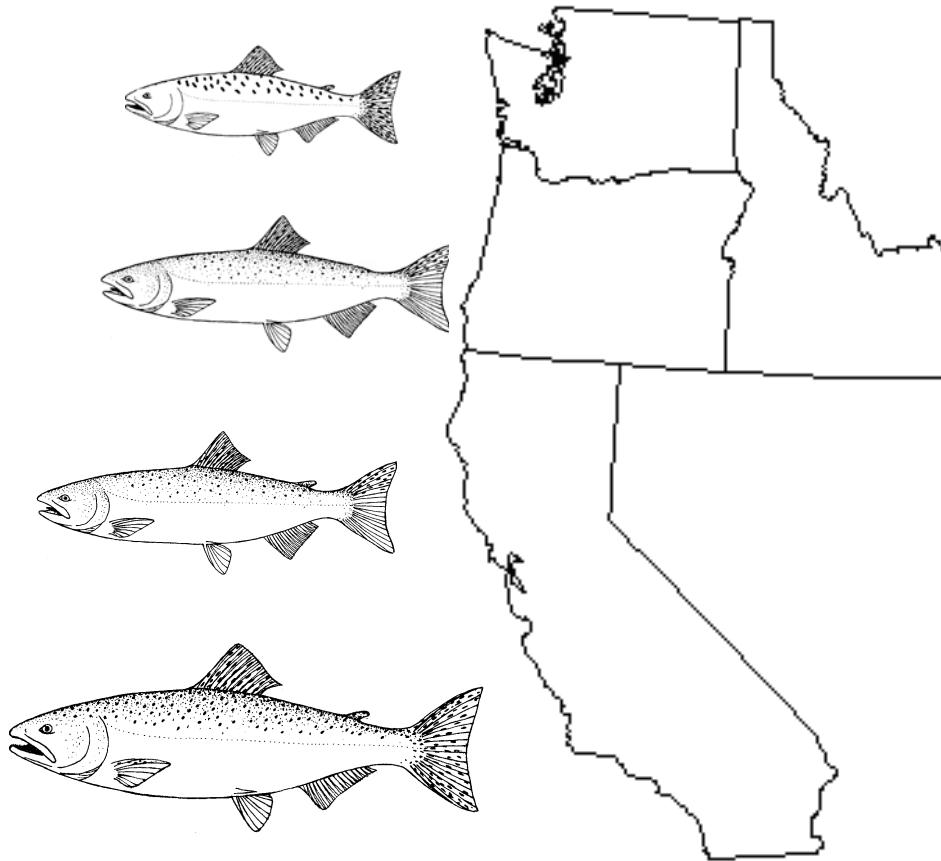


# REVIEW OF 2013 OCEAN SALMON FISHERIES

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)
CDFW	California Department of Fish and Wildlife
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
$F_{MSY}$	maximum sustainable yield 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)
$S_{ACL}$	annual catch limit spawner abundance
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
$S_{MSY}$	MSY spawning escapement
SONCC	southern Oregon/northern California coastal (coho)
SRFC	Sacramento River fall Chinook
SRFI	Snake River Fall Index
SRS	Stratified Random Sampling
SRW	Snake River Wild
SRWC	Sacramento River winter Chinook

## LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

STEP	Salmon Trout Enhancement Program
STT	Salmon Technical Team (formerly the Salmon Plan Development Team)
SUS	Southern United States
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 2013 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 2014 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 2014 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 2014 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 also adopted status determination criteria (SDC) for overfishing, approaching an overfished condition, 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 ( $F_{MSY}$ );
- Approaching an overfished condition occurs when the geometric mean of the two most recent postseason estimates of spawning escapement, and the current preseason forecast of spawning escapement, is less than the minimum stock size threshold (MSST);
- 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 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. 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.

Status determinations for overfishing, overfished, not overfished/rebuilding, and rebuilt are reported in this SAFE document; however, because approaching an overfished condition relies on a preseason forecast, that status determination is reported in Preseason Report I. In addition, some status determinations may be updated in Preseason Report I if more recent spawning escapement or exploitation rate estimates become available between the time this SAFE document and Preseason Report I are published.

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 2013 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.

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# 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 2013 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 2013 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 2013 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 2013 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 FMP-defined control rules for Sacramento River fall Chinook (SRFC), Klamath River fall Chinook (KRFC), and by NMFS ESA consultation standards for

Sacramento River winter Chinook (SRWC), California Coastal Chinook, Oregon Coast Natural (OCN) coho, and Southern Oregon/Northern California Coast (SONCC) coho. The Council structured 2013 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 SRWC ESA consultation standard requiring:
  - a. A 2013 maximum forecast age-3 impact rate for the area south of Point Arena of 12.9 percent.
  - b. 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.
  - c. 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. A 2013 Klamath basin natural area spawning escapement of no less than 73,800 fall Chinook adults which is produced, in expectation, by a spawner reduction rate of 68.0 percent, along with the allocation objective of 50 percent of the allowable adult harvest for federally-recognized tribal subsistence and commercial fisheries.
4. A 2013 SRFC spawner escapement of no less than 250,300 hatchery and natural area adults, which is produced, in expectation, by a total exploitation rate of 70.0 percent.
5. The OCN coho allowable exploitation rate (marine and freshwater combined) of no greater than 30.0 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 Rogue/Klamath (RK) hatchery coho.

Objectives 1 and 2 were the constraining factors for 2013 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 73,800 natural area adults, a SRWC age-3 impact rate of 12.9 percent for the area south of Point Arena, and a SRFC spawner escapement of 462,600 hatchery and natural area adults.

### *Coho Fisheries*

Coho fishery management for 2013 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 Lower Columbia Natural (LCN), OCN and RK coho were 0.0, 1.6, and 3.4 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 2013 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 FMP-defined control rules for SRFC, KRFC, and by NMFS ESA consultation standards for California Coastal Chinook, LCN coho, OCN coho, and SONCC coho. The Council structured 2013 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 2013 Klamath basin natural area spawning escapement of no less than 73,800 fall Chinook adults, which is produced, in expectation, by a spawner reduction rate of 68.0 percent, along with the allocation objective of 50 percent of the allowable adult harvest for federally-recognized tribal subsistence and commercial fisheries.
3. A 2013 SRFC spawner escapement of no less than 250,300 hatchery and natural area adults which is produced, in expectation, by a total exploitation rate of 70.0 percent.
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 30.0 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 was the constraining factor for 2013 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 73,800 natural area adults, and a SRFC spawner escapement of 462,600 hatchery and natural area 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 0.1 percent, 0.7 percent and 3.3 percent, respectively. Coho are managed as a unit south of Cape Falcon, and details of the Council's management objectives shaping the 2013 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, Snake River wild (SRW) Chinook, LCN coho, OCN coho, and SONCC coho. The Council structured 2013 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 2013 Klamath basin natural area spawning escapement of no less than 73,800 fall Chinook adults, which is produced, in expectation, by a spawner reduction rate of 68.0 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 41.0 percent in marine and freshwater fisheries combined.
4. A 2013 SRFC spawner escapement of no less than 250,300 hatchery and natural area adults which is produced, in expectation, by a total exploitation rate of 70.0 percent.
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 30.0 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 and 3 above were the constraining factors on 2013 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 73,800 natural area adults, a 41.0 percent total exploitation rate on LCR natural tules, and a SRFC spawner escapement of 462,600 hatchery and natural area 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 2013 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 30.0 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 RK hatchery coho.

Objective 1 above was the most constraining factor on 2013 coho fisheries management in this area. The Council adopted seasons in this area with projected impacts of 2.3 percent, 8.9 percent, and 0.3 percent on LCN natural coho, OCN coho, and RK coho, respectively. In all relevant fisheries, projected exploitation rates were 15.0 percent, 23.1 percent, and 7.3 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 in-river fisheries while meeting natural stock escapement objectives and hatchery fall Chinook brood stock 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 41.0 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 2013 ocean fisheries in this area. Under the adopted regulations (Tables I-1, I-2, and I-3), fisheries were projected to have a 41.0 percent total AEQ exploitation rate on LCR natural tules (19.8 percent in Council area fisheries), and a 51.9 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 in-river 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 30.0 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 2013 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 (11.0 percent in Council area fisheries), an exploitation rate in southern U.S. fisheries of 10.0 percent on Interior Fraser (Thompson River) coho (4.5 percent in Council area fisheries), and a total exploitation rate of 23.1 percent on OCN coho (10.6 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 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 17 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. Areas 3 and 4 were open May 10 – 11, May 17 – 18, and June 22 through June 28, Area 2 was open June 8 through 22, and the Columbia River Area was open June 8 through 21. Preseason and postseason 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, voluntary trip reports, and dockside interviews. The observed mark rates were generally lower than predicted preseason with the exception of Area 2 where the mark rate was higher than expected. Observed non-retention mortality was less than expected but the quota was not reached.

In 2013, 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 2012, 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 14; Area 5 operated under non-mark-selective fishing regulations for coho from September 15 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 14 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 lower than predicted preseason. Observed non-retention mortality was greater than anticipated, and the expected catch was exceeded (Table I-8).

Mark-selective Chinook fisheries were also held in Puget Sound Area 9 from July 16 through August 04, in Area 10 from July 16 through August 18, 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, 2012 through April 30, 2013. Winter mark-selective Chinook fisheries were held in Areas 8-1 and 8-2 November 1, 2012 through April 30, 2013. Area 9 had mark-selective Chinook opportunity November 1-30, 2012 and January 16 through April 15, 2013. Area 10 had mark-selective Chinook fisheries from October 1, 2012 through January 31, 2013. Areas 11 and 12 had mark-selective Chinook opportunity from February 1 through April 30, 2013.

### **Selective Coho Fisheries**

Recreational fisheries selective for marked coho were planned for the area between Cape Falcon and the OR/CA border, 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. Preseason and postseason 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, voluntary trip reports, and dockside interviews. The observed mark rates both north and south of Cape Falcon were lower than predicted preseason with the exception of the Columbia River Area which was slightly higher than predicted. Observed non-retention mortality was less than expected in all fisheries, although overall 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 U.S. and Canada. Because many of the stocks under the jurisdiction of the Council are significantly affected by management actions taken in Canadian and Alaskan waters, considerable interaction between the Council and 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 catches result from in-season management of fisheries for compliance with aggregate abundance-based management (AABM; see below) under the PST. They do include incidental mortality associated with 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 took effect January 1, 2009. The 2009 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 2013, AABM fisheries were conducted in accordance with the obligations set forth in the 2009 PST agreement. SEAK fisheries were constrained by an all-gear catch ceiling of 176,000 "treaty" Chinook in 2013, a 34.0 percent reduction from the ceiling of 266,800 in 2012, and 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 landed 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 2013 total catch of Chinook by SEAK fisheries was 246,700 while the catch of "treaty" Chinook was 183,900 (Table I-10). The catch ceiling for the Northern B.C. AABM fisheries (Northern B.C. troll plus Queen Charlotte Islands recreational) in 2013 was 143,400, compared to a ceiling in 2012 of 173,600 Chinook. The actual catch was estimated at 115,914 (69,264 troll plus 46,650 recreational). The Northern B.C. troll fishery in 2013 was conducted under a system started in 2010 of individual transferable quotas.

In addition to the overall catch ceiling determined by the PST, Canada's principal management objectives for the 2013 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 2013 by WCVI AABM fisheries under the 2009 PST Agreement was 115,300 Chinook compared to the allowable catch of 133,300 in 2012. The reported catch was 110,179 (35,393 troll, 13,074 First Nations, and 61,712 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 2013 (October 2012 through September 2013) troll fisheries were open for retention of Chinook in October through May and September (Table I-12). 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 61,700 fish, a decline of about seven percent from the 2012 catch.

Catch estimates for all Canadian ISBM fisheries in Northern B.C. were incomplete; the reported Chinook catch in 2013 was approximately 2,100 by commercial gillnets. Approximately 4,500 Chinook were caught by anglers from lodges in Rivers Inlet, Hakai Pass, and Bella Bella and Chinook by private anglers on the mainland coast. Tidal area recreational catch estimates near the mainland coast of Northern B.C. in 2013 were not available except for creel estimates for Area 3 and 4 where the catch was estimated to be about 10,300 Chinook. Catches by First Nations were approximately 8,500 Chinook for the North Coast, 1,800 for Haida Gwaii (Queen Charlotte Island) and 1,000 for the Central Coast.

Southern B.C. ISBM fisheries in 2013 harvested 170,300 Chinook (94,500 recreational, 66,800 First Nations, and 9,000 commercial).

No direct management measures for Chinook salmon within the Council management area were specified under the 2009 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 pre-season estimates of impacts were in compliance with terms of the PST agreement. Information necessary to evaluate the post-season 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 U.S. 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 2013 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 2013, 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 2013 a total of 444,837 coho were retained by commercial fisheries in Northern and Central B.C. and 9,415 coho in Southern B.C. 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 2013 was 122,470. 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 88,500 coho.



TABLE I-1. Summary of actual ocean non-Indian commercial troll salmon fishing regulations for 2013. (Page 1 of 4)

Area and Season	Salmon Species	Actual Quota		Special Restrictions <sup>a/</sup>
		Chinook	Coho	
U.S./Canada border to Cape Falcon, OR				
Areas 1 and 2: May 1-June 30 (61 days)	All except coho	29,300, no more than 8,700 of which may be caught in the area between the U.S./Canada border and the Queets River.	-	Seven days per week. Chinook minimum size limit of 28 inches total length. 28 Chinook vessel limit May 24-28 in Areas 3 and 4. Vessels in possession of salmon may not cross the Queets River line without first notifying WDFW with area fished, total Chinook and halibut catch aboard, and destination. Cape Flattery, Mandatory Yelloweye Rockfish Conservation Area, and Columbia Control Zones closed. An inseason conference call will occur when it is projected that 21,975 Chinook have been landed overall, or 6,525 Chinook have been landed in the area between the U.S./Canada border and the Queets River, to ensure the guideline is not exceeded. 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. 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. <sup>b/</sup>
Areas 3 and 4: May 1-20, 24-28 (Areas 3 and 4, 25 days)				
Areas 1 and 2: July 1-9, July 12-16, July 19-23, July 26-30, Aug. 2-6, Aug. 9-13, Aug. 16-20, Aug. 30-Sept. 3, Sept. 6-10, Sept. 13-17 (54 days)	All salmon except no chum retention north of Cape Alava, WA in August and September.	21,300, no more than 6,600 of which may be caught in the area between the U.S./Canada border and the Queets River.	<sup>c/ d/</sup> 10,220 <sup>d/</sup>	July 1-9 then Friday through Tuesday July 12-August 27 with a landing and possession limit of 50 Chinook and 40 coho per vessel per open period; Friday through Tuesday August 30-September 17 with a landing and possession limit of 20 Chinook and 50 coho per vessel per open period (Open period landing and possessions limits were adjusted throughout the season by inseason action, see Table C.5 for details). Vessels in possession of salmon may not cross the Queets River line without first notifying WDFW with area fished, total Chinook and halibut catch aboard, and destination. No earlier than September 1, if at least 5,000 marked coho remain on the quota, inseason action may be considered to allow non-selective coho retention. Chinook minimum size limit of 28 inches total length. All coho must be marked except as noted above. Mandatory Yelloweye Rockfish Conservation Area, Cape Flattery and Columbia Control Zones, and beginning August 9, 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. 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. <sup>b/</sup>
Areas 3 and 4: July 1-9, July 12-16, July 19-23, July 26-30, Aug. 2-6, Aug. 9-13 (34 days)				

TABLE I-1. Summary of actual ocean non-Indian commercial troll salmon fishing regulations for 2013. (Page 2 of 4)

Area and Season	Salmon Species	Actual Quota		Special Restrictions <sup>a/</sup>
		Chinook	Coho	
Cape Falcon to Humbug Mt., OR				
Apr. 1-Aug. 29, Sept. 4-Oct. 31 (209 days)	All except coho	None	-	Landing and possession limit of 100 Chinook per vessel per landing week (Wed.-Tues.) in September and October. Chinook minimum size limit of 28 inches total length. All vessels fishing in the area must land their fish in the State of Oregon.
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 26 inch minimum size limit. Landing and possession limit of 20 Chinook per vessel per day. Landings restricted to Port Orford.
Humbug Mt. to OR/CA border				
Apr. 1-May 31 (61 days)	All except coho	None	-	Chinook minimum size limit of 28 inches total length. Prior to June 1, all fish caught in this area must be landed and delivered in the State of Oregon. June 1 – August 29 landing and possession limit of 30 Chinook per vessel per day. September 16-27 landing and possession limit of 20 Chinook per vessel per day. Any remaining portion of the June and/or July Chinook quotas may be transferred inseason on an impact neutral basis to the next open quota period. All vessels fishing in this area must land and deliver all fish within this area or Port Orford, within 24 hours of any closure of this fishery, and prior to fishing outside of this area. State regulations require fishers intending to transport and deliver their catch to other locations after first landing in one of these ports notify ODFW prior to transport away from the port of landing. <sup>b/</sup>
June 1-30 (30 days)	All except coho	4,000	-	
July 1-31 (31 days)	All except coho	4,782	<sup>e/</sup> -	
Aug. 1-29 (29 days)	All except coho	2,714	<sup>f/</sup> -	
Sept. 16-27 (12 days)	All except coho	1,000	-	
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	-	Chinook 28 inch minimum size limit. Landing and possession limit of 20 Chinook per vessel per day. 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 2013. (Page 3 of 4)

Area and Season	Salmon Species	Actual Quota		Special Restrictions <sup>a/</sup>
		Chinook	Coho	
OR/CA border to Humboldt South Jetty				
May 1-10 (10 days)	All except coho	3,000	-	Chinook minimum size limit of 27 inches total length. Landing and possession limit of 20 Chinook per vessel per day. Any remaining portion of the May, June and/or July Chinook quotas may be transferred inseason on an impact neutral basis to the next open quota period. All fish caught in this area must be landed within the area and within 24 hours of any closure of the fishery and prior to fishing outside the area. See California State regulations for additional closures adjacent to the Smith and Klamath rivers. When the fishery is closed between the OR/CA border and Humboldt Mountain and open to the south, vessels with fish on board caught in the open area off California may seek temporary mooring in Brookings, Oregon prior to landing in California only if such vessels first notify the Chetco River Coast Guard Station via VHF channel 22A between the hours of 0500 and 2200 and provide the vessel name, number of fish on board, and estimated time of arrival. Klamath Control Zone closed.
June 1-9, 11 (10 days)	All except coho	3,352	<sup>g/</sup> -	
July 15-21 (7 days)	All except coho	2,547	<sup>h/</sup> -	
Aug. 1-3 (3 days)	All except coho	1,692	<sup>i/</sup> -	
Sept. 16-30 (15 days)	All except coho	6,000	-	
Humboldt South Jetty to Horse Mt.				
	Closed	-	-	
Horse Mt. to Pt. Arena				
May 22-31, June 1-8, June 21-30, July 15-31, Aug. 1-29, Sept. 1-30 (104 days)	All except coho	None	-	Chinook minimum size limit of 27 inches total length. All fish must be landed in California and offloaded within 24 hours of the August 29 closure. When the CA KMZ fishery is open, all fish caught in the area must be landed south of Horse Mountain. During September, all fish must be landed north of Point Arena.

