California commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 2 of 4)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho	
2004	OR/CA Border to Humboldt South Jetty	Sept. 1-17	-	17	-	28	-	6,000 Chinook quota; 30 Chinook per vessel per day landing limit.
	Horse Mt. to Pt. Arena	July 10-Aug. 29	-	51	-	27	-	
		Sept. 1-30	-	30	-	28	-	
	Pt. Arena to U.S./Mexico Border	May 1-June 30	-	61	-	26	-	
		July 1-Aug. 29	-	60	-	27	-	
Sept. 1-30		-	30	-	27	-		
Pt. Reyes to Pt. San Pedro	Oct. 1, 4-8, 11-15	-	11	-	26	-		
2005	OR/CA Border to Humboldt South Jetty	Sept. 3-16	-	14	-	28	-	6,000 Chinook quota; 30 Chinook per vessel per day landing limit.
	Horse Mt. to Pt. Arena	Sept. 1-30	-	30	-	27	-	
	Pt. Arena to Pigeon Pt.	July 4-Aug. 29	-	57	-	28	-	
		Sept. 1-30	-	30	-	27	-	
	Pt. Reyes to Pt. San Pedro	Oct. 3-7, 10-14	-	10	-	26	-	
	Pigeon Pt. to Pt. Sur	May 1-31	-	31	-	27	-	
		July 4-Aug. 29	-	57	-	28	-	
		Sept. 1-30	-	30	-	27	-	
	Pt. Sur to U.S./Mexico Border	May 1-June 30	-	61	-	27	-	
		July 1-Aug. 31	-	62	-	28	-	
Sept. 1-30		-	30	-	27	-		
2006	OR/CA Border to Humboldt South Jetty	Closed	-	-	-	-	-	75 Chinook per vessel per week landing limit. 75 Chinook per vessel per week landing limit.
	Horse Mt. to Pt. Arena	Sept. 1-5	-	5	-	27	-	
	Pt. Arena to Pigeon Pt.	July 26-Aug. 31	-	37	-	28	-	
		Sept. 1-30	-	30	-	27	-	
	Pt. Reyes to Pt. San Pedro	Oct. 2-6, 9-13	-	10	-	26	-	
	Pigeon Pt. to Pt. Sur	May 1-31	-	31	-	27	-	
		July 26-Aug. 31	-	37	-	28	-	
		Sept. 1-30	-	30	-	27	-	
	Pt. Sur to U.S./Mexico Border	May 1-June 30	-	61	-	27	-	
		July 1-Aug. 31	-	62	-	28	-	
Sept. 1-30		-	30	-	27	-		



TABLE C-1. Summary of actual California commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 3 of 4)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho	
2007	OR/CA Border to Humboldt South Jetty	Sept. 10-12	-	3	-	28	-	6,000 Chinook quota; 30 Chinook per vessel per day landing limit.
	Horse Mt. to Pt. Arena	April 9-13, 16-20, 23-27	-	15	-	27	-	2,000 Chinook quota; 20 Chinook per vessel per day Apr. 9-13, Apr. 16-20; 30 Chinook per vessel per day Apr. 23-27.
		Aug. 1-29	-	29	-	28	-	
		Sept. 1-30	-	30	-	27	-	
	Pt. Arena to Pigeon Pt.	May 9-31	-	23	-	27	-	
		July 1-Aug. 29	-	60	-	28	-	
		Sept. 1-30	-	30	-	27	-	
	Pt. Reyes to Pt. San Pedro	Oct. 1-5, 8-12	-	10	-	27	-	
			-					
	Pigeon Pt. to Pt. Sur	May 1-31	-	31	-	27	-	
		July 1-Aug. 29	-	60	-	28	-	
		Sept. 1-30	-	30	-	27	-	
	Pt. Sur to U.S./Mexico Border	May 1-June 30	-	61	-	27	-	
		July 1-Aug. 31	-	62	-	28	-	
Sept. 1-30		-	30	-	27	-		
2008	OR/CA Border to U.S./Mexico Border	Closed	-	-	-	-	-	
2009	OR/CA Border to U.S./Mexico Border	Closed	-	-	-	-	-	
2010	OR/CA Border to Humboldt South Jetty	Closed	-	-	-	-	-	
	Horse Mt. to Pt. Arena	July 1-4, 8-11	-	8	-	27	-	18,000 Chinook quota. 9,375 Chinook quota.
		July 15-29	-	15	-	27	-	
		Aug. 1-31	-	31	-	27	-	
	Pt. Arena to U.S./Mexico Border	July 1-4, 8-11	-	8	-	27	-	

TABLE C-1. Summary of actual California commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 4 of 4)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon- Except-Coho	All Salmon	All-Salmon- Except-Coho	All Salmon	Chinook	Coho	
2011 <sup>b/</sup>	OR/CA Border to Humboldt South Jetty	July 2-6, 9-13, 16-18	-	13	-	27	-	1,400 Chinook quota; 15 Chinook per vessel per day landing limit.
		Aug. 1-2	-	2	-	27	-	880 Chinook quota; 30 Chinook per vessel per day landing limit.
	Horse Mt. to Pt. Arena	July 23-27, July 29-Aug.29, Sept. 1-30	-	67	-	27	-	
		Pt. Arena to Pt. Sur	May 1-31, June 25-July 5 July 9-27 July 29-Sept. 30	- - - -	42 15 62	- - -	27 27 27	- - -
	Pt. Reyes to Pt. San Pedro	Oct. 3-14	-	10	-	27	-	Closed Oct. 8-9. All fish must be landed between Pt. Arena and Pigeon Pt.
	Pt. Sur to U.S./Mexico Border	May 1-31	-	31	-	27	-	
		June 1-24	-	24	-	27	-	All Salmon must be landed south of Pt. San Pedro.
		June 25-July 5	-	11	-	27	-	
		July 9-27 July 29-Aug. 29	- -	15 32	- -	27 27	- -	Closed Thursdays and Fridays.

a/ For earlier years see Review of 2004 Ocean Salmon Fisheries, Appendix C, Table C-1.

b/ For detailed regulations, including inseason adjustments, see TABLE I-1.

TABLE C-2. Summary of actual California recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 1 of 3)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions	
					Chinook	Coho		
2001	OR/CA Border to Horse Mt.	May 17-July 8	53	2	20	-	No more than 4 salmon in 7 days.	
		July 24-Sept. 3	42	2	20	-	No more than 6 salmon in 7 days.	
	Horse Mt. to Pt. Arena	Feb. 17-May 31	104	2	24	-		
		June 1-Nov. 18	171	2	20	-		
	Pt. Arena to Pigeon Pt.	Apr. 14-June 30	78	2	24	-		
		July 1-Nov. 13	136	2	20	-		
	Pigeon Pt. to U.S./Mexico Border	Mar. 31-June 30	92	2	24	-		
		July 1-Sept. 30	92	2	20	-		
	2002	OR/CA Border to Horse Mt.	May 15-June 30; July 3-4; Aug. 1- Sept. 15	95	2	20	-	No more than 6 salmon in 7 days.
Horse Mt. to Pt. Arena		Feb. 16-Apr. 30	74	2	24	-		
		May 1-July 7; July 20-Nov. 17	189	2	20	-		
Pt. Arena to Pigeon Pt.		Apr. 13-30	18	2	24	-		
		May 1-Nov. 10	194	2	20	-		
Pigeon Pt. to U.S./Mexico Border		Mar. 30-Apr. 30	32	2	24	-		
		May 1-Sept. 29	152	2	20	-		
2003	OR/CA Border to Horse Mt.	May 17-Sept. 14	121	2	20	-		
	Horse Mt. to Pt. Arena	Feb. 15-Apr. 30	75	2	24	-		
		May 1-Nov. 16	200	2	20	-		
	Pt. Arena to Pigeon Pt.	Apr. 12-30	19	2	24	-		
		May 1-Nov. 9	193	2	20	-		
	Pigeon Pt. to U.S./Mexico Border	Mar. 29-Apr. 30	33	2	24	-		
		May 1-Sept. 28	151	2	20	-		

TABLE C-2. Summary of actual California recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 2 of 3)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions
					Chinook	Coho	
<b>2004</b>	OR/CA Border to Horse Mt.	May 15-Sept. 12	121	2	20	-	
	Horse Mt. to Pt. Arena	Feb. 14-Apr. 30	77	2	24	-	
		May 1-Nov. 14	198	2	20	-	
	Pt. Arena to Pigeon Pt.	Apr. 17-30	14	2	24	-	
		May 1-Nov. 14	198	2	20	-	
Pigeon Pt. to U.S./Mexico Border	Apr. 3-30	28	2	24	-		
	May 1-Oct. 3	156	2	20	-		
<b>2005</b>	OR/CA Border to Horse Mt.	May 21-July 4; Aug. 14-Sept. 11	74	2	24	-	
	Horse Mt. to Pt. Arena	Feb. 12-July 10; July 16-17;	265	2	20	-	
		July 23-Nov. 13					
	Pt. Arena to Pigeon Pt.	Apr. 2-Nov. 13	226	2	20	-	
Pigeon Pt. to U.S./Mexico Border	Apr. 2-Sept. 25	177	2	20	-		
<b>2006</b>	OR/CA Border to Horse Mt.	May 15-July 4; Sept. 1-6	57	2	24	-	
	Horse Mt. to Pt. Arena	Feb. 18-May 31; June 1-4, 7-11,	248	2	20	-	
		14-18, 21-25, 28-30; July 1-9, 15-16, 22-23; July 26 - Nov. 12					
	Pt. Arena to Pigeon Pt.	Apr. 1-June 11; June 14-July 9; July 12-Nov. 12	222	2	20	-	April 1-30 open only inside 3nm (State waters).
	Pigeon Pt. to Pt. Sur	Apr. 1-Sept. 24	177	2	20	-	April 1-30 open only inside 3nm (State waters).
Pt. Sur to U.S./Mexico Border	Apr. 1-Sept. 24	177	2	20	-		

TABLE C-2. Summary of actual California recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 3 of 3)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions
					Chinook	Coho	
<b>2007</b>	OR/CA Border to Horse Mt.	May 5-Sept. 4	123	2	24	-	
	Horse Mt. to Pt. Arena	Feb. 17-Nov. 11	268	2	20	-	
	Pt. Arena to Pigeon Pt.	April 7-Nov. 11	219	2	20	-	
	Pigeon Pt. to U.S./Mexico Border	April 7-Oct. 7	184	2	20	-	
<b>2008</b>	OR/CA Border to Horse Mt.	Closed	-	-	-	-	
	Horse Mt. to Pt. Arena	Feb. 16-Mar. 31	45	2	20	-	
	Pt. Arena to U.S. Mexico Border	Closed	-	-	-	-	
<b>2009</b>	OR/CA Border to Horse Mt.	Aug. 29-Sept. 7	10	2	24	-	
	Horse Mt. to U.S. Mexico Border	Closed	-	-	-	-	
<b>2010</b>	OR/CA Border to Horse Mt.	May 29-Sept. 6	101	2	24	-	
	Horse Mt. to Pt. Arena	Apr. 3-30	28	2	20	-	
		May 1-Sept. 6	129	2	24	-	
	Pt. Arena to U.S./Mexico Border	Apr. 3-30	28	2	20	-	
		May 1-Sept. 6	93	2	24	-	Thurs.-Mon.
<b>2011<sup>b/</sup></b>	OR/CA Border to Horse Mt.	May 14-Sept. 5	115	2	24	-	
	Horse Mt. to Pigeon Pt.	Apr. 2-Oct. 30	212	2	24	-	
	Pigeon Pt. to U.S./Mexico Border	Apr. 2-Sept. 18	170	2	24	-	

a/ For earlier years see Review of 2004 Ocean Salmon Fisheries, Appendix C, Table C-2.

b/ For detailed regulations, including inseason adjustments, see TABLE I-3.

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 1 of 15)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>	
2001	WA/OR Border to Cape Falcon	May 1-June 15	-	46	-	28	-	
			July 20-23, 27-30	-	8	28	16	65 Chinook per open period vessel limit.
			Aug. 3-12	-	10	28	16	100 Chinook per open period vessel limit.
			Aug. 17-27	-	11	28	16	150 Chinook per open period vessel limit.
		Aug. 31-Sept. 30	-	31	28	16	No vessel landing limits.	
	Cape Falcon to Florence South Jetty	Apr. 1-July 18;	-	204	-	26	-	
		July 27-Aug. 29; Sept. 1- Oct. 31						
	Twin Rocks to Pyramid Rock Inside 3 nm (Tillamook Area)	Nov. 1-15	-	15	-	26	-	Chinook only.
	Florence South Jetty to Humbug Mt.	Apr. 1-July 9;	-	204	-	26	-	
		July 18-Aug. 29; Sept. 1- Oct. 31						
Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Nov. 1-Dec. 15	-	45	-	26	-	Chinook only.	
Humbug Mt. to OR/CA Border	May 1-31	-	31	-	26	-		
	June 3-4, 7-8, 11-12, 15-30; Aug. 1-31; Sept. 1-30	-	94	-	26	-	30 fish per day per vessel limit.	
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 13-31	-	19	-	26	-	20 fish per day per vessel limit; Chinook only.	

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 2 of 15)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>	
2002	WA/OR Border to Cape Falcon	May 1-June 7	-	38	-	28	-	
		July 1-8	-	8	-	28	-	250 Chinook per open period vessel limit.
		July 12-22	-	11	-	28	-	400 Chinook per open period vessel limit.
		July 26-31	Aug. 1-5	6	5	28	16	500 Chinook per open period vessel limit.
			Aug. 9-18	-	10	28	16	400 Chinook per open period vessel limit.
		Aug. 22-28	-	7	28	16	250 Chinook per open period vessel limit.	
	Cape Falcon to Florence South Jetty	Mar. 20-July 15; Aug. 1-29; Sept. 1- Oct. 31	-	208	-	26	-	
		Twin Rocks to Pyramid Rock Inside 3 nm (Tillamook Area)	Nov. 1-14	-	14	-	26	-
	Florence South Jetty to Humbug Mt.	Mar. 20-June 30; July 17-Aug. 29; Sept. 1- Oct. 31	-	208	-	26	-	
	Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Nov. 1-Dec. 15	-	45	-	26	-	
Humbug Mt. to OR/CA Border	Mar. 20-May 31	-	73	-	26	-		
	June 1-30; July 1-26; Aug. 1-29; Sept. 1-9	-	94	-	26	-	50 fish per trip per vessel limit.	
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 14-Nov. 3	-	21	-	26	-	25 fish per day per vessel limit; Chinook only.	

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 3 of 15)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>	
2003	WA/OR Border to Cape Falcon	May 1-June 6; June 26-30	-	42	-	28	-	
			July 3-7	-	5	28	16	75 Chinook per open period vessel limit.
			July 10-14, 17-21, 24-28; July 31- Aug. 4; Aug. 7-11, 14-18, 21-25; Aug. 27-Sept. 1; Sept. 4-8, 11-14	-	49	28	16	150 Chinook per open period vessel limit.
	Cape Falcon to Florence South Jetty	Mar. 15-Apr. 30	-	47	-	26	-	
		May 1-July 16; Aug. 1-19; Sept. 1-30 Oct. 1-31	-	126	-	27	-	
				31	-	28	-	
	Twin Rocks to Pyramid Rock Inside 3 nm (Tillamook Area)	Nov. 1-14	-	14	-	26	-	Chinook only.
	Florence South Jetty to Humbug Mt.	Mar. 15-Apr. 30	-	47	-	26	-	
		May 1-June 30; July 17-31; Aug. 11-29; Sept. 1-30 Oct. 1-31	-	125	-	27	-	
				31	-	28	-	
	Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Nov. 1-Dec. 15	-	45	-	28	-	
Humbug Mt. to OR/CA Border	Mar. 15-May 31	-	47	-	26	-		
	June 1-30; July 1-31; Aug. 1-29 Sept. 1-30	-	90	-	26	-	50 fish per trip per vessel limit.	
			30	-	28	-	65 fish per trip per vessel limit.	
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 13-Nov. 3	-	22	-	26	-	25 fish per day per vessel limit; Chinook only.	



TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 4 of 15)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>	
2004	WA/OR Border to Cape Falcon	May 1-5	-	5	-	28	-	
		May 15-18	-	4	-	28	-	125 Chinook per open period vessel limit.
		May 24-26	-	3	-	28	-	70 Chinook per open period vessel limit.
		June 26-30	-	5	-	28	-	50 Chinook per open period vessel limit.
		July 8-12	-	5	28	16	100 Chinook per open period vessel limit.	
		July 16-19, 22-26; July 29-Aug. 2; Aug. 5-9, 11-15, 18-22, 25-29	-	34	28	16	125 Chinook per open period vessel limit.	
		Sept. 1-5	-	5	28	16	125 Chinook per open period vessel limit; no coho mark restriction.	
	Cape Falcon to Florence South Jetty	Mar. 15-Apr. 30	-	47	-	26	-	
		May 1-June 30; July 7-12, 19-27; Aug. 1-14, 19-24; Sept. 1-30	-	126	-	27	-	
		Oct. 1-31	-	31	-	28	-	
		Nov. 1-14	-	14	-	26	-	Chinook only.
		Mar. 15-Apr. 30 May 1-July 6; July 13-18, 26-29; Aug. 1-8, 15-22, 26-29; Sept. 1-30	-	47 127	-	26 27	-	
	Florence South Jetty to Humbug Mt.	Oct. 1-31	-	31	-	28	-	
		Nov. 1-Dec. 15	-	45	-	28	-	
	Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Mar. 15-Apr. 30	-	47	-	26	-	
May 1-31 June 1-19; July 1-19; Aug. 1-4		-	31 42	-	27 27	-	50 fish per trip per vessel limit.	
Humbug Mt. to OR/CA Border	Sept. 1-3, 8-10, 15-30	-	22	-	28	-	65 fish per trip per vessel limit.	
	Oct. 13-Nov. 3	-	22	-	26	-	25 fish per day per vessel limit; Chinook only.	
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)								

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 5 of 15)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>	
2005	WA/OR Border to Cape Falcon	May 1-3	-	3	-	28	-	75 Chinook per open period vessel limit.
		May 6-9	-	4	-	28	-	100 Chinook per open period vessel limit.
		May 13-16; 20-26	-	11	-	28	-	125 Chinook per open period vessel limit.
		June 3-6	-	4	-	28	-	60 Chinook per open period vessel limit.
		June 26-30	-	5	-	28	-	30 Chinook per open period vessel limit.
		July 7-11;14-18 July 21-25; July 28-Aug. 1; Aug. 3- 7, 10-14, 17-22	-	10 26	-	28 28	16 16	75 Chinook per open period vessel limit. 100 Chinook per open period vessel limit.
	Cape Falcon to Florence South Jetty	Mar. 15-25; Apr. 1-15	-	26	-	27	-	
		May 1-3, 8-10, 15-17, 22-24, 29-30; June 1-30; Sept. 1-23; Oct. 1-31	-	98	-	28	-	
	Twin Rocks to Pyramid Rock Inside 3 nm (Tillamook Area)	Nov. 1-15	-	15	-	26	-	Chinook only.
	Florence South Jetty to Humbug Mt.	Mar. 15-25; Apr. 1-15	-	26	-	27	-	
		May 1-30; Sept. 1- 23; Oct. 1-31	-	84	-	28	-	
	Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Nov. 1-Dec. 15	-	45	-	28	-	
Humbug Mt. to OR/CA Border	Mar. 15-25; Apr. 1-15	-	26	-	27	-		
	Sept. 3-30	-	28	-	28	-	45 fish per day per vessel limit.	
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 13-Nov. 3	-	22	-	26	-	25 fish per day per vessel limit; Chinook only.	

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 6 of 15)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions		
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>			
2006	WA/OR Border to Cape Falcon	May 1-2	-	2	-	28	-	75 Chinook per open period vessel limit.		
		May 6-9, 13-16, 20-23, 27-30, June 3-6, 10-13	-	24	-	28	-	80 Chinook per open period vessel limit.		
		June 27-30	-	4	-	28	-	20 Chinook per open period vessel limit.		
		July 15-18, 22-25	-	-	8	-	28	16	35 Chinook and 35 coho per open period vessel limit.	
		July 29-Aug. 1	-	-	-	4	28	16	60 Chinook and 35 coho per open period vessel limit.	
		Aug. 5-7, 12-14	-	-	-	6	28	16	60 Chinook and 40 coho per open period vessel limit.	
		Aug. 19-22, 26-29; Sept. 2-5	-	-	-	12	28	16	80 Chinook and 40 coho per open period vessel limit.	
		Sept. 8-15	-	-	-	8	28	16	160 Chinook and 40 coho per open period vessel limit.	
		Cape Falcon to Florence South Jetty	June 4-7, 11-14, 18-21, 25-28; July 9-11, 16-18, 23-25; Aug. 1-3	-	-	28	-	28	-	75 Chinook per calendar week vessel limit.
			Sept. 17-30; Oct. 17-31	-	-	29	-	28	-	50 Chinook per calendar week vessel limit.
Cape Falcon to Pyramid Rock Inside 3 nm (Tillamook/Nehalem)	Sept. 1-16; Oct. 1-16	-	-	32	-	28	-	Chinook only; 50 per calendar week vessel limit.		
Twin Rocks to Pyramid Rock Inside 3 nm (Tillamook Area)	Nov. 1-15	-	-	15	-	28	-	Chinook only.		
Cape Kiwanda to Neskowin Creek Inside 3 nm (Nestucca Area)	Sept. 1-16; Oct. 1-16	-	-	32	-	28	-	Chinook only; 50 per calendar week vessel limit.		
Yaquina Head to 44°33'00" Inside 3 nm (Yaquina Area)	Sept. 1-16; Oct. 1-16	-	-	32	-	28	-	Chinook only; 50 per calendar week vessel limit.		
44°29'00" to 44°23'00" Inside 3 nm (Alsea Area)	Sept. 1-16; Oct. 1-16	-	-	32	-	28	-	Chinook only; 50 per calendar week vessel limit.		

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 7 of 15)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon- Except-Coho	All Salmon	All-Salmon- Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>	
<b>2006</b>	Florence South Jetty to Humbug Mt.	Closed	-	-	-	-	-	
Cont'd	Heceta Head to 44°00'00" Inside 3 nm (Siuslaw Area)	Sept. 1-16; Oct. 1- 16	-	32	-	28	-	Chinook only; 50 per calendar week vessel limit.
	Tahkenitch Creek to 43°37'00" Inside 30 fathoms (Umpqua Area)	Sept. 1-30	-	30	-	28	-	Chinook only; 50 per calendar week vessel limit.
	43°31'00" to Cape Arago Inside 30 fathoms (Coos Area)	Sept. 1-Oct. 16	-	46	-	28	-	Chinook only; 50 per calendar week vessel limit.
	Nesika Reef to Cape Sebastian Inside 3 nm (Rogue Area)	Sept. 1-15	-	15	-	28	-	Chinook only; 50 per calendar week vessel limit.
	Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Sept. 15-Dec. 15	-	92	-	28	-	
	Humbug Mt. to OR/CA Border	Closed	-	-	-	-	-	
	Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 13-Nov. 3	-	22	-	28	-	25 fish per day per vessel limit; Chinook only.

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 8 of 15)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions	
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>		
2007	WA/OR Border to Cape Falcon	May 1-2, 5-8	-	6	-	28	-	Per open period vessel limit of 40 Chinook.	
		May 12-15, 19-22, 26-29; June 2-5, 9-12, 16-19	-	24	-	28	-	Per open period vessel limit of 30 Chinook.	
		June 23-26	-	4	-	28	-	Per open period vessel limit of 30 Chinook.	
		July 1-3, 7-10, 14-17, 21-24, 28-31;	-	-	27	-	28	16	Per open period vessel limit of 20 Chinook.
		Aug. 4-7, 11-14 Aug. 18-21, 25-28; Sept. 1-4, 8-11, 15-16	-	-	18	-	28	16	20 Chinook and 140 coho per open period vessel limit.
	Cape Falcon to Humbug Mt.	April 10-29	-	20	-	28	-	100 Chinook per calendar week vessel limit.	
		May 1-June 30; July 11-30; Aug. 4-14, 21-24	-	96	-	28	-		
		Oct. 1-31	-	31	-	28	-	75 Chinook per calendar week vessel limit. Bandon High Spot Control Zone closed.	
		Aug. 15-20, 25-28	-	-	10	-	28	16	50 coho per calendar week vessel limit. 10,000 coho quota, no coho mark restriction.
		Sept. 10-13	-	-	4	-	28	16	150 Chinook and 50 coho per calendar week vessel limit. Remainder of 10,000 coho quota. Bandon High Spot Control Zone closed.
	Cape Falcon to Pyramid Rock Inside 3 nm (Tillamook/Nehalem Area)	Sept. 1-8, 17-30	-	22	-	28	-	Chinook only; 50 per calendar week vessel limit. 2,000 quota. Landings restricted to Garibaldi or Nehalem.	
	Twin Rocks to Pyramid Rock Inside 3 nm (Tillamook Area)	Nov. 1-15	-	15	-	28	-	Chinook only.	
	Cape Lookout to Neskowin Creek Inside 3 nm (Nestucca Area)	Sept. 1-8, 17-30	-	22	-	28	-	Chinook only; 50 per calendar week vessel limit. 1,000 quota. Landings restricted to Pacific City or Garibaldi.	
Yaquina Head to 44°33'00" Inside 3 nm (Yaquina Area)	Sept. 1-8, 17-30	-	22	-	28	-	Chinook only; 50 per calendar week vessel limit. 1,000 quota. Landings restricted to Newport or Depoe Bay.		

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon- Except-Coho	All Salmon	All-Salmon- Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>	
<b>2007</b>	44°29'00" to 44°23'00"	Sept. 1-8, 17-30	-	22	-	28	-	Chinook only; 50 per calendar week vessel limit. 2,000 quota. Landings restricted to Newport or Depoe Bay.
Cont'd	Inside 3 nm (Alsea Area)							
	Heceta Head to 44°00'00" Inside 3 nm (Siuslaw Area)	Sept. 1-8, 17-30	-	22	-	28	-	Chinook only; 50 per calendar week vessel limit. 2,000 quota. Landings restricted to Newport, Florence, Winchester Bay or Coos Bay.
	Tahkenitch Creek to 43°37'00" Inside 30 fathoms (Umpqua Area)	Sept. 1-8, 17-30	-	22	-	28	-	Chinook only; 50 per calendar week vessel limit. 500 quota. Landings restricted to Winchester Bay or Coos Bay.
	43°31'00" to Cape Arago Inside 30 fathoms (Coos Area)	Sept. 1-8, 17-30	-	22	-	28	-	Chinook only; 50 per calendar week vessel limit. 1,000 quota. Landings restricted to Coos Bay.
	Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Sept. 17-30; Nov. 1- Dec. 15	-	59	-	28	-	Landings restricted to Port Orford.
	Humbug Mt. to OR/CA Border	Apr. 10-29	-	20	-	28	-	100 fish per calendar week vessel limit.
		May 1-31	-	31	-	28	-	
		June 1-30	-	30	-	28	-	
		July 11-31	-	21	-	28	-	30 Chinook per day and 100 per calendar week vessel limit; 1,600 quota. Landings in Gold Beach, Port Orford, or Brookings only.
		Aug. 1-14	-	14	-	28	-	30 Chinook per day and 100 per calendar week vessel limit; 1,800 quota. Landings in Gold Beach, Port Orford, or Brookings only.
		Sept. 6-30	-	25	-	28	-	30 Chinook per day and 100 per calendar week vessel limit; 1,000 quota. Landings in Gold Beach, Port Orford, or Brookings only.
	Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 15-Nov. 5	-	22	-	28	-	25 fish per day per vessel limit. Landings restricted to Brookings.

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2010.<sup>a/</sup> (Page 10 of 15)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>	
2008	WA/OR Border to Cape Falcon	May 3-6, 10-13, 17-20, 24-27; May 31-June 3; June 7-10, 14-17	-	28	-	28	-	Per open period vessel limit of 50 Chinook.
		June 21-24	-	4	-	28	-	Per open period vessel limit of 35 Chinook.
		July 1-2, 5-8, 12-15, 19-22, 26-29;	-	18	28	16	Per open period vessel limit of 35 Chinook and 25 coho.	
		Aug. 2-5, 9-12, 16-19, 23-26;	-	28	28	16	Per open period vessel limit of 50 Chinook and 25 coho.	
		Aug. 30-Sept. 2; Sept. 6-9, 13-16	-	-	-	-	-	-
	Cape Falcon to OR/CA Border							
	Twin Rocks to Pyramid Rock Inside 3 nm (Tillamook Area)	Sept. 1-Nov. 15	-	76	-	28	-	500 quota; 25 Chinook per calendar week per vessel landing limit.
	Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Nov. 1-30	-	30	-	28	-	250 quota; 10 Chinook per day per vessel landing limit; landings restricted to Port Orford.
	Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 5-8, 12	-	5	-	28	-	250 quota; 10 Chinook per day per vessel limit Oct. 5-8, 5 Chinook Oct. 12. Landings restricted to Brookings.

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 11 of 15)

Year	Area	Seasons			Number of Days	Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Chinook		Chinook	Coho <sup>b/</sup>	
		2009	WA/OR Border to Cape Falcon	May 1-5, 8-12, 16-19, 23-26; May 30-June 2; June 6-9, 13-16, 20-23, 27-30		-	-	
		-	July 1-7, 11-14	-	11	28	16	Per open period vessel limit of 40 Chinook and 200 marked coho.
		-	July 18-21, 25-28; Aug. 1-4, 8-11, 15-18, 22-25; Aug. 29-Sept. 1	-	28	28	16	Per open period vessel limit of 75 Chinook and 200 marked coho.
		-	Sept. 5-8, 12-15		8	28	16	Per open period vessel limit of 75 Chinook and 100 marked coho.
	Cape Falcon to Humbug Mt.	-	-	Sept. 1-30	30	-	16	21,240 quota (non-mark-selective); 100 coho per calendar week per vessel landing limit.
	Twin Rocks to Pyramid Rock Inside 3 nm (Tillamook Area)	Sept. 1-Oct. 31	-	-	61	28	-	300 quota; 25 Chinook per calendar week per vessel landing limit; landings restricted to Garibaldi.
	Cape Blanco to Tichenor Rock (Elk River Area) Inside of a line from Cape Blanco to Black Rock to Best Rock to 42°43'48" N Lat. 124°32'08" W Long. to Tichenor Rock	Oct. 15-19	-	-	5	28	-	300 quota; 20 Chinook per day per vessel landing limit; landings restricted to Port Orford.
	Humbug Mt. to OR/CA Border	Closed	-	-	-	-	-	



TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 12 of 15)

Year	Area	Seasons			Number of Days	Minimum Size Limit (in.)		Other Restrictions	
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho		Chinook	Coho <sup>b/</sup>		
2010	WA/OR Border to Cape Falcon	May 1-June 12; June 18-22; June 25-29	-	-	43	28	-	Seven days per week, no landing limits.	
		-	July 1-6, 9-13; □	-	11	28	16	Per open period vessel limit of 40 Chinook and 30 marked coho.	
		-	July 16-20, 23-27;	-	10	28	16	Per open period vessel limit of 60 Chinook and 50 marked coho.	
		-	July 30-Aug. 3;	-	5	28	16	Per open period vessel limit of 75 Chinook and 50 marked coho.	
		-	Aug. 6-10, 13-17, 20-24, 27-31, Sept. 3-7	-	25	28	16	Per open period vessel limit of 30 Chinook and 50 marked coho.	
		-	May 1-July 6; July 9-13, 16-20, 23-27; Aug. 1-25	-	-	107	28	-	
		-	Sept. 1-Oct. 31	-	-	61	28	-	600 quota; 25 Chinook per calendar week per vessel landing limit; mandatory phone or email trip reports.
	Cape Falcon to Humbug Mt.	May 1-July 6; July 9-13, 16-20, 23-27; Aug. 1-25	-	-	107	28	-		
	Twin Rocks to Pyramid Rock Inside 3 nm (Tillamook Area)	Sept. 1-Oct. 31	-	-	61	28	-	600 quota; 25 Chinook per calendar week per vessel landing limit; mandatory phone or email trip reports.	
	Cape Blanco to Tichenor Rock (Elk River Area) Inside of a line from Cape Blanco to Black Rock to Best Rock to 42°43'48" N Lat. 124°32'08" W Long. to Tichenor Rock	Oct. 15-29	-	-	15	28	-	1,250 quota; 20 Chinook per day per vessel landing limit; mandatory phone or email trip reports.	

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 13 of 15)

Year	Area	Seasons			Number of Days	Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho		Chinook	Coho <sup>b/</sup>	
2010 Cont	Humbug Mt. to OR/CA Border	May 1-31	-	-	31	28	-	100 fish per calendar week vessel limit. Landings restricted to Gold Beach, Port Orford, or Brookings.
		July 1-31	-	-	31	28	-	1,500 quota; 30 Chinook per day and 90 per calendar week vessel limit. Landings restricted to Gold Beach, Port Orford, or Brookings; mandatory phone or email trip reports.
		Aug. 1-31	-	-	31	28	-	1,500 quota; 30 Chinook per day and 90 per calendar week vessel limit. Landings restricted to Gold Beach, Port Orford, or Brookings; mandatory phone or email trip reports.
	Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 13-15, 20	-	-	4	28	-	500 quota; 20 Chinook per day per vessel landing limit Oct 13-15, 10 per day October 20; landings restricted to Brookings; mandatory phone or email trip reports.

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 14 of 15)

Year	Area	Seasons			Number of Days	Minimum Size Limit (in.)		Other Restrictions	
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho		Chinook	Coho <sup>b/</sup>		
2011 <sup>c/</sup>	WA/OR Border to Cape Falcon	May 1-June 21; June 23-30	- -	- -	52 8	28 28	- -	Seven days per week, no landing limits. 30 Chinook per open period vessel limit.	
		-	July 1-5, 8-12; □	-	10	28	16	50 Chinook and 50 marked coho per open period vessel limit.	
		-	July 15-19, 22-26, July 29-Aug. 2, Aug. 5-9; Aug. 19;	-	20	28	16	30 Chinook and 50 marked coho per open period vessel limit.	
		-	Aug. 27-29; Sept. 3-6, 10-13	-	1 3 8	28 28 28	16 16 16	12 Chinook and 50 marked coho per open period vessel limit. 12 Chinook and 75 marked coho per open period vessel limit. 20 Chinook and 100 marked coho per open period vessel limit.	
		Cape Falcon to Humbug Mt.	Apr. 15-July 9, July 17-Aug. 31; October 1-31	- -	- -	132 31	28 28	- -	50 Chinook per calendar week vessel limit.
		Twin Rocks to Pyramid Rock Inside 3 nm (Tillamook Area)	Sept. 1-30	-	-	30	28	-	25 Chinook per day vessel limit. Landings restricted to Garibaldi.
		43°31'00" N Lat. South to 43°16'00" N Lat. inside 30 fm and 43°16'00" N Lat. South to Crooked Cr. (43°04'50" N Lat.) inside 3 nm (Coos/Coquille Area)	Sept. 1-30	-	-	30	28	-	50 Chinook per day vessel limit. Landings restricted to Coos Bay, Charleston, and Bandon.
		Cape Blanco to Humbug Mt. (Elk River Area) Inside of a line from Cape Blanco to Black Rock to Best Rock to 42°40'30" N Lat. 124°29'00" W Long. to Humbug Mt.	Nov. 1-30	-	-	30	28	-	20 Chinook per day vessel limit. Landings restricted to Port Orford.

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 15 of 15)

Year	Area	Seasons			Number of Days	Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho		Chinook	Coho <sup>b/</sup>	
2011 <sup>c/</sup> Cont	Humbug Mt. to OR/CA Border	May 1-31	-	-	31	28	-	Landings restricted to Gold Beach, Port Orford, or Brookings.
		June 1-30	-	-	30	28	-	1,500 quota; 30 Chinook per day vessel limit. Landings restricted to Gold Beach, Port Orford, or Brookings; mandatory phone or email trip reports.
		July 1-31	-	-	31	28	-	1,200 quota; 30 Chinook per day vessel limit. Landings restricted to Gold Beach, Port Orford, or Brookings; mandatory phone or email trip reports.
		Aug. 1-31	-	-	31	28	-	1,000 quota; 30 Chinook per day vessel limit. Landings restricted to Gold Beach, Port Orford, or Brookings; mandatory phone or email trip reports.
	Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 13-31	-	-	19	28	-	750 quota; 20 Chinook per day per vessel landing limit; landings restricted to Brookings; mandatory phone or email trip reports.

a/ For earlier years see Review of 2004 Ocean Salmon Fisheries, Appendix C, Table C-3.

b/ Mark selective coho fishery except for WA/OR Border to Cape Falcon in Sept. 2004, Cape Falcon to Humbug Mt. in 2007, and Cape Falcon to Humbug Mt. in 2009; otherwise all retained coho must be marked with a healed adipose fin clip.

c/ For detailed regulations, including inseason adjustments, see TABLE I-1.

TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 1 of 10)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
2001	WA/OR Border to Cape Falcon	July 1-Sept. 3	47	2	24	16	Sun.-Thurs.; no more than one Chinook.
	Closed south of Tillamook Head	Sept. 4-30	27	2	24	16	No more than one Chinook.
	Beginning Aug. 1						
	Cape Falcon to Humbug Mt.	Apr. 1-June 21; July 20-Oct. 31	186	2	20	-	All salmon except coho.
		June 22-July 19	28	2	20	16	55,000 marked coho quota.
	Tillamook Triangular Control Zone	Apr. 1-July 31	122	2	20	-	All retained Chinook must have a healed adipose fin clip.
	Marker on shore at 45°35'00" N. Lat. to #1 Green Buoy to Marker on shore at 45°32'50"N.						
	Tillamook Area	Nov. 1-15	15	2	20	-	Chinook only. Up to five jacks allowed before adult bag retained. No more than four adults in seven consecutive days and 10 adults per season.
	Twin Rocks to Pyramid Rock Inside 3 nm						
Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Nov. 1-Dec. 15	45	2	20	-	Chinook only.	
Humbug Mt. to OR/CA Border	May 17-July 8; July 24-Sept. 3	95	1	20	-	All salmon except coho.	
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 1-12	12	1	20	-	Chinook only. No more than four Chinook per season.	

TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 2 of 10)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
2002	WA/OR Border to Cape Falcon	May 25-June 16	23	2	24	-	Chinook only.
		July 7-20	10	2	24	16	Sun.-Thurs.
		July 21-Aug. 7	14	2	26	16	Sun.-Thurs.
	Closed south of Tillamook Head Beginning Aug. 1	Aug. 8-15	6	2	-	16	Sun.-Thurs.; all salmon except Chinook.
		Aug. 16-Sept. 2; Sept. 6-15	28	2	-	16	All salmon except Chinook.
	Cape Falcon to Humbug Mt.	Apr. 1-July 6; Aug. 2-Oct. 31	188	2	20	-	All salmon except coho.
		July 7-Aug. 1	26	2	20	16	22,500 marked coho quota.
	Tillamook Triangular Control Zone Marker on shore at 45°35'00" N. Lat. to #1 Green Buoy to Marker on shore at 45°32'50"N.	Apr. 1-July 31	122	2	20	-	All retained Chinook must have a healed adipose fin clip.
	Tillamook Area Twin Rocks to Pyramid Rock Inside 3 nm	Nov. 1-15	15	2	20	-	Chinook only. Up to five jacks allowed before adult bag retained. No more than four adults in seven consecutive days and 10 adults per season.
	Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Nov. 1-Dec. 15	45	2	20	-	Chinook only.
Humbug Mt. to OR/CA Border	May 15-June 30; July 3-4; Aug. 1-Sept. 15	95	2	20	-	All salmon except coho.	
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 1-13	13	1	20	-	Chinook only. No more than four Chinook per season.	

TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 3 of 10)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
2003	WA/OR Border to Cape Falcon	June 29-July 24	20	2	26	16	Sun.-Thurs.; no more than one Chinook.
	Closed south of Tillamook Head	July 25-Sept. 30	68	2	26	16	No more than one Chinook.
	Beginning Aug. 1						
	Cape Falcon to Humbug Mt.	Mar. 15-June 20; Aug. 20-Oct. 31	171	2	20	-	
		June 21-Aug. 19	60	2	20	16	88,000 marked coho quota.
	Tillamook Triangular Control Zone	Mar. 15-July 31	139	2	20	-	All retained Chinook must have a healed adipose fin clip.
	Marker on shore at 45°35'00" N. Lat. to #1 Green Buoy to Marker on shore at 45°32'50"N.						
	Tillamook Area Twin Rocks to Pyramid Rock Inside 3 nm	Nov. 1-15	15	2	20	-	Chinook only. Up to five jacks allowed before adult bag retained. No more than four adults in seven consecutive days and 10 adults per season.
Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Nov. 1-Dec. 15	45	2	20	-	Chinook only.	
Humbug Mt. to OR/CA Border	May 17-Sept. 14	121	2	20	-	All salmon except coho.	
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 1-12	12	1	20	-	Chinook only. No more than four Chinook per season.	

TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 4 of 10)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
2004	WA/OR Border to Cape Falcon	June 27-July 22	19	2	26	16	Sun.-Thurs.; no more than one Chinook.
	Closed south of Tillamook Head	July 23-Aug. 12	21	2	26	16	Two Chinook allowed.
		Aug. 1-Sept. 3	Aug. 13-Sept. 30	49	2	24	16
	Cape Falcon to Humbug Mt.	Mar. 15-June 18; Sept. 1-Oct. 31	157	2	20	-	
		June 19-Aug. 31	74	2	20	16	75,000 marked coho quota for Cape Falcon to OR/CA border.
	Tillamook Triangular Control Zone	Mar. 15-July 31	139	2	20	-	All retained Chinook must have a healed adipose fin clip.
	Twin Rocks to #1 Green Buoy to Pyramid Rock						
	Tillamook Area	Nov. 1-15	15	2	20	-	Chinook only. Up to five jacks allowed before adult bag retained. No more than four adults in seven consecutive days and 10 adults per season.
	Twin Rocks to Pyramid Rock Inside 3 nm						
Humbug Mt. to OR/CA Border	May 15-June 18; Sept. 1-12	47	2	20	-	All salmon except coho.	
	June 19-Aug. 31	74	2	20	16	75,000 marked coho quota for Cape Falcon to OR/CA border.	
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 1-12	12	1	20	-	Chinook only. No more than four Chinook per season.	



TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 5 of 10)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
2005	WA/OR Border to Cape Falcon	July 3-28	20	2	24	16	Sun.-Thurs.; no more than one Chinook.
	Closed south of Tillamook Head Beginning Aug. 1	July 29-Sept. 8; Sept. 17-30	56	2	24	16	Two Chinook allowed.
		Sept. 9-16	8	2	-	16	All salmon except Chinook.
	Cape Falcon to Humbug Mt.	Mar. 15-June 17; Aug. 1-Oct. 31	188	2	20	-	All salmon except coho.
		June 18-July 31	44	2	20	16	40,000 marked coho quota for Cape Falcon to OR/CA border.
	Tillamook Triangular Control Zone Twin Rocks to #1 Green Buoy to Pyramid Rock	Mar. 15-July 31	139	2	20	-	All retained Chinook must have a healed adipose fin clip.
	Tillamook Area Twin Rocks to Pyramid Rock Inside 3 nm	Nov. 1-15	15	2	20	-	Chinook only. No more than four adults in seven consecutive days and 10 adults per season.
	Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Nov. 1-Dec. 15	45	2	20	-	Chinook only.
	Humbug Mt. to OR/CA Border	May 21-June 17; Aug. 14-Sept. 11	57	2	24	-	All salmon except coho.
		June 18-July 4	17	2	20	16	40,000 marked coho quota for Cape Falcon to OR/CA border.
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 1-12	12	1	20	-	Chinook only. No more than four Chinook per season.	

TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 6 of 10)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
2006	WA/OR Border to Cape Falcon	July 3-Aug. 10	29	2	24	16	Sun.-Thurs.; no more than one Chinook; closed south of Tillamook Head Aug. 1-10.
		Aug. 11-Sept. 30	51	2	24	16	Two Chinook allowed; closed south of Tillamook Head Aug. 11-25.
	Cape Falcon to Humbug Mt.	Mar. 15-June 16; Aug. 1-31; Sept. 7-Oct. 31	180	2	20	-	All salmon except coho.
		June 17-July 31; Sept. 1-6	51	2	20	16	20,000 marked coho quota for Cape Falcon to OR/CA border.
	Tillamook Triangular Control Zone Twin Rocks to #1 Green Buoy to Pyramid Rock	Mar. 15-July 31	139	2	20	-	All retained Chinook must have a healed adipose fin clip.
	Tillamook Area Twin Rocks to Pyramid Rock Inside 3 nm	Nov. 1-15	15	2	20	-	Chinook only. No more than four adults in seven consecutive days and 10 adults per season.
	Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Nov. 1-Dec. 15	45	2	20	-	Chinook only.
	Humbug Mt. to OR/CA Border	May 15-June 16	33	2	24	-	All salmon except coho.
		June 17-July 4; Sept. 1-6	24	2	20	16	20,000 marked coho quota for Cape Falcon to OR/CA border.
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 1-12	12	1	20	-	Chinook only. No more than four Chinook per season.	

TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 7 of 10)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
2007	WA/OR Border to Cape Falcon	July 1 - Aug. 25; Sept. 2 - 30	85	2	24	16	No more than one Chinook.
	Cape Falcon to Humbug Mt.	Mar. 15-June 22; Sept. 17-Oct. 31	145	2	24	-	All salmon except coho.
		June 23-Sept. 16	86	2	24	16	50,000 marked coho quota for Cape Falcon to OR/CA Border.
	Tillamook Area Twin Rocks to Pyramid Rock Inside 15 fathom curve	Mar. 15-July 31	139	2	24	-	All retained Chinook must have a healed adipose fin clip.
		Nov. 1-15	15	2	24	-	Chinook only. No more than four adults in seven
	Cape Blanco to Humbug Mt. Inside 3 nm (Elk River Area)	Nov. 1-Dec. 15	45	2	24	-	All salmon except coho.
	Humbug Mt. to OR/CA Border	May 15-June 22	39	2	24	-	All salmon except coho.
		June 23-Sept. 4	74	2	24	16	50,000 marked coho quota for Cape Falcon to OR/CA Border.
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 1-14	14	1	24	-	Chinook only. No more than four Chinook per season.	
2008	WA/OR Border to Cape Falcon	June 1-20	20	1	24	-	Chinook only.
		June 21-28	8	2	24	-	Chinook only.
		June 29 - Aug. 17	36	2	24	16	Sun.-Thurs.
	Cape Falcon to OR/CA Border	June 22-Aug. 14	54	2	-	16	All salmon except Chinook; 9,000 marked coho quota.
	Tillamook Area Twin Rocks to Pyramid Rock Inside 3 nm	Sept. 1-Nov. 15	76	2	24	-	Chinook only, only one of which can be unmarked. No more than five unmarked Chinook per season.
		Nov. 1-30	30	2	24	-	Chinook only, only one of which can be unmarked. No more than five unmarked Chinook per season.
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 1-4, 11	5	1	24	-	Chinook only. No more than four Chinook per season.	

TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 8 of 10)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
2009	WA/OR Border to Cape Falcon	June 28 - July 31	34	2	24	16	No more than one Chinook.
		Aug. 1-31; Sept. 7-30	55	2	24	16	Two Chinook allowed.
	Cape Falcon to Humbug Mt.	June 20-Aug. 31	73	3	-	16	All salmon except Chinook; Cape Falcon to OR/CA Border June 20-Aug. 31; 110,000 marked coho quota.
		Sept. 1-30	30	2	-	16	All salmon except Chinook; 9,560 marked coho quota.
	Tillamook Area Twin Rocks to Pyramid Rock Inside 3 nm	Sept. 1-30	30	2	24	16	Barbless hooks required through Sept. 30. Two salmon daily, only one of which can be an unmarked Chinook. No more than five unmarked Chinook per season in the Tillamook and Elk River Zones combined.
		Oct. 1-31	31	2	-	-	
	Cape Blanco to Tichenor Rock: Inside of a line from Cape Blanco to Black Rock to Best Rock to 42°43'48" N. Lat. 124°32'08" W. Long. to Tichenor Rock (Elk River Area)	Oct. 15-Nov. 30	47	2	20	-	Chinook only; two daily, only one of which can be unmarked. No more than five unmarked Chinook per season in the Tillamook and Elk River Zones combined.
	Humbug Mt. to OR/CA Border	June 20-Aug. 28	70	2	-	16	Border June 20-Aug. 31; 110,000 marked coho quota.
		Aug. 29-31	3	2	24	16	All salmon; Cape Falcon to OR/CA Border June 20-Aug. 31; remainder of 110,000 marked coho quota.
		Sept. 1-7	7	2	24	-	All salmon except coho; Cape Falcon to OR/CA Border June 20-Aug. 31.

TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 9 of 10)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
2010	WA/OR Border to Cape Falcon	June 12-30	19	2	24	-	12,000 marked Chinook quota north of Cape Falcon to U.S./Canada border.
		July 1-7	7	2	24	16	No more than one Chinook.
		July 8-Sept. 30	85	2	24	16	Two Chinook allowed.
	Cape Falcon to OR/CA Border	May 29-June 25	28	2	24	-	All salmon except coho.
		June 26-Sept. 6	73	2	24	16	All salmon; 26,000 marked coho quota.
	Tillamook Area Twin Rocks to Pyramid Rock Inside 15 fm	May 29-July 31	64	2	24	16	Same regulations as ocean fishery above except that all retained Chinook must be marked.
	Tillamook Area Twin Rocks to Pyramid Rock Inside 3 nm	Sept. 1-6 Sept. 7- Oct. 31	6	2	24	16	Barbless hooks required through Sept. 6. Two salmon daily, only one of which can be an unmarked Chinook. No more than 10 unmarked Chinook per season.
	Cape Blanco to Humbug Mt.: Inside a line from Cape Blanco to Black Rock to Best Rock to 42°40'30" N. Lat. 124°29'00" W. Long. to Humbug Mt. (Elk River Area)	Oct. 15-Nov. 30	47	2	24	-	
	Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 1-12	12	1	24	-	No more than five Chinook per season.

TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 10 of 10)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
2011 <sup>d/</sup>	WA/OR Border to Cape Falcon	June 18-25	8	2	24	-	4,800 marked Chinook quota Cape Falcon, OR to U.S./Canada Border.
	40,600 coho quota and 7,710 Chinook guideline south of Leadbetter Pt. WA	June 26-Aug. 6	42	2	24	16	Seven days per week; no more than one Chinook.
		Aug. 7-13	7	2	24	16	Seven days per week; no more than two Chinook.
		Aug. 14-28	15	2	24	16	Seven days per week; no more than one Chinook.
		Aug. 29-Sept. 4	7	2	24	16	Seven days per week; Chinook prohibited.
		Sept. 5-30	26	2	24	16	Seven days per week; no more than one Chinook.
	Cape Falcon to Humbug Mt.	Mar. 15-July 1, Aug. 14-31, Sept. 8-30	150	2	24	-	All salmon except coho.
		July 2-Aug. 13	43	2	24	16	All salmon; 15,000 marked coho quota.
		Sept. 1-7	7	2	24	16	All salmon; 5,900 non-mark-selective coho quota.
	Tillamook Area Twin Rocks to Pyramid Rock Inside 15 fm	Mar. 15-July 31	139	2	24	16	Same regulations as ocean fishery above except that all retained Chinook must be marked.
	Tillamook Area Twin Rocks to Pyramid Rock Inside 3 nm	Sept. 8- Oct. 31	54	2	24	-	Barbless hooks required. Only one unmarked Chinook per day, no more than 10 unmarked Chinook per season.
	Cape Blanco to Humbug Mt.: Inside a line from Cape Blanco to Black Rock to Best Rock to 42°40'30" N. Lat. 124°29'00" W. Long. to Humbug Mt. (Elk River Area)	Nov. 1-30	30	2	24	-	Barbless hooks required. Only one unmarked Chinook per day, no more than 10 unmarked Chinook per season.
	Humbug Mt. to OR/CA Border	May 14-Sept. 5	114	2	24	-	
	Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 1-12	12	1	24	-	Barbless hooks required. No more than five Chinook per season.

a/ For earlier years see Review of 2004 Ocean Salmon Fisheries, Appendix C, Table C-4.

b/ Mark-selective coho fishery unless otherwise noted; all retained coho must be marked with a healed adipose fin clip except September 1-7, 2011 Cape Falcon to Humbug Mt.

c/ All seasons are seven days per week unless otherwise indicated.

d/ For detailed regulations, including inseason adjustments, see TABLE I-3.

TABLE C-5. Summary of actual Washington commercial salmon seasons in state and federal (EEZ) waters, 2001-2011. <sup>a/</sup> (Page 1 of 4)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>	
<b>2001</b>	U.S./Canada Border to WA/OR Border	May 1-June 15	-	46	-	28	-	
		-	July 20-23, 27-30	-	8	28	16	65 Chinook per open period vessel limit.
		-	Aug. 3-12	-	10	28	16	100 Chinook per open period vessel limit.
		-	Aug. 17-27	-	11	28	16	150 Chinook per open period vessel limit.
		-	Aug. 31-Sept. 30	-	31	28	16	No Chinook limit.
<b>2002</b>	U.S./Canada Border to WA/OR Border	May 1-June 7	-	38	-	28	-	
		July 1-8	-	8	-	28	-	250 Chinook per open period vessel limit.
		July 12-22	-	11	-	28	-	400 Chinook per open period vessel limit.
		July 26-31	Aug. 1-5	6	5	28	16	450 Chinook per open period vessel limit; No coho north of Leadbetter Point
		-	Aug. 9-18	-	10	28	16	400 Chinook per open period vessel limit; No coho north of Leadbetter Point.
		-	Aug. 22-28	-	7	28	16	250 Chinook per open period vessel limit; No coho north of Leadbetter Point.
<b>2003</b>	U.S./Canada Border to WA/OR Border	May 1-June 6;	-	37	-	28	-	
		June 26-30	-	5	-	28	-	50 Chinook per open period vessel limit.
		-	July 3-7	-	5	28	16	75 Chinook per open period vessel limit.
		-	July 10-14, 17-21, 24-28; July 31- Aug. 4; Aug. 7-11, 14-18, 21-25; Aug. 27-Sept. 1; Sept. 4-8, 11-14	-	49	28	16	150 Chinook per open period vessel limit.
<b>2004</b>	U.S./Canada Border to WA/OR Border	May 1-5	-	5	-	28	-	
		May 15-18	-	4	-	28	-	125 Chinook per open period vessel limit.
		May 24-26	-	3	-	28	-	70 Chinook per open period vessel limit.
		June 26-30	-	5	-	28	-	50 Chinook per open period vessel limit.
		-	July 8-12	-	5	28	16	100 Chinook per open period vessel limit.
		-	July 16-19, 22-26; July 29-Aug. 2; Aug. 5-9, 11-15, 18-22, 25-29	-	34	28	16	125 Chinook per open period vessel limit; No chum beginning Aug. 1.
		-	Sept. 1-5	-	5	28	16	125 Chinook per open period vessel limit; no coho mark restriction.

TABLE C-5. Summary of actual Washington commercial salmon seasons in state and federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 2 of 4)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>	
2005	U.S./Canada Border to WA/OR Border	May 1-3	-	3	-	28	-	75 Chinook per open period vessel limit.
		May 6-9	-	4	-	28	-	100 Chinook per open period vessel limit.
		May 13-16, 20-26	-	11	-	28	-	125 Chinook per open period vessel limit.
		June 3-6	-	4	-	28	-	60 Chinook per open period vessel limit.
		June 26-30	-	5	-	28	-	30 Chinook per open period vessel limit.
		-	July 7-11; 14-18	-	10	28	16	75 Chinook per open period vessel limit.
		-	July 21-25; July 28-Aug. 1; Aug. 3-7, 10-14, 17-22	-	36	28	16	100 Chinook per open period vessel limit.
2006	U.S./Canada Border to WA/OR Border	May 1-2	-	2	-	28	-	75 Chinook per open period vessel limit.
		May 6-9, 13-16, 20-23, 27-30; June 3-6, 10-13	-	24	-	28	-	80 Chinook per open period vessel limit.
		June 27-30	-	4	-	28	-	20 Chinook per open period vessel limit.
		July 15-18, 22-25	-	8	28	16	35 Chinook and 35 coho per open period vessel limit.	
		July 29-Aug. 1	-	4	28	16	60 Chinook and 35 coho per open period vessel limit.	
		Aug. 5-7, 12-14	-	6	28	16	60 Chinook and 40 coho per open period vessel limit.	
		Aug. 19-22, 26-29, Sept. 2-5 Sept. 8-15	-	12	28	16	80 Chinook and 40 coho per open period vessel limit.	
2007	U.S./Canada Border to WA/OR Border	May 1-2, 5-8	-	6	-	28	-	Per open period vessel limit: 60 Chinook north of Leadbetter Pt; 40 Chinook south.
		May 12-15, 19-22, 26-29; June 2-5, 9-12, 16-19	-	24	-	28	-	Per open period vessel limit: 60 Chinook north of Leadbetter Pt; 30 Chinook south.
		June 23-26	-	4	-	28	-	Per open period vessel limit: 50 Chinook north of Leadbetter Pt; 30 Chinook south.
		July 1-3, 7-10, 14-17, 21-24	-	15	28	16	Per open period vessel limit: 40 Chinook north of Leadbetter Pt; 20 Chinook south.	
		July 28-31;	-	12	28	16	Per open period vessel limit: 20 Chinook north of Leadbetter Pt; 20 Chinook south.	
		Aug. 4-7, 11-14	-	18	28	16	20 Chinook and 140 coho per open period vessel limit.	
		Aug. 18-21, 25-28; Sep. 1-4, 8-11, 15-16	-	18	28	16	20 Chinook and 140 coho per open period vessel limit.	



TABLE C-5. Summary of actual Washington commercial salmon seasons in state and federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 3 of 4)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions	
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>		
2008	U.S./Canada Border to WA/OR Border	May 3-6, 10-13, 17-20, 24-27; May 31-June 3; June 7-10, 14-17 June 21-24	-	28	-	28	-	Per open period vessel limit of 50 Chinook north or 50 Chinook south of Leadbetter Point.	
			-	4	-	28	-	Per open period vessel limit of 35 Chinook north or 35 Chinook south of Leadbetter Point.	
			July 1-2, 5-8, 12-15, 19-22, 26-29	-	18	28	16	Per open period vessel limit of 35 Chinook and 25 coho north or 35 Chinook and 25 coho south of Leadbetter Point. Plugs >6 in. only.	
			Aug. 2-5, 9-12, 16-19, 23-26, Aug. 30-Sept. 2; Sept. 6-9, 13-16	-	28	28	16	Per open period vessel limit of 50 Chinook and 25 coho north or 50 Chinook and 25 coho south of Leadbetter Point. Plugs >6 in. only prior to Aug. 16.	
2009	U.S./Canada Border to WA/OR Border	May 1-5, 8-12, 16-19, 23-26; May 30-June 2; June 6-9, 13-16, 20-23, 27-30	-	-	38	28	-	Per open period vessel limit of 75 Chinook north of Leadbetter Point or 75 Chinook south of Leadbetter Point.	
			-	July 1-7, 11-14;	-	11	28	16	Per open period vessel limit of 40 Chinook and 200 marked coho north of Leadbetter Point or the same south of Leadbetter Point.
			-	July 18-21, 25-28; Aug. 1-4, 8-11, 15-18, 22-25; Aug. 29-Sept. 1; Sept. 5-8, 12-15	-	28	28	16	Per open period vessel limit of 75 Chinook and 200 marked coho north of Leadbetter Point or the same south of Leadbetter Point.
			-		8	28	16	Per open period vessel limit of 75 Chinook and 100 marked coho north of Leadbetter Point or the same south of Leadbetter Point.	

TABLE C-5. Summary of actual Washington commercial salmon seasons in state and federal (EEZ) waters, 2001-2011.<sup>a/</sup> (Page 4 of 4)

Year	Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-Coho	All Salmon	Chinook	Coho <sup>b/</sup>	
2010	U.S./Canada Border to WA/OR Border	May 1-June 12;	-	43	-	28	-	Seven days per week, no landing limits.
		June 18-22	-	5	-	28	-	75 Chinook per open period vessel limit.
		June 25-29	-	5	-	28	-	25 Chinook per open period vessel limit.
		-	July 1-6, 9-13	-	11	28	16	40 Chinook and 30 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-	July 16-20, 23-27	-	10	28	16	60 Chinook and 50 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-	July 30-Aug. 3	-	5	28	16	75 Chinook and 50 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
2011 <sup>c/</sup>	U.S./Canada Border to WA/OR Border	May 1-June 21;	-	52	-	28	-	Seven days per week, no landing limits.
		June 23-30	-	8	-	28	-	30 Chinook per open period vessel limit. North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-	July 1-5, 8-12;	-	10	28	16	50 Chinook and 50 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-	July 15-19, 22-26, July 29-Aug. 2, Aug. 5-9	-	20	28	16	30 Chinook and 50 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-	Aug. 19;	-	1	28	16	12 Chinook and 50 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-	Aug. 27-29	-	3	28	16	12 Chinook and 75 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-	Sept. 3-6, 10-13	-	8	28	16	20 Chinook and 100 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-		-				
		-		-				
		-		-				

a/ For earlier years see Review of 2004 Ocean Salmon Fisheries, Appendix C, Table C-5.

b/ Mark selective coho fishery; all retained coho must be marked with a healed adipose fin clip.

c/ For detailed regulations, including quotas and inseason adjustments, see TABLE I-1.

TABLE C-6. Summary of actual Washington recreational ocean salmon regulations, 2001-2011. <sup>a/</sup> (Page 1 of 6)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions
					Chinook	Coho <sup>b/</sup>	
2001	U.S./Canada Border to Cape Alava	July 1-Sept. 30	92	2	24	16	No more than one Chinook.
	Cape Alava to Queets River	July 1-Sept. 23	85	2	24	16	No more than one Chinook.
	Cake Rock-Q Buoy-Teahwhit Head	Sept. 24-Oct. 21	28	2	24	16	No more than one Chinook.
	Queets River to Leadbetter Point	July 1-Sept. 6	69	2	24	16	Sun.-Thurs.; No more than one Chinook.
		Sept. 7-30	24	2	24	16	Seven days per week; No more than one Chinook.
	Leadbetter Point to WA/OR Border	July 1-Sept. 3	47	2	24	16	Sun.-Thurs.; No more than one Chinook.
		Closed Leadbetter Pt. to N. Head Lighthouse Sept. 4-6; Closed N. Head Lighthouse to Klipsan Beach Sept. 7-30	Sept. 4-30	27	2	24	16
	2002	U.S./Canada Border to Cape Alava	May 25-June 16	23	2	24	-
July 7-20			14	2	24	16	
July 21-31			11	2	28	16	
Aug. 1-7			7	2	28	16	No chum.
Aug. 8-Sept. 8			32	2	-	16	No Chinook or chum.
Cape Alava to Queets River		May 25-June 16	23	2	24	-	Chinook only.
		July 7-20	14	2	24	16	
		July 21-Aug. 7	18	2	28	16	
		Aug. 8-Sept. 8	32	2	-	16	No Chinook.
Cake Rock-Q Buoy-Teahwhit Head		Sept. 21-Oct. 6	16	2	24	16	No more than one Chinook.
		Queets River to Leadbetter Point	May 25-June 16	23	2	24	-
June 30-July 20			15	2	24	16	Sun.-Thurs.
July 21-Aug. 17			20	2	28	16	Sun.-Thurs.
Aug. 18-19			2	2	-	16	Sun.-Thurs.; no Chinook.
Leadbetter Point to WA/OR Border		May 25-June 16	23	2	24	-	Chinook only.
		July 7-20	10	2	24	16	Sun.-Thurs.
		July 21-Aug. 7	14	2	26	16	Sun.-Thurs.
		Aug. 8-15	6	2	-	16	Sun.-Thurs.; no Chinook.
		Aug. 16-Sept. 2; Sept. 6-15	28	2	-	16	Seven days per week; no Chinook.

TABLE C-6. Summary of actual Washington recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 2 of 6)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions	
					Chinook	Coho <sup>b/</sup>		
2003	U.S./Canada Border to Cape Alava	June 22-July 31	40	2 <sup>d/</sup>	26	16	No more than one Chinook.	
		Aug. 1-Sept. 14	45	2 <sup>d/</sup>	26	16	No more than one Chinook; no chum.	
	Cape Alava to Queets River Cake Rock-Q Buoy-Teahwhit Head	June 22-Sept. 19	90	2 <sup>d/</sup>	26	16	No more than one Chinook.	
		Sept. 20-Oct. 5	16	2 <sup>d/</sup>	26	16	No more than one Chinook.	
	Queets River to Leadbetter Point	June 22-July 24	25	2	26	16	Sun.-Thurs.; no more than one Chinook.	
		July 25-Sept. 14	52	2	26	16	Seven days per week; no more than one Chinook.	
	Leadbetter Point to WA/OR Border	June 29-July 24	20	2	26	16	Sun.-Thurs.; no more than one Chinook.	
		July 25-Sept. 30	68	2	26	16	Seven days per week; no more than one Chinook.	
	2004	U.S./Canada Border to Cape Alava	June 27-July 31	35	2	26	16	No more than one Chinook.
			Aug. 1-Sept. 2; Sept. 10-19	43	2	24	16	Two Chinook allowed; no chum.
Cape Alava to Queets River		June 27-Aug. 12	47	2	26	16	No more than one Chinook.	
		Aug. 13-Sept. 19	38	2	24	16	Two Chinook allowed.	
47°58' N. Lat. to 47°50' N. Lat. Inside 3 nm		Sept. 25-Oct. 10	16	2	24	16	Two Chinook allowed.	
Queets River to Leadbetter Point		June 27-July 22	19	2	26	16	Sun.-Thurs.; no more than one Chinook.	
		July 23-Aug. 12	21	2	26	16	Seven days per week.	
		Aug. 13-28	16	2	24	16		
		Aug. 29-Sept. 6	9	2	24	16	No coho mark restriction.	
Leadbetter Point to WA/OR Border	June 27-July 22	19	2	26	16	Sun.-Thurs.; no more than one Chinook.		
	July 23-Aug. 12	21	2	26	16	Seven days per week.		
	Aug. 13-Sept. 30	49	2	24	16			

TABLE C-6. Summary of actual Washington recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 3 of 6)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions
					Chinook	Coho <sup>b/</sup>	
2005	U.S./Canada Border to Cape Alava	July 1-July 31	22	2	24	16	Tues.-Sat.; no more than one Chinook.
		Aug. 1-15	10	2	24	16	Tues-Sat.; no more than one Chinook; no chum.
		Aug. 16-29	10	2	24	16	Tues.-Sat.; two Chinook allowed; no chum.
		Aug. 30-Sept. 18	20	2	24	16	Seven days per week; two Chinook allowed; no chum.
	Cape Alava to Queets River	July 1-28	20	2	24	16	Tues.-Sat.; no more than one Chinook.
		July 29-Sept. 18	52	2	24	16	Seven days per week; two Chinook allowed.
	48°00' N. Lat. to 47°50' N. Lat.	Sept. 24-Oct. 9	16	2	24	16	Seven days per week; two Chinook allowed.
		Queets River to Leadbetter Point	June 26-July 28	25	2	24	16
	Leadbetter Point to WA/OR Border	July 29-Sept. 18	52	2	24	16	Seven days per week; two Chinook allowed.
		July 3-28	20	2	24	16	Sun.-Thurs; no more than one Chinook.
		July 29-Sept. 8; Sept. 17-30 Sept. 9-16	56 8	2 2	24 -	16 16	Seven days per week; two Chinook allowed. Seven days per week; no Chinook.
	2006	U.S./Canada Border to Cape Alava	June 30-Aug. 10	30	2	24	16
Aug. 11-Sept. 17			38	2	24	16	Seven days per week; two Chinook allowed.
Cape Alava to Queets River		June 30-Aug. 10	30	2	24	16	Tues.-Sat.; no more than one Chinook.
		Aug. 11-Sept. 17	38	2	24	16	Seven days per week; two Chinook allowed.
48°00' N. Lat. to 47°50' N. Lat.		Sept. 23-Oct. 8	16	2	24	16	Seven days per week; two Chinook allowed.
		Queets River to Leadbetter Point	July 3-Aug. 10	29	2	24	16
Aug. 11-Sept. 17			38	2	24	16	Seven days per week; two Chinook allowed.
Leadbetter Point to WA/OR Border		July 3-Aug. 10	29	2	24	16	Sun.-Thurs.; no more than one Chinook.
		Aug. 11-Sept. 30	51	2	24	16	Seven days per week; two Chinook allowed.