TABLE I-1. Summary of actual ocean non-Indian commercial troll salmon fishing regulations for 2013. (Page 4 of 4)

Area and Season	Salmon Species	Actual Quota		Special Restrictions <sup>a/</sup>
		Chinook	Coho	
Pt. Arena to Pigeon Pt.				
May 1-31, June 1-8, June 21-30, July 15-31, Aug. 1-29, Sept. 1-30 (125 days)	All except coho	None	-	Chinook minimum size limit of 27 inches total length prior to September 1, 26 inches thereafter. All fish must be landed in California and offloaded within 24 hours of the August 29 closure. During September, all fish must be landed south of Point Arena.
Fall Area Target Zone Pt. Reyes to Pt. San Pedro				
Oct. 1-4, 7-11, 14-15 (11 days)	All except coho	None	-	Chinook minimum size limit 26 inches. All vessels fishing in this area must land and deliver all fish between Point Arena and Pigeon Point.
Pigeon Pt. to U.S./Mexico Border				
May 1-31, June 1-8, June 21-30, July 15-31, Aug. 1-29, Sept. 1-30 (125 days)	All except coho	None	-	Chinook minimum size limit of 27 inches total length prior to September 1, 26 inches thereafter. All fish must be landed in California and offloaded within 24 hours of the August 29 closure. During September, all fish must be landed south of Point Arena.

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, 2013 to April 30, 2014 during open salmon troll fisheries; min. size limit of 32 inches in total length (w/ head on). One Pacific halibut per each 3 Chinook, except one Pacific halibut may be landed without meeting the ratio requirement, and no more than 15 halibut may be landed per trip, unless modified by inseason action (reduced to 5 halibut per trip Aug. 1 and closed to retention on Aug. 9 North of Cape Falcon and August 10th south).

b/ Phone or email notification shall include vessel name and number, number of salmon by species, port of landing and location of delivery, and estimated time of delivery.

c/ Increased July 3 from 14,700 Chinook (no more than 6,100 may be caught north of the Queets R.) to 19,300 Chinook (no more than 6,600 may be caught north of the Queets R.) by an impact-neutral transfer of uncaught quota from the spring season of 4,600 Chinook (including 500 added to allowable catch for the area north of the Queets R.). Increased again Aug. 28 by 2,000 Chinook to 21,300 via an impact-neutral trade with the recreational fishery (see footnote d/).

d/ Impact-neutral adjustments of commercial and recreational quotas north of Cape Falcon, accomplished through a quota trade between the fisheries. Net adjustment: Recreational fishery gave 3,200 Chinook and received 4,000 marked coho (coho distributed among the Subareas as follows: 1,000 to Columbia River; 1,480 to Westport; 1,100 to La Push; and 420 to Neah Bay). Commercial fishery gave 4,000 marked coho and received 2,000 Chinook (adjusted for impacts).

e/ Increased from 3,000 by an impact-neutral transfer of remaining June quota of 1,782 Chinook making the revised July quota 4,782 Chinook.

f/ Increased from 2,000 by an impact-neutral transfer of remaining July quota of 714 Chinook making the revised August quota 2,714 Chinook.

g/ Increased from 3,000 by an impact-neutral transfer of remaining May quota of 352 Chinook making the revised June quota 3,352 Chinook.

h/ Increased from 2,000 by an impact-neutral transfer of remaining June quota of 547 Chinook making the revised July quota 2,547 Chinook.

i/ Increased from 1,500 by an impact-neutral transfer of remaining July quota of 192 Chinook making the revised August quota 1,692 Chinook.

TABLE I-2. Summary of actual treaty Indian commercial ocean and Area 4B troll salmon seasons for 2013.

Tribe and Area	Seasons <sup>a/</sup>			Minimum Size Limit (Inches)		Special Restrictions	
	Salmon Species	Dates	Days	Chinook	Coho		
<b>Quinault</b>							
Areas 2-3	All except coho	May 1-June 18	49	24	-		
	All	July 1- Sept. 4	66	24	16		
<b>Hoh</b>							
Areas 2-3	All except coho	May 1-June 18	49	24	-		
	All	July 1- Sept. 4	66	24	16		
<b>Quileute</b>							
Area 3	All except coho	May 1-June 18	49	24	-		
	All	July 1- Sept. 4	66	24	16		
	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 18	49	24	-		
	All	July 2-8	7	24	16	50 Chinook per vessel per open period landing limit	
	All	July 9-15	7	24	16	100 Chinook per vessel per open period landing limit	
	All	July 16-29	14	24	16	75 Chinook per vessel per open period landing limit	
	All	July 30-Aug. 11	13	24	16	50 Chinook per vessel per open period landing limit	
	All	Aug. 12-25	14	24	16	35 Chinook per vessel per open period landing limit	
	All	Aug. 26	1	24	16	50 Chinook and 200 coho per vessel per open period landing limit	
	All	Aug. 27	0	24	16	Closed	
	All	Aug. 28-Sept 3	7	24	16	100 Chinook and 100 coho per vessel per open period landing limit	
	Area 4B	All except coho	May 1-June 18	49	24	-	
		All	Jan. 1-April 15	105	22 <sup>b/</sup>	16	
		All	July 2-8	7	24	16	50 Chinook per vessel per open period landing limit
All		July 9-15	7	24	16	100 Chinook per vessel per open period landing limit	
All		July 16-29	14	24	16	75 Chinook per vessel per open period landing limit	
All		July 30-Aug. 11	13	24	16	50 Chinook per vessel per open period landing limit	
All		Aug. 12-25	14	24	16	35 Chinook per vessel per open period landing limit	
All		Aug. 26	1	24	16	50 Chinook and 200 coho per vessel per open period landing limit	
All		Aug. 27	0	24	16	Closed	
All		Aug. 28-Sept 3	7	24	16	100 Chinook and 100 coho per vessel per open period landing limit	
All		Nov. 1-Dec. 31	61	22	16		
<b>S'Klallam</b>							
Area 4B	All except coho	May 1-June 18	49	24	-		
	All <sup>c/</sup>	Jan. 1-Apr. 15; Nov. 1-Dec. 31	166	22 <sup>b/</sup>	16		
	All <sup>c/</sup>	July 1-Sept. 4	66	24	16		

a/ The overall quotas for these fisheries during the May 1-Sept. 15 ocean salmon management period were 52,500 Chinook and 47,500 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 26,250 Chinook for the May 1-June 30 Chinook-directed season and 26,250 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 2013. (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				
U.S./Canada Border to Queets R. WA (Neah Bay and La Push subareas) May 10-11, 17-18, June 22-28 (11 days)	All except coho	Chinook quota from U.S./Canada border to Cape Falcon, OR combined was 8,000.	-	Two fish per day. All Chinook must be marked with a healed adipose fin clip. Chinook 24 inch total length minimum size limit.
Queets R. to Leadbetter Pt. WA (Westport subarea) June 8-22 (15 days)	All except coho			Two fish per day. All Chinook must be marked with a healed adipose fin clip. Chinook 24 inch total length minimum size limit.
Leadbetter Pt. WA to Cape Falcon OR (Columbia River subarea) June 8-21 (14 days)	All except coho			Two fish per day. All Chinook must be marked with a healed adipose fin clip. Chinook 24 inch total length minimum size limit.
U.S./Canada Border to Cape Alava, WA (Neah Bay subarea)				
June 29-Sept. 22 (86 days)	All salmon	Chinook quota for all subareas from the U.S./Canada border to Cape Falcon, OR combined was 36,800. <sup>c/</sup>	8,200 <sup>c/</sup>	Seven days per week. Two salmon daily plus two additional pinks; Aug. 10-22 two salmon daily, no more than one Chinook, plus two additional pinks. No chum retention beginning August 1. Chinook non-retention east of the Bonilla-Tatoosh line during Council managed ocean fishery beginning August 1.
Cape Alava to Queets R., WA (La Push subarea) June 29-Sept. 22 (86 days)	All salmon		2,990 <sup>c/</sup>	Seven days per week. Two salmon daily plus two additional pinks; Aug. 10-22 two salmon daily, no more than one Chinook, plus two additional pinks.
North of 47°50'00" N. Lat. and south of 48°00'00" N. Lat. Sept. 28-Oct. 13 (16 days)	All salmon		50	Seven days per week. Two salmon daily plus two additional pinks.
Queets R. to Leadbetter Pt., WA (Westport subarea) June 23-Sept. 30 (94 days)	All salmon		29,140 <sup>c/d/</sup>	Sun.-Thurs. June 23-July 18; seven days per week otherwise. Two salmon daily: no more than one Chinook June 23-Aug. 3; Unmarked coho retention after September 5.
Leadbetter Pt., WA to Cape Falcon, OR (Columbia River subarea) June 22-Sept. 30 (101 days)	All salmon		38,380 <sup>c/e/</sup>	Seven days per week. Two salmon daily: no more than one Chinook June 22-Aug. 22. Unmarked coho retention in September.

TABLE I-3. Summary of actual ocean recreational salmon fishing regulations for 2013. (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 to Humbug Mt.				
Mar. 15-June 30, Aug. 1-31, Sept. 3-4, 8-11, and 1-31 (176 days)	Oct. All except coho	None	-	Two salmon daily. Shoreward of the 15 fathom curve off Tillamook Bay between Twin Rocks and Pyramid Rock, only fin-clipped Chinook may be retained or on board while fishing prior to Aug. 1. Fishing in the Stonewall Bank groundfish conservation area restricted to trolling only on days the all depth recreational halibut fishery is open. <sup>h/</sup>
Cape Falcon to Humbug Mt. (cont.)				
July 1-31 (31 days)	All salmon	None	10,500	Two salmon daily. All coho must be marked. Shoreward of the 15 fm curve off Tillamook Bay between Twin Rocks and Pyramid Rock and prior to Aug. 1, all retained Chinook must have a healed adipose fin-clip. 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>h/</sup>
Cape Falcon to Humbug Mt. (cont.)				
Sept. 1-2, 5-7, and 12-30 (24 days)	All salmon	None	19,580 <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>h/</sup>
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	-	Two salmon daily, one of which can be an unmarked Chinook; no more than 10 unmarked Chinook per season in aggregate with Elk R., Sixes R., and Floras Ck./New R.
Humbug Mt. to OR/CA border				
May 1-June 30, Aug. 1-Sept. 8 (100 days)	All except coho	None	-	Two salmon daily.
July 1-31 (31 days)	All salmon	None	<sup>g/</sup>	Two salmon daily. All coho must be marked.
Chetco River Terminal Area				
Twin Rocks to OR/CA border inside 3 nm				
Oct. 1-13 (13 days)	Chinook only	None	-	One Chinook daily, no more than five per season.

TABLE I-3. Summary of actual ocean recreational salmon fishing regulations for 2013. (Page 3 of 3)

Area and Season	Salmon Species	Actual Quota		
		Chinook	Coho <sup>a/</sup>	
OR/CA border to Horse Mt. May 1-Sept. 8 (131 days)	All except coho	None	-	Two salmon daily. 20 inch minimum size limit.
Horse Mt. to Pt. Arena Apr. 6-Nov. 10 (219 days)	All except coho	None	-	Two salmon daily. 20 inch minimum size limit.
Pt. Arena to Pigeon Pt. Apr. 6-Nov. 10 (207 days)	All except coho	None	-	Two salmon daily. Open five days per week (Wed.-Sun.) June 1- July 9. Minimum size limit of 24 inches total length through July 31; 20 inches thereafter.
Pigeon Pt. to U.S./Mexico Border Apr. 6-Oct. 6 (172 days)	All except coho	None	-	Two salmon daily. Open five days per week (Wed.-Sun.) June 1- July 9. Minimum size limit of 24 inches total length.

a/ All coho fisheries and quotas are mark-selective for fish with a healed adipose fin clip except the Sept. all-salmon Cape Falcon to Humbug Mt. non-mark-selective recreational coho fishery and as modified inseason to allow non-mark-selective coho retention beginning Sept. 6 from Queets R. to Leadbetter Pt. WA (Westport subarea) and beginning Sept. 1 from Leadbetter Pt. WA to Cape Falcon OR (Columbia River subarea).

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/ Impact-neutral adjustments of commercial and recreational quotas north of Cape Falcon, accomplished through a quota trade between the fisheries. Net adjustment: Recreational fishery gave 3,200 Chinook and received 4,000 marked coho (coho distributed among the Subareas as follows: Columbia River increased 1,000 from 37,380; Westport increased 1,480 from 27,660; La Push increase 1,100 from 1,890; and Neah Bay increase 420 from 7,780). Commercial fishery gave 4,000 marked coho and received 2,000 Chinook (adjusted for impacts).

d/ Remainder of the 29,140 unmarked coho quota converted to a non-selective equivalent (6,350) on September 6.

e/ Remainder of the 38,380 unmarked coho quota converted to a non-selective equivalent (9,785) on September 1.

f/ Unutilized coho quota from the July recreational mark-selective coho fishery from Cape Falcon to the Oregon/California border rolled into the September non-mark-selective recreational fishery from Cape Falcon to Humbug Mountain. Remaining July quota was 3,920 mark-selective coho. An impact-neutral transfer added 3,580 non-mark selective coho to the preseason quota of 16,000.

g/ Marked coho catch included against the Cape Falcon to Humbug Mountain quota of 10,500.

h/ The all-depth halibut season was open on May 9-11, 16-18, May 30-June 1, June 6-8, 20-22, and August 2-3.



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

Year or Average	COMMERCIAL TROLL							RECREATIONAL					Salmon Per Angler Trip
	Effort (boat days fished)	Catch			Thousands of Pounds (Dressed Weight)			Effort (salmon angler trips)	Catch (numbers of fish)				
		Chinook	Coho	Pink	Chinook	Coho	Pink		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	149,974	753	1,045	358	163,344	54,662	172,399	5,915	232,976	1.4
1986-90	6,078	71,534	137,942	33,565	662	603	117	119,412	26,075	165,058	1,919	193,051	1.6
1991-95	5,158	42,477	76,334	32,072	350	319	112	104,949	11,156	131,364	2,484	145,003	1.4
1996-2000	660	25,267	28,492	1,682	231	118	6	38,459	4,940	41,445	1,799	48,184	1.3
2001	1,280	50,072	66,707	2,483	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	487	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	395	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	731	389	252	3	72,683	8,944	83,788	4,670	97,402	1.3
2008	1,803	29,543	15,970	0	257	137	0	37,610	14,635	18,870	0	33,505	0.9
2009	2,818	24,542	80,718	935	254	483	3	101,560	12,351	138,493	7,627	158,471	1.6
2010	3,293	77,475	13,565	0	804	95	0	80,955	36,874	36,278	0	73,152	0.9
2011	2,651	58,667	16,661	1,281	672	95	2	73,596	29,203	39,582	10,828	79,613	1.1
2012	3,014	91,645	40,729	0	950	216	0	77,659	33,729	31,434	0	65,163	0.8
2013 <sup>c/</sup>	3,332	90,105	53,755	366	925	272	0	80,014	28,918	46,140	7,668	82,726	1.0

TABLE I-4. Council area commercial and recreational ocean salmon fishing effort and landings by state. Data are provisional, pending further review of data compilation methods. A double dash ("-") indicates no records are available. Fewer than 500 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	18	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	3,748	32,081	464	49	402	3	0	48,756	5,164	18,832	0	23,996	0.5
2012	6,247	73,096	625	0	741	4	0	67,308	18,794	16,079	0	34,873	0.5
2013 <sup>c/</sup>	8,941	112,596	426	0	1,291	2	0	86,332	30,395	14,580	0	44,975	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 500 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	5,743	22	247,400	169,600	48,300	0	217,900	0.9
1976-80	95,003	618,637	210,303	500	5,867	1,184	3	163,469	92,422	31,158	0	123,580	0.8
1981-85	59,765	462,652	58,726	2,400	4,454	345	14	146,950	109,097	19,866	0	128,963	0.9
1986-90	58,511	794,703	46,780	300	8,097	262	2	240,667	166,395	40,388	0	206,783	0.9
1991-95	25,700	341,928	42,475	-	3,429	94	0	215,996	170,296	22,399	0	192,695	0.9
1996-2000	18,299	368,001	-	0	4,037	-	0	194,586	157,742	452	0	158,194	0.8
2001	13,841	193,086	-	0	2,409	0	0	165,135	98,783	1,329	0	100,112	0.6
2002	17,403	391,655	-	0	5,008	0	0	210,052	182,044	828	0	182,872	0.9
2003	15,941	491,894	-	0	6,392	0	0	134,627	94,674	613	0	95,287	0.7
2004	21,733	502,110	-	0	6,230	0	0	218,743	221,114	1,424	0	222,538	1.0
2005	17,018	340,862	-	0	4,347	0	0	172,080	143,257	699	0	143,956	0.8
2006	8,259	69,728	-	0	1,043	0	0	126,506	96,292	1,626	0	97,918	0.8
2007	10,671	114,141	-	0	1,525	0	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	-	0	228	-	0	48,667	14,809	175	0	14,984	0.3
2011	6,973	70,028	-	0	992	-	0	91,676	49,822	316	0	50,138	0.5
2012	14,522	215,585	-	0	2,530	-	0	148,007	123,926	101	0	124,027	0.8
2013 <sup>c/</sup>	17,258	297,409	-	0	3,791	-	0	143,753	113,278	357	0	113,635	0.8

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 500 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							
<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	16,559	170	730,300	380,000	615,700	6,100	1,001,800	1.4
1976-80	194,675	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>	98,043	679,481	577,980	154,474	6,638	2,927	489	543,838	196,845	357,658	8,615	563,117	1.0
1986-90	102,743	1,261,163	581,965	38,165	12,490	2,823	140	601,240	228,183	424,082	2,419	654,684	1.1
1991-95	39,874	485,349	238,176	32,452	4,719	738	114	420,491	190,686	256,764	2,544	449,993	1.1
1996-2000	26,146	522,792	34,625	2,062	5,682	132	7	278,654	173,912	54,356	1,859	230,128	0.8
2001	26,269	518,121	76,040	2,827	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	512	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	398	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	811	2,379	353	3	266,836	63,589	145,187	4,670	213,446	0.8
2008	2,612	35,497	16,405	0	324	140	0	68,419	16,219	30,955	2	47,176	0.7
2009	4,037	25,691	102,686	953	269	614	3	191,437	14,608	228,107	7,627	250,342	1.3
2010	9,559	131,996	14,603	0	1,537	102	0	182,941	56,650	54,748	0	111,398	0.6
2011	13,372	160,776	17,125	1,330	2,065	97	2	214,028	84,189	58,730	10,828	153,747	0.7
2012	23,783	380,326	41,354	0	4,222	220	0	292,974	176,449	47,614	0	224,063	0.8
2013 <sup>c/</sup>	29,531	500,110	54,181	366	6,007	274	0	310,099	172,591	61,077	7,668	241,336	0.8

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 prior to 2005, which were minor and except in 2004, when 227 days fished and 25,655 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>										
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	827	12,226	60,663	800	-	-	-	-	-	-
2010	857	32,376	11,461	0	-	-	-	-	-	-
2011	587	31,765	13,608	1,066	-	-	-	-	-	-
2012	954	54,790	37,461	0	-	-	-	-	-	-
2013 <sup>c/</sup>	1,024	50,015	47,714	225	-	-	-	-	-	-
<b>Non-Indian:</b>										
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	2,352	29,738	3,517	49	80,979	30,822	45,628	7,668	84,118	1.0
2012	2,476	45,299	3,893	0	78,434	35,433	33,106	0	68,539	0.9
2013 <sup>c/</sup>	2,587	41,900	6,467	184	86,178	30,843	50,159	0	81,002	0.9
----- CAPE FALCON TO HUMBUG MOUNTAIN -----										
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	3,171	27,919	-	0	35,113	2,609	12,758	0	15,367	0.4
2012	5,449	59,209	-	0	43,649	7,767	14,198	0	21,965	0.5
2013 <sup>c/</sup>	7,956	103,969	-	0	60,060	18,021	10,122	0	28,143	0.5
----- HUMBUG MOUNTAIN TO HORSE MOUNTAIN (KMZ) -----										
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	490	3,717	-	-	21,209	10,923	126	0	11,049	0.5
2012	687	10,674	-	-	50,203	48,767	276	0	49,043	1.0
2013 <sup>c/</sup>	1,367	16,942	-	-	49,908	44,334	672	0	45,006	0.9
----- HORSE MOUNTAIN TO U.S./MEXICO BORDER -----										
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	0	14,214	0.3
2011	6,772	67,637	-	-	76,727	39,835	218	0	40,053	0.5
2012	14,217	210,354	-	-	116,625	84,482	34	0	84,516	0.7
2013 <sup>c/</sup>	16,597	287,284	-	-	113,953	79,393	124	0	79,517	0.7

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 2013 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>						
<b>TREATY INDIAN COMMERCIAL TROLL</b>						
U.S./Canada Border to Cape Falcon (May-June)	26,250	31,020	1.18	-	-	-
U.S./Canada Border to Cape Falcon (July-Sept.)	20,493 <sup>b/</sup>	18,995	0.93	47,500	47,714	1.00
Subtotal Treaty Indian Commercial Troll	46,743	50,015	1.07	47,500	47,714	1.00
<b>NON-INDIAN COMMERCIAL TROLL</b>						
U.S./Canada Border to Cape Falcon (May-June)	24,037 <sup>*</sup>	23,932	1.00	-	-	-
U.S./Canada Border to Cape Falcon (July-Sept.)	21,300 <sup>*</sup>	17,968	0.84	10,220 <sup>b/</sup>	6,467	0.63
Subtotal Non-Indian Commercial Troll	45,337 <sup>b/</sup>	41,900	0.92	10,220 <sup>b/</sup>	6,467	0.63
<b>RECREATIONAL</b>						
U.S./Canada Border to Cape Falcon (May-June)	8,000 <sup>*</sup>	2,779	0.35	-	-	-
U.S./Canada Border to Cape Alava (July-Sept.)	4,900 <sup>*</sup>	5,846	1.19	8,200 <sup>b/</sup>	6,506	0.79
Cape Alava to Queets River (July-Oct.)	1,700 <sup>*</sup>	2,316	1.36	3,040 <sup>b/</sup>	2,798	0.92
Queets River to Leadbetter Pt. (July-Sept.)	20,300 <sup>*</sup>	11,981	0.59	22,916 <sup>b/ c/</sup>	20,377	0.89
Leadbetter Pt. to Cape Falcon (July-Sept.)	9,900 <sup>*</sup>	7,915	0.80	28,527 <sup>b/ d/</sup>	20,481	0.72
Subtotal Recreational	44,800 <sup>b/</sup>	30,837	0.69	62,683 <sup>b/</sup>	50,162	0.80
<b>TOTAL NORTH OF CAPE FALCON</b>	<b>136,880</b>	<b>122,752</b>	<b>0.90</b>	<b>120,403<sup>b/</sup></b>	<b>104,343</b>	<b>0.87</b>
<b>SOUTH OF CAPE FALCON</b>						
<b>COMMERCIAL TROLL (all except coho)</b>						
Humbug Mt. to OR/CA Border (June)	4,000	1,560	0.39	-	-	-
Humbug Mt. to OR/CA Border (July)	4,782 <sup>b/</sup>	3,650	0.76	-	-	-
Humbug Mt. to OR/CA Border (August)	2,714 <sup>b/</sup>	1,260	0.46	-	-	-
Humbug Mt. to OR/CA Border (Sept.)	1,000	135	0.14	-	-	-
OR/CA Border to Humboldt South Jetty (May)	3,000	2,688	0.90	-	-	-
OR/CA Border to Humboldt South Jetty (June)	3,352 <sup>b/</sup>	2,888	0.86	-	-	-
OR/CA Border to Humboldt South Jetty (July)	2,547 <sup>b/</sup>	2,374	0.93	-	-	-
OR/CA Border to Humboldt South Jetty (August)	1,692 <sup>b/</sup>	1,991	1.18	-	-	-
OR/CA Border to Humboldt South Jetty (Sept.)	6,000	184	0.03	-	-	-
Subtotal Troll	29,087 <sup>b/</sup>	16,730	0.58	-	-	-
<b>RECREATIONAL</b>						
Cape Falcon to OR/CA border (July)	-	-	-	10,500	6,596	0.63
Cape Falcon to Humbug Mt. (Sept.)	-	-	-	19,580 <sup>b/</sup>	3,746	0.19
<b>TOTAL SOUTH OF CAPE FALCON</b>	<b>29,087</b>	<b>16,730</b>	<b>0.58</b>	<b>30,080<sup>b/</sup></b>	<b>10,342</b>	<b>0.34</b>
<b>GRAND TOTAL COUNCIL AREA</b>	<b>165,967</b>	<b>139,482</b>	<b>0.84</b>	<b>150,483<sup>b/</sup></b>	<b>114,685</b>	<b>0.76</b>

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.

c/ Remainder on preseason quota of 29,140 marked coho was converted to non-selective equivalent beginning September 6.

d/ Remainder on preseason quota of 38,380 marked coho was converted to non-selective equivalent beginning September 1.

TABLE I-7. Estimated incidental mortality of Chinook and coho in 2013 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	2013	2013 Bycatch	2013	Observed in 2013	
	Catch Projection	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	52.5	7.6	22.2	50.0	7.2
Non-Indian Commercial Troll	44.0	12.1	41.0	41.9	11.5
Recreational	48.0	7.2	36.8	30.8	4.6
CAPE FALCON TO HUMBUG MT. <sup>c/</sup>					
Commercial Troll	147.8	27.2	74.5	104.0	19.1
Recreational	9.3	1.1	4.0	18.0	2.1
HUMBUG MT. TO HORSE MT. <sup>c/</sup>					
Commercial Troll	26.7	4.9	13.4	16.9	2.2 <sup>d/</sup>
Recreational	31.3	3.7	13.3	44.3	4.3 <sup>d/</sup>
SOUTH OF HORSE MT.					
Commercial	187.9	34.6	94.7	287.3	37.1 <sup>d/</sup>
Recreational	94.2	11.1	34.8	79.4	7.6 <sup>d/</sup>
TOTAL OCEAN FISHERIES					
Commercial Troll	458.9	86.4	245.8	500.1	77.1
Recreational	182.8	23.1	88.9	172.6	18.7
<u>INSIDE FISHERIES:</u>					
Area 4B	-	-	-	-	-
Buoy 10	20.0	NA	NA	22.6	2.8 <sup>d/</sup>
<b>COHO (thousands of fish)</b>					
<u>OCEAN FISHERIES:</u>					
NORTH OF CAPE FALCON					
Treaty Indian Ocean Troll	47.5	3.5	6.9	47.7	3.5
Non-Indian Commercial Troll	14.2	15.8	56.3	6.5	7.2
Recreational	74.8	21.0	100.4	50.2	13.5
SOUTH OF CAPE FALCON <sup>c/</sup>					
Commercial Troll	-	8.7	33.6	0.0	8.7
Recreational	19.0	10.9	55.3	10.3	5.9
TOTAL OCEAN FISHERIES					
Commercial Troll	68.6	25.6	87.4	54.2	19.4
Recreational	90.4	30.2	147.2	60.5	19.4
<u>INSIDE FISHERIES:</u>					
Area 4B	-	-	-	-	-
Buoy 10	13.0	3.1	12.5	7.6	1.3 <sup>d/</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: 17% (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 or coho.

TABLE I-8. Summary of 2013 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	89%	57%	-	145	438	438	0	386	494	164	1,819
Westport	55%	59%	-	2,451	1,708	1,687	21	1,239	1,755	567	5,431
Columbia River	79%	43%	-	194	632	632	0	612	1,921	417	1,110
North of Cape Falcon Total	-	-	8,000	2,790	2,778	2,757	21	2,237	4,170	1,148	8,360
Inside Fisheries											
Strait of Juan de Fuca <sup>d/</sup>	62%	53%	4,896 <sup>e/</sup>	1,956	8,564	8,405	159	8,304	16,875	5,049	25,725
<b>Grand Total</b>	-	-	12,896	4,746	11,342	11,162	180	10,541	21,045	6,197	34,085

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, 2012) selective fishery only. Data are preliminary.

e/ Expected catch; not a quota.



TABLE I-9. Summary of 2013 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%	7,780	2,583	6,506	6,274	232	11,654	2,553	13,768
La Push	46%	36%	1,940	568	2,798	2,783	15	6,371	1,365	4,012
Westport	46%	41%	27,660	8,161	16,566	16,396	170	24,968	5,623	26,750
Columbia River	53%	56%	37,380	8,995	18,742	18,630	112	14,577	3,712	25,751
North of Cape Falcon Total	-	-	74,760	20,307	44,612	44,083	529	57,569	13,253	70,281
Cape Falcon to OR/CA Border	40%	37%	10,500	3,706	6,596	6,548	48	11,294	2,476	21,621
Ocean Fisheries Total	-	-	85,260	24,013	51,208	50,631	577	68,863	15,728	91,902
Inside Fisheries										
4B Add-on	-	-	-	-	-	-	-	-	-	-
Strait of Juan de Fuca <sup>d/</sup>	42%	23%	16,790 <sup>e/</sup>	4,405	14,566	14,502	64	7,719	1,655	29,232
Buoy 10	53%	52%	13,000 <sup>e/</sup>	3,093	7,620	7,423	197	5,944	1,510	65,767
Inside Fisheries Total	-	-	29,790	7,498	22,186	21,925	261	13,663	3,165	94,999
<b>Commercial</b>										
Neah Bay	42%	-	-	397	179	179	0	273	94	85
La Push	44%	-	-	1,373	1,976	1,950	26	2,747	950	254
Westport	45%	-	-	1,619	3,759	3,753	6	5,088	1,765	620
Columbia River	49%	-	-	2,990	553	553	0	643	227	128
Commercial Total	-	-	14,220	6,379	6,467	6,435	32	8,751	3,036	1,087
<b>Grand Total</b>	-	-	129,270	37,890	79,861	78,991	870	91,277	21,929	-

a/ Hook-and-release plus drop-off mortality of marked plus unmarked fish; computation of estimated nonretention mortality differs from 2010 and prior years; computation of North of Falcon recreational fisheries estimated nonretention mortality differs from 2011 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	338.5	68.1	86.6	304.6	20.3	63.2	40.2	64.8
2006	282.3	67.4	85.8	263.8	26.6	69.2	27.0	48.9
2007	268.1	53.6	82.8	240.2	25.3	62.2	8.1	68.9
2008	151.9	43.0	49.3	126.2	13.7	32.5	5.3	66.6
2009	175.6	48.5	69.6	159.0	20.6	47.9	3.7	62.4
2010	195.6	30.6	58.5	177.8	8.3	44.2	0.5	53.9
2011	242.2	48.2	66.6	220.1	16.2	54.0	0.7	66.0
2012	209.0	39.5	46.5	191.3	13.2	37.6	1.1	51.9
2013 <sup>c/</sup>	149.6	51.3	45.8	135.0	13.6	35.3	0.3	62.6

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		Outside Sport	NW Troll	SW Troll	Net	Troll	Net <sup>a/</sup>	Sport		Troll	Net	Sport
												North <sup>e/</sup>	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	25.6	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	47.4	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	23.9	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	26.3	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	26.4	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	20.3	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	22.3	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	10.9	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	23.9	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	21.5	4.0	-	0.2	15.6
2011	74.7	4.6	-	4.8	70.1	70.0	54.0	21.8	78.4	0.0	0.5	27.4	6.1	-	0.0	13.6
2012	80.2	1.4	0.0	3.6	52.9	32.3	23.2	10.2	65.4	0.0	1.9	26.9	3.4	0.0	0.3	22.1
2013 <sup>b/</sup>	69.3	2.7	0.0	5.3	61.4	8.2	28.6	8.7	61.7	0.0	0.4	28.2	4.1	0.0	0.0	34.2
<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	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
2012	215.5	0.0	0.0	0.5	6.0 <sup>c/</sup>	0.4	1.7	0.3	46.2	0.0	0.0	1.2	2.5	0.0	0.0	16.6
2013 <sup>b/</sup>	378.2	21.0	21.1	24.5	NA	5.3	0.8	1.1	72.3	0.0	2.6	19.7 <sup>f/</sup>	4.6 <sup>f/</sup>	0.0	0.0	19.7

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.

e/ Includes Johnstone Strait Sport (Chinook)

f/ Does not include areas 15 (North) and 16 (South)

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	-	-	-	-	-	-	8,553	31,296	23,652	-	11,642	3,980	79,123
2010-2011	-	-	-	-	1,849	875	8,670	41,239	34,394	15,619	21,284	-	123,930
2011-2012	-	-	245	129	542	243	10,493	22,334	-	-	4,280	17,264	55,530
2012-2013 <sup>a/</sup>	3,344	271	271	1,092	287	500	3,189	22,899	0	0	0	2,531	34,384

a/ Preliminary.

b/ Fishery restricted to plugs only.

TABLE I-13. Summary of 2013 coho catch and release in British Columbia commercial fisheries.

Gear/Area	Coho Kept	Coho Released
Northern Troll	378,187	20,273
Northern Net	21,022	2,226
North Central Troll	21,121	0
South Central Troll	0	859
Central Net	24,507	24,717
Johnstone Strait Net	2,181	18,627
Strait of Georgia Net	0	88
Strait of Georgia Troll	0	0
Fraser Gill Net	0	0
Northwest Vancouver Island Troll	5,297	35
Southwest Vancouver Island Troll	829	1,605
Northwest Vancouver Island Net	2	0
Southwest Vancouver Island Net	1,106	93

TABLE I-14. Summary of 2013 coho catch and release in British Columbia recreational fisheries.