TABLE C-6. Summary of actual Washington recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 4 of 6)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions
					Chinook	Coho <sup>b/</sup>	
2007	U.S./Canada Border to Cape Alava	July 3 - Aug. 16	33	2 <sup>e/</sup>	24	16	Tues.-Sat.; no more than one Chinook.
		Aug. 17 - Sept. 15	30	2 <sup>e/</sup>	24	16	Seven days per week; no more than one Chinook.
	Cape Alava to Queets River	July 3 - Aug. 16	33	2 <sup>e/</sup>	24	16	Tues.-Sat.; no more than one Chinook.
		Aug. 17 - Sept. 15	30	2 <sup>e/</sup>	24	16	Seven days per week; no more than one Chinook.
	48°00' N. Lat. to 47°50' N. Lat.	Sept. 22 - Oct. 7	16	2 <sup>e/</sup>	24	16	Seven days per week; no more than one Chinook.
		Queets River to Leadbetter Point	July 1 - Aug. 16	35	2	24	16
	Aug. 17 - Sept. 16		31	2	24	16	Seven days per week; no more than one Chinook.
	Leadbetter Point to WA/OR Border	July 1 - Aug. 25	56	2	24	16	Seven days per week; no more than one Chinook.
		Sept. 2 - 30	29	2	24	16	Seven days per week; no more than one Chinook.
	2008	U.S./Canada Border to Cape Alava	June 3-20	14	1	24	-
June 21-28			6	2	24	-	Tues.-Sat.; Chinook only.
July 1 - Aug. 23			40	2	24	16	Tues.-Sat.; no Chinook retention East of Bonilla-Tatoosh line in August.
Aug. 26 - Sept. 13			19	2	-	16	Seven days per week; closed west of Bonilla-Tatoosh line; no chinook retention.
Cape Alava to Queets River		June 3-20	14	1	24	-	Tues.-Sat.; Chinook only.
		June 21-28	6	2	24	-	Tues.-Sat.; Chinook only.
		July 1 - Aug. 23	40	2	24	16	Tues.-Sat.
		Aug. 26 - Sept. 13	19	2	24	16	Seven days per week.
		Sept. 20 - Oct. 5	16	2	24	16	Seven days per week.
Queets River to Leadbetter Point		June 1-19	15	1	24	-	Sun.-Thurs.; Chinook only.
		June 22-26	5	2	24	-	Sun.-Thurs.; Chinook only.
		June 29 - Aug. 25	42	2	24	16	Sun.-Thurs.
		Aug. 26 - Sept. 13	19	2	24	16	Seven days per week.
Leadbetter Point to WA/OR Border		June 1-20	20	1	24	-	Seven days per week; Chinook only.
		June 21-28	8	2	24	-	Seven days per week; Chinook only.
		June 29 - Aug. 17	36	2	24	16	Sun.-Thurs.

TABLE C-6. Summary of actual Washington recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 5 of 6)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions	
					Chinook	Coho <sup>b/</sup>		
2009	U.S./Canada Border to Cape Alava	June 27 - July 17	15	2 <sup>f/</sup>	24	16	Tue.-Sat.; no more than one Chinook.	
		July 18-31	14	2 <sup>f/</sup>	24	16	Seven days per week; no more than one Chinook.	
		Aug. 1-Sept. 20	51	2 <sup>f/</sup>	24	16	Seven days per week.	
	Cape Alava to Queets River	June 27 - July 17	15	2 <sup>f/</sup>	24	16	Tue.-Sat.; no more than one Chinook.	
		July 18-31	14	2 <sup>f/</sup>	24	16	Seven days per week; no more than one Chinook.	
		Aug. 1-Sept. 20	51	2 <sup>f/</sup>	24	16	Seven days per week.	
	48°00' N. Lat. to 47°50' N. Lat.	Sept. 26 - Oct. 11	16	2 <sup>f/</sup>	24	16	Seven days per week.	
	Queets River to Leadbetter Point	June 28 - July 23	20	2 <sup>d/</sup>	24	16	Sun.-Thurs.; no more than one Chinook.	
		July 24-31	8	2 <sup>d/</sup>	24	16	Seven days per week; no more than one Chinook.	
		Aug. 1-Sept. 20	51	2 <sup>d/</sup>	24	16	Seven days per week.	
	Leadbetter Point to WA/OR Border	June 28 - July 31	34	2	24	16	Seven days per week; no more than one Chinook.	
		Aug. 1-Aug. 31	31	2	24	16	Seven days per week.	
		Sept. 7-30	24	2	24	16	Seven days per week.	
	2010	U.S./Canada Border to WA/OR Border	June 12-30	19	2	24	-	12,000 marked Chinook quota north of Cape Falcon, OR.
		U.S./Canada Border to Cape Alava	July 1-7	5	2	24	16	Tue.-Sat.; no more than one Chinook.
July 8-22			11	2	24	16	Tue.-Sat.; two Chinook allowed.	
July 23-Sept. 19			59	2	24	16	Seven days per week.	
Cape Alava to Queets River		July 1-7	5	2	24	16	Tue.-Sat.; no more than one Chinook.	
		July 8-22	11	2	24	16	Tue.-Sat.; two Chinook allowed.	
		July 23-Sept. 19	59	2	24	16	Seven days per week.	
48°00' N. Lat. to 47°50' N. Lat.		Sept. 25 - Oct. 10	16	2	24	16	Seven days per week.	
Queets River to Leadbetter Point		July 4-7	4	2	24	16	Sun.-Thurs.; no more than one Chinook.	
		July 8-22	11	2	24	16	Sun.-Thurs.; two Chinook allowed.	
		July 23-Sept. 19	59	2	24	16	Seven days per week.	
Leadbetter Point to WA/OR Border		July 1-7	7	2	24	16	No more than one Chinook.	
		July 8-Sept. 30	85	2	24	16	Two Chinook allowed.	

TABLE C-6. Summary of actual Washington recreational ocean salmon regulations, 2001-2011.<sup>a/</sup> (Page 6 of 6)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions
					Chinook	Coho <sup>b/</sup>	
<b>2011<sup>c/</sup></b>	U.S./Canada Border to WA/OR Border	June 18-25	8	2	24	-	4,800 marked Chinook quota north of Cape Falcon, OR.
	U.S./Canada Border to Cape Alava	June 26-July 31	36	2 <sup>d/</sup>	24	16	Seven days per week; no more than one Chinook.
		Aug. 1-28	28	2 <sup>d/</sup>	24	16	Seven days per week; no more than two Chinook.
	5,990 coho quota and 3,330 Chinook guideline.	Aug. 29-Sept. 4	7	2 <sup>d/</sup>	24	16	Seven days per week; Chinook prohibited.
		Sept. 5-18	11	2 <sup>d/</sup>	24	16	Seven days per week; no more than one Chinook.
	Cape Alava to Queets River	June 26-July 31	36	2 <sup>d/</sup>	24	16	Seven days per week; no more than one Chinook.
	2,600 coho quota and 1,460 Chinook guideline.	Aug. 1-28	28	2 <sup>d/</sup>	24	16	Seven days per week; no more than two Chinook.
		Aug. 29-Sept. 4	7	2 <sup>d/</sup>	24	16	Seven days per week; Chinook prohibited.
		Sept. 5-18	11	2 <sup>d/</sup>	24	16	Seven days per week; no more than one Chinook.
	48°00' N. Lat. to 47°50' N. Lat.	Sept. 24 - Oct. 9	16	2 <sup>d/</sup>	24	16	Seven days per week; no more than one Chinook.
	Queets River to Leadbetter Point	June 26-July 31	26	2	24	16	Sun.-Thurs.; no more than one Chinook.
	24,860 coho quota and 17,600 Chinook guideline.	Aug. 1-6	6	2	24	16	Seven days per week; no more than one Chinook.
		Aug. 7-13	7	2	24	16	Seven days per week; no more than two Chinook.
		Aug. 14-18	5	2	24	16	Seven days per week; no more than one Chinook.
		Aug. 19-28	6	2	24	16	Sun.-Thurs.; no more than one Chinook.
		Aug. 29-Sept. 4	7	2	24	16	Seven days per week; Chinook prohibited.
		Sept. 5-18	14	2	24	16	Seven days per week; no more than one Chinook.
	Leadbetter Point to WA/OR Border.	June 26-Aug. 6	42	2	24	16	Seven days per week; no more than one Chinook.
		Aug. 7-13	7	2	24	16	Seven days per week; no more than two Chinook.
	33,600 coho quota and 7,710 Chinook guideline for Leadbetter	Aug. 14-28	15	2	24	16	Seven days per week; no more than one Chinook.
	Pt. to Cape Falcon, OR	Aug. 29-Sept. 4	7	2	24	16	Seven days per week; Chinook prohibited.
		Sept. 5-30	26	2	24	16	Seven days per week; no more than one Chinook.

a/ For earlier years see Review of 2004 Ocean Salmon Fisheries, Appendix C, Table C-6.

b/ Mark selective coho fishery; all retained coho must be marked with a healed adipose fin clip except Aug. 29-Sept. 6, 2004 Queets River to Leadbetter Point.

c/ For detailed regulations, including quotas and inseason adjustments, see TABLE I-3.

d/ Plus one additional pink salmon.

e/ Plus one additional pink salmon beginning August 1.

f/ Plus two additional pink salmon.



TABLE C-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons, 2001-2011.<sup>a/</sup> (Page 1 of 8)

Year	Tribe/Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions	
		All-Salmon- Except-Coho	All Salmon	All-Salmon- Except-	All Salmon	Chinook	Coho		
2001	<b>Quinault, Quileute, and Hoh</b> Sand Point to Point Chehalis	May 1-June 30	-	61	-	24	-		
		-	July 1-Sept. 15	-	77	24	16		
	<b>Makah</b> Ocean waters north of 48°02'15" N. Lat. and east of 125°44'00" W. Long.	May 1-June 30	-	61	-	24	-		
		-	July 1-Sept. 15	-	77	24	16		
		Area 4B inside waters	Jan. 1-Apr. 15	-	105	-	22	-	
		May 1-June 30	-	61	-	24	-		
		-	July 2-Sept. 15	-	76	24	16		
		-	Nov. 1-Dec. 31	-	61	22	16		
	<b>S'Klallam</b> Area 4B inside waters	-	Jan. 1-Apr. 15	-	105	22	16		
		May 1-June 30	-	61	-	24	-		
		-	July 1-Sept. 15	-	77	24	16		
		Nov. 1-Dec. 31	-	61	-	22	-		
	2002	<b>Quinault, Quileute, and Hoh</b> Sand Point to Point Chehalis	May 1-June 30	-	61	-	24	-	
			-	July 1-Sept. 15	-	77	24	16	
		<b>Makah</b> Ocean waters north of 48°02'15" N. Lat. and east of 125°44'00" W. Long.	May 1-June 30	-	61	-	24	-	
-			July 1-Sept. 15	-	77	24	16		
Area 4B inside waters			Jan. 1-Apr. 15	-	105	-	22	-	
		May 1-June 30	-	61	-	24	-		
		-	July 2-Sept. 15	-	76	24	16		
		Sept. 16-Oct. 31	-	46	-	24	-		
		Nov. 1-Dec. 31	-	61	-	22	-		
<b>S'Klallam</b> Area 4B inside waters		-	Jan. 1-Apr. 15	-	105	22	16		
		May 1-June 30	-	61	-	24	-		
		-	July 1-Oct. 31	-	123	24	16		
		-	Nov. 1-Dec. 31	-	61	22	16		

TABLE C-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons, 2001-2011.<sup>a/</sup> (Page 2 of 8)

Year	Tribe/Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except-	All Salmon	Chinook	Coho	
2003	<b>Quinault, Quileute, and Hoh</b>							
	Sand Point to Point Chehalis	May 1-June 30	-	61	-	24	-	No size limits for ceremonial and subsistence
		-	July 1-Sept. 15	-	77	24	16	No size limits for ceremonial and subsistence
	Sand Point to Queets River (Quileute only)	-	Sept. 16-Oct. 15	-	30	None	None	Ceremonial and subsistence only
	<b>Makah</b>							
	Ocean waters north of 48°02'15" N. Lat. and east of 125°44'00" W. Long.	May 1-June 30	-	61	-	24	-	No size limits for ceremonial and subsistence
		-	July 1-Sept. 15	-	77	24	16	No size limits for ceremonial and subsistence
	Area 4B inside waters	Jan. 1-Apr. 15	-	105	-	22	-	No size limits for ceremonial and subsistence
		May 1-June 30	-	61	-	24	-	No size limits for ceremonial and subsistence
		-	July 1-Sept. 15	-	77	24	16	No size limits for ceremonial and subsistence
		Sept. 16-Oct. 31	-	46	-	24	-	No size limits for ceremonial and subsistence
		Nov. 1-Dec. 31	-	61	-	22	-	No size limits for ceremonial and subsistence
	<b>S'Klallam</b>							
	Area 4B inside waters	-	Jan. 1-Apr. 15	-	105	22	16	No size limits for ceremonial and subsistence
		May 1-June 30	-	61	-	24	-	No size limits for ceremonial and subsistence
	-	July 1-Oct. 31	-	123	24	16	No size limits for ceremonial and subsistence	
	-	Nov. 1-Dec. 31	-	61	22	16	No size limits for ceremonial and subsistence	
2004	<b>Quinault, Quileute, and Hoh</b>							
	Sand Point to Point Chehalis	May 1-June 17	-	48	-	24	-	
		-	July 1-Sept. 10	-	72	24	16	
	Sand Point to Queets River (Quileute only)	-	Sept. 16-Oct. 15	-	30	24	16	Ceremonial and subsistence only
	<b>Makah</b>							
	Ocean waters north of 48°02'15" N. Lat. and east of 125°44'00" W. Long.	May 1-June 17	-	48	-	24	-	
		-	July 1-Sept. 10	-	72	24	16	
	Area 4B inside waters	Jan. 1-Apr. 15	-	106	-	22	-	
		May 1-June 17	-	48	-	24	-	
		-	July 1-Sept. 10	-	72	24	16	
		Sept. 16-Oct. 31	-	46	-	24	-	
		Nov. 1-Dec. 31	-	61	-	22	-	
	<b>S'Klallam</b>							
	Area 4B inside waters	-	Jan. 1-Apr. 15	-	106	22	16	
		May 1-June 17	-	48	-	24	-	
	-	July 1-Sept. 10; Sept. 16-Oct. 31	-	118	24	16		
	-	Nov. 1-Dec. 31	-	61	22	16		

TABLE C-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons, 2001-2011.<sup>a/</sup> (Page 3 of 8)

Year	Tribe/Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon- Except-Coho	All Salmon	All-Salmon- Except-	All Salmon	Chinook	Coho	
2005	<b>Quinault, Quileute, and Hoh</b>							
	Sand Point to Point Chehalis	May 1-June 23	-	54	-	24	-	
		-	July 1-Sept. 15	-	77	24	16	
	Sand Point to Queets River (Quileute only)		Sept. 16-Oct. 15	-	30	24	16	Ceremonial and subsistence only
	<b>Makah</b>							
	Ocean waters north of 48°02'15" N. Lat. and east of 125°44'00" W. Long.	May 1-June 23	-	54	-	24	-	
		-	July 1-Sept. 15	-	77	24	16	
	Area 4B inside waters		Jan. 1-Feb. 3	-	34	22	16	
		May 1-June 23	-	54	-	24	-	
		-	July 1-July 3	-	55	24	16	
			July 19-23; 26-30; Aug. 2-6; 9-13; Aug. 15-Sept. 15	-				
		-	Nov. 1-Dec. 31	-	61	22	16	
	<b>S'Klallam</b>							
	Area 4B inside waters	-	Jan. 1-Apr. 15	-	105	22	16	
		May 1-June 23	-	54	-	24	-	
		-	July 1-Sept. 15; Sept. 16-Oct. 31	-	123	24	16	
		-	Nov. 1-Dec. 31	-	61	22	16	

TABLE C-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons, 2001-2011.<sup>a/</sup> (Page 4 of 8)

Year	Tribe/Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon- Except-Coho	All Salmon	All-Salmon- Except-	All Salmon	Chinook	Coho	
2006	<b>Quinault, Quileute, and Hoh</b>							
	Sand Point to Point Chehalis	May 1-June 30	-	61	-	24	-	
		-	July 1-Sept. 15	-	77	24	16	
	Sand Point to Queets River (Quileute only)		Sept. 16-Oct. 15	-	30	24	16	Ceremonial and subsistence only
	<b>Makah</b>							
	Ocean waters north of 48°02'15" N. Lat. and east of 125°44'00" W. Long.	May 1-June 30	-	61	-	24	-	
		-	July 1-Sept. 15	-	77	24	16	
	Area 4B inside waters		Jan. 1-Apr. 15	-	105	22	16	
		May 1-June 30	-	61	-	24	-	
		-	July 1-Sept. 15	-	77	24	16	
		-	Nov. 1-Dec. 31	-	61	22	16	
	<b>S'Klallam</b>							
	Area 4B inside waters		Jan. 1-Apr. 15	-	105	22	16	
		May 1-June 30	-	61	-	24	-	
		-	July 1-Sept. 15; Sept. 16-Oct. 31	-	123	24	16	
	-	Nov. 1-Dec. 31	-	61	22	16		
2007	<b>Quinault, Quileute, and Hoh</b>							
	Sand Point to Point Chehalis	May 1-June 30	-	61	-	24	-	
		-	July 1-Sept. 4	-	66	24	16	
	Sand Point to Queets River (Quileute only)		Sept. 16-Oct. 15		30	24	16	Ceremonial and subsistence only
	<b>Makah</b>							
	Ocean waters north of 48°02'15" N. Lat. and east of 125°44'00" W. Long.	May 1-June 30	-	61	-	24	-	
		-	July 1-Aug. 31	-	62	24	16	
	Area 4B inside waters		Jan. 1-Apr. 15	-	105	22	16	
		May 1-June 30	-	61	-	24	-	
		-	July 1-Aug. 31	-	62	24	16	
		-	Nov. 1-Dec. 31	-	61	22	16	
	<b>S'Klallam</b>							
	Area 4B inside waters		Jan. 1-Apr. 15	-	105	22	16	
		May 1-June 30	-	61	-	24	-	
		-	July 1-Oct. 31	-	123	24	16	
	-	Nov. 1-Dec. 31	-	61	22	16		

TABLE C-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons, 2001-2011.<sup>a/</sup> (Page 5 of 8)

Year	Tribe/Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon- Except-Coho	All Salmon	All-Salmon- Except-	All Salmon	Chinook	Coho	
2008	<b>Quinault, Quileute, and Hoh</b>							
	Sand Point to Point Chehalis	May 1-June 30	-	61	-	24	-	
		-	July 1-Sept. 15	-	77	24	16	
	Sand Point to Queets River (Quileute only)	-	Sept. 16-Oct. 15	-	30	24	16	Ceremonial and subsistence only
	<b>Makah</b>							
	Ocean waters north of 48°02'15" N. Lat. and east of 125°44'00" W. Long.	May 1-June 30	-	61	-	24	-	
		-	July 1-Sept. 15	-	77	24	16	
	Area 4B inside waters	-	Jan. 1-Apr. 15	-	106	22	16	
		May 1-June 30	-	61	-	24	-	
		-	July 1-Sept. 15	-	77	24	16	
		-	Nov. 1-Dec. 31	-	61	22	16	
	<b>S'Klallam</b>							
	Area 4B inside waters	-	Jan. 1-Apr. 15	-	106	22	16	
		May 1-June 30	-	61	-	24	-	
		-	July 1-Oct. 31	-	123	24	16	
	-	Nov. 1-Dec. 31	-	61	22	16		

TABLE C-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons, 2001-2011.<sup>a/</sup> (Page 6 of 8)

Year	Tribe/Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon- Except-Coho	All Salmon	All-Salmon- Except-	All Salmon	Chinook	Coho	
<b>2009</b>	<b>Quinault, Quileute, and Hoh</b>							
	Sand Point to Point Chehalis	May 1-June 30	-	61	-	24	-	
		-	July 1-Aug. 18; Aug. 19-21; Sept. 8-Sept. 11	-	48 3 4	24 24 24	16 16 16	Quinault only 50 coho landing limit Quinault only 68 coho landing limit
	(Quileute only)	-	Sept. 16-Oct. 15	-	30	24	16	Ceremonial and subsistence only
	<b>Makah</b>							
	Ocean waters north of 48°02'15" N. Lat. and east of 125°44'00" W. Long.	-	Jan. 1-Apr. 15	-	105	22	16	
		May 1-June 30	-	61	-	24	-	
		-	July 1-Aug. 17 Aug. 18-20 Sept. 9-Sept. 15	-	48 3 7	24 24 24	16 16 16	25 coho landing limit 5 coho landing limit
		-	Nov. 1-Dec. 31	-	61	22	16	
	Area 4B inside waters	-	Jan. 1-Apr. 15	-	105	22	16	
		May 1-June 30	-	61	-	24	-	
		-	July 1-Aug. 17 Aug. 18-20 Sept. 9-Sept. 15 Nov. 1-Dec. 31	-	48 3 7 61	24 24 24 22	16 16 16 16	25 coho landing limit 5 coho landing limit
	<b>S'Klallam</b>							
	Area 4B inside waters	-	Jan. 1-Apr. 15	-	105	22	16	
		May 1-June 30	-	61	-	24	-	
		-	July 1-Oct. 31 Nov. 1-Dec. 31	-	123 61	24 22	16 16	

TABLE C-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons, 2001-2011.<sup>a/</sup> (Page 7 of 8)

Year	Tribe/Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon- Except-Coho	All Salmon	All-Salmon- Except-	All Salmon	Chinook	Coho	
2010	<b>Quinault, Quileute, and Hoh</b>							
	Sand Point to Point Chehalis	May 1-June 30	-	61	-	24	-	
		-	July 1-Sept. 15	-	77	24	16	
	(Quileute only)	-	Sept. 16-Oct. 15	-	30	24	16	Ceremonial and subsistence only
	<b>Makah</b>							
	Ocean waters north of 48°02'15" N. Lat. and east of 125°44'00" W. Long.	-	Jan. 1-Apr. 15	-	105	22	16	
		May 1-June 30	-	61	-	24	-	
		-	July 1-Sept. 15	-	77	24	16	
	Area 4B inside waters							
		May 1-June 30	-	61	-	24	-	
		-	July 1-Sept. 15	-	77	24	16	
		-	Nov. 1-Dec. 31	-	61	22	16	
	<b>S'Klallam</b>							
	Area 4B inside waters	-	Jan. 1-Apr. 15	-	105	22	16	
		May 1-June 30	-	61	-	24	-	
	-	July 1-Oct. 31	-	123	24	16		
	-	Nov. 1-Dec. 31	-	61	22	16		

TABLE C-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons, 2001-2011.<sup>a/</sup> (Page 8 of 8)

Year	Tribe/Area	Seasons		Number of Days		Minimum Size Limit (in.)		Other Restrictions
		All-Salmon- Except-Coho	All Salmon	All-Salmon- Except-	All Salmon	Chinook	Coho	
2011 <sup>b/</sup>	<b>Quinault, Quileute, and Hoh</b>							
	Sand Point to Point Chehalis	May 1-June 30	-	61	-	24	-	
		-	July 1-Aug. 19	-	50	24	16	
		-	Aug. 24-Sept. 7	-	15	24	16	23 Chinook per vessel per week landing limit
	Sand Point to Queets River (Quileute only)	-	Sept. 16-Oct. 15	-	30	24	16	Ceremonial and subsistence only
	<b>Makah</b>							
	Ocean waters north of 48°02'15" N. Lat. and east of 125°44'00" W. Long.	-	Jan. 1-Apr. 15	-	105	22	16	
		May 1-June 30	-	61	-	24	-	
		-	July 7-July 23	-	17	24	16	
		-	July 25-Aug. 8	-	15	24	16	100 Chinook per vessel per week landing limit
		-	Aug. 9-Aug. 16	-	8	24	16	75 Chinook per vessel per week landing limit
		-	Aug. 17-Aug. 19	-	3	24	16	100 Chinook per vessel per week landing limit
		-	Aug. 24-Sept. 6	-	14	24	16	23 Chinook per vessel per week landing limit
	Area 4B inside waters	-	Jan. 1-Apr. 15	-	105	22	16	
		May 1-June 30	-	61	-	24	-	
		-	July 7-July 23	-	17	24	16	
		-	July 25-Aug. 8	-	15	24	16	100 Chinook per vessel per week landing limit
		-	Aug. 9-Aug. 16	-	8	24	16	75 Chinook per vessel per week landing limit
		-	Aug. 17-Aug. 19	-	3	24	16	100 Chinook per vessel per week landing limit
		-	Aug. 24-Sept. 6	-	14	24	16	23 Chinook per vessel per week landing limit
		-	Nov. 1-Dec. 31	-	61	22	16	
	<b>S'Klallam</b>							
	Area 4B inside waters	-	Jan. 1-Apr. 15	-	105	22	16	
	May 1-June 30	-	61	-	24	-		
	-	July 1-Oct. 31	-	123	24	16	Ocean troll closed Sept. 7	
	-	Nov. 1-Dec. 31	-	61	22	16		

a/ For earlier years see Review of 2004 Ocean Salmon Fisheries, Appendix C, Table C-7.

b/ For detailed regulations see TABLE I-2.