Area	Kept	Released
Juan de Fuca Strait	19,741	57,334
Strait of Georgia	24,282	91,974
Johnstone Strait	6,132	11,422
WCVI <sup>a/</sup>	72,315	108,006
Total	122,470	268,736

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

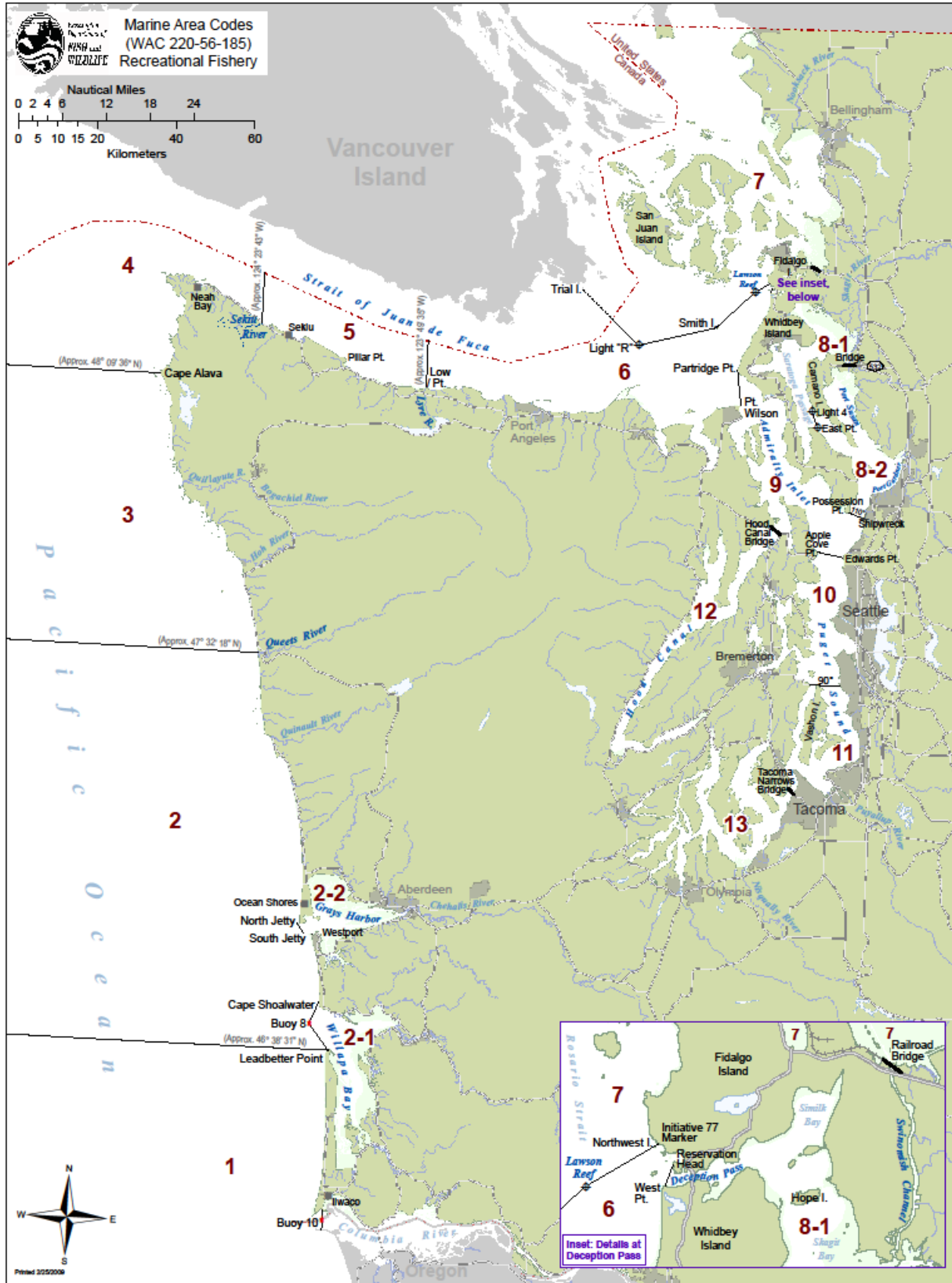


Figure I-1. Washington marine area code numbers and locations.

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## 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 objectives guided Council management of Central Valley Chinook salmon stocks in the 2013 fisheries: (1) for SRFC, an escapement of at least 250,300 hatchery and natural area adults; and (2) for SRWC, the ESA consultation standard specifying a maximum predicted age-3 impact rate of 12.9 percent and restrictions concerning the duration, timing, and minimum size limits for commercial and recreational ocean salmon fisheries south of Point Arena. Harvest impacts on Central Valley Chinook were a primary management concern in fisheries south of Point Arena.

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

In 2013, fishing opportunity south of Cape 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. Fisheries south of Point Arena were also constrained by the SRWC consultation standard. Season and size limit details are presented in Tables I-1 and I-3.

#### *Commercial*

Harvest impacts on SRWC were a primary management concern in fisheries south of Point Arena. To meet the terms of the California Coastal Chinook and SRWC ESA consultation standards, the commercial season south of Point Arena opened on May 1 and closed on September 30, with closures for portions of June and July. In addition, an October 1-15 fishery was open Monday through Friday between Point Reyes and Point San Pedro. Commercial fisheries south of Point Arena had a 27-inch minimum size limit through August, reducing to 26 inches during September and October. No specific restrictions were required for ocean salmon fisheries to meet the escapement goal for SRFC. Under the 2013 regulations, the projected hatchery and natural area adult escapement of SRFC was 462,600, which exceeded the minimum allowable escapement, defined by the control rule, of 250,300 hatchery and natural area adults.

#### *Recreational*

Recreational seasons and size limits were structured to meet the SRWC ESA consultation standard. To meet the 2013 age-3 impact rate cap of 12.9 percent, fisheries south of Point Arena were limited to five days per week from June 1 through July 9. Additionally, the minimum size limit for recreational fisheries from Point Arena to Pigeon Point was 24 inches through July 31, and 20 inches thereafter. South of Pigeon Point the minimum size limit was 24 inches for the duration of the season. Recreational fisheries opened on March 15 between Cape Falcon and Humbug Mt., April 6 south of Horse Mountain, and May 1 in the KMZ. Recreational fisheries in the KMZ continued through September 8, 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 75,300 adult SRFC. Harvest of SRFC in 2013 Central Valley river fisheries totaled 55,477 adults.

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. However, beginning in 2012, recreational angling opportunity was reintroduced on the Mokelumne River, the first such opportunity since 2007. Total harvest for the Mokelumne River in 2012 and 2013 was approximately 1,200 Chinook.

### *Escapement and Management Performance*

Total Chinook catch in commercial and recreational fisheries south of Cape Falcon was close to preseason expectations. Overall, commercial Chinook fisheries caught approximately 113 percent of preseason expectations and recreational Chinook fisheries caught approximately 105 percent of preseason expectations (Table I-7).

### **Sacramento River Fall Chinook**

Under the 2013 regulations, the projected spawning escapement in the Sacramento River Basin was 462,600 hatchery and natural area fall Chinook adults. A total of 404,666 hatchery and natural area adult spawners were estimated to have returned to the Sacramento River basin in 2013 (Table II-1, Figure II-1).

Fall Chinook returns to Sacramento River hatcheries in 2013 totaled 103,890 adults, and escapement to natural areas was 300,776 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 area and hatchery fall spawner escapement estimates. For a more detailed breakdown of the historical escapement see Appendix B, Tables B-1 and B-2.

Under the terms of Amendment 16 to the salmon FMP, SRFC are considered to be overfished when the 3-year geometric mean spawning escapement falls below the minimum stock size threshold (MSST) of 91,500 hatchery and natural area adult spawners. The geometric mean of adult spawning escapement for years 2011-2013 is 239,771 and therefore SRFC are not overfished.

SRFC are considered to have been subject to overfishing if the estimated exploitation rate exceeds their maximum fishing mortality threshold (MFMT) of 0.78. An estimate of the 2013 SRFC exploitation rate is not yet available. However, fisheries in 2012 resulted in an exploitation rate of 0.54, well below the MFMT. Therefore, overfishing did not occur in 2012 (Table II-6).

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

Spawner escapement of endangered winter Chinook salmon in 2013 was estimated to be 5,653 adults and 469 jacks. This estimate was derived from a carcass survey conducted on the upper Sacramento River and includes winter Chinook captured in the Keswick trap, which provides brood stock to Livingston Stone National Fish Hatchery.

In 2013, it was noted that a number of Chinook salmon had strayed from the Sacramento River to irrigation diversions making up part of the Colusa Basin Drain. Many of these fish were winter Chinook (determined, in part, by the recovery of 11 winter run coded-wire tags from fish captured in the



diversions) and efforts to capture and relocate these fish to the Sacramento River were undertaken. Winter Chinook that were captured and released into the Sacramento River would be represented in the carcass survey spawner estimate. However, an additional 47 winter Chinook adults were captured in the Colusa Basin Drain and transferred to Livingston Stone National Fish Hatchery for spawning. These fish are included in the 2013 spawner escapement estimate reported above.

Winter Chinook 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. Red Bluff Diversion Dam gates were permanently removed in 2012, and escapement estimates based on dam passage will no longer be available.

Escapement of spring Chinook to the Sacramento River system in 2013 totaled 22,760 fish (jacks and adults), most of which (an estimated 18,507 fish) returned to upper Sacramento River tributaries; the remaining 4,253 fish returned to the Feather River Hatchery. No estimate of spring Chinook escapement to the upper mainstem Sacramento River could be made in 2013 due to changes in Red Bluff Diversion Dam operations; removal of the Red Bluff Diversion Dam gates in 2012 will prevent estimation of spring Chinook escapement to the upper mainstem Sacramento River in the future. 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. Since 2005, 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.

### **Sacramento River Late-Fall Chinook**

Late-fall Chinook spawning escapement in 2013 was estimated to be 8,315 adults and 637 jacks. These Chinook returned primarily to the Coleman National Fish Hatchery and the upper Sacramento River. These numbers also include late-fall Chinook that returned to upper Sacramento River tributaries and those captured in the Keswick trap for use as broodstock at Coleman National Fish Hatchery (Appendix B, Tables B-3 provides historical spawner escapement).

### **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 2013 totaled 14,776 jacks and adults in natural areas and 6,268 jacks and adults to hatcheries (Appendix B, Tables B-1 and B-2 provide historical spawner escapements). Salmon production in the San Joaquin River is determined largely by spring outflows three years earlier. Since 1986, spawner returns to the San Joaquin River have constituted less than 10 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 influenced management of 2013 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. KRFC were managed in accordance with their control rule specifying a maximum adult natural spawner reduction rate of 68 percent, resulting in an expected spawner escapement of 73,800 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 272,400 fall Chinook adults, resulting in a spawner escapement of 73,800 adults to natural areas, taking into account projected river fishery impacts of 165,600 adults and returns to basin hatcheries; (2) 50 percent (114,800) of the allowable adult harvest for tribal subsistence and commercial fisheries; (3) 34.8 percent (40,000) of the non-tribal harvest to the Klamath River recreational fishery; and (4) 9.6 percent (approximately 7,200 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. Several quota fisheries in the Oregon and California KMZ were open in 2013, and the Oregon KMZ was open without a quota for the months of April and May. Commercial fishing opportunity in areas north and south of the KMZ were generally more extensive relative to recent years (Table I-1).

### *Recreational*

Recreational fisheries were permitted in the KMZ from May 1 through September 8. 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 6 for the area south of Horse Mountain. These fisheries also extended later into the fall than recreational fisheries in the KMZ. (Table I-3).

### *Inside Harvest*

Yurok and Hoopa tribes shared a federally-reserved right of 50 percent (114,800) of the available harvest surplus of adult Klamath fall Chinook. Tribal adult harvest was 62,774, which was 55 percent of the quota (Appendix B, Tables B-4 and B-5). The State of California managed the river recreational fishery under a 40,000 adult fall Chinook quota. The estimated recreational fishery harvest was 19,728 adult fish, which was 49 percent of the quota (Table B-4). Harvest estimates for streams outside the Klamath River Basin were not available.

### *Escapement and Management Performance*

In the Oregon portion of the KMZ, commercial catches were largely below quota levels. Unused portions of the June and July quotas were transferred to the following month (July and August) on an impact-neutral basis. The September Oregon KMZ commercial fishery caught only 14 percent of the quota. In the California portion of the KMZ, May, June, July, and August quotas were nearly attained. Unused portions of the May, June, and July quotas were transferred to the following month on an impact-neutral basis. The September California KMZ commercial fishery caught only three percent of the quota (Table I-6).

### **Threatened California Coastal 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. In 2013, extremely low flows resulted in fish passage barriers that severely limited access to these areas. Video counts of Chinook passage at Mirabel Dam on the Russian River have been conducted since 2000 (Appendix B, Table B-7).

The 2013 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 2013 KRFC age-4 ocean harvest rate was not available.

### **Klamath River Fall Chinook**

The 2013 preliminary postseason river run size estimate for KRFC was 165,140 adults compared to the preseason-predicted ocean escapement (river run size) of 272,400. The escapement to natural spawning areas was 59,627 adults, which was 81 percent of the 73,800 adult preseason prediction. The estimated hatchery return was 17,149 adults. Jack returns to the Klamath Basin totaled 14,398, including 10,358 that escaped to natural spawning areas. 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 13,202 adults. The Shasta River has historically been the most important Chinook salmon spawning stream in the upper Klamath River, supporting a spawning escapement of 27,600 adults as recently as 2012 and 63,700 in 1935. The escapement in 2013 to the Shasta River was 6,925 adults. Escapement to the Salmon and Scott Rivers was 2,240 and 4,037 adults, respectively (Appendix B, Table B-6).

Under the terms of Amendment 16 to the salmon FMP, KRFC are considered to be overfished when the 3-year geometric mean spawning escapement falls below the minimum stock size threshold (MSST) of 30,525 natural area adult spawners. The geometric mean of adult spawning escapement in natural for years 2011-2013 is 69,045 and therefore KRFC are not overfished (Table II-6).

KRFC are considered to have been subject to overfishing if the estimated exploitation rate exceeds their maximum fishing mortality threshold (MFMT) of 0.71. An estimate of the 2013 KRFC exploitation rate is not yet available. However, fisheries in 2012 resulted in an exploitation rate of 0.46, well below the MFMT. Therefore, overfishing did not occur in 2012 (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 2013 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 2013 fisheries, conservative regulations were adopted with the intention of reducing impacts on some of these stocks. Complete estimates of the 2013 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 two fall terminal area commercial fisheries was 1,137 Chinook.

Under the 2013 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 2013. 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 eight of the nine standard streams and used to measure natural spawner escapement trends for north migrating fall Chinook in 2013. Data have been collected since about 1950 for most systems. Overall peak Chinook adult index spawner counts in 2013 were preliminarily estimated at 189 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 2011, 2012, and 2013 was 144 fish per mile, which exceeded both the MSST (30) and the MSY spawner escapement level. Estimates of exploitation rates were not available for 2012 or 2013, but earlier fisheries resulted in 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 2013 were preliminarily estimated at 32 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 2013 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 12,100 includes an unknown number jacks. Escapements based on these indicators continued an increasing trend in recent year's returns and the second highest since 2004 (Figures II-3 and II-4).

The geometric mean of south/local migrating Oregon Coast Chinook adult escapement in 2011, 2012, and 2013 was 32 fish per mile, which exceeded the MSST (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 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.

## **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 inriver 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 2013 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 41.0 percent, an increase from the ceiling rate of 37.0 percent in 2011. 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 14,200. 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. The 2013 combined abundance of URB,

Fraser River origin, and other stocks contributing to the southeast Alaska and British Columbia AABM fisheries and the corresponding allowable catch were lower than in 2012. The 2013 preseason forecast of Columbia River stocks per se were greater than that in 2011. Nevertheless, the 2012 total allowable catch (TAC) in fisheries north of Cape Falcon was lower than in 2012.

The 2013 overall non-Indian Chinook total allowable catch (TAC) for North of Cape Falcon was 92,000 including an 8,000 coastwide mark-selective Chinook quota for a portion of the recreational fishery (non-mark-selective equivalent of 88,000). These compare to a 2012 non-Indian TAC of 99,000, including a 8,000 coastwide mark selective Chinook quota for a portion of the recreational fishery; the equivalent non-mark-selective TAC was 95,000. The 2013 overall TAC was divided into 44,000 commercial and 48,000 recreational (non-mark-selective equivalent of 44,000). The treaty Indian ocean troll TAC was 52,500 Chinook, and is applicable to the May-September period. This compares to a 2011 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 and later close the area north of the Queets River toward the end of the season to ensure the quota of 29,300 Chinook was not exceeded and to limit impacts on Puget Sound Chinook.

The non-Indian commercial all-salmon fishery was scheduled for July 1 through September 17 with preseason quotas of 14,700 Chinook and 14,220 marked coho. The fishery was open Friday through Tuesday most weeks with various landing and possession limits for each open period. The fishery also had a cap on how much of the catch could come from above the Queets river to limit impacts on Puget Sound Chinook. 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 except in September in the areas south of the Queets River) during the late June-September time period.

The June mark-selective Chinook fishery was open in Areas 3 and 4 May 10 – 11, May 17 18, and June 22 through June 28, Area 2 was open June 8 through 22, and the Columbia River Area was open June 8 through 21.. The fishery operated as scheduled with a total catch of 2,798 marked Chinook. The summer all-salmon fisheries north of Cape Falcon opened June 29 in Areas 3 and 4, June 23 in Area 2, and June 22 in the Columbia River area through the earlier of the coastwide quotas of 40,000 Chinook or 74,760 mark-selective coho or the automatic closure date of September 22 north of Leadbetter point and September 30 south of Leadbetter Point. The coho mark-selective restriction was lifted in the area between the Queets River and Leadbetter Point on September 6, and in the Columbia River area on September 1. The fishery closed as scheduled on the automatic closure dates with total catches of 30,843 Chinook and 50,159 marked and unmarked 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 26,250 for the May-June fishery, 26,250 for the July-September fishery, and the coho quota in the all-salmon fishery was 47,500.

The Chinook directed fishery ran through all of May and closed on June 17 due to obtainment of the Chinook sub-quota. An overage of 4,654 Chinook was subtracted from the July-September all species fishery. An additional adjustment of 1,103 Chinook was subtracted to keep the treaty troll fishery impact neutral on the stocks of concern. This decreased the sub-quota to 20,493 Chinook. The all species fishery opened on July 1 and closed on September 4, taking 94% of the Chinook quota and 100% of the coho quota.

### *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 8,000 SRW fall Chinook, the allowable URB impact rate would be 45.0 percent. NMFS used the URB impact rate as a proxy in the SRW consultation standard.

In 2013, the fall fisheries were managed to achieve the NMFS ESA consultation standards for threatened LCR natural tule and SRW Chinook, and the 2013 URB and SRW preseason forecast run sizes were both large enough to allow a 45.0 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 2013. 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 11,361 spring, 1,954 summer, and 117,740 fall Chinook, which included 8,064 spring, 0 summer, and 22,010 fall Chinook in Select Area (terminal) fisheries. The preliminary catch estimates (adults) for the treaty Indian fisheries were 9,282 spring, 13,397 summer, and 234,351 fall Chinook. The preliminary catch estimate (adults) for the recreational fisheries included 23,080 fall Chinook in the Buoy 10 fishery, and 7,140 spring, 2,058 summer, and 32,710 fall Chinook in mainstem fisheries below Bonneville Dam, 886 spring Chinook in mainstem fisheries above Bonneville Dam, and 13,890 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: 67,570 summer, 90,690 LRH; 14,502 LRW; 69,000 SCH; 832,500 URB; and 163,600 MCB. Estimates for SRW were unavailable. The total ocean escapement of the five fall stocks was 1,182,292 fall Chinook (Figure II-5). The estimated escapement for summer Chinook in 2013 was 68,380, exceeding the MSY spawner escapement objective of 12,143 adults established under FMP Amendment 16. The preliminary estimated natural area escapement (Hanford Reach, Yakima River, and above Priest Rapids Dam) for URB Chinook in 2013 was 293,000 exceeding the MSY spawner escapement level of 39,625 adults established under FMP Amendment 16.

The preliminary 2013 URB inriver harvest rate estimate was 42.2 percent. The total adult SRW, hatchery, and supplementation fall Chinook count at Lower Granite Dam in 2013 was 56,565, up from 34,688 in 2012. Estimates of SRW and supplementation fall Chinook spawning escapement in 2013 were not available. The eight-year mean of SRW natural origin spawners through 2011 was 3,125 fish.

Postseason estimates of exploitation rate on LCR natural tule 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.

The geometric mean of Columbia upper river summer Chinook adult escapement in 2011, 2012 and 2013 was 54,123, which exceeded the MSST threshold (6,072); therefore, Columbia upper river summer Chinook should not be considered overfished (Table II-6). Estimates of combined ocean and inriver exploitation rates were not available for 2012 and 2013, 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 2011, 2012, and 2013 was 233,448, which exceeded the MSST threshold (19,182); therefore, Columbia URB fall Chinook should not be considered overfished (Table II-6). Estimates of combined ocean and inriver exploitation rates were not available for 2012 and 2013, 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 Quinault 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 2013.

### **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. 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 2013 but there was an 84-hour marked Chinook-directed fishery in early August 2013. 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 includes 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 2013 pre-season forecast of Chinook returning to Willapa Bay was 28,354 fish (4,917 natural and 23,437 hatchery). There were four 12-hour and four 24-hour marked Chinook-directed non-Indian gillnet fisheries beginning August 19 through September 12. Retention of unmarked Chinook was prohibited. Total Chinook harvest in the non-Indian gillnet fisheries during 2013 was 14,004 fish, based on preliminary data.

Recreational fisheries in the marine waters of Willapa Bay were open from June 8 through July 31, 2013, concurrent with the Ocean Marine Area 2 (ocean rules applied). From August 1, 2013 through January 31, 2014, 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. Anglers were allowed to fish with two poles if they had a Two-Pole Endorsement.

Recreational salmon fisheries in tributaries to Willapa Bay varied in duration but were generally open August 1 through January 31, 2014. Retention of unmarked Chinook was prohibited. Single-point, barbless hooks were required in all areas. Recreational harvest estimates for 2013 were not available.

### **Escapement and Management Performance**

During 2012, Chinook returning to hatcheries in the Willapa Bay watershed totaled 22,457 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 2013.

An estimate of the 2013 natural spawning escapement was not available; the 2012 natural escapement was 2,158 Chinook, below the FMP objective of 3,393. An estimated 2,184 natural Chinook were harvested in commercial and recreational fisheries in 2011, above the preseason expectation of 1,487.

The geometric mean of Willapa fall Chinook adult escapement in 2010, 2011, and 2012 was 2,838, which exceeded the MSST (1,696); therefore, Willapa Bay fall Chinook should not be considered overfished (Table II-6). Exploitation rate estimates were not available for 2012 and 2013. 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 MFMT for Willapa Bay fall Chinook is 0.78. In 2009, 2010 and 2011, the Willapa Bay fall Chinook exploitation rates, using Queets stock as a surrogate, were 0.60, 0.61 and 0.64 respectively; 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 2013. Mesh restrictions were imposed to allow targeting of spring/summer Chinook and white sturgeon. Thirty-one spring Chinook were reported in the harvest during these fisheries.

The non-Indian recreational season allowed a modified spring Chinook fishery in the Chehalis River during the spring Chinook management period. The non-Indian recreational season was open for the retention of one Chinook per day from May 1 through June 30 in the mainstem Chehalis River. Preliminary catch data are not available for the 2013 fishery, however, preliminary data indicate that 59 Chinook were harvested during this fishery scheduled in 2012. The report on harvest of spring Chinook by the Chehalis Tribe fishery is not available at this time. No summer non-Indian gillnet fishery directed at non-local Chinook stocks occurred in 2013.

The Quinault Indian Nation conducted a fall gillnet fishery harvesting a total of 2,875 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 catch 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 2,427 Chinook, which was about 67 percent of what was expected. The Humptulips area treaty Indian fishery reported harvest was only about 24 percent of what was expected. A total of 448 Chinook were caught. The combined Grays Harbor treaty Indian Chinook catch was 52 percent of what was expected.

The non-Indian gillnet fishery in Humptulips commercial Area 2-C was open for four days in late October and November. Retention of all fall Chinook, coho, and chum was allowed. The Chinook harvest totaled 26, which was 19 percent of the expected harvest. The non-Indian gillnet fishery in the Chehalis River commercial Areas 2A and 2D was open for four 12-hour periods in October. Area 2D was truncated to those areas lying easterly of a north-south line from the confluence of the Hoquiam and Chehalis rivers to Renney Island then easterly to "Range Marker G" located on the south shore of Grays Harbor. Then the boundary extended east to the eastern boundary of Area 2D at the Highway 101 Bridge. The 12-hour fishery on October 10, 2013 required the use of tangle net gear only. There were four 24-hour periods in late October and November. During these fisheries, all areas of 2D were open. During all fisheries live boxes were required, and wild Chinook could not be retained. A total of 13 hatchery-origin Chinook were harvested during this fishery, 27 percent less than expected. The use of live boxes was required.

The recreational fishery in Marine Area 2-2 was open from September 16 through November 30. From September 16 to September 22, up to 3 adult salmon could be retained per day, of which one could be a Chinook. From September 23 to September 28, all recreational salmon fisheries in Marine Area 2-2 were closed to protect Chinook. From September 29 to the end of the season, only coho and chum retention was allowed.

The fall recreational fishery in the Chehalis River was open to the retention of one Chinook per day from May 1 to the end of June and again from October 1 to the end of November. The May and June Chinook fishery was allowed only in the mainstem Chehalis River from the mouth up to the confluence with the

Skookumchuck River. The October and November Chinook fishery was allowed only in the mainstem Chehalis River from the mouth upstream to the Porter Bridge. A recreational mark-selective Chinook fishery was open on the Satsop River from September 16 through the end of November. This fishery was limited to the Satsop mainstem from the mouth upstream of the bridge at Schafer Park. In the fall recreational Humptulips River fishery from the mouth to confluence of the East and West forks, a daily limit of 3 adults, of which only one could be a Chinook, was allowed from September 16 through November 30. From December 1 through January 31, the daily limit was 2 adults, of which only one Chinook could be retained. Recreational harvest estimates were not available at this time.

### **Escapement and Management Performance**

Chehalis River spring Chinook are of natural origin and managed for an escapement goal of 1,400 adults. The 2013 terminal run forecast for spring Chinook was 2,247 adult fish. The preliminary escapement estimate for 2013 spring Chinook is not available at this time.

Grays Harbor fall Chinook were managed for a natural spawning escapement goal of 14,600 adults. The 2013 Grays Harbor fall Chinook forecast was 20,636 natural and 3,626 hatchery adults. The return of hatchery-origin fall Chinook to Grays Harbor hatchery programs were sufficient to provide for 2014 fall Chinook production goals. The natural spawning escapement estimates for 2013 are not available at this time. The initial 2012 spawning ground escapement estimate for the Grays Harbor was 11,969 natural-origin fish and 827 hatchery-origin fish. The initial natural escapement to the Chehalis River was 8,170 and to the Humptulips River it was 3,799.

### *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 20 spring/summer Chinook in 2013 primarily during its sockeye directed fishery.

The 2013 harvest of Quinault River fall Chinook was mostly hatchery-origin fish taken in September and October. The treaty Indian net catch totaled 7,148 fall Chinook.

### **Escapement and Management Performance**

Quinault fall Chinook were managed for hatchery production. The 2013 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 2013 treaty Indian gillnet harvest of spring/summer Chinook remained closed during the spring/summer period through the last week of August. The non-Indian inriver recreational fishery was closed to retention of Chinook.

Fall Chinook were harvested from September 1 through October 16 with a small number added during a later week from November 17 through the 23rd by 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 1,945 fall Chinook in the commercial fishery compared to a preseason expected catch of 1,487. 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 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 2013 recreational salmon fisheries were not available.

### **Escapement and Management Performance**

The 2013 spawning escapement estimate for Queets River spring/summer Chinook was 518 adults, about 26% percent below the MSY spawner escapement goal of 700.

The geometric mean of Queets River spring/summer Chinook adult spawning escapement in 2011, 2012, and 2013 was 528, which is above the MSST (350); therefore, Queets River fall Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates for 2012 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 2013, Queets River fall Chinook spawner survey estimate was 4,080. The indicator Chinook originate from wild brood stock taken each year in the river. The spawning escapement estimate for Queets River fall Chinook was 3,706.

The geometric mean of Queets River fall Chinook adult spawning escapement in 2011, 2012, and 2013 was 3,756, which exceeded the MSST (1,250); therefore, Queets River fall Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates were not available for 2012, but estimates from 2009, 2010, and 2011 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 2013 Hoh River spring/summer Chinook terminal abundance forecast was 851 fish, 49 fish below the escapement goal floor of 900. The treaty Indian gillnet fishery occurred between the weeks of April 29 and August 12, and was scheduled for one day per week in Stat. Weeks 18-20, two days per week in Weeks 21 and 22 and back to one day per week in Weeks 23-27 and 33. Fishing was closed in weeks 28-32 and 34 & 35. Preseason targeted harvest rate (including ceremonial and subsistence catch), was 5.8 percent of the forecasted run. Tribal regulation in 2013 required a minimum of an 8-inch stretch mesh during the first four weeks in order to minimize incidental take of steelhead kelts. The treaty Indian commercial gillnet fishery harvested 532 Spring Chinook. Results of mark sampling and scales indicated that 415 of these were of hatchery origin and 117 of natural origin. An additional 17 hatchery and 6 native wild Chinook were harvested by the Hoh Tribe for Ceremonial and Subsistence purposes.

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 unmarked fish was not allowed this year.

Hoh River fisheries for fall Chinook were based on an expected terminal run size of 3,095 adults, allowing for a terminal harvest rate of 36.8 percent. The spawning escapement was expected to be 1,955 adults.

The treaty Indian fishery targeted 25.5 percent of the terminal run. The treaty Indian gillnet fishery was scheduled for three days per week during weeks 36 through 45, and two days per week in weeks 46 through 48. The Hoh treaty commercial fishery caught approximately 1,531 wild Chinook, with a pre-season expected catch of 789, an estimated 10 Chinook were harvested for Ceremonial and Subsistence purposes. Results of mark sampling indicated that 142 hatchery Chinook were also harvested by the Hoh treaty commercial fishery.

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. The sport fishery harvest of wild Chinook was not available.

### **Escapement and Management Performance**

The 2013 preliminary spawning escapement for Hoh River spring/summer Chinook is 1,070. The geometric mean of Hoh River spring/summer Chinook spawner escapement in 2011, 2012, and 2013 was 932, which exceeded the MSST (450); by those metrics, 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 lack of Ocean harvest data, it is difficult to assess the extent to which Hoh River spring/summer Chinook were subject to overfishing in SUS fisheries in recent years (Table II-6). The population remains in decline with spawning escapement at or below the floor seven of the past eight years. The declining abundance is constraining to the Hoh Tribal Treaty In-River Fishery.

The preliminary 2013 spawning escapement estimate for Hoh River fall Chinook is 750. The geometric mean of Hoh River fall Chinook adult spawning escapement in 2011, 2012, and 2013 was 828, which exceeded the MSST (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 2012 but earlier estimates were below the MFMT (0.90); given these assumptions, 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 brood stock 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 2013 was 1,049 spring and 156 summer Chinook. Catch for ceremonial and subsistence use is included in the IGN harvest numbers. Estimates of 2013 recreational spring and summer Chinook harvest were unavailable.

The total 2013 Quileute Tribal harvest of fall natural Chinook was 1,952. Fall hatchery Chinook catch was 49. Catch for ceremonial and subsistence use is included in the IGN harvest numbers. An estimate of the 2013 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 2013 management agreement called for an escapement goal of 200 hatchery spring Chinook. The actual rack return was 528, which exceeded hatchery requirements.

The summer Chinook run was managed to achieve an MSY spawner escapement of 1,200 adults, jacks, and brood stock collection combined. The preliminary estimated natural spawning summer Chinook escapement of 948 was under the escapement goal.

The geometric mean of Quillayute River summer Chinook spawner escapement in 2011, 2012, and 2013 was 733, 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 4,017 fall Chinook was above the escapement goal.

The geometric mean of Quillayute River fall Chinook adult spawning escapement in 2011, 2012, and 2013 was 3,826, 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 was used as a proxy. Exploitation rate estimates were not available for 2012, 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 656 Chinook was below the MSY spawner escapement goal of 850 and included 435 from the supplementation program (Appendix B, Table B-38).

The geometric mean of Hoko River summer/fall Chinook spawner escapement in 2011, 2012, and 2013 was 778, 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 2013 but estimates from 2010, 2011, and 2012 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*

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 regulations affecting any of these stocks was closing the Cape Flattery Control Zone for the non-Indian commercial troll fishery and holding the non-Indian commercial troll fishery to impacts in Area 3 and Area 4 not to exceed those modeled preseason. 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 2013 was 109,968 Chinook, compared to 120,117 Chinook caught in 2012. The 2013 non-Indian net catch was 9,330 Chinook, compared to 9,053 Chinook caught in 2012. The 2013 treaty Indian net and troll harvest was 100,638 Chinook, compared to 111,064 Chinook caught in 2012.



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 2013 Puget Sound recreational fishery were unavailable.

### *Escapement and Management Performance*

Puget Sound Chinook management goals for fishery planning processes in 2013 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 2013. Preliminary data suggest no Puget Sound spring Chinook natural stocks met their escapement goals. Preliminary information on 2013 natural spawning escapements for summer/fall Chinook stocks indicate escapement goals were met in some areas, but not in many others. Escapement estimates for 2013 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 2013 were met for stocks with available estimates. (Table II-5). Information to assess compliance with FMP conservation objectives and ESA consultation standards in 2013 was unavailable for LCR natural tule Chinook, SRW fall Chinook, several Washington coast Chinook stocks, and all Puget Sound natural Chinook stocks.

SRFC and KRFC are managed to meet or exceed annual catch limit spawner abundance ( $S_{ACL}$ ) levels. In 2013, escapement goals for these stocks were equal to the preseason  $S_{ACL}$  as a result of large abundance forecasts. It is not yet possible to evaluate spawner escapement estimates for SRFC and KRFC against postseason  $S_{ACL}$  values; this evaluation will be made in the Preseason I report.

### *Stock Status Determinations*

In 2011 the Council adopted 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 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. Stock specific reference points and recent year estimates for relevant stocks are presented in Table II-6.

Based on the most recent available data on exploitation rates and spawning escapements, none of the relevant Chinook stocks were overfished and no stocks were subject to overfishing.

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	19,312	20,466	39,778	23,559	56,005	79,564	42,871	76,471	119,342
2012	77,318	67,190	144,508	44,946	95,975	140,921	122,264	163,165	285,429
2013 <sup>d/</sup>	67,294	88,808	156,102	36,596	211,968	248,564	103,890	300,776	404,666
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	63%	1,919	3%	22,259	32%	1,974	3%	70,554
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	22,337	46,763	69,100	68%	4,147	4%	26,353	26%	2,377	2%	101,977
2012	55,939	118,047	173,986	60%	13,925	5%	95,386	33%	8,579	3%	291,877
2013 <sup>b/</sup>	17,149	59,627	76,776	46%	19,728	12%	62,774	38%	5,862	4%	165,140
Goal	≥40,700 <sup>c/d/</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.

d/ Annual escapement goals may be more or less than  $S_{MSY}$  in some years due to meeting  $S_{ACL}$  requirements and de minimis fishing provisions.