TABLE C-8. Council preseason adopted catch quotas (thousands of fish) for ocean fisheries north of Cape Falcon and critical stocks driving management. (Page 1 of 2)

Year	Critical Stocks	Chinook			Coho			
		Catch Quota			Critical Stocks	Catch Quota		
		Treaty Indian	Non-Indian Commercias	Sport		Treaty Indian	Non-Indian Commercias	Sport
1979	None	-	-	-	None	-	-	-
1980	None	-	-	-	Washington coastal coho	-	-	-
1981	None	-	-	-	Hoh and Skagit <sup>a/</sup>	-	372.0	248.0
1982	None	-	-	-	Washington coastal coho	-	293.0	215.0
1983	Columbia River hatchery and depressed upriver stocks	-	114.0	88.0	Queets and Skagit <sup>b/</sup>	-	164.0	318.0
1984	Columbia River Lower River and Spring Creek Hatchery tules	8.3	16.7	10.3	Grays Harbor	38.5	24.8	50.2
1985	Columbia River Spring Creek Hatchery tules	10.5	47.5 <sup>c/</sup>	37.2	Skagit	75.0	91.5	198.4
1986	Columbia River Spring Creek Hatchery tules	12.5	51.0	37.1	Quillayute and Queets	86.0	140.6	207.5
1987	Columbia River Spring Creek Hatchery tules	15.8	58.2 <sup>d/</sup>	44.6	Skagit	86.0	141.2	200.9
1988	Columbia River upriver stocks	60.0	73.7	29.8	Washington coastal and Puget Sound	68.0	0.0 <sup>e/</sup>	100.0
1989	Columbia River upriver stocks	32.0	47.5	47.5	Queets and Skagit	77.0	75.0	225.0
1990	Columbia River Lower River Hatchery tules	31.2	37.5	37.5	Queets and Skagit	90.0	105.0	245.0
1991	Columbia River Lower River Hatchery tules	33.0	40.0	40.0	Hood Canal and Skagit	80.0	87.0	233.0
1992	Columbia River Lower River and Spring Creek Hatchery tules, and Snake River falls	33.0	47.0	33.0	Hood Canal and Stillaguamish	68.0	19.0	141.0
1993	Columbia River Lower River and Spring Creek Hatchery tules, and Snake River falls	33.0	35.0	25.0	Skagit	90.0	47.5	202.5
1994	Columbia River Lower River Hatchery tules and Snake River falls	16.4	0.0	0.0	Washington coastal and Puget Sound	0.0	0.0	0.0
1995	Columbia River Lower River Hatchery tules and Snake River falls	12.0	0.0	0.0	Washington coastal and Puget Sound	30.0	25.0	75.0
1996	Columbia River Lower River Hatchery tules and Snake River falls	11.0	0.0	0.0	Washington coastal and Puget Sound	30.0	20.8	62.2
1997	Snake River falls	15.0	11.5	5.2	Washington coastal and Puget Sound	12.4	0.0	32.3 <sup>f/</sup>
1998	Columbia River Lower River Hatchery tules	15.0	6.5	3.5	Washington coastal and Oregon Coast Natural	10.0	0.0	16.0
1999	Columbia River Lower River Wild (Lewis River)	30.0	28.5	21.5	Queets, Strait of Juan de Fuca, and Oregon Coast Natural	38.5	20.0	110 <sup>g/</sup>
2000	Columbia River Lower River Wild (Lewis River)	25.5	12.5	12.5	Strait of Juan de Fuca, and Oregon Coast Natural	20.0	25.0 <sup>g/</sup>	75.0 <sup>g/</sup>
2001	Columbia River natural tules (Coweeman)	37.0	30.0	30.0	Oregon Coast Natural	90.0	75.0 <sup>g/</sup>	225.0 <sup>g/</sup>
2002	Columbia River natural tules (Coweeman)	60.0	82.5	67.5	Oregon Coast Natural	60.0	5.0 <sup>g/i/</sup>	115.0 <sup>g/i/</sup>

TABLE C-8. Council preseason adopted catch quotas (thousands of fish) for ocean fisheries north of Cape Falcon and critical stocks driving management. (Page 2 of 2)

Year	Critical Stocks	Chinook			Coho			
		Catch Quota			Catch Quota			
		Treaty Indian	Non-Indian Commercias	Sport	Treaty Indian	Non-Indian Commercias	Sport	
2003	Columbia River natural tules (Coweeman) and Snake River falls	60.0	64.4	59.6	Oregon Coast Natural	90.0	75.0 <sup>g/</sup>	225.0 <sup>g/</sup>
2004	Snake River falls and Columbia River natural tules (Coweeman)	49.0	44.5	44.5	Interior Fraser (B.C.), Oregon Coast Natural, and upper Columbia River escapement	75.0	67.5 <sup>g/</sup>	202.5 <sup>g/</sup>
2005	Snake River falls	48.0	43.3	43.3	Interior Fraser (B.C.) and Skagit River	50.0	23.2 <sup>g/</sup>	121.8 <sup>g/</sup>
2006	Columbia River natural tules (Coweeman) <sup>h/</sup>	42.2	34.0	31.0	Lower Columbia River natural and Interior Fraser (B.C.)	37.5	6.8 <sup>g/</sup>	73.2 <sup>g/</sup>
2007	Columbia River natural tules (Coweeman) <sup>h/</sup>	35.0	16.3	16.3	Lower Columbia River natural and Interior Fraser (B.C.)	38.0	22.4 <sup>g/</sup>	117.6 <sup>g/</sup>
2008	Lower River wild (Lewis River) <sup>h/</sup> and Columbia River natural tules	37.5	20.0	20.0	Lower Columbia River natural and Hood Canal Natural	20.0	4.0 <sup>g/</sup>	20.35 <sup>g/</sup>
2009	Columbia River natural tules	39.0	20.5	20.5	Lower Columbia River, Skagit, Stillaguamish, and Interior Fraser Natural	60.0	33.6 <sup>g/</sup>	176.4 <sup>g/</sup>
2010	Columbia River natural tules	55.0	56.0	61.0 <sup>i/</sup>	Lower Columbia River, Strait of Juan de Fuca, and Interior Fraser Natural	41.5	12.8 <sup>g/</sup>	67.2 <sup>g/</sup>
2011	Columbia River natural tules	41.0	30.9	33.7 <sup>j/</sup>	Lower Columbia River and Interior Fraser Natural	42.0	12.8 <sup>g/</sup>	67.2 <sup>g/</sup>

a/ Although the Skagit River escapement goal would not be achieved, management was based on meeting WDFW's escapement goal for Hoh River coho and allocation based on aggregation to Washington coastal tribes.

b/ The Council management regime was not expected to meet equitable adjustment requirements for Skagit River coho.

c/ Plus 7,430 hooking mortality for pink fishery.

d/ Plus 3,250 hooking mortality for pink fishery.

e/ Hooking mortality of 2,800 coho for June 1-15 fishery not included.

f/ Plus 1,200 hook-and-release mortality for the Neah Bay all-salmon-except-coho fishery.

g/ Marked hatchery coho only (healed adipose fin clip). Except 2004 non-Indian troll Sept. 1-5 between Queets River and Cape Falcon, and sport Aug. 29-Sept. 6 between Queets River and Leadbetter Point.

h/ Sharing of impacts on ESA listed Puget Sound Chinook also affected the shaping of ocean and inside fisheries.

i/ For 2002, the Council elected to constrain fishing so that the OCN exploitation rate would not exceed 12.5 percent per ODFW's recommendation to provide additional protection for lower Columbia River natural coho, which are listed as endangered under the Oregon State-ESA. The FMP objective for OCN coho was 15 percent.

j/ Includes mark-selective fishery quotas of: 12,000 (equivalent to 5,000 non-mark selective quota) in 2010, and 4,800 (equivalent to 2,000 non-mark selective quota) in 2011.

**GENERAL MANAGEMENT ACTIONS AND INSEASON CONFERENCES**

Mar. 3	National Marine Fisheries Service (NMFS) provides the Council with a letter outlining the 2011 management guidance for stocks listed under the Endangered Species Act (ESA) and stocks of concern.
Mar. 7	<p>Based on Council recommendations, NMFS takes inseason action to:</p> <ol style="list-style-type: none"> <li>1) Delay the scheduled opening for the commercial salmon fishery from Cape Falcon, Oregon to Humbug Mountain, Oregon, from March 15, 2011, to April 15, 2011.</li> <li>2) Cancel the commercial fishery from Humbug Mountain, Oregon to the Oregon/California Border previously scheduled for March 15 to April 30.</li> <li>3) Establish a recreational fishery from Horse Mountain to Point Arena open April 2-30, 2011, seven days per week, all salmon except coho, two fish per day, and Chinook minimum size limit of 24 inches total length.</li> <li>4) Establish a recreational fishery from Point Arena to the U.S./Mexico Border open April 2-30, 2011, seven days per week, all salmon except coho, two fish per day, and Chinook minimum size limit of 24 inches total length.</li> </ol> <p>New regulations to take effect May 1, 2011.</p>
Mar. 9	Council adopts three commercial, tribal, and recreational ocean salmon fishery management alternatives for public review.
Mar. 15-16	North of Cape Falcon Salmon Forum meets in Olympia and Lacey, Washington to initiate consideration of recommendations for treaty Indian and non-Indian salmon management alternatives.
Mar. 28-29	Council holds public hearings on proposed 2011 management alternatives in Westport, Washington; Coos Bay, Oregon; and Eureka, California.
Apr. 5-6	North of Cape Falcon Salmon Forum meets in Lynnwood, Washington to further consider recommendations for treaty Indian and non-Indian salmon management alternatives.
Apr. 13	Council adopts final ocean salmon fishery management recommendations for approval and implementation by the U.S. Secretary of Commerce. The proposed measures comply with the salmon fishery management plan (FMP) and the current biological opinions for listed species.
May 4	Ocean salmon seasons implemented as recommended by the Council and published in the <i>Federal Register</i> on May 5 (75 FR 25246), with an effective date of May 1, 2011.
May 26	NMFS inseason conference number two results in closing the non-Indian commercial salmon troll fishery to retention of incidentally caught Pacific halibut effective May 28, 2011, until further notice.
June 20	NMFS inseason conference number three for the U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery results in closing the fishery effective June 21; the fishery will reopen June 23 through June 30 with a landing and possession limit of 30 Chinook salmon per vessel for the open period.
July 14	NMFS inseason conference number four results in changing the open period landing and possession limit to 30 Chinook and 50 marked coho per vessel north of Leadbetter Point or 30 Chinook and 50 marked coho south of Leadbetter Point for the U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery effective July 15.
July 18	NMFS inseason conference number five results in closing the commercial salmon fishery from Oregon/California border to Humboldt South Jetty effective July 18 as the quota was reached.
July 28	NMFS inseason conference number six results in modifying the commercial salmon fishery from Oregon/California border to Humboldt south jetty to open Monday, August 1 through Friday, August 5, subject to a quota of 880 Chinook (1,000 preseason minus 120 from 176 overage in July fishery; KRFC impact neutral), with a daily landing limit of 30 Chinook per vessel per day.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2011.<sup>a/</sup> (Page 2 of 6)

**GENERAL MANAGEMENT ACTIONS AND INSEASON CONFERENCES (continued)**

	NMFS inseason conference number seven results in: <ol style="list-style-type: none"> <li>1) Reopening the non-Indian commercial salmon troll fishery to retention of incidentally caught Pacific halibut effective July 29, 2011, subject to a landing limit of no more than one halibut per seven-day period, Friday through Thursday, and a remaining quota of 2,952 lbs.</li> <li>2) Opening the recreational fishery from Queets River to Leadbetter Point seven days per week effective August 1 until further notice.</li> <li>3) Changing the bag limit to allow retention of two Chinook for the U.S./Canada border to Queets River, recreational all-salmon fishery effective August 1.</li> </ol>
Aug. 2	NMFS inseason conference number eight results in closing the commercial salmon fishery from Oregon/California border to Humboldt South Jetty effective August 2 as the quota was reached.
Aug. 3	NMFS inseason conference number nine results in changing the bag limit to allow retention of two Chinook for the Queets River to Cape Falcon, recreational all-salmon fishery effective August 7.
Aug. 11	NMFS inseason conference number 10 results in suspending the August 12-16 open period for the for the U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery.
Aug. 12	NMFS inseason conference number 11 results in changing the bag limit to allow retention of no more than one Chinook for the Queets River to Cape Falcon, recreational all-salmon fishery effective August 14.
Aug. 16	NMFS inseason conference number 12 results in closing the recreational fishery from Queets River to Leadbetter Point on Fridays and Saturdays until further notice.
Aug. 17	NMFS inseason conference number 13 results in opening the U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery for one day, August 19, with a landing limit of 12 Chinook and 50 marked coho per vessel for the open period.
Aug. 23	NMFS inseason conference number 14 results in opening the recreational salmon fishery from the U.S./Canada Border to Cape Falcon, Oregon to seven days per week with no retention of Chinook salmon effective August 29.
Aug. 24	NMFS inseason conference number 15 results: <ol style="list-style-type: none"> <li>1. Changing the bag limit to prohibit retention of Chinook for the U.S./Canada border to Cape Falcon, recreational all-salmon fishery effective August 29.</li> <li>2. Opening the recreational fishery from Queets River to Leadbetter Point seven days per week effective August 29 until further notice.</li> </ol>
Aug. 25	NMFS inseason conference number 16 results in increasing the Cape Falcon to Humbug Mt, recreational fishery non-mark selective coho quota to 5,900 (3,000 preseason quota plus impact neutral roll-over of 8,000 coho from the July-August mark-selective coho quota).
Aug. 31	NMFS inseason conference number 17 results in: <ol style="list-style-type: none"> <li>1. Opening the U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery Saturday through Tuesday, September 3-6 and September 10-13. With an open period landing limit per vessel of 20 Chinook and 100 marked coho.</li> <li>2. Changing the bag limit to allow retention of one Chinook for the U.S./Canada border to Cape Falcon, recreational all-salmon fishery effective September 5.</li> <li>3. An impact neutral transfer of 1,000 marked coho from the Neah Bay recreational fishery quota resulting in increasing the La Push recreational fishery quota by 850 marked coho.</li> </ol>
Sept. 6	NMFS inseason conference number 18 results in closing the Cape Falcon to Humbug Mt, recreational fishery non-mark selective coho fishery effective September 7 as the quota is reached, and reopening the all salmon except coho fishery effective September 8.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2011.<sup>a/</sup> (Page 3 of 6)

**NON-INDIAN COMMERCIAL TROLL SEASONS**

April 15-July 9	Cape Falcon to Humbug Mt. non-Indian commercial all-salmon-except-coho fishery opens seven days per week.
May 1-31	Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery opens.  Pt. Arena to Pt. Sur non-Indian commercial all-salmon-except-coho fishery opens seven days per week.
May 1-June 30	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery opens May 1 through the earlier of June 30 or a 20,600 Chinook quota. 1) May 1-June 21: Seven days per week, no landing and possession limit. 2) June 23-30: landing and possession limit of 30 Chinook per vessel per open period.
May 1-July 5	Pt. Sur to U.S./Mexico border non-Indian commercial all-salmon-except-coho fishery opens seven days per week.
June 1	Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery opens through the earlier of June 30 or a 1,500 Chinook quota.
June 25-July 5	Pt. Arena to Pt. Sur non-Indian commercial all-salmon-except-coho fishery opens seven days per week.
June 30	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery closes as scheduled.  Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery closes as scheduled.
July 1	Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery opens through the earlier of July 31 or a 1,200 Chinook quota.  U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery opens through the earlier of September 15 or a 10,300 preseason Chinook guideline or a 12,800 marked coho quota. 1) July 1-12: Friday through Tuesday, landing and possession limit of 50 Chinook and 50 coho per vessel per open period north of Leadbetter Point or 50 Chinook and 50 coho south of Leadbetter Point. 2) July 15-Aug. 9: Friday through Tuesday, landing and possession limit of 30 Chinook and 50 coho per vessel per open period north of Leadbetter Point or 30 Chinook and 50 coho south of Leadbetter Point. 3) Aug. 19: landing and possession limit of 12 Chinook and 50 coho per vessel per open period. 4) Aug. 27-29: landing and possession limit of 12 Chinook and 75 coho per vessel per open period. 5) Sept. 3-6, 10-13: landing and possession limit of 20 Chinook and 100 coho per vessel per open period.
July 2	OR/CA border to Humboldt south jetty non-Indian commercial all-salmon-except-coho fishery opens through the earlier of July 20 or a 1,400 Chinook quota.
July 9-27	Pt. Arena to U.S./Mexico border non-Indian commercial all-salmon-except-coho fishery opens Saturday-Wednesday.
July 17-Aug. 31	Cape Falcon to Humbug Mt. non-Indian commercial all-salmon-except-coho fishery opens seven days per week.
July 18	OR/CA border to Humboldt south jetty non-Indian commercial all-salmon-except-coho fishery closes as quota is reached.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2011.<sup>a/</sup> (Page 4 of 6)

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

July 23-27	Horse Mt. to Pt. Arena non-Indian commercial all-salmon-except-coho fishery opens seven days per week.
July 29-Aug. 29	Horse Mt. to U.S./Mexico border non-Indian commercial all-salmon-except-coho fishery opens seven days per week.
July 31	Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery closes as scheduled.
Aug. 1	Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery opens through the earlier of August 31 or a 1,000 Chinook quota.  OR/CA border to Humboldt south jetty non-Indian commercial all-salmon-except-coho fishery opens through the earlier of Aug. 5 or an 880 Chinook quota (1,000 preseason quota minus overage from July fishery; KRFC impact neutral).
Aug. 2	OR/CA border to Humboldt south jetty non-Indian commercial all-salmon-except-coho fishery closes as quota is reached.
Aug. 31	Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery closes as scheduled.
Sept. 1-30	Horse Mt. to Pt. Sur non-Indian commercial all-salmon-except-coho fishery opens seven days per week.
Sept. 13	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery closes as Chinook quota is reached.
Oct. 1-31	Cape Falcon to Humbug Mt. non-Indian commercial all-salmon-except-coho fishery opens seven days per week: landing and possession limit of 50 Chinook per vessel per calendar week.
Oct. 3-14	Pt. Reyes to Pt. San Pedro non-Indian commercial all-salmon-except-coho fishery opens Monday-Friday.

**TREATY INDIAN COMMERCIAL TROLL SEASONS**

May 1	All-salmon-except-coho fisheries open through the earlier of June 30 or a 19,750 Chinook quota.
June 30	All-salmon-except-coho fisheries close as scheduled.
July 1	All-salmon fisheries open through the earlier of September 15, a 21,250 Chinook quota, or a 42,000 non-mark-selective coho quota.
Sept. 6	All-salmon fisheries close as the Chinook quota is reached.

**RECREATIONAL SEASONS**

Mar. 15-July 1	Cape Falcon to Humbug Mt. all-salmon-except-coho fishery opens seven days per week with a 24-inch minimum size limit for Chinook.
Apr. 2-Oct. 30	Horse Mt. to Pigeon Pt. all-salmon-except-coho fishery opens seven days per week with a 24-inch minimum size limit for Chinook.
Apr. 2-Sept. 18	Pigeon Pt. to U.S./Mexico border all-salmon-except-coho fishery opens seven days per week with a 24-inch minimum size limit for Chinook.
May 14-Sept. 5	Humbug Mt. to Horse Mt. all-salmon-except-coho fishery opens seven days per week with a 24-inch minimum size limit for Chinook.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2011.<sup>a/</sup> (Page 5 of 6)

**RECREATIONAL SEASONS, (continued)**

June 18	U.S./Canada border to Cape Falcon all-salmon-except-coho mark-selective Chinook fishery opens through the earlier of June 25 or a quota of 4,800 marked Chinook. Fishery is open seven days per week with a 24-inch minimum size limit for Chinook.
June 25	U.S./Canada border to Cape Falcon all-salmon-except-coho mark-selective Chinook fishery closes as scheduled.
June 26	<p>U.S./Canada border to Cape Alava, all-salmon mark-selective coho fishery opens through the earlier of September 18 or a 6,990 marked coho quota, with a 3,330 Chinook guideline (3,200 preseason plus transfer from May mark-selective fishery), seven days per week. Bag-limit is two fish per day plus one additional pink salmon; no more than one Chinook per day prior to August 1 and September 4-18, no more than two Chinook per day August 1-28, and no Chinook retention August 29 to September 4. No chum retention in August and September.</p> <p>Cape Alava to Queets River, all-salmon mark-selective coho fishery opens through the earlier of September 18 or a 1,700 marked coho quota, with a 1,410 Chinook guideline (1,350 preseason plus transfer from May mark-selective fishery), seven days per week. Bag-limit is two fish per day plus one additional pink salmon; no more than one Chinook per day prior to August 1 and September 5-18, no more than two Chinook per day August 1-28, and no Chinook retention August 29 to September 4. No chum retention in August and September.</p> <p>Queets River to Leadbetter Pt., all-salmon mark-selective coho fishery opens though the earlier of September 18 or a 24,860 marked coho quota, with a 17,600 Chinook guideline (16,900 preseason plus transfer from May mark-selective fishery). Fishery is open Sunday to Thursday through July 31, seven days per week August 1-18, Sunday to Thursday August 19-29, and seven days per week thereafter. Bag-limit is two fish per day; no more than one Chinook per day prior to August 7, August 14-28 and September 5-18; no more than two Chinook per day August 7-13, and; no Chinook retention August 29 to September 4. Grays Harbor Control Zone closed beginning August 1.</p> <p>Leadbetter Pt. to Cape Falcon, all-salmon mark-selective coho fishery opens though the earlier of September 30 or a 33,600 marked coho quota, with a 7,710 Chinook guideline (7,400 preseason plus transfer from May mark-selective fishery) seven days per week. Bag-limit is two fish per day; no more than one Chinook per day prior to August 7, August 14-28, and September 5-30; no more than two Chinook per day August 7-28, and, no Chinook retention August 29 to September 4.</p>
July 2	Cape Falcon to OR/CA border all-salmon mark-selective-coho fishery opens through earlier of August 13 or a 15,000 marked coho quota. Fishery is open seven days per week with a 24-inch minimum size limit for Chinook.
Aug. 13	Cape Falcon to OR/CA border all-salmon mark-selective-coho fishery closes as scheduled.
Sept. 1	Cape Falcon to Humbug Mt, recreational fishery non-mark selective coho fishery opens through September 10 or a 5,900 coho quota (3,000 preseason plus roll-over from July-August mark selective coho quota; LCN impact neutral).
Sept 7.	Cape Falcon to Humbug Mt, recreational fishery non-mark selective coho fishery closes as the quota is reached.
Sept. 18	<p>U.S./Canada border to Cape Alava, all-salmon mark-selective coho fishery closes as scheduled.</p> <p>Cape Alava to Queets River, all-salmon mark-selective coho fishery closes as scheduled.</p> <p>Queets River to Leadbetter Point, all-salmon mark-selective coho fishery closes as scheduled.</p>
Sept. 24	La Push area (48 00'00" N. Lat. to 47 50'00" N. Lat.), all-salmon mark-selective coho fishery opens through the earlier of October 9 or a 50 Chinook quota or a 50 coho quota.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2011.<sup>a/</sup> (Page 6 of 6)

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**RECREATIONAL SEASONS, (continued)**

Sept. 30	Leadbetter Point to Cape Falcon all-salmon mark-selective coho fishery closes as scheduled.
Oct. 9	La Push area, all-salmon mark-selective coho fishery closes as scheduled.