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	-	5.8	18.3
2009	7.2	4.2	-	9.2	26.5
2010	10.9	5.0	-	15.6	44.1
2011	7.8	4.0	-	16.0	63.0
2012	13.5	6.0	-	NA	NA
2013 <sup>c/</sup>	6.4	5.0	-	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	109	d/	10 <sup>e/</sup>	9
2012	146	d/	14 <sup>e/</sup>	8
2013 <sup>c/</sup>	189	d/	14 <sup>e/</sup>	NA
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 2013 preseason conservation objectives (preliminary data).  
(Page 1 of 2)

System and Stock	2013 Conservation Objective(s)	Achievement
<b>Sacramento River Chinook</b>		
Fall	122,000-180,000 natural and hatchery adults.	Preliminary estimate of 404,666 natural and hatchery adult fall Chinook, well above the upper end of the escapement goal range.
Winter (Endangered)	Age-3 impact rate for the area south of Point Arena, CA no greater than 12.9% (NMFS ESA consultation standard).	Preseason projection of 12.9%; no postseason estimate was available at time of printing.
Spring (Threatened)	Same objective as for winter Chinook.	See Winter Chinook achievement.
<b>California North Coast Chinook</b>		
Klamath River Fall	Minimum escapement of 40,700 natural area adult spawners.	Preliminary estimate of 59,627 is 147% of the conservation 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 at time of printing.
<b>Oregon Coast Chinook</b>		
North Migrating Stocks	150,000-200,000 natural adult spawners	144 natural adult spawners per mile, above the upper bound of the aggregate stock index range.
South/Local Migrating Stocks	(equivalent to peak spawner index counts of 60-90 adults per mile).	
<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.	Preliminary estimate of 11,172 is 196% 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 41.0%.	Preseason projection of 36.02%. No postseason estimate was available.
LRH	12,600 adult hatchery spawners.	Preliminary projection of 37,350 adult hatchery spawners, 296% of goal.
SCH	7,000 adult hatchery spawners.	21,590 adult hatchery spawners, 308% of goal.
MCB	No FMP objective; target of 7,750 hatchery adults.	43,946 adult hatchery spawners, 567% 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.	454,991 natural and hatchery adults over McNary Dam, 1,071% of MSY target in FMP.

TABLE II-5. Performance of Chinook salmon stocks in relation to 2013 preseason conservation objectives (preliminary data).  
(Page 2 of 2)

System and Stock	2013 Conservation Objective(s)	Achievement																																																																																																									
<b>Columbia River Basin Fall Chinook (continued)</b>																																																																																																											
Snake River Fall Chinook (Threatened; component of URB)	SRFI $\leq 0.700$ 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 0.519. 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, objectives were met. Willapa Bay and Garys Harbor fall 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.	Based on preliminary estimates, objectives were met. Grays Harbor spring estimates were not available.																																																																																																									
<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:																																																																																																									
	<table border="1"> <thead> <tr> <th></th> <th>Exploitation Rate</th> <th>Spawner Esc.</th> <th>ISBM</th> <th>Exploitation Rate</th> <th>Spawner Esc.</th> <th>ISBM</th> </tr> </thead> <tbody> <tr> <td>· Nooksack spring</td> <td>· 7% SUS</td> <td>-</td> <td><math>\leq 60\%</math></td> <td>6.9%</td> <td>-</td> <td>38%</td> </tr> <tr> <td>· Skagit summer/fall</td> <td>· 15% SUS</td> <td>-</td> <td><math>\leq 60\%</math></td> <td>48.2%</td> <td>-</td> <td>56%</td> </tr> <tr> <td>· Skagit spring</td> <td>· 38% Total</td> <td>-</td> <td><math>\leq 60\%</math></td> <td>27.3%</td> <td>-</td> <td>35%</td> </tr> <tr> <td>· Stillaguamish summer/fall</td> <td>· 15% SUS</td> <td>-</td> <td><math>\leq 60\%</math></td> <td>12.1%</td> <td>-</td> <td>24%</td> </tr> <tr> <td>· Snohomish summer/fall</td> <td>· 15% SUS</td> <td>-</td> <td><math>\leq 60\%</math></td> <td>11.8%</td> <td>-</td> <td>18%</td> </tr> <tr> <td>· Lake Wash. summer/fall</td> <td>· 20% SUS</td> <td>-</td> <td><math>\leq 60\%</math></td> <td>17.3%</td> <td>-</td> <td>41%</td> </tr> <tr> <td>· White River spring</td> <td>· 20% total</td> <td>-</td> <td>-</td> <td>19.8%</td> <td>-</td> <td>-</td> </tr> <tr> <td>· Green River summer/fall</td> <td>· 15% pre-term SUS</td> <td>5,800</td> <td><math>\leq 60\%</math></td> <td>10.2%</td> <td>1,740</td> <td>29%</td> </tr> <tr> <td>· Puyallup summer/fall</td> <td>· 50% Total</td> <td>-</td> <td>-</td> <td>50.0%</td> <td>-</td> <td>-</td> </tr> <tr> <td>· Nisqually summer/fall</td> <td>· 56% Total</td> <td>-</td> <td>-</td> <td>55.8%</td> <td>-</td> <td>-</td> </tr> <tr> <td>· Skokomish summer/fall</td> <td>· 50% total</td> <td>-</td> <td>-</td> <td>50.0%</td> <td>-</td> <td>-</td> </tr> <tr> <td>· Mid-Hood Canal fall</td> <td>· 12% pre-term SUS</td> <td>-</td> <td>-</td> <td>11.9%</td> <td>-</td> <td>-</td> </tr> <tr> <td>· Dungeness spring</td> <td>· 10% SUS</td> <td>-</td> <td>-</td> <td>3.7%</td> <td>-</td> <td>-</td> </tr> <tr> <td>· Elwha summer/fall</td> <td>· 10% SUS</td> <td>-</td> <td>-</td> <td>3.5%</td> <td>-</td> <td>-</td> </tr> </tbody> </table>		Exploitation Rate	Spawner Esc.	ISBM	Exploitation Rate	Spawner Esc.	ISBM	· Nooksack spring	· 7% SUS	-	$\leq 60\%$	6.9%	-	38%	· Skagit summer/fall	· 15% SUS	-	$\leq 60\%$	48.2%	-	56%	· Skagit spring	· 38% Total	-	$\leq 60\%$	27.3%	-	35%	· Stillaguamish summer/fall	· 15% SUS	-	$\leq 60\%$	12.1%	-	24%	· Snohomish summer/fall	· 15% SUS	-	$\leq 60\%$	11.8%	-	18%	· Lake Wash. summer/fall	· 20% SUS	-	$\leq 60\%$	17.3%	-	41%	· White River spring	· 20% total	-	-	19.8%	-	-	· Green River summer/fall	· 15% pre-term SUS	5,800	$\leq 60\%$	10.2%	1,740	29%	· Puyallup summer/fall	· 50% Total	-	-	50.0%	-	-	· Nisqually summer/fall	· 56% Total	-	-	55.8%	-	-	· Skokomish summer/fall	· 50% total	-	-	50.0%	-	-	· Mid-Hood Canal fall	· 12% pre-term SUS	-	-	11.9%	-	-	· Dungeness spring	· 10% SUS	-	-	3.7%	-	-	· Elwha summer/fall	· 10% SUS	-	-	3.5%	-	-	
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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						
	2008	2009	2010	2011	2012	2013	3-yr Geo Mean	MSST	S <sub>MSY</sub>	2008	2009	2010	2011	2012	2013	MFMT
Sacramento Fall	65,364	40,873	124,270	119,342	285,429	404,666	239,771	91,500	122,000	0.06	0.01	0.17	0.42	0.54	NA	0.78
Klamath River Fall	30,850	44,409	37,225	46,763	118,047	59,627	69,045	30,525	40,700	0.45	0.37	0.42	0.38	0.46	NA	0.71
Southern Oregon	13	66	52	35	39	23	32	30 fish/mile	150,000 to 200,000	NA	NA	NA	NA	NA	NA	0.78
Central and Northern OR <sup>a/</sup>	40	61	87	109	146	189	144			0.50	0.68	0.69	0.60	NA	NA	NA
Upper River Bright - Fall <sup>a/</sup>	51,757	62,428	114,230	93,510	94,925	293,000	137,521	19,182	39,625	0.54	0.69	0.43	0.60	NA	NA	0.86
Upper River - Summer <sup>a/</sup>	38,171	44,295	47,220	44,432	52,184	68,380	54,124	6,072	12,143	0.55	0.48	0.55	0.62	NA	NA	0.75
Willapa Bay - Fall <sup>b/</sup>	1,900	2,847	3,395	3,119	2,158	NA	2,838	1,696	3,393	0.53	0.60	0.61	0.64	NA	NA	0.78
Grays Harbor Fall <sup>b/</sup>	15,331	8,358	16,951	20,317	11,969	NA	16,034	5,694	11,388	0.53	0.60	0.61	0.64	NA	NA	0.78
Grays Harbor Spring	995	1,132	3,495	2,563	878	NA	1,989	546	1,092	NA	NA	NA	NA	NA	NA	0.78
Queets - Fall <sup>a/</sup>	3,105	3,135	4,031	3,857	3,707	3,706	3,756	1,250	2,500	0.53	0.60	0.61	0.64	NA	NA	0.87
Queets - Sp/Su	305	495	259	373	760	518	528	350	700	NA	NA	NA	NA	NA	NA	0.78
Hoh - Fall <sup>b/</sup>	2,999	2,081	2,599	1,293	1,800	1,269	1,435	600	1,200	0.53	0.60	0.61	0.64	NA	NA	0.90
Hoh Sp/Su	671	880	828	827	915	750	828	450	900	NA	NA	NA	NA	NA	NA	0.78
Quillayute - Fall <sup>b/</sup>	3,612	3,130	4,635	3,963	3,518	4,017	3,826	1,500	3,000	0.53	0.60	0.61	0.64	NA	NA	0.87
Quillayute - Sp/Su	949	555	772	569	729	948	733	600	1,200	NA	NA	NA	NA	NA	NA	0.78
Hoko -Su/Fa <sup>a/</sup>	483	385	793	1,504	1,086	1,091	1,212	425	850	0.55	0.30	0.14	0.18	NA	NA	0.78

a/ CWT based exploitation rates from PSC-CTC 2013 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.

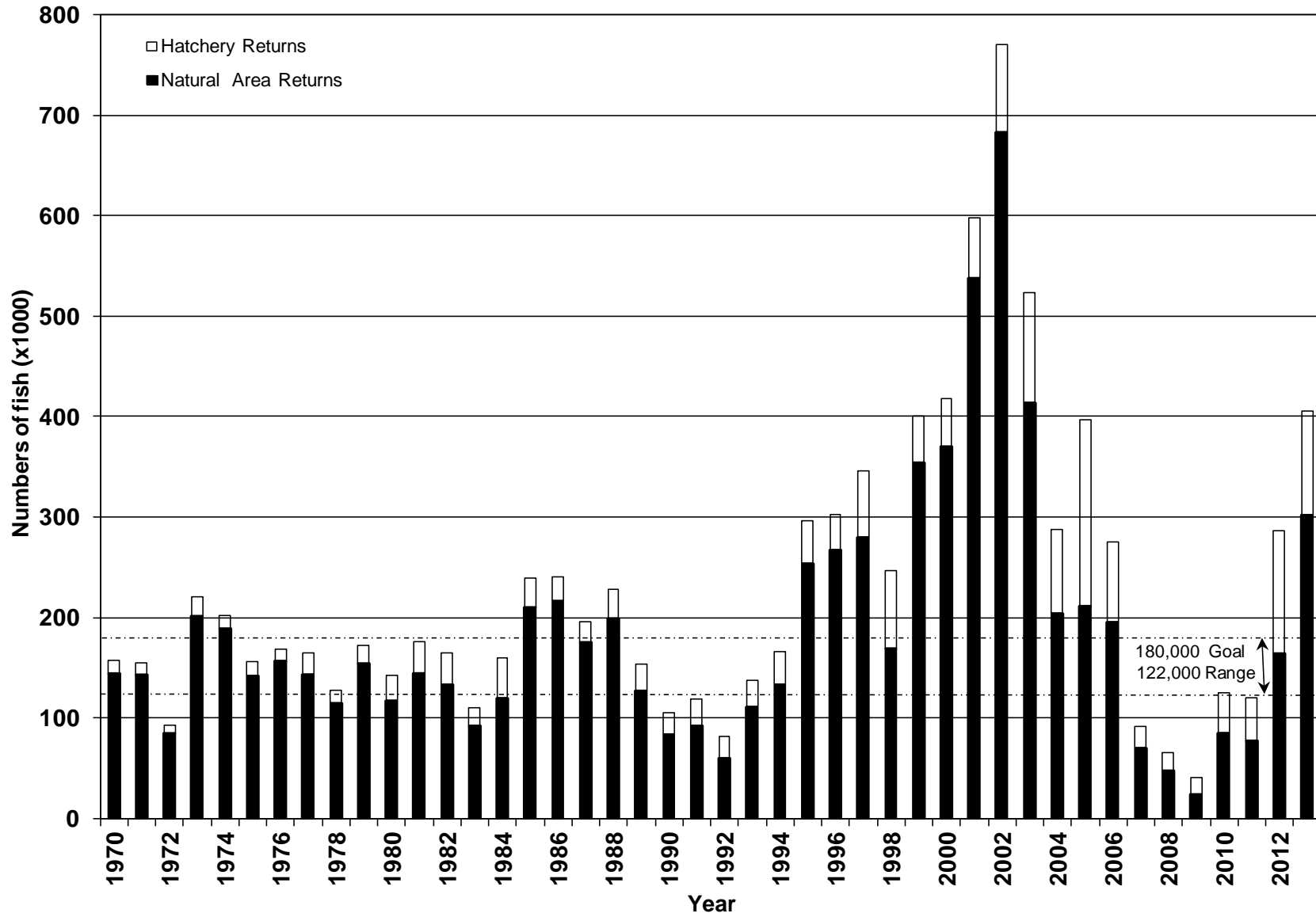


Figure II-1. Sacramento River adult fall Chinook spawning escapement, 1970-2013.

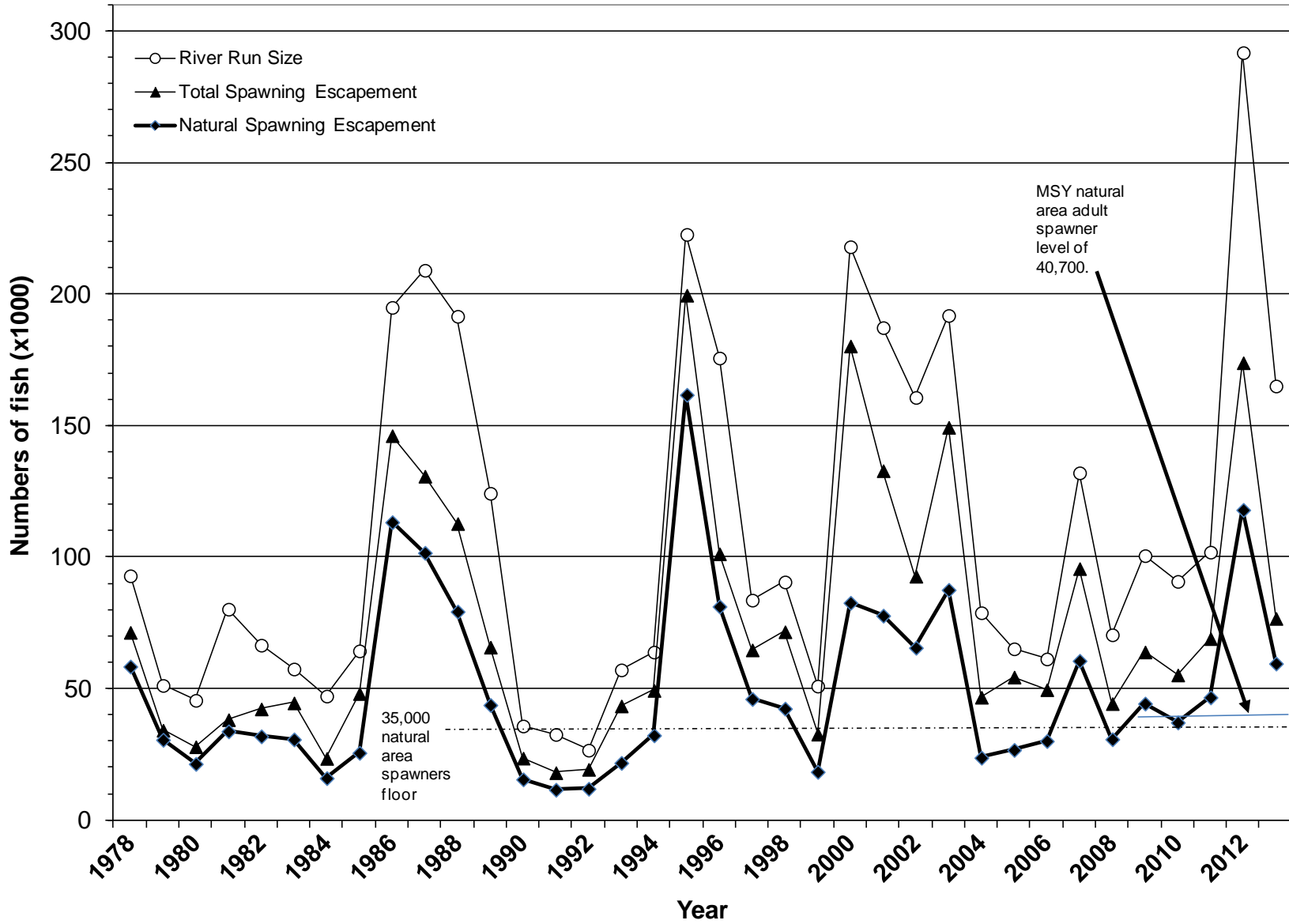


Figure II-2. Klamath River adult fall Chinook returns and spawning escapement, 1978-2013.