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a/ Unless stated otherwise, season openings or modifications of restrictions are effective at 0001 hours of the listed date. Closures are effective at 2359 hours of the listed date.



**APPENDIX D  
HISTORICAL ECONOMIC DATA**

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

Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Season <sup>a/</sup>	May	June	July	Aug.	Sept.	Season
	CHINOOK							COHO						
<u>Crescent City</u>														
1976-1980	8.6	8.5	8.8	9.0	9.8	8.4	-	8.9	4.0	4.6	6.2	7.0	7.4	5.6
1981-1985	-	7.7	8.3	8.6	8.7	9.2	-	8.5	3.9	4.6	5.4	6.4	6.8	5.9
1986-1990	-	-	9.6	9.5	9.2	9.4	-	9.6	-	5.0	5.0	4.5	5.6	5.0
1991-1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996-2000	-	-	-	-	8.3	10.2	-	10.0	-	-	-	-	-	-
2001	-	-	-	-	-	13.8	-	13.8	-	-	-	-	-	-
2002	-	-	-	-	13.4	12.1	11.1	12.2	-	-	-	-	-	-
2003	12.0	12.0	12.0	-	-	10.3	9.1	11.2	-	-	-	-	-	-
2004	10.1	-	9.8	11.6	11.9	10.8	-	11.8	-	-	-	-	-	-
2005	-	-	-	-	-	14.1	-	14.1	-	-	-	-	-	-
2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2007	-	-	-	-	-	13.7	-	13.7	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2011 <sup>b/</sup>	-	-	-	15.5	16.0	-	-	16.0	-	-	-	-	-	-
<u>Eureka</u>														
1976-1980	7.7	8.1	8.4	8.9	9.2	9.5	-	8.4	4.1	4.4	6.2	6.9	6.8	5.1
1981-1985	-	7.4	8.2	8.9	9.2	9.6	-	6.6	4.6	4.7	5.9	6.2	6.6	5.7
1986-1990	-	-	9.0	10.1	10.2	9.2	9.6	9.3	-	5.1	5.6	5.5	6.2	5.3
1991-1995	-	-	-	-	-	9.5	17.7	10.1	-	-	-	-	6.2	6.2
1996-2000	-	-	-	-	11.9	10.1	-	10.2	-	-	-	-	-	-
2001	-	-	-	-	-	11.5	-	11.5	-	-	-	-	-	-
2002	-	-	-	-	11.4	12.1	-	12.0	-	-	-	-	-	-
2003	-	-	-	-	-	9.9	-	9.9	-	-	-	-	-	-
2004	-	-	-	-	-	11.4	-	11.4	-	-	-	-	-	-
2005	-	-	-	-	-	11.8	-	11.8	-	-	-	-	-	-
2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2007	-	-	-	-	-	12.3	-	12.3	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2011 <sup>b/</sup>	-	-	-	13.7	11.7	-	-	13.3	-	-	-	-	-	-

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

Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Season <sup>a/</sup>	May	June	July	Aug.	Sept.	Season
	CHINOOK							COHO						
<u>Fort Bragg</u>														
1976-1980	7.7	8.5	7.8	10.5	10.1	10.1	-	10.0	4.1	4.7	6.8	7.0	8.8	5.9
1981-1985	7.6	9.0	10.4	9.6	10.3	10.1	-	9.8	5.3	6.0	6.3	6.6	7.2	6.2
1986-1990	-	9.3	10.2	9.3	10.1	10.1	-	9.6	-	5.3	5.8	6.4	6.2	5.7
1991-1995	-	8.2	-	-	10.5	10.4	-	10.7	-	-	-	6.4	-	6.4
1996-2000	-	-	-	-	11.0	11.4	-	11.3	-	-	-	-	-	-
2001	-	12.3	-	-	-	13.0	-	12.8	-	-	-	-	-	-
2002	-	-	-	11.7	13.8	15.3	-	13.4	-	-	-	-	-	-
2003	-	14.9	-	12.7	12.1	11.4	-	12.4	-	-	-	-	-	-
2004	-	-	-	12.0	11.7	13.1	-	12.0	-	-	-	-	-	-
2005	-	-	-	-	-	12.2	-	12.2	-	-	-	-	-	-
2006	-	-	-	-	-	15.9	-	15.9	-	-	-	-	-	-
2007	12.5	-	-	-	15.8	12.9	-	15.6	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	15.8	14.6	-	-	15.2	-	-	-	-	-	-
2011 <sup>b/</sup>	-	-	-	14.3	14.8	12.4	-	14.5	-	-	-	-	-	-
<u>San Francisco</u>														
1976-1980	8.5	8.9	7.8	10.7	11.3	11.7	-	9.9	4.6	5.2	7.1	6.8	8.4	6.1
1981-1985	6.8	8.6	9.4	10.5	10.5	10.1	-	9.7	5.3	5.9	6.7	6.6	7.8	6.3
1986-1990	-	9.2	10.2	10.9	12.4	12.1	-	10.1	-	5.6	6.1	6.7	6.2	5.9
1991-1995	-	8.6	9.3	10.2	11.3	11.8	-	10.0	-	5.3	5.9	5.6	-	5.2
1996-2000	9.9	9.4	9.8	11.0	12.5	12.9	-	10.6	-	-	-	-	-	-
2001	-	10.9	12.9	12.8	14.2	14.8	16.8	12.7	-	-	-	-	-	-
2002	-	11.4	12.9	12.7	14.7	15.1	14.9	12.6	-	-	-	-	-	-
2003	-	12.0	15.0	12.3	12.7	13.2	11.2	13.6	-	-	-	-	-	-
2004	-	13.4	11.8	12.0	14.9	13.8	12.9	12.4	-	-	-	-	-	-
2005	-	-	-	12.9	13.7	15.0	15.2	13.4	-	-	-	-	-	-
2006	-	-	-	15.1	14.4	16.8	18.0	15.3	-	-	-	-	-	-
2007	-	11.4	-	13.2	14.3	17.5	19.0	12.8	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	14.9	-	-	-	14.9	-	-	-	-	-	-
2011 <sup>b/</sup>	-	13.2	13.1	13.8	13.9	13.0	14.9	13.5	-	-	-	-	-	-

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 <sup>a/</sup>	May	June	July	Aug.	Sept.	Season
CHINOOK									COHO					
<b>Monterey</b>														
1976-1980	8.5	9.3	7.9	11.3	13.0	10.1	-	10.1	4.6	4.8	5.9	7.1	6.5	5.3
1981-1985	7.3	8.6	9.6	10.4	11.1	10.2	-	9.3	5.4	5.2	6.5	7.6	8.3	6.1
1986-1990	-	10.3	11.3	12.2	12.3	11.7	-	11.1	-	5.6	6.0	6.5	6.4	5.9
1991-1995	-	9.4	10.9	11.3	11.7	11.1	-	10.6	-	4.8	5.6	5.5	-	5.0
1996-2000	11.1	10.3	11.0	12.4	11.8	10.1	-	10.8	-	-	-	-	-	-
2001	-	11.5	11.9	12.6	11.0	14.7	-	11.6	-	-	-	-	-	-
2002	-	11.1	13.5	14.4	13.2	13.9	-	13.0	-	-	-	-	-	-
2003	-	13.0	14.4	14.0	14.7	13.8	-	13.8	-	-	-	-	-	-
2004	-	13.9	12.5	13.2	14.5	13.7	-	13.2	-	-	-	-	-	-
2005	-	10.9	13.1	14.1	16.5	13.1	-	12.1	-	-	-	-	-	-
2006	-	12.4	12.6	16.2	13.3	15.7	-	12.6	-	-	-	-	-	-
2007	-	14.1	13.2	13.6	14.1	17.6	-	14.0	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	14.2	-	-	-	14.2	-	-	-	-	-	-
2011 <sup>b/</sup>	-	14.9	14.4	14.5	12.5	12.9	-	14.6	-	-	-	-	-	-
<b>Total Statewide</b>														
1976-1980	8.3	8.6	9.3	10.1	10.7	10.4	-	9.5	3.9	4.6	6.4	6.9	7.4	5.5
1981-1985	7.1	8.5	9.7	10.0	10.2	10.0	-	9.5	5.2	5.6	6.3	6.6	7.0	6.2
1986-1990	-	9.5	10.2	10.3	11.1	10.8	9.6	10.1	-	5.2	5.9	6.5	6.0	5.6
1991-1995	-	9.0	9.9	10.5	11.1	11.2	17.7	10.1	-	4.8	5.6	5.6	6.2	5.1
1996-2000	10.3	10.0	10.4	11.5	12.3	12.1	-	10.7	-	-	-	-	-	-
2001	-	11.2	12.6	12.8	14.1	13.5	16.8	12.5	-	-	-	-	-	-
2002	-	11.3	13.1	12.8	13.9	13.8	13.0	12.8	-	-	-	-	-	-
2003	12.0	13.4	14.9	12.7	12.2	11.7	11.0	13.0	-	-	-	-	-	-
2004	10.1	13.5	11.9	12.1	12.5	12.7	12.9	12.4	-	-	-	-	-	-
2005	-	10.9	13.1	13.1	14.1	13.1	15.2	12.8	-	-	-	-	-	-
2006	-	12.4	12.6	15.1	14.4	16.4	18.0	15.0	-	-	-	-	-	-
2007	12.5	12.2	13.2	13.2	15.3	13.7	19.0	13.4	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	15.4	14.6	-	-	15.1	-	-	-	-	-	-
2011 <sup>b/</sup>	-	13.8	13.5	14.2	14.6	12.8	14.9	14.2	-	-	-	-	-	-

a/ Total statewide and season averages includes minor landings from Oregon prior to 2005.

b/ Preliminary.

TABLE D-2. Oregon monthly troll Chinook and coho average dressed weights (pounds) by area of landing.

Year	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
CHINOOK											
1971-1975	-	-	9.5	10.7	10.4	10.2	9.4	10.7	16.9	-	10.2
1976-1980	-	-	10.2	10.2	10.6	10.0	9.9	10.5	15.4	-	10.3
1981-1985	-	-	9.0	9.1	9.5	9.0	8.8	11.5	14.7	-	9.2
1986-1990	-	-	9.3	9.5	9.6	9.0	9.3	10.4	13.8	-	9.5
1991-1995	-	-	9.9	9.8	9.2	9.4	9.2	10.7	12.3	-	9.6
1996-2000	-	-	11.1	11.7	12.0	10.5	10.1	12.5	14.6	-	10.9
2001	-	10.3	10.8	10.3	10.5	10.7	9.8	10.3	13.8	13.2	10.5
2002	12.3	9.9	10.2	10.5	11.2	10.9	11.4	11.1	15.1	14.1	10.9
2003	10.3	9.9	11.6	11.2	11.8	11.3	10.5	10.4	15.6	15.0	10.9
2004	9.4	10.1	10.9	11.5	11.5	11.4	9.8	12.2	14.4	12.6	10.9
2005	8.6	8.9	9.9	10.5	10.7	10.9	11.9	11.4	15.4	13.9	10.7
2006	-	-	12.2	13.6	15.5	15.3	13.8	16.0	15.8	13.7	13.9
2007	-	13.4	13.7	13.9	13.7	11.9	12.6	15.4	13.5	14.3	13.1
2008	-	-	10.4	10.4	12.1	11.5	14.3	19.9	15.3	-	11.1
2009	-	-	11.0	13.1	12.2	13.0	12.5	15.5	-	-	13.3
2010	-	-	12.4	12.3	12.7	13.7	13.6	17.6	-	-	12.8
2011 <sup>a/</sup>	-	11.4	11.9	13.1	14.3	13.5	13.3	14.5	11.8	-	12.5
COHO											
1971-1975	-	-	-	5.1	6.1	7.0	7.0	7.9	-	-	6.2
1976-1980	-	-	-	4.4	5.5	6.1	5.9	6.3	-	-	5.5
1981-1985	-	-	-	-	4.8	5.3	3.6	-	-	-	5.0
1986-1990	-	-	-	4.8	4.8	5.1	5.4	7.2	-	-	4.9
1991-1995	-	-	-	4.2	4.0	4.8	5.4	-	-	-	4.7
1996-2000	-	-	-	-	-	5.9	6.6	-	-	-	5.9
2001	-	-	-	-	5.0	6.2	6.0	-	-	-	5.6
2002	-	-	-	-	-	7.0	-	-	-	-	7.0
2003	-	-	-	-	5.2	6.7	6.7	-	-	-	6.4
2004	-	-	-	-	5.6	6.8	7.9	-	-	-	7.5
2005	-	-	-	-	5.4	7.7	8.3	-	-	-	7.5
2006	-	-	-	-	7.2	9.1	9.5	-	-	-	9.2
2007	-	-	-	-	4.9	6.0	7.0	-	-	-	5.9
2008	-	-	-	-	5.2	8.6	8.9	-	-	-	8.4
2009	-	-	-	-	4.7	6.0	7.1	-	-	-	6.0
2010	-	-	-	-	6.1	7.3	12.0	-	-	-	6.7
2011 <sup>a/</sup>	-	-	-	-	4.9	6.0	6.9	-	-	-	5.6

a/ Preliminary.

TABLE D-3. Washington monthly troll Chinook and coho salmon average dressed weights (pounds).<sup>a/</sup>

Year	May		June		July		Aug.		Sept.		Oct.		Season	
	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian	Non-Indian	Treaty Indian <sup>b/</sup>	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
1981-1985	7.3	9.7	8.8	-	9.6	12.3	9.3	12.2	7.7	12.7	5.1	-	6.4	10.6
1986-1990	8.1	9.5	8.1	11.1	9.6	12.1	9.1	12.1	6.8	12.2	5.2	12.6	6.7	10.4
1991-1995 <sup>c/</sup>	7.1	10.7	7.8	10.8	8.7	12.1	8.3	11.2	6.6	11.2	6.4	8.3	6.9	10.2
1996-2000 <sup>c/</sup>	8.4	11.2	8.5	12.0	7.1	12.3	8.4	11.0	7.5	10.7	-	-	8.5	11.5
2001	7.4	10.3	9.5	11.7	12.1	12.6	9.7	10.9	8.7	10.1	-	-	9.5	11.4
2002	9.5	11.4	12.9	12.2	11.5	13.1	11.8	14.5	8.3	NA	-	-	11.3	12.6
2003	11.2	12.4	9.3	12.9	13.9	16.0	18.0	17.4	13.4	13.9	-	-	12.5	14.6
2004	10.2	11.6	12.1	14.4	13.7	16.2	13.0	16.5	17.3	16.8	5.0	-	11.8	14.2
2005	9.1	10.7	9.9	11.7	16.2	17.1	18.4	17.9	12.0	-	-	-	11.9	13.4
2006	8.5	11.9	9.8	12.3	13.3	15.6	10.4	15.4	7.2	14.4	-	-	10.2	13.2
2007	7.7	12.0	8.2	12.3	8.2	14.3	14.2	17.0	6.8	15.8	-	-	8.9	12.9
2008	7.8	11.1	7.7	11.3	8.5	12.5	7.5	12.3	7.1	11.2	-	-	7.5	11.6
2009	8.7	11.3	7.4	12.4	9.4	16.2	9.4	15.1	5.8	12.7	-	-	8.1	12.6
2010	7.2	10.4	7.5	11.6	9.6	13.2	10.3	13.1	10.2	12.3	-	-	8.7	11.9
2011	8.9	10.3	9.1	11.4	12.2	13.6	14.1	15.0	15.0	17.2	-	-	11.0	12.0
COHO														
1980	2.5	-	3.4	-	4.3	4.8	5.7	6.0	6.9	5.7	-	-	3.7	5.2
1981-1985	2.3	-	3.2	-	3.8	4.6	4.9	4.6	5.6	5.4	6.5	5.8	4.6	4.5
1986-1990	-	-	2.8	-	4.0	4.9	4.2	4.4	4.9	5.5	5.3	7.0	4.1	4.5
1991-1995	-	-	2.7	-	3.7	3.7	4.4	4.7	3.9	5.4	5.9	-	4.3	4.6
1996-2000	-	-	4.0	-	5.0	4.2	4.4	5.2	5.0	6.3	-	-	4.8	5.1
2001	-	-	5.2	-	4.8	5.0	5.6	6.1	6.0	6.8	-	-	5.6	6.0
2002	12.0	-	5.0	-	5.4	10.0	6.6	5.9	5.4	-	-	-	5.8	6.0
2003	7.3	-	-	-	5.3	5.1	6.2	6.4	5.8	7.1	-	-	5.7	6.0
2004	5.0	-	5.0	-	5.5	5.9	6.0	6.7	7.9	7.3	7.4	-	6.2	6.8
2005	3.7	-	3.9	-	4.5	6.1	6.9	7.0	5.5	-	-	-	6.3	6.8
2006	5.5	-	4.3	-	5.6	5.9	6.4	7.1	6.3	10.1	-	-	6.1	7.7
2007	-	-	4.8	-	4.3	4.9	7.1	5.9	6.9	6.4	-	-	5.5	5.6
2008	-	-	3.4	-	6.5	6.2	7.3	8.6	9.3	9.7	-	-	8.6	8.4
2009	-	-	3.5	-	5.2	5.5	6.1	7.1	6.2	7.7	-	-	5.7	6.8
2010	-	-	-	-	6.3	6.5	6.3	7.7	8.8	9.0	-	-	7.0	7.1
2011	-	-	-	-	5.2	5.2	5.8	5.9	5.9	6.3	-	-	5.7	5.6

a/ All values in this table are based on preliminary information available at the start of each year's review. Treaty Indian statistics include landings from Puget Sound.

b/ Season totals include additional winter treaty Indian troll.

c/ In 1994-1996 the non-Indian fishery for Chinook was closed north of Cape Falcon; however, Chinook were caught off Oregon and landed in Washington.

TABLE D-4. California troll combined Chinook and coho salmon landings in dressed weight, value of landings and number of registered vessels making commercial salmon landings.<sup>a/</sup>

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 (2011 dollars)
1960	6,221	3,339	1,365	-	2,446	14,927
1961-1965	7,772	4,206	1,586	-	2,642	15,734
1966-1970	7,925	4,327	2,088	-	2,089	11,225
1971-1975	7,917	6,338	2,542	-	2,461	10,341
1976-1980	7,233	12,083	3,997	-	2,989	8,826
1981-1985	5,082	11,826	3,729	4,920	3,099	6,506
1986-1990	8,392	21,532	2,487	3,622	8,593	14,889
1991-1995	3,083	7,550	1,447	2,960	5,171	7,697
1996-2000	4,337	7,091	852	2,068	8,223	11,080
2001	2,409	4,773	689	1,650	6,927	8,672
2002	5,008	7,776	708	1,586	10,982	13,529
2003	6,392	12,181	584	1,521	20,858	25,153
2004	6,230	17,895	741	1,511	24,150	28,319
2005	4,347	12,913	680	1,477	18,990	21,549
2006	1,043	5,350	477	1,408	11,216	12,329
2007	1,525	7,902	601	1,390	13,149	14,046
2008	-	-	-	1,306	-	-
2009	-	-	-	1,281	-	-
2010	228	1,246	215	1,238	5,794	5,923
2011 <sup>b/</sup>	988	5,113	462	1,167	11,068	11,068

a/ Derived from vessel registrations and fish landing tickets.

b/ Preliminary.



TABLE D-5. Oregon troll combined Chinook and coho salmon landings in dressed weight, value of landings and number of registered vessels making commercial salmon landings.<sup>a/</sup>

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 (2011 dollars)
1974	-	7,937	2,253	-	3,523	13,037
1975	-	5,808	2,304	-	2,521	8,523
1976-1980 <sup>b/</sup>	6,679	8,185	3,875	4,314	2,112	5,020
1981-1985 <sup>c/d/</sup>	2,969	5,774	2,050	2,993	2,817	5,191
1986-1990	5,688	6,641	1,557	2,528	4,265	6,704
1991-1995 <sup>e/</sup>	1,265	3,294	476	1,465	6,920	9,631
1996-2000	1,428	3,063	399	1,062	7,677	9,827
2001 <sup>f/</sup>	2,949	4,721	449	1,175	10,515	13,163
2002 <sup>f/</sup>	3,498	5,391	468	1,175	11,519	14,190
2003 <sup>f/</sup>	3,681	7,222	494	1,178	14,620	17,630
2004 <sup>f/</sup>	2,920	9,919	595	1,181	16,670	19,548
2005 <sup>f/</sup>	2,691	8,503	565	1,168	15,050	17,078
2006 <sup>f/</sup>	499	2,701	357	1,127	7,565	8,316
2007	565	2,822	436	1,009	6,473	6,915
2008	70	494	138	1,092	3,579	3,823
2009	146	345	225	1,062	1,531	1,584
2010	513	2,791	370	1,021	7,543	7,712
2011 <sup>g/</sup>	403	2,390	302	1,003	7,914	7,914

a/ Derived from vessel registrations and fish landing tickets.

b/ In 1980, the establishment of a restricted vessel permit system drew a number of historically active vessels back into the fishery.

c/ In 1984, vessels were not required to land at least one salmon 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/ In 1985, vessels traditionally landing salmon south of Cape Blanco and north of Cape Falcon were not required to land at least one salmon to be eligible for a permit in 1986. The Oregon Fish and Wildlife Commission waived this requirement because of the complete closure of the coho season south of Cape Blanco and a limited one-day coho season between the Columbia River and Cape Falcon.

e/ During the 1991 session of the Oregon Legislature, legislation passed waiving the requirement that troll permit holders must buy a 1991 permit to be able to renew for 1992. This was a one-time exemption for 1991 only.

f/ Permits were reissued in a lottery, because the total number of permits had fallen below 1,200.

g/ 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.<sup>a/</sup>

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 (2011 dollars)
1978	4,746	10,025	3,041	3,291	3,297	9,260
1979	5,262	15,091	2,778	3,068	5,432	14,087
1980	3,398	7,114	2,626	2,797	2,709	6,438
1981-1985 <sup>b/c/</sup>	1,433	3,225	1,675	2,233	1,696	3,438
1986-1990	752	1,670	913	1,349	1,997	3,366
1991-1995 <sup>d/e/f/g/</sup>	345	834	397	586	1,607	2,355
1996-2000 <sup>h/i/j/</sup>	126	197	54	270	4,188	5,497
2001	290	383	57	169	6,718	8,409
2002	679	758	75	165	10,102	12,444
2003	875	991	82	163	12,087	14,576
2004	594	1,185	86	160	13,779	16,157
2005	481	1,290	91	158	14,170	16,080
2006	231	1,045	84	158	12,440	13,675
2007	217	953	79	158	12,062	12,885
2008	114	709	86	158	8,244	8,807
2009	291	1,169	97	158	12,051	12,463
2010	537	3,115	116	158	26,856	27,457
2011	339	1,687	112	158	15,066	15,066

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/ In 1984 312 licenses and delivery permits purchased by buyback program.

c/ In 1985 118 licenses and delivery permits purchased by buyback program.

d/ The 1994 season was closed north of Cape Falcon, but Chinook were caught off Oregon and landed in Puget Sound.

e/ Value information in 1994 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/ In 1995 190 licenses and delivery permits purchased by buyback program.

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

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

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

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon.<sup>a/</sup> (Page 1 of 5)

Year	Vessels			Catch <sup>c/</sup>		
	Length Category (feet)	Number <sup>b/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2011 <sup>d/</sup>	<20	26	6%	244	6,348	1%
	21-25	86	19%	733	63,021	6%
	26-30	78	17%	892	69,564	7%
	31-35	91	20%	1,742	158,546	16%
	36-40	86	19%	3,171	272,729	28%
	41-45	64	14%	4,330	277,137	28%
	46-50	23	5%	4,784	110,034	11%
	51-55	5	1%	3,416	17,078	2%
	>56	3	1%	4,679	14,037	1%
TOTAL	462		2,140	988,494		
2010	<20	9	4%	419	3,772	2%
	21-25	46	21%	524	24,124	11%
	26-30	31	14%	1,161	35,990	16%
	31-35	46	21%	637	29,289	13%
	36-40	40	19%	1,360	54,414	24%
	41-45	30	14%	1,533	45,985	20%
	46-50	10	5%	2,066	20,656	9%
	51-55	3	1%	4,451	13,352	6%
	>56	e/	-	e/	e/	-
TOTAL	215		1,059	227,582		
2009	<20	-	-	-	-	-
	21-25	-	-	-	-	-
	26-30	-	-	-	-	-
	31-35	-	-	-	-	-
	36-40	-	-	-	-	-
	41-45	-	-	-	-	-
	46-50	-	-	-	-	-
	51-55	-	-	-	-	-
	>56	-	-	-	-	-
TOTAL	-		-	-		
2008	<20	-	-	-	-	-
	21-25	-	-	-	-	-
	26-30	-	-	-	-	-
	31-35	-	-	-	-	-
	36-40	-	-	-	-	-
	41-45	-	-	-	-	-
	46-50	-	-	-	-	-
	51-55	-	-	-	-	-
	>56	-	-	-	-	-
TOTAL	-		-	-		
2007	<20	20	3%	275	5,506	0%
	21-25	95	16%	718	68,173	4%
	26-30	87	14%	1,417	123,280	8%
	31-35	119	20%	2,622	312,075	20%
	36-40	124	21%	3,312	410,698	27%
	41-45	79	13%	4,273	337,558	22%
	46-50	55	9%	3,633	199,821	13%
	51-55	12	2%	3,676	44,108	3%
	>56	10	2%	2,403	24,026	2%
TOTAL	601		2,538	1,525,245		

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon.<sup>a/</sup> (Page 2 of 5)

Year	Vessels			Catch <sup>c/</sup>		
	Length Category (feet)	Number <sup>b/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2006	<20	19	4%	338	6,427	1%
	21-25	85	18%	944	80,260	8%
	26-30	80	17%	1,441	115,300	11%
	31-35	105	22%	2,288	240,201	23%
	36-40	88	18%	3,027	266,387	26%
	41-45	59	12%	3,723	219,638	21%
	46-50	30	6%	2,851	85,517	8%
	51-55	7	1%	3,356	23,492	2%
	>56	4	1%	1,533	6,131	1%
TOTAL	477		2,187	1,043,353		
2005	<20	34	5%	840	28,546	1%
	21-25	107	16%	2,249	240,668	6%
	26-30	107	16%	3,325	355,799	8%
	31-35	132	19%	6,127	808,775	19%
	36-40	130	19%	7,754	1,008,071	23%
	41-45	84	12%	10,779	905,449	21%
	46-50	62	9%	11,429	708,576	16%
	51-55	13	2%	15,821	205,679	5%
	>56	11	2%	7,802	85,827	2%
TOTAL	680		6,393	4,347,390		
2004	<20	39	5%	1,121	43,706	1%
	21-25	118	16%	2,203	259,933	4%
	26-30	112	15%	3,288	368,224	6%
	31-35	144	19%	7,202	1,037,078	17%
	36-40	141	19%	9,880	1,393,035	22%
	41-45	84	11%	16,223	1,362,724	22%
	46-50	66	9%	17,814	1,175,700	19%
	51-55	18	2%	21,405	385,281	6%
	>56	19	3%	10,764	204,515	3%
TOTAL	741		8,408	6,230,196		
2003	<20	22	4%	1,966	43,251	1%
	21-25	104	18%	2,665	277,192	4%
	26-30	94	16%	4,208	395,574	6%
	31-35	111	19%	8,288	919,974	14%
	36-40	113	19%	14,938	1,687,971	26%
	41-45	68	12%	20,592	1,400,250	22%
	46-50	48	8%	24,450	1,173,576	18%
	51-55	12	2%	24,685	296,220	5%
	>56	12	2%	16,468	197,613	3%
TOTAL	584		10,945	6,391,621		
2002	<20	34	5%	1,314	44,687	1%
	21-25	123	17%	2,211	271,972	5%
	26-30	111	16%	3,137	348,249	7%
	31-35	122	17%	5,760	702,716	14%
	36-40	147	21%	9,090	1,336,204	27%
	41-45	79	11%	13,411	1,059,442	21%
	46-50	64	9%	11,734	750,989	15%
	51-55	15	2%	19,988	299,817	6%
	>56	13	2%	14,880	193,446	4%
TOTAL	708		7,073	5,007,522		

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon.<sup>a/</sup> (Page 3 of 5)

Year	Vessels			Catch <sup>c/</sup>		
	Length Category (feet)	Number <sup>b/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2001	<20	26	4%	559	14,529	1%
	21-25	117	17%	1,117	130,707	5%
	26-30	105	15%	2,212	232,279	10%
	31-35	124	18%	3,308	410,150	17%
	36-40	145	21%	4,627	670,878	28%
	41-45	76	11%	6,087	462,586	19%
	46-50	64	9%	5,245	335,652	14%
	51-55	18	3%	5,324	95,824	4%
	>56	14	2%	4,000	56,006	2%
TOTAL	689		3,496	2,408,611		
2000	<20	41	5%	1,348	55,282	1%
	21-25	139	18%	2,502	347,743	7%
	26-30	116	15%	3,850	446,629	9%
	31-35	130	17%	6,389	830,573	16%
	36-40	165	22%	8,183	1,350,228	26%
	41-45	73	10%	11,447	835,622	16%
	46-50	66	9%	12,811	845,530	16%
	51-55	17	2%	17,942	305,017	6%
	>56	12	2%	9,512	114,139	2%
TOTAL	759		6,760	5,130,763		
1999	<20	41	6%	891	36,524	1%
	21-25	125	19%	2,259	282,366	7%
	26-30	88	13%	3,712	326,697	8%
	31-35	131	20%	5,196	680,635	18%
	36-40	139	21%	7,867	1,093,568	28%
	41-45	65	10%	10,422	677,411	18%
	46-50	55	8%	10,202	561,119	15%
	51-55	15	2%	9,101	136,509	4%
	>56	7	1%	7,275	50,928	1%
TOTAL	666		5,774	3,845,757		
1998	<20	45	7%	934	42,044	2%
	21-25	154	23%	1,406	216,593	12%
	26-30	101	15%	2,277	229,951	12%
	31-35	119	18%	2,604	309,870	17%
	36-40	129	19%	4,040	521,184	28%
	41-45	64	10%	4,514	288,916	16%
	46-50	40	6%	4,764	190,579	10%
	51-55	11	2%	3,256	35,821	2%
	>56	6	1%	2,018	12,105	1%
TOTAL	669		2,761	1,847,063		
1997	<20	54	6%	1,482	80,022	2%
	21-25	197	24%	2,791	549,756	10%
	26-30	126	15%	4,462	562,213	11%
	31-35	144	17%	6,358	915,510	17%
	36-40	157	19%	8,500	1,334,555	25%
	41-45	78	9%	11,281	879,913	17%
	46-50	54	6%	13,156	710,418	14%
	51-55	13	2%	11,806	153,476	3%
	>56	12	1%	5,161	61,929	1%
TOTAL	835		6,285	5,247,792		

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon.<sup>a/</sup> (Page 4 of 5)

Year	Vessels			Catch <sup>c/</sup>		
	Length Category (feet)	Number <sup>b/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
1996	<20	66	7%	1,500	99,021	2%
	21-25	221	22%	1,793	396,205	10%
	26-30	163	17%	2,648	431,620	10%
	31-35	161	16%	4,315	694,793	17%
	36-40	176	18%	5,945	1,046,274	25%
	41-45	97	10%	7,311	709,120	17%
	46-50	73	7%	7,984	582,826	14%
	51-55	14	1%	7,751	108,511	3%
	>56	14	1%	3,217	45,032	1%
TOTAL	985		4,176	4,113,402		
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%	5,362	75,068	1%
TOTAL	1,179		5,626	6,633,461		
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%	1,412	9,887	0%
TOTAL	1,024		3,030	3,103,105		
1993	<20	101	8%	447	45,103	2%
	21-25	321	26%	1,028	330,110	13%
	26-30	218	18%	1,538	335,333	13%
	31-35	167	13%	2,467	411,989	16%
	36-40	216	17%	3,103	670,209	26%
	41-45	103	8%	3,859	397,525	16%
	46-50	78	6%	3,050	237,930	9%
	51-55	22	2%	4,205	92,500	4%
	>56	14	1%	1,156	16,185	1%
TOTAL	1,240		2,046	2,536,884		
1992	<20	98	9%	347	33,962	2%
	21-25	279	26%	838	233,894	14%
	26-30	190	18%	1,178	223,847	14%
	31-35	158	15%	1,535	242,532	15%
	36-40	180	17%	2,579	464,288	28%
	41-45	87	8%	2,842	247,249	15%
	46-50	64	6%	1,720	110,058	7%
	51-55	19	2%	3,719	70,668	4%
	>56	10	1%	1,691	16,906	1%
TOTAL	1,085		1,515	1,643,404		

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon.<sup>a/</sup> (Page 5 of 5)

Year	Vessels			Catch <sup>c/</sup>		
	Length Category (feet)	Number <sup>b/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
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	0%
	Unknown	3	0%	226	677	0%
	TOTAL	1,769		2,090	3,697,257	

a/ Derived from vessel registrations and fish landing tickets.

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

c/ Excludes pink salmon landings.

d/ Preliminary.

e/ Fewer than three vessels. Values combined with nearest category to preserve confidentiality.

TABLE D-8. Oregon salmon troll boat-size catch statistics in pounds of dressed salmon. (Page 1 of 3)

Year	Vessels			Catch		
	Length Category (feet)	Number <sup>a/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2011 <sup>b/</sup>	<20	c/	c/	c/	c/	c/
	20-29	82	27%	628	51,463	13%
	30-39	101	33%	1,311	132,450	33%
	40-49	97	32%	1,926	186,807	46%
	>50	22	7%	1,462	32,163	8%
	TOTAL	302		1,334	402,883	
2010	<20	4	1%	498	1,990	0%
	20-29	86	23%	620	53,298	10%
	30-39	124	34%	1,339	166,008	32%
	40-49	126	34%	1,991	250,837	49%
	>50	30	8%	1,351	40,527	8%
	TOTAL	370		1,386	512,660	
2009	<20	3	1%	269	808	1%
	20-29	94	42%	674	63,374	43%
	30-39	65	29%	693	45,040	31%
	40-49	53	24%	656	34,771	24%
	>50	9	4%	241	2,167	1%
	TOTAL	224		653	146,160	
2008	<20	3	2%	87	260	0%
	20-29	47	34%	250	11,738	17%
	30-39	43	31%	509	21,882	32%
	40-49	38	28%	828	31,473	46%
	>50	7	5%	500	3,498	5%
	TOTAL	138		499	68,851	
2007	<20	3	1%	246	739	0%
	20-29	90	21%	851	76,558	14%
	30-39	153	35%	1,426	218,197	39%
	40-49	146	33%	1,562	227,980	40%
	>50	44	10%	942	41,429	7%
	TOTAL	436		1,296	564,903	
2006	<20	3	1%	1,094	3,281	1%
	20-29	78	22%	662	51,607	10%
	30-39	124	35%	1,484	184,030	37%
	40-49	127	36%	1,672	212,290	43%
	>50	25	7%	1,898	47,462	10%
	TOTAL	357		1,397	498,670	
2005	<20	7	1%	335	2,343	0%
	20-29	122	22%	1,716	209,336	8%
	30-39	186	33%	4,878	907,312	34%
	40-49	188	33%	6,436	1,209,982	45%
	>50	62	11%	5,840	362,051	13%
	TOTAL	565		4,763	2,691,024	



TABLE D-8. Oregon salmon troll boat-size catch statistics in pounds of dressed salmon. (Page 2 of 3)

Year	Vessels			Catch		
	Length Category (feet)	Number <sup>a/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2004	<20	4	1%	721	2,883	0%
	20-29	120	20%	2,266	271,944	9%
	30-39	205	34%	5,149	1,055,574	36%
	40-49	199	33%	6,360	1,265,683	44%
	>50	67	11%	4,668	312,752	11%
	TOTAL	595		4,889	2,908,836	
2003	<20	4	1%	957	3,829	0%
	20-29	120	24%	2,425	291,051	8%
	30-39	167	34%	7,702	1,286,218	35%
	40-49	152	31%	10,170	1,545,898	42%
	>50	48	10%	11,220	538,580	15%
	TOTAL	491		7,466	3,665,576	
2002	<20	3	1%	1,760	5,281	0%
	20-29	103	22%	3,488	359,299	10%
	30-39	179	38%	7,931	1,419,713	41%
	40-49	140	30%	10,092	1,412,864	40%
	>50	42	9%	7,173	301,280	9%
	TOTAL	467		7,491	3,498,437	
2001	<20	6	1%	1,271	7,626	0%
	20-29	102	23%	2,768	282,386	10%
	30-39	170	38%	6,894	1,172,058	40%
	40-49	141	31%	9,175	1,293,723	44%
	>50	30	7%	6,488	194,652	7%
	TOTAL	449		6,571	2,950,445	
2000	<20	3	1%	2,056	6,169	0%
	20-29	100	25%	1,933	193,346	12%
	30-39	157	39%	4,726	741,968	48%
	40-49	111	28%	4,594	509,986	33%
	>50	28	7%	3,606	100,965	7%
	TOTAL	399		3,891	1,552,434	
1999	<20	6	2%	1,131	6,783	1%
	20-29	68	21%	1,205	81,964	11%
	30-39	140	43%	2,517	352,355	49%
	40-49	93	28%	2,499	232,418	32%
	>50	21	6%	2,298	48,263	7%
	TOTAL	328		2,201	721,783	
1998	<20	5	1%	1,536	7,679	1%
	20-29	65	17%	1,036	67,332	5%
	30-39	163	44%	3,673	598,702	43%
	40-49	110	29%	5,395	593,433	42%
	>50	30	8%	4,351	130,537	9%
	TOTAL	373		3,747	1,397,683	

TABLE D-8. Oregon salmon troll boat-size catch statistics in pounds of dressed salmon. (Page 3 of 3)

Year	Vessels			Catch		
	Length Category (feet)	Number <sup>a/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
1997	<20	5	1%	1,149	5,743	0%
	20-29	98	23%	838	82,089	5%
	30-39	185	43%	3,976	735,478	48%
	40-49	114	26%	5,401	615,756	40%
	>50	31	7%	3,322	102,982	7%
	TOTAL	433		3,561	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%	3,720	119,048	6%
	TOTAL	456		4,222	1,925,126	
1995	<20	8	2%	1,561	12,486	1%
	20-29	142	30%	1,190	168,999	9%
	30-39	185	39%	4,571	845,647	44%
	40-49	111	23%	6,884	764,118	39%
	>50	30	6%	4,995	149,846	8%
	TOTAL	476		4,078	1,941,096	
1994	<20	7	2%	968	6,776	2%
	20-29	114	31%	435	49,573	17%
	30-39	153	41%	825	126,188	44%
	40-49	85	23%	1,080	91,834	32%
	>50	12	3%	1,032	12,382	4%
	TOTAL	371		773	286,753	
1993	<20	10	2%	662	6,619	1%
	20-29	206	34%	558	115,029	15%
	30-39	236	39%	1,549	365,597	47%
	40-49	128	21%	1,888	241,663	31%
	>50	32	5%	1,282	41,029	5%
	TOTAL	612		1,258	769,937	
1992	<20	7	1%	706	4,945	0%
	20-29	242	37%	849	205,466	17%
	30-39	245	38%	2,384	584,162	48%
	40-49	134	21%	2,911	390,040	32%
	>50	21	3%	1,630	34,231	3%
	TOTAL	649		1,878	1,218,844	
1991	<20	22	2%	621	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%	1,590	84,279	4%
	TOTAL	1,217		1,736	2,113,198	

a/ Number of boats includes only those with at least one landing containing troll-caught salmon.

b/ Preliminary.

c/ Fewer than three vessels. Values combined with next category below to preserve confidentiality.

TABLE D-9. Washington non-Indian salmon troll boat-size catch statistics in pounds of dressed salmon.<sup>a/b/</sup> (Page 1 of 3)

Year	Vessels			Catch		
	Length Category (feet)	Number <sup>c/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2011	<25	12	11%	1,329	15,946	5%
	25-36	33	29%	3,002	99,059	29%
	>36	66	59%	3,406	224,809	66%
	Unknown	1	1%	508	508	0%
	TOTAL	112		8,245	340,322	
2010	<25	10	9%	1,490	14,902	3%
	25-36	31	27%	3,990	123,695	23%
	>36	72	62%	5,693	409,871	75%
	Unknown	3	3%	427	1,281	0%
	TOTAL	116		11,600	549,749	
2009	<25	5	5%	2,160	10,800	4%
	25-36	28	29%	3,553	99,475	34%
	>36	64	66%	2,842	181,911	62%
	Unknown	0	-	-	-	-
	TOTAL	97		8,555	292,186	
2008	<25	4	5%	1,341	5,364	5%
	25-36	27	31%	1,486	42,835	37%
	>36	55	64%	1,203	66,167	58%
	Unknown	0	-	-	-	-
	TOTAL	86		4,030	114,366	
2007	<25	3	4%	3,180	9,539	4%
	25-36	25	32%	2,610	65,240	30%
	>36	51	65%	2,807	143,155	66%
	Unknown	0	-	-	-	-
	TOTAL	79		8,596	217,934	
2006	<25	3	4%	2,398	7,194	3%
	25-36	24	29%	1,983	47,593	21%
	>36	56	67%	3,073	172,069	74%
	Unknown	1	1%	4,804	4,804	2%
	TOTAL	84		12,258	231,660	
2005	<25	6	7%	4,309	25,854	5%
	25-36	24	26%	4,801	115,228	24%
	>36	60	66%	5,540	332,400	69%
	Unknown	1	1%	7,088	7,088	1%
	TOTAL	91		21,738	480,570	
2004	<25	8	9%	4,463	35,700	6%
	25-36	20	23%	5,797	115,933	20%
	>36	56	65%	7,749	433,952	73%
	Unknown	2	2%	4,464	8,927	2%
	TOTAL	86		6,913	594,512	
2003	<25	10	12%	6,141	61,407	7%
	25-36	19	23%	7,433	141,235	16%
	>36	53	65%	12,715	673,876	77%
	Unknown	0	-	-	-	-
	TOTAL	82		10,689	876,518	

TABLE D-9. Washington non-Indian salmon troll boat-size catch statistics in pounds of dressed salmon.<sup>a/b/</sup> (Page 2 of 3)

Year	Vessels			Catch		
	Length Category (feet)	Number <sup>c/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2002	<25	7	9%	7,326	51,283	8%
	25-36	17	23%	6,275	106,668	16%
	>36	50	67%	9,931	496,565	73%
	Unknown	1	1%	25,133	25,133	4%
	TOTAL	75		9,062	679,649	
2001	<25	3	5%	4,534	13,603	5%
	25-36	15	26%	3,960	59,403	20%
	>36	39	68%	5,576	217,467	75%
	Unknown	0	-	-	-	-
	TOTAL	57		5,096	290,473	
2000	<25	3	6%	873	2,620	2%
	25-36	13	27%	3,401	44,218	27%
	>36	29	59%	3,627	105,171	65%
	Unknown	4	8%	2,573	10,291	6%
	TOTAL	49		3,312	162,300	
1999	<25	5	9%	2,511	12,557	6%
	25-36	14	25%	3,731	52,237	24%
	>36	35	61%	4,333	151,638	69%
	Unknown	3	5%	1,220	3,661	2%
	TOTAL	57		3,861	220,093	
1998	<25	3	13%	545	1,634	2%
	25-36	6	26%	2,842	17,050	21%
	>36	13	57%	4,799	62,385	76%
	Unknown	1	4%	522	522	1%
	TOTAL	23		3,547	81,591	
1997	<25	7	14%	322	2,253	3%
	25-36	16	31%	1,468	23,491	29%
	>36	26	51%	2,096	54,500	67%
	Unknown	2	4%	352	703	1%
	TOTAL	51		1,587	80,947	
1996	<25	39	43%	709	27,664	31%
	25-36	24	27%	868	20,826	23%
	>36	20	22%	1,372	27,440	31%
	Unknown	7	8%	1,861	13,029	15%
	TOTAL	90		988	88,959	
1995	<25	45	47%	1,864	83,901	36%
	25-36	30	31%	2,936	88,083	38%
	>36	17	18%	2,950	50,144	22%
	Unknown	4	4%	2,351	9,403	4%
	TOTAL	96		2,412	231,531	

TABLE D-9. Washington non-Indian salmon troll boat-size catch statistics in pounds of dressed salmon.<sup>a/b/</sup> (Page 3 of 3)

Year	Vessels			Catch		
	Length Category (feet)	Number <sup>c/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
1994 <sup>d/</sup>	<25	0	-	-	-	-
	25-36	0	-	-	-	-
	>36	1	100%	7,263	7,263	100%
	Unknown	0	-	-	-	-
	TOTAL	1		7,263	7,263	
1993	<25	174	37%	235	40,879	10%
	25-36	134	28%	627	84,005	20%
	>36	145	31%	1,832	265,684	65%
	Unknown	21	4%	924	19,406	5%
	TOTAL	474		865	409,974	
1992	<25	241	40%	276	66,617	11%
	25-36	167	28%	727	121,416	21%
	>36	170	28%	2,175	369,833	63%
	Unknown	26	4%	956	24,848	4%
	TOTAL	604		965	582,714	
1991	<25	292	36%	426	124,397	16%
	25-36	204	25%	729	148,643	19%
	>36	212	26%	1,859	394,075	51%
	Unknown	103	13%	1,006	103,637	13%
	TOTAL	811		950	770,752	

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

b/ Excludes pink salmon landings.