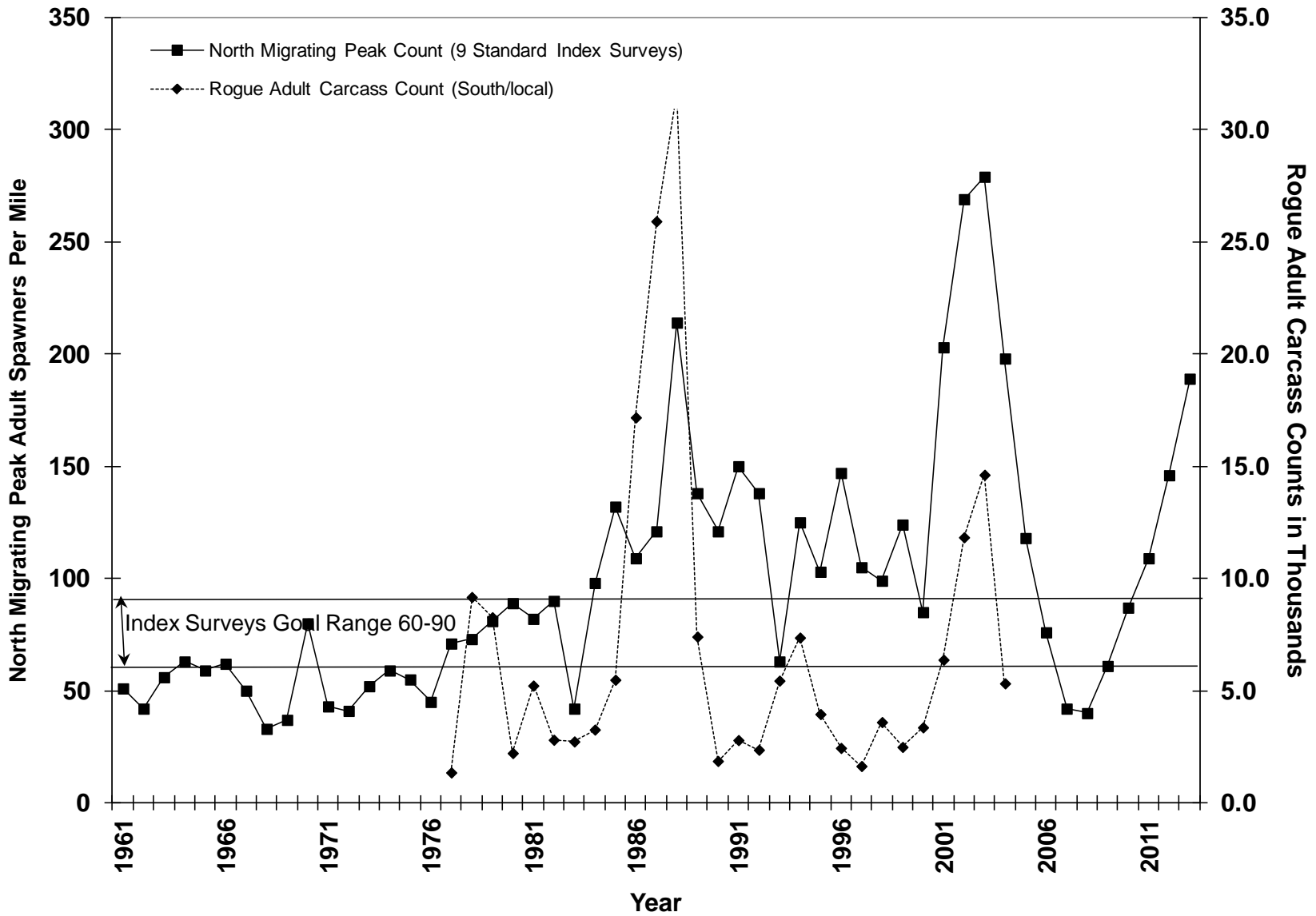


Figure II-3. Spawner indices for naturally produced Oregon coastal fall Chinook, 1961-2013.

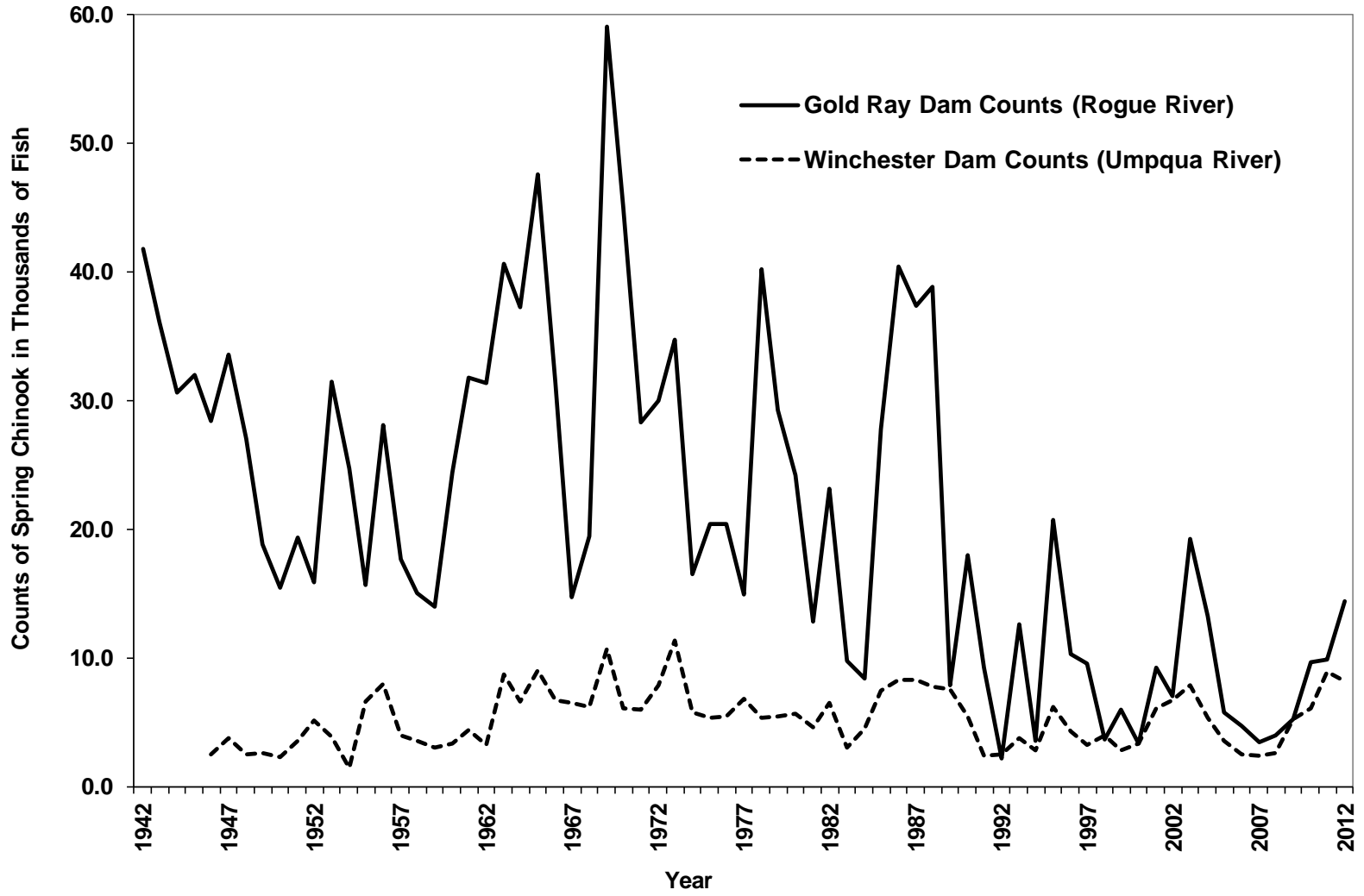


Figure II-4. Escapement indices for naturally produced Oregon coastal south/local migrating spring Chinook, 1942-2013.

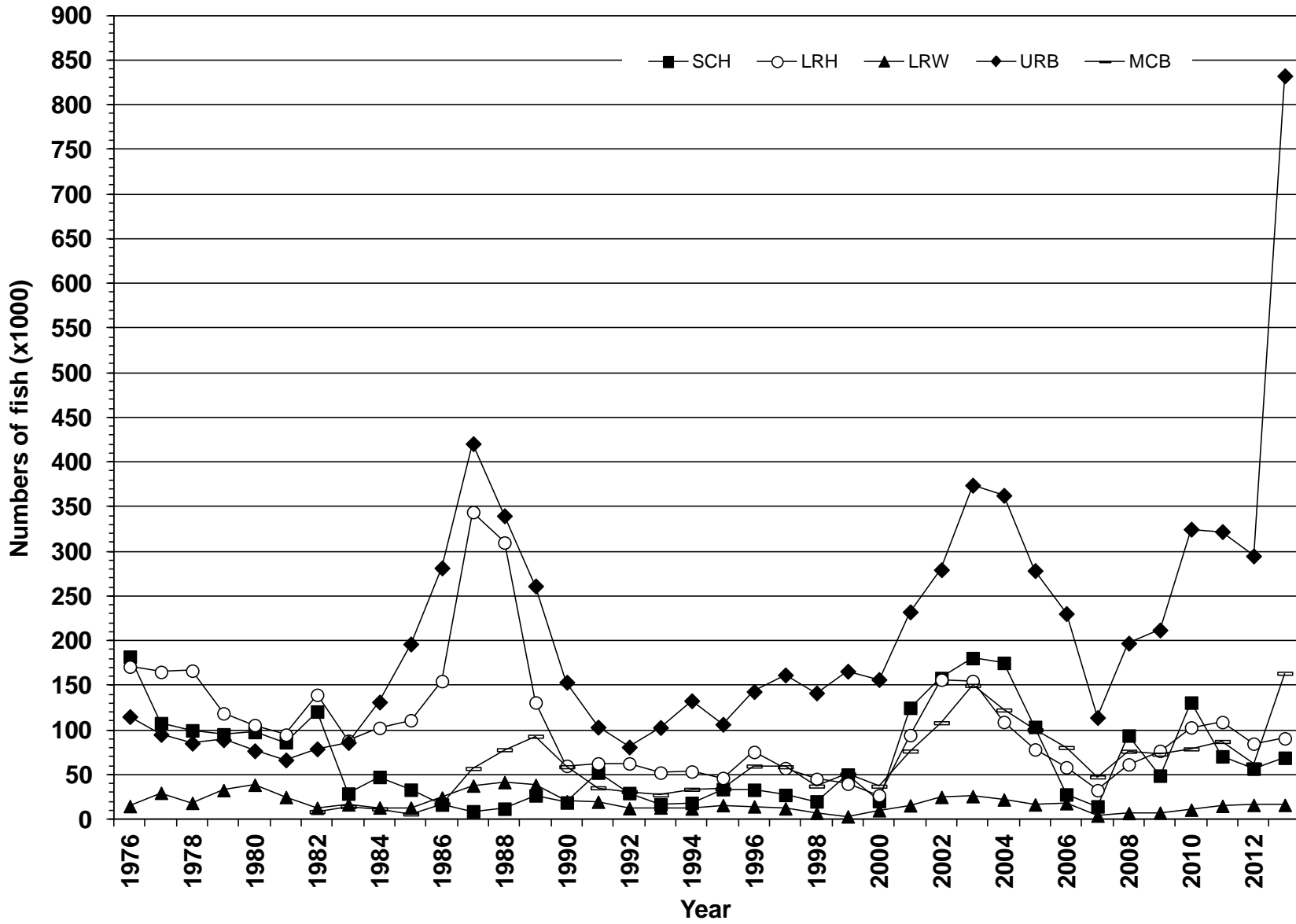


Figure II-5. Columbia River mouth adult returns of the five major fall Chinook stock groups, 1976-2013.

## 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 2013 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 30.0 percent.

Based on parent escapement levels and observed OPI smolt-to-jack survival for 2010 brood OPI smolts, the total allowable OCN coho exploitation rate for 2013 fisheries was no greater than 20.0 percent under the Salmon FMP (Amendment 13) and no greater than 30.0 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 7.3 percent for RK coho in marine fisheries, 23.1 percent for OCN coho in marine and freshwater fisheries combined, and 11.0 percent for LCN coho in marine fisheries.

Total allowable harvest set preseason for the non-Indian commercial and recreational fisheries for coho in 2013 was 89,000, a slight increase from the 83,000 quota in 2012. For the treaty Indian fishery, the overall quota of 47,500 coho was a decrease from the 55,000 coho quota in 2012. 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 2013 had an overall quota of 14,220 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 47,500 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. Limited non-mark-selective recreational ocean coho fisheries have occurred in recent years; 2004 between Leadbetter Point and the Queets River and 2011 between Cape Falcon and Humbug Mountain. In 2012 and 2013, non-mark-selective fisheries occurred between the Queets River and Cape Falcon, and between Cape Falcon and Humbug Mountain. 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 2013, after inseason adjustments, the recreational coho fisheries north of Cape Falcon operated with quotas of 8,200 in the Neah Bay subarea, 3,040 in the La Push subarea, 29,140 in the Westport subarea (with the remainder on September 6 converted to a non-mark-selective quota of 6,350), and 38,380 in the Columbia River subarea (with the remainder on September 1 converted to a non-mark-selective quota of 9,785) (Table I-3). The recreational fishery between Cape Falcon and the Oregon/California border operated with a mark-selective quota of 10,500 in July. After inseason adjustments, a non-mark-selective fishery with a quota of 19,580 occurred in September between Cape Falcon and Humbug Mountain (Table I-3).

### *Inside Harvest*

Coho retention in all California fisheries was prohibited.

The 2013 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 2013 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 twelve estuaries and three lake systems in 2013. The total catch estimate for these fisheries was 5,591 in the estuaries, 300 in Siltcoos, 82 in Tahkenitch, and 21 in Tenmile lakes.

The 2013 Columbia River non-Indian commercial gillnet fishery harvested 48,400 adult coho, compared to 17,100 coho in 2012. Select Area fisheries in both Oregon and Washington accounted for 38,600 of the total 2013 Columbia River commercial coho catch. The Columbia River treaty Indian mainstem commercial gillnet coho catch was approximately 4,600 fish, compared to the 2012 catch of 6,400 coho. Columbia River commercial coho fisheries were primarily 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 7,600 adult coho compared to 7,400 adult coho in 2012. All Columbia River recreational fisheries in 2013 were mark-selective for coho. In 2013 Columbia River managers opened the Buoy 10 fishery August 1 for marked Chinook (or left ventral clipped) and marked coho, with a daily bag limit of two adult salmon only one of which may be a Chinook. From September 2-12 Chinook retention was not allowed. From September 13-25 the fishery was open for marked Chinook and marked coho, with the daily bag limit of two adult salmon. From September 26 through December 31 the fishery was open for Chinook and marked coho, with a daily bag limit of two adult salmon. Barbless hooks were required in these fisheries. The upriver boundary for the fishery was at the Tongue Point, Oregon to Rocky Point, Washington line. The 2013 Buoy 10 effort totaled 65,800 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 2013 was 452,100 compared to 311,300 in 2012 and to the recent ten-year average of 821,400 (Table III-3; Figure III-1). All Council area coho fisheries complied with quota limits. (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 February 11, 2014, 161 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 2013, a total of 6,206 adult coho returned to Trinity River Hatchery and 1,186 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 2013 to Oregon coastal river and lake systems from the Sixes River north (Oregon coast ESU) was 109,400 adult coho. This compares to 99,100 adults in 2012. Historical spawner escapement estimates of naturally produced coho are reported in Table III-1.

Preliminary information indicates the second lowest total natural spawning population on the Oregon coast since 2007 when the current random sampling protocol went into effect. The total estimate of the natural spawning population in 2013 was 120,600, 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 15.8 percent, less than the preseason projection of 23.1 percent, and below the 30.0 percent maximum allowed

under the FMP and the OCN work group matrix. Preliminary postseason estimates of marine exploitation on RK coho was 11.3 percent, over the preseason projection of 7.3 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 6,200 adults (Table III-1). Hatchery egg-take goals were expected to be met at all public hatchery stations.

### **Columbia River Coho**

The 2013 ocean escapement of adult early and late Columbia River coho stocks was 243,000 fish, compared to 143,900 adults in 2012 (Appendix B, Table B-21). The 2013 Columbia River coho abundance was sufficient to meet all hatchery brood stock escapement needs.

Preliminary postseason estimates of marine exploitation on LCN coho was 9.8 percent, less than the preseason projected 11.0 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 2013 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 2013.

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 2013 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 and the September recreational coho fishery in the Columbia River and the Westport areas. The nontreaty troll fishery was selective all season. 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 2013 gillnet coho harvest in Willapa Bay totaled 11,545 fish. Based on the preseason forecast for a terminal run of 95,700 fish, the scheduled commercial fisheries were expected to harvest approximately 20,115 total coho.

From June 8, 2013 through July 31, 2013, Willapa Bay (Marine Area 2-1) was open for recreational fishing concurrent with the Ocean Marine Area 2 (ocean rules applied). From August 1, 2013 through January 31, 2014, 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. Anglers were allowed to fish with two poles if they had a Two-Pole Endorsement. Expected harvest in recreational fisheries based on preseason forecast abundance was 3,415 hatchery and wild coho. Marine and freshwater recreational harvest estimates were unavailable for 2013, but for 2012, Marine Area 2-1 and freshwater recreational harvest estimates totaled 5,030 fish.

Freshwater recreational fisheries in the Willapa Bay watersheds varied in duration but were generally open for salmon fishing from August 1, 2013 through January 31, 2014 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.

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

Willapa Bay coho were managed primarily for natural production. Estimates of natural spawning escapement for 2013 were unavailable. The most recent but still preliminary natural escapement estimate available was 20,024 in 2012, which met the WDFW escapement objective of 13,090 natural spawners. Escapement to Willapa Bay hatcheries in 2012 was estimated at 15,513 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 2012 run size forecast for Grays Harbor coho, after accounting for ocean fishery impacts, was 198,012 fish (150,208 natural and 47,804 hatchery). Treaty Indian and non-Indian gillnet fisheries harvested 42,621 coho (natural, hatchery, and net-pen origin) in 2012. Recreational harvest estimates for 2013 are not available at this time.