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

d/ The fishery was closed north of Cape Falcon, however, Chinook were caught off Oregon and landed in Puget Sound.

TABLE D-10. Preliminary California salmon landings (in pounds of dressed salmon) and exvessel values by vessel size categories and port from Crescent City to Morro Bay South, 2011.

Port	Length Category (feet)	Number of Deliveries	Total Dressed Pounds Landed	Total Exvessel Value (dollars)	Percent Exvessel Value Landed in Port
Crescent City	<26	a/	a/	a/	a/
	26-36	10	3,199	15,667	38%
	>36	16	5,131	24,941	61%
	TOTAL	26	8,330	40,608	
Eureka	<26	58	6,545	33,426	13%
	26-36	44	5,330	26,994	10%
	>36	97	40,756	200,198	77%
	TOTAL	199	52,631	260,618	
Shelter Cove	<26	66	16,419	80,461	45%
	26-36	10	5,377	26,578	15%
	>36	11	14,866	72,000	40%
	TOTAL	87	36,662	179,039	
Fort Bragg <sup>b/</sup>	<26	81	8,662	41,111	2%
	26-36	246	114,226	562,663	21%
	>36	565	461,656	2,140,339	78%
	TOTAL	892	584,544	2,744,113	
Bodega Bay	<26	115	9,922	62,891	10%
	26-36	196	31,119	164,866	27%
	>36	167	68,057	389,227	63%
	TOTAL	478	109,098	616,984	
San Francisco	<26	140	6,232	41,071	15%
	26-36	83	14,599	89,424	32%
	>36	106	25,286	152,289	54%
	TOTAL	329	46,117	282,784	
Half Moon Bay	<26	21	1,547	11,643	3%
	26-36	77	6,056	45,524	11%
	>36	195	50,735	339,583	86%
	TOTAL	293	58,338	396,750	
Santa Cruz	<26	54	2,817	17,296	13%
	26-36	163	12,161	75,828	58%
	>36	38	5,649	37,410	29%
	TOTAL	255	20,627	130,534	
Moss Landing	<26	201	7,336	42,927	24%
	26-36	205	11,186	67,964	37%
	>36	73	12,425	72,188	39%
	TOTAL	479	30,947	183,079	
Monterey	<26	140	7,503	48,462	28%
	26-36	231	17,988	115,688	66%
	>36	24	1,803	12,050	7%
	TOTAL	395	27,294	176,200	
Morro Bay south	<26	45	1,993	13,812	14%
	26-36	73	7,263	53,952	53%
	>36	66	4,652	34,774	34%
	TOTAL	184	13,908	102,538	

a/ Fewer than three vessels. Values combined with nearest category to preserve confidentiality.

b/ Fort Bragg includes minor landings made in Mendocino County areas.

TABLE D-11. Preliminary 2011 Washington non-Indian troll salmon landings (in pounds of dressed salmon) and exvessel value by vessel size category and port area.<sup>a/b/</sup>

Port Area	Length Category (feet)	Number of Boats	Number of Boat Days Fished	Total Dressed Pounds Landed	Total Exvessel Value (dollars)	Percent Exvessel Value Landed in Port
Neah Bay	<25	c/	c/	c/	c/	c/
	25-36	8	111	23,823	96,785	18%
	>36	25	466	95,293	445,202	82%
	Unknown	c/	c/	c/	c/	c/
	TOTAL	33	577	119,116	541,987	
La Push	<25	5	9	784	3,339	2%
	25-36	6	92	15,115	79,263	37%
	>36	6	123	29,707	131,818	61%
	Unknown	0	-	-	-	-
	TOTAL	17	224	45,606	214,420	
Westport	<25	8	127	13,138	59,227	7%
	25-36	23	471	61,444	327,702	38%
	>36	42	598	89,864	485,505	56%
	Unknown	c/	c/	c/	c/	c/
	TOTAL	73	1,196	164,446	872,434	
Ilwaco	<25	0	-	-	-	-
	25-36	3	7	701	3,704	6%
	>36	12	87	10,453	55,773	94%
	Unknown	0	-	-	-	-
	TOTAL	15	94	11,154	59,477	
Puget Sound <sup>d/</sup>	<25	-	-	-	-	-
	25-36	-	-	-	-	-
	>36	-	-	-	-	-
	Unknown	-	-	-	-	-
	TOTAL	-	-	-	-	-

a/ Preliminary.

b/ Total pounds and exvessel values reported in this table may be less than are reported in other tables of the Review. The differences are generally one percent or less and likely related to vessel information missing for certain landings.

c/ Fewer than three vessels. Values combined with next category to preserve confidentiality.

d/ Landed on the coast and transported to Puget Sound for processing.

TABLE D-12. California number of vessels landing 50 percent and 90 percent of total pounds of salmon troll catch by year.

Year	Total Vessels	50 Percent of Pounds Landed		90 Percent of Pounds Landed	
		Number of Vessels	Percent of Fleet	Number of Vessels	Percent 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	39.9%
1983	3,223	353	11.0%	1,268	39.3%
1984	2,569	213	8.3%	918	35.7%
1985	2,308	241	10.4%	898	38.9%
1986	2,582	302	11.7%	1,151	44.6%
1987	2,442	320	13.1%	1,080	44.2%
1988	2,571	409	15.9%	1,285	50.0%
1989	2,534	363	14.3%	1,244	49.1%
1990	2,115	295	13.9%	976	46.1%
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	45.1%
1998	670	90	13.4%	325	48.5%
1999	666	103	15.5%	316	47.4%
2000	759	117	15.4%	370	48.7%
2001	689	90	13.1%	328	47.6%
2002	708	89	12.6%	315	44.5%
2003	584	74	12.7%	237	40.6%
2004	741	108	14.6%	344	46.4%
2005	680	111	16.3%	341	50.1%
2006	477	80	16.8%	236	49.5%
2007	601	95	15.8%	293	48.8%
2008	-	-	-	-	-
2009	-	-	-	-	-
2010	215	21	9.8%	84	39.1%
2011 <sup>a/</sup>	462	58	12.6%	202	43.7%

a/ Preliminary.



TABLE D-13. Oregon number of vessels landing 50 percent and 90 percent of total pounds of salmon troll catch by year.<sup>a/</sup>

Year	Total Vessels	50% of Pounds Landed		90% of Pounds Landed	
		Number of Vessels	Percent of Fleet	Number of Vessels	Percent of Fleet
1974	1,914	326	17.0%	1,032	53.9%
1975	1,979	329	16.6%	1,054	53.3%
1976	2,770	453	16.4%	1,460	52.7%
1977	3,108	473	15.2%	1,597	51.4%
1978	3,157	446	14.1%	1,576	49.9%
1979	3,114	423	13.6%	1,449	46.5%
1980	3,875	372	9.6%	1,375	35.5%
1981	3,615	420	11.6%	1,391	38.5%
1982	3,269	359	11.0%	1,249	38.2%
1983	2,951	294	10.0%	1,082	36.7%
1984	771	88	11.4%	333	43.2%
1985	2,050	132	6.4%	514	25.1%
1986	2,284	238	10.4%	851	37.3%
1987	2,111	292	13.8%	928	44.0%
1988	2,061	337	16.4%	1,069	51.9%
1989	1,937	303	15.6%	959	49.5%
1990	1,557	221	14.2%	709	45.5%
1991	1,217	206	16.9%	651	53.5%
1992	649	87	13.4%	286	44.1%
1993	612	67	10.9%	235	38.4%
1994	371	43	11.6%	152	41.0%
1995	476	52	10.9%	184	38.7%
1996	456	62	13.6%	202	44.3%
1997	433	60	13.9%	184	42.5%
1998	373	51	13.7%	165	44.2%
1999	328	47	14.3%	150	45.7%
2000	399	68	17.0%	197	49.4%
2001	449	68	15.1%	221	49.2%
2002	467	76	16.3%	230	49.3%
2003	491	83	16.9%	254	51.7%
2004	595	110	18.5%	318	53.4%
2005	565	103	18.2%	310	54.9%
2006	357	67	18.8%	200	56.0%
2007	436	69	15.8%	232	53.2%
2008	140	25	17.9%	75	53.6%
2009	224	27	12.1%	105	46.9%
2010	370	43	11.6%	139	37.6%
2011 <sup>b/</sup>	302	32	10.6%	113	37.4%

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 percent, 1975 - 19 percent, 1976 - 9.4 percent, 1977 - 8 percent, 1978 - 1.4 percent, 1979 - 0.2 percent, 1980 - 1.7 percent, 1981 - 0.11 percent, 1982-2002 - less than 0.05 percent, 2003 - 0.06 percent, 2004 - 0.15 percent, 2005 - 0.32 percent, 2006 - 0.08 percent, 2007 - 0.7 percent, 2008 - 0.05 percent; 2009 - 0.05 percent; 2010 - 0.05 percent; and 2011 - 0.02 percent.

b/ Preliminary.

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

Year	Total Vessels	50% of Fish Landed		90% of Fish Landed	
		Number of Vessels	Percent of Fleet	Number of Vessels	Percent 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 <sup>b/</sup>	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	22.4%	28	57.1%
2001	57	12	21.1%	34	59.6%
2002	75	15	20.0%	42	56.0%
2003	82	18	22.0%	47	57.3%
2004	86	18	20.9%	53	61.6%
2005	91	25	27.5%	63	69.2%
2006	84	17	20.2%	48	57.1%
2007	79	17	21.5%	49	62.0%
2008	86	18	20.9%	47	54.7%
2009	97	18	18.6%	61	62.9%
2010	116	29	25.0%	73	62.9%
2011	112	27	24.1%	70	62.5%

a/ All values in this table are based on preliminary information available at the start of each year's review and are not updated in subsequent years.

b/ The fishery was closed north of Cape Falcon; however, Chinook were caught off Oregon and landed in Puget Sound. Values omitted to preserve confidentiality

TABLE D-15. Preliminary 2011 California, Oregon, and Washington troll fleet by home state and salmon landings and exvessel value.<sup>a/</sup>

Home State	Number of Vessels	Percent	Landings (Pounds)	Percent	Total Value (Dollars)	Percent
<b>CALIFORNIA</b>						
California	443	96%	921,390	93%	4,825,930	94%
Oregon	11	2%	47,567	5%	207,266	4%
Washington	3	1%	10,826	1%	42,519	1%
Unknown/Other	5	1%	8,711	1%	37,530	1%
<b>TOTAL</b>	<b>462</b>		<b>988,494</b>		<b>5,113,245</b>	
<b>OREGON</b>						
Oregon	254	84%	336,522	84%	N/A	N/A
California	17	6%	21,120	5%	N/A	N/A
Washington	28	9%	42,625	11%	N/A	N/A
Unknown/Other	3	1%	2,616	1%	N/A	N/A
<b>TOTAL</b>	<b>302</b>		<b>402,883</b>			
<b>WASHINGTON</b>						
Washington	102	91%	313,469	92%	1,533,790	91%
Oregon	9	8%	26,375	8%	152,825	9%
California	0	0%	0	0%	0	0%
Unknown/Other	1	1%	508	0%	1,703	0%
<b>TOTAL</b>	<b>112</b>		<b>340,352</b>		<b>1,688,318</b>	

a/ Pinks excluded, except Oregon.

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

Year	Home State <sup>a/</sup>															
	California (length)				Oregon (length)				Washington (length)				Total (length) <sup>b/</sup>			Grand Total <sup>c/</sup>
	<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	4,919
1979	2,243	1,152	980	4,375	68	158	210	436	3	20	59	82	2,338	1,338	1,266	4,594
1980	2,069	1,248	1,138	4,455	97	163	228	488	6	25	90	121	2,189	1,447	1,478	4,738
81-85 <sup>d/</sup>	1,209	906	744	2,860	39	79	135	253	2	11	43	56	1,277	1,024	939	3,243
86-90	828	757	635	2,220	12	44	86	143	2	6	32	39	856	814	760	2,449
91-95	420	415	346	1,180	3	19	30	52	0	3	7	11	424	438	384	1,259
96-00	210	264	252	726	1	7	23	31	1	2	8	11	214	277	286	783
2001	142	221	286	649	0	4	23	27	1	3	7	11	1443	229	317	689
2002	153	229	285	667	1	3	28	32	2	0	4	6	157	233	318	708
2003	126	201	230	557	0	2	16	18	0	0	5	5	126	205	253	584
2004	155	250	288	693	1	3	28	32	0	2	11	13	157	256	328	741
2005	139	233	271	643	1	2	25	28	0	2	3	5	141	239	300	680
2006	103	181	180	464	0	1	5	6	0	1	1	2	104	185	188	477
2007	112	200	255	567	1	3	22	26	0	1	1	2	115	206	280	601
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	55	74	81	210	0	1	2	3	0	0	0	0	55	77	83	215
2011 <sup>e/</sup>	109	165	169	443	0	2	9	11	1	0	2	3	112	169	181	462

a/ "Home state" refers to the declared state of residence of vessel skipper, who, in most cases, is also the vessel owner.

b/ Includes vessels with home states other than California, Oregon, and Washington.

c/ Includes vessels of unknown lengths.

d/ Length category for 1982 is >36.

e/ Preliminary.

TABLE D-17. Percentages of vessels landing troll salmon in Oregon by license holder's state of residence.

Year	Oregon	California	Washington	Other/Unknown
1977	83.8%	6.9%	8.7%	0.6%
1978	83.6%	5.9%	10.0%	0.5%
1979	82.5%	6.5%	10.3%	0.7%
1980	80.4%	8.5%	9.6%	1.5%
1981	81.2%	7.4%	9.9%	1.6%
1982	82.1%	6.3%	10.2%	1.4%
1983	85.0%	3.9%	10.1%	1.0%
1984	85.2%	2.9%	11.0%	0.9%
1985	86.9%	4.0%	8.0%	1.1%
1986	84.5%	5.2%	9.1%	1.2%
1987	81.7%	6.8%	10.2%	1.2%
1988	78.7%	6.4%	13.5%	1.3%
1989	80.0%	5.6%	12.9%	1.4%
1990	81.1%	6.7%	10.7%	1.5%
1991	83.8%	2.5%	12.1%	1.6%
1992	83.4%	3.4%	12.5%	0.8%
1993	85.8%	2.5%	11.1%	0.6%
1994	86.5%	1.1%	12.1%	0.3%
1995	85.5%	2.7%	10.7%	1.1%
1996	83.5%	2.0%	13.8%	0.7%
1997	85.0%	1.2%	12.5%	1.4%
1998	82.3%	0.8%	16.6%	0.3%
1999	87.2%	0.9%	11.6%	0.3%
2000	84.4%	1.8%	13.3%	0.5%
2001	81.1%	4.0%	14.3%	0.6%
2002	79.7%	3.9%	15.6%	9.8%
2003	79.2%	3.7%	15.9%	1.2%
2004	72.3%	10.3%	15.8%	1.7%
2005	73.3%	10.8%	14.2%	1.8%
2006	81.0%	4.8%	13.4%	0.8%
2007	78.0%	10.3%	11.2%	0.5%
2008	83.6%	2.1%	13.6%	0.7%
2009	90.2%	1.3%	7.6%	0.9%
2010	80.3%	9.7%	9.2%	0.8%
2011 <sup>a/</sup>	84.1%	5.6%	9.3%	1.0%

a/ Preliminary.

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

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%	0.3%	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%	0.1%	6.5%
1991	85.8%	0.7%	0.0%	0.0%	13.5%
1992	92.7%	2.0%	0.7%	0.3%	4.3%
1993	93.3%	0.8%	0.8%	0.0%	5.1%
1994 <sup>b/</sup>	100.0%	0.0%	0.0%	0.0%	0.0%
1995	95.8%	0.0%	0.0%	0.0%	4.2%
1996	93.3%	0.0%	0.0%	0.0%	6.7%
1997	96.1%	0.0%	0.0%	0.0%	3.9%
1998	95.7%	0.0%	0.0%	0.0%	4.3%
1999	94.7%	0.0%	0.0%	0.0%	5.3%
2000	91.8%	0.0%	0.0%	0.0%	8.2%
2001	100.0%	0.0%	0.0%	0.0%	0.0%
2002	96.1%	0.0%	0.0%	0.0%	3.9%
2003	100.0%	0.0%	0.0%	0.0%	0.0%
2004	96.5%	1.2%	0.0%	0.0%	2.3%
2005	95.6%	3.3%	0.0%	0.0%	1.1%
2006	98.8%	1.2%	0.0%	0.0%	0.0%
2007	93.7%	6.3%	0.0%	0.0%	0.0%
2008	95.3%	3.5%	0.0%	1.2%	0.0%
2009	94.8%	4.1%	1.0%	0.0%	0.0%
2010	91.4%	5.2%	0.0%	0.0%	3.4%
2011	91.1%	8.0%	0.0%	0.0%	0.9%

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

b/ 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.

Year	Activity Level <sup>a/</sup>	Port Area						Total
		Monterey	San Francisco	Fort Bragg	Eureka	Crescent City	Unknown <sup>b/</sup>	
2011 <sup>c/</sup>	Active	9	35	8	7	0	-	59
	Casual	8	23	1	3	0	-	35
	TOTAL	17	58	9	10	0	-	94
2010	Active	7	13	1	0	0	-	21
	Casual	12	38	7	7	0	-	64
	TOTAL	19	51	8	7	0	-	85
2009	Active	-	-	-	0	0	-	0
	Casual	-	-	-	14	0	-	14
	TOTAL	-	-	-	14	0	-	14
2008	Active	-	-	0	-	-	-	0
	Casual	-	-	3	-	-	-	3
	TOTAL	-	-	3	-	-	-	3
2007	Active	2	24	6	7	0	0	39
	Casual	21	25	6	4	0	0	56
	TOTAL	23	49	12	11	0	0	95
2006	Active	9	41	10	5	0	0	65
	Casual	15	17	1	4	0	0	37
	TOTAL	24	58	11	9	0	0	102
2005	Active	16	46	10	5	0	0	77
	Casual	9	17	1	3	0	0	30
	TOTAL	25	63	11	8	0	0	107
2004	Active	16	48	11	8	0	0	83
	Casual	7	12	1	1	1	0	22
	TOTAL	23	60	12	9	1	0	105
2003	Active	10	43	11	3	0	0	67
	Casual	14	10	2	4	0	0	30
	TOTAL	24	53	13	7	0	0	97
2002	Active	17	50	13	5	0	0	85
	Casual	23	6	4	2	0	0	35
	TOTAL	40	56	17	7	0	0	120
2001	Active	17	40	10	4	0	0	71
	Casual	6	21	2	1	1	0	31
	TOTAL	23	61	12	5	1	0	102
2000	Active	23	46	9	2	0	0	80
	Casual	2	15	0	2	1	0	20
	TOTAL	25	61	9	4	1	0	100
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
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

a/ Active vessels landed more than 100 salmon; casual vessels landed 100 salmon or less.

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

c/ Preliminary.

TABLE D-20. Number of charter boats licensed in Oregon.

Year	Total Number of Licensed Charter Boats <sup>a/</sup>	Oregon Resident License Holders	Washington Resident License Holders	Other State Resident License Holders
1980	194	192	2	0
1981	248	213	34	1
1982	253	212	40	1
1983	255	206	47	2
1984	218	185	31	2
1985	226	198	25	3
1986	247	216	26	5
1987	254	226	23	5
1988	313	266	42	5
1989	322	273	44	5
1990 <sup>b/</sup>	170	157	9	4
1991	171	161	7	3
1992	157	150	4	3
1993	148	144	2	2
1994	145	137	6	2
1995	134	N/A	N/A	N/A
1996	127	121	6	0
1997	122	119	3	0
1998	129	125	4	0
1999	137	133	4	0
2000	143	139	4	0
2001	172	162	10	0
2002	181	172	9	0
2003	206	186	19	1
2004	203	184	18	1
2005	225	205	19	1
2006	228	203	24	1
2007	228	198	26	4
2008	237	192	41	4
2009	249	200	46	3
2010	238	196	39	3
2011	260	209	46	5

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

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



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

Year	Number of Licenses Issued	Washington Resident	Other State Resident	Buyback
		License Holders	License Holders	
1975	404	351	53	-
1976	427	362	65	-
1977 <sup>a/</sup>	569	NA	NA	-
1978	535	483	52	-
1979	516	473	43	-
1980	510	465	45	16
1981	478	443	35	3
1982	415	387	28	25
1983	375	354	21	19
1984	334	313	21	21
1985	288	268	20	19
1986	308	286	22	15
1987	280	269	11	-
1988	281	268	13	-
1989	276	263	13	-
1990	273	258	15	-
1991	267	251	16	-
1992	269	252	17	-
1993	265	250	15	-
1994	260	245	15	-
1995	231	217	14	23
1996	210	199	9	18
1997	210	197	13	0
1998	198	188	10	20
1999	180	172	8	0
2000	143	139	4	37
2001	142	137	5	0
2002	138	134	4	0
2003	140	137	3	0
2004	143	140	3	0
2005	142	136	6	0
2006	142	138	4	0
2007	142	138	4	0
2008	142	138	4	0
2009	141	137	4	0
2010	141	137	4	0
2011 <sup>b/</sup>	141	135	6	0

a/ First year moratorium in effect.

b/ Preliminary.

TABLE D-22. Price index.<sup>a/</sup>

Year	Price Index
1960	16.4
1961	16.6
1962	16.8
1963	17.0
1964	17.2
1965	17.6
1966	18.1
1967	18.6
1968	19.4
1969	20.4
1970	21.4
1971	22.5
1972	23.5
1973	24.8
1974	27.0
1975	29.6
1976	31.3
1977	33.3
1978	35.6
1979	38.6
1980	42.1
1981	46.0
1982	48.8
1983	50.8
1984	52.7
1985	54.3
1986	55.5
1987	57.1
1988	59.0
1989	61.3
1990	63.6
1991	65.9
1992	67.4
1993	68.9
1994	70.4
1995	71.9
1996	73.2
1997	74.5
1998	75.4
1999	76.5
2000	78.1
2001	79.9
2002	81.2
2003	82.9
2004	85.3
2005	88.1
2006	91.0
2007	93.6
2008	95.7
2009	96.7
2010	97.8
2011 <sup>b/</sup>	100.0

a/ Based on gross domestic product implicit price deflator.

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

# Marine Fisheries Management Zones