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. The Chehalis area Treaty fishery caught 18,687 coho, while the Humptulips area Treaty fishery catch was 3,270 coho. The combined Grays Harbor Treaty coho catch of 21,957 was 37 percent of expected harvest.

The non-Indian gillnet fishery in Humptulips commercial Area 2-C was open for four days late-October through mid-November. Retention of fall Chinook, coho, and chum were allowed. Live boxes were not required. Catches totaled 26 Chinook and 149 coho. The non-Indian gillnet fishery in the Chehalis River commercial Areas 2A and 2D was open for four 12-hour periods in October. Area 2D was truncated to those areas lying easterly of a north-south line from the confluence of the Hoquiam and Chehalis rivers to Renney Island then easterly to "Range Marker G" located on the south shore of Grays Harbor. Then the boundary expended east to the eastern boundary of Area 2D at the Highway 101 Bridge. The 12-hour fishery on October 10, 2013 required the use of tangle net gear only. There were four 24-hour periods in late October and November. During these fisheries, all areas of 2D were open. During all fisheries live boxes were required, and wild Chinook could not be retained. Total catch for areas 2A and 2D is 5,792. The total coho harvest during non-Indian gillnet fisheries in Grays Harbor was 5,941 fish, 71.2 percent less than the forecasted harvest estimate.

Chehalis Tribe Chehalis River mainstem fisheries occurred in the fall of 2013. The total harvest in 2013 is not available at this time as fisheries targeting coho are still on-going. The most recent five-year average (2008 to 2012) of reported coho harvest during Chehalis Tribe fisheries has been about 1,455 fish.

Estimates of catch in recreational fisheries for 2013 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. From September 16 to September 22, the retention of up to three adult salmon per day was allowed; of which one may be a Chinook. From September 23 to September 28 all recreational fisheries for salmon was closed to protect Chinook. From September 29 to the end of the season, only coho and chum retention was allowed.

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

- Downstream of the high bridge on Weyerhaeuser 1000 line approximately 400 yards downstream from Roger Creek: September 16 through November 30, 2013 with a daily limit of 6 salmon, up to 3 adults may be retained, of which 2 may be wild coho. December 1, 2013 through January 31, 2014 with a daily limit of 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 from October 1 through November 30, 2013: a daily limit of 6 salmon, up to 3 adults may be retained, of which 1 may be a wild coho. From December 1, 2013 through January 31, 2014: a daily limit of 6 salmon, up to 2 adults may be retained, release wild coho.
- From the Ocean Beach Road to the confluence of the East and West forks: September 16 through November 30, 2013: a daily limit of 6 salmon, up to 3 adults may be retained; of which 1 may be a wild coho. From December 1, 2013 through January 31, 2014: a daily limit of 6 salmon, up to 2 adults may be retained, release wild coho.

### **Escapement and Management Performance**

Grays Harbor coho are managed for natural production with a spawning escapement goal of 35,400. The 2013 terminal run forecast for natural spawning coho was 179,960 adult fish and 68,200 hatchery-origin coho. A preliminary escapement estimate for 2012 is 66,836 natural spawning coho. An estimate for 2013 Grays Harbor coho was not available. The returns of hatchery-origin coho to Grays Harbor hatchery programs were sufficient to provide for 2014 coho production goals. For the last three returns, natural origin escapement was estimated in 2009 at 64,994, from which 892 were taken for hatchery brood stock; 86,876 in 2010, from which 755 were taken for hatchery brood stock; and 59,432 in 2011, from which 363 were taken for hatchery brood stock.

The geometric mean of Grays Harbor coho escapement in 2010, 2011, and 2012 was 77,825, 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 2012; 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 20,477 coho were harvested by the gillnet fishery during the 2013 season.

### **Escapement and Management Performance**

Quinault River coho were managed for hatchery production. Escapement estimates for Quinault River coho in 2013 were unavailable. The Quinault National Fish Hatchery egg take objectives for 2013 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 abundance estimates and planned Council ocean fisheries. The fishery was structured to target returning hatchery and natural coho while limiting total freshwater Chinook harvest to a maximum rate of 40 percent. The total harvest of coho in the Treaty Indian gillnet fishery was 4,515 commercially-landed fish, which was less than the preseason modeled catch of 12,883. The gillnet harvest was comprised of a mix of early-timed hatchery fish and normal/late-timed natural fish and the harvest of both was substantially less than anticipated. A final estimate of the hatchery/natural mix in the catch is currently unavailable. Coho catch estimates in the treaty Ceremonial and Subsistence fishery are not yet 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 coho were non retention within Olympic National Park waters. Estimates of the non-Indian and treaty Indian recreational catches were not available.

### **Escapement and Management Performance**

The 2013 natural escapement estimate is unavailable. The expected natural coho escapement for 2013 based on preseason modeling was 10,587, with a preseason escapement objective range of 5,800 to 14,500 natural coho. Actual escapement is anticipated to be below the preseason expectation because

actual catches were well below the preseason modeled catches. The 2012 post-season natural coho escapement estimate was 4,285.

The geometric mean of Queets River coho escapement in 2010, 2011, and 2012 was 7,455, 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 2012; 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 2013 terminal run size of Hoh River natural coho was projected to be 7,340. The tribal fishery targeted 30 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 Stat Weeks 49-52 of steelhead management), as described in Chapter II under the section labeled Hoh River Chinook. The tribal commercial fishery harvested approximately 4,597 wild coho, and 233 hatchery-origin coho, with 20 coho retained for ceremonial and subsistence purposes. 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 2013 recreational fishery of wild coho was not available.

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

The preliminary 2013 spawning escapement estimate for coho in the Hoh River is 2,573. The escapement goal range established for this stock is 2,000 to 5,000. The geometric mean of Hoh River coho escapement in 2011, 2012, and 2013 was 6,933; therefore, Hoh River coho should not be considered overfished. Estimates of Hoh River coho exploitation rates were not available for 2012; 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 preseason agreement between WDFW and the Quileute Tribe. A total of 1,028 (412 natural) summer coho were harvested in the Quileute Tribe's commercial, ceremonial, and subsistence fisheries. An estimate of the 2013 recreational catch was unavailable.

Tribal harvest of fall coho in 2013 was 12,611. The Quileute Tribal net fishery harvested 8,027 natural fall coho and 4,584 hatchery fall coho. No fall coho were taken in the ceremonial and subsistence fishery. An estimate of the 2013 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 September. 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 2,504, well above the goal of 300. Natural summer brood stock was not collected for the Sol Duc hatchery. The preliminary estimate for 2013 natural summer coho escapement was 451.

The preliminary 2013 escapement estimate for natural fall coho was 7,063. This was above the MSY spawner escapement objective of 6,300 for this stock. Sol Duc Hatchery collected 9 natural fall coho for integration in their fall coho program.

## 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 U.S. 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 2013. 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 2013, 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 2013, the objectives were as follows:

- Strait of Juan de Fuca (East and West): Moderate status 40 percent maximum exploitation rate
- Hood Canal: Moderate status 45 percent maximum exploitation rate
- Skagit: Abundant status 60 percent maximum exploitation rate
- Stillaguamish: Abundant status 50 percent maximum exploitation rate
- Snohomish: Abundant status 60 percent maximum exploitation rate

### **Regulations to Achieve Objectives**

Puget Sound coho stocks did not play a primary role in 2013 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 2013 total Puget Sound commercial catch of coho was 318,936 fish, compared to a catch of 383,810 coho in 2012. Non-Indian harvest was 29,446 coho, compared to 35,628 coho in 2012. Treaty Indian net and troll fisheries harvested 289,490 coho, compared to 347,182 coho in 2012.

Historical coho catches in the Puget Sound recreational fishery beginning in 1971 are listed in Appendix B, Table B-40. Catch estimates for the 2013 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 2013 postseason estimates were available for southern U.S. (SUS) harvest impacts on Puget Sound coho stocks; therefore, the 2013 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 2013 escapement information indicates natural Puget Sound coho escapements were generally 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 2010, 2011, and 2012 was 17,877, which was above the MSST of 7,000 identified in FMP Amendment 16 and above the  $S_{MSY}$  estimate of 11,000; therefore, Strait of Juan de Fuca coho should be considered rebuilt. Estimates of Strait of Juan de Fuca coho exploitation rates were not available for 2012 or 2013; 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 2010, 2011, and 2012 was 14,313, 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 2012 or 2013; 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-7).

The geometric mean of Skagit coho escapement in 2010, 2011, and 2011 was 50,659, 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 2012 or 2013; 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-7).

The geometric mean of Stillaguamish coho escapement in 2010, 2011, and 2012 was 32,475, 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 2012 or 2013; 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-7).

The geometric mean of Snohomish coho escapement in 2010, 2011, and 2012 was 89,394, 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 2012 or 2013; 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-7).

## **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 2013, 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 (4.5 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 5.5 percent for inside fisheries on Interior Fraser coho.

## COASTWIDE GOAL ASSESSMENT SUMMARY

Preliminary assessment indicates that ESA consultation standards and FMP Conservation objectives for Council managed coho stocks in effect during the preseason planning process of 2013 were met for all other stocks with available estimates (Table III-6). Information to assess compliance with FMP conservation objectives and ESA consultation standards in 2013 was unavailable for Grays Harbor, and Queets River, and Puget Sound coho stocks.

### *Stock Status Determinations*

In 2011 the Council adopted 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 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. 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 were not overfished. Exploitation rate estimates were not available for coho stocks in 2012. Preliminary estimates suggest that Hood Canal coho were subject to overfishing in 2010.

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	16.8	20.9	9.5	85.3
1991	35.1	39.6	4.9	3.9	7.2	33.8	41.0	31.5	156.0
1992	-	23.3	0.6	4.4	2.0	44.7	46.7	18.7	93.7
1993	-	20.2	2.0	2.3	10.1	49.2	59.3	13.3	97.1
1994	-	23.4	1.8	2.0	5.8	41.7	47.5	2.4	77.1
1995	-	25.2	0.4	2.7	11.2	50.1	61.4	3.6	93.2
1996	-	23.4	1.0	5.1	13.5	69.2	82.7	4.0	116.3
1997	-	17.7	0.2	1.8	8.6	15.2	23.9	4.3	47.8
1998	-	15.3	0.2	4.6	11.1	21.5	32.6	5.2	57.9
1999	-	13.3	0.4	3.3	13.4	34.7	48.1	2.8	68.0
2000	-	15.0	0.5	9.7	12.7	61.0	73.8	4.4	103.3
2001	-	37.4	1.4	16.0	19.7	143.1	162.8	10.1	227.7
2002	-	30.9	2.6	7.4	22.2	236.4	258.6	8.0	307.5
2003	-	15.9	3.6	10.7	16.7	213.3	230.0	6.8	267.0
2004	-	13.2	0.8	7.3	18.6	154.1	172.8	6.2	200.3
2005	-	10.0	0.3	9.0	14.7	139.9	154.6	6.1	180.0
2006	-	9.8	0.1	7.1	24.1	104.7	128.8	2.5	148.4
2007	-	3.6	0.0	2.7	9.0	57.3	66.3	1.3	73.9
2008	-	7.0	0.0	0.2	23.6	156.1	179.7	3.0	189.8
2009	-	6.1	0.0	0.7	17.3	245.4	262.7	7.3	276.8
2010	-	7.9	0.0	1.7	38.7	244.7	283.4	5.6	298.6
2011	-	4.6	0.0	0.3	20.3	336.0	356.2	12.7	373.8
2012	-	2.2	0.0	0.7	19.0	80.2	99.2	8.1	110.1
2013 <sup>e/</sup>	-	6.2	0.0	0.6	12.3	97.0	109.4	7.7	123.9

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 2013 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	
31	Aug.-4	1,985	349	58	0.21
32	Aug.-11	5,542	1,949	131	0.38
33	Aug.-18	18,509	9,288	1,379	0.58
34	Aug.-25	21,391	7,079	2,611	0.45
35	Sept.-1	11,859	3,712	1,928	0.48
36	Sept.-8	2,235	22	459	0.22
37	Sept.-15	2,441	177	646	0.34
38	Sept.-22	1,163	9	217	0.19
39	Sept.-29	583	9	191	0.34
40	Oct.-6	47	0	0	0.00
41	Oct.-13	0	0	0	--
42	Oct.-20	10	0	0	0.00
43	Oct.-27	2	0	0	0.00
Total		65,767	22,594	7,620	0.46

a/ Includes boat-based and shore-based fisheries from the upstream boundary at Tongue Point/Rocky Point line (2000), downstream to Buoy 10 line including Clatsop Spit, South Jetty of the Columbia R., and North Jetty of the Columbia R. after the ocean closed. Fishery opened Aug. 1 for marked Chinook and marked coho, with daily-bag-limit of two adult salmon, only one of which may be a Chinook. Sept. 2-12, Chinook retention not allowed. From Sept. 13-25 fishery open for marked Chinook and marked coho, with a daily-bag-limit of two adult salmon. Sept. 26-Dec. 31 the fishery open for Chinook and marked coho, with a daily-bag-limit of two adult salmon. Barbless hooks required in these fisheries.

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 Exploitation Rate Based on OPI Abundance <sup>f/</sup>
	Ocean Fisheries <sup>b/</sup>		Hatcheries and Freshwater			Columbia River		Abundance <sup>e/</sup>	
	Troll	Sport	Harvest <sup>c/</sup>	OCN Spawners <sup>d/</sup>	Private Hatcheries	Returns			
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	0.85	
1981-1985	451.2	274.0	37.2	56.0	176.8	305.3	1,328.6	0.63	
1986	638.9	320.6	79.3	70.0	453.7	1578.1	3,195.4	0.35	
1987	468.2	296.2	45.1	30.1	119.3	324.2	1,272.4	0.66	
1988	844.7	297.2	61.1	56.8	116.1	686.1	1,918.9	0.63	
1989	645.1	425.5	61.1	46.4	46.9	728.7	2,176.5	0.50	
1990	275.9	357.1	28.7	22.5	35.6	208.0	987.4	0.67	
1991	448.4	469.9	77.8	38.1	35.1	981.5	2,040.4	0.46	
1992	67.4	256.5	51.0	44.2	-	225.4	629.6	0.51	
1993	13.1	140.8	38.6	56.1	-	117.9	315.9	0.49	
1994	2.7	3.0	28.2	48.5	-	173.4	267.5	0.02	
1995	5.4	43.5	37.5	57.3	-	77.4	204.1	0.24	
1996	7.0	31.8	45.7	79.3	-	117.1	260.3	0.15	
1997	5.5	22.4	26.9	31.6	-	156.4	230.5	0.12	
1998	3.5	12.8	29.4	34.3	-	175.9	270.8	0.06	
1999	3.6	36.5	22.6	51.2	-	289.1	432.0	0.09	
2000	25.2	74.6	33.2	81.1	-	558.3	762.4	0.13	
2001	38.1	216.8	75.8	185.2	-	1128.3	1,673.2	0.15	
2002	15.0	118.7	54.0	269.0	-	535.8	972.2	0.14	
2003	28.8	252.4	45.1	235.3	-	713.2	1,266.9	0.22	
2004	26.2	159.3	38.1	197.2	-	463.5	904.5	0.21	
2005	10.5	58.2	42.8	164.6	-	354.7	629.9	0.11	
2006	4.5	47.5	29.6	132.7	-	409.7	674.1	0.08	
2007	26.2	128.5	10.9	71.4	-	349.0	631.3	0.25	
2008	0.6	26.4	15.9	180.1	-	520.5	769.8	0.04	
2009	27.7	201.2	16.6	265.3	-	759.5	1,341.3	0.17	
2010	5.8	48.8	19.5	286.5	-	470.8	848.4	0.06	
2011	4.2	54.7	20.0	360.2	-	383.2	836.4	0.07	
2012	4.7	45.5	18.5	104.6	-	143.9	311.3	0.16	
2013 <sup>g/</sup>	8.4	54.4	21.1	120.6	-	243.2	452.1	0.14	

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

b/ Incl. est. nonretention mort.: troll: release mort.(1982-present) and drop-off mort.(all yrs.); sport --release mort.(1994-present) and drop-off mort.(all yrs.).

c/ Includes 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/ Private hatchery stocks are excluded in calculating the OPI area stock aggregate ocean exploitation rate index.

g/ Preliminary.

TABLE III-4. Oregon Coast Natural (OCN) adult coho salmon spawner escapement.

Year	Adjusted SRS Adult Coho Spawner Population Estimates in Thousands of Spawners by Stock Component <sup>a/</sup>					Adult Coho Spawners Per Spawner Habitat Mile				
	Northern <sup>b/</sup>	North Central <sup>c/</sup>	South Central <sup>d/</sup>	Southern <sup>e/</sup>	Coastwide	Northern <sup>b/</sup>	North Central <sup>c/</sup>	South Central <sup>d/</sup>	Southern <sup>e/</sup>	Coastwide Average
	1990	2.2	5.6	13.5	1.2	22.5	2	5	8	3
1991	9.3	6.7	21.6	0.5	38.1	10	6	13	1	9
1992	2.4	15.4	24.4	2.0	44.2	3	13	15	5	11
1993	4.5	7.8	43.1	0.8 <sup>f/</sup>	55.7	5	7	27	1 <sup>f/</sup>	14
1994	3.5	9.8	30.9	4.3	48.5	4	8	19	11	12
1995	3.9	13.6	36.5	3.4	57.3	4	12	22	8	14
1996	3.3	18.1	52.6	5.2	79.3	4	16	32	13	19
1997	2.1	2.8	18.4	8.2	31.6	2	2	11	20	8
1998	2.6	3.3	26.1	2.3	34.3	3	3	16	6	8
1999	8.9	11.8	29.2	1.4	51.2	10	10	18	3	13
2000	17.9	14.3	37.9	11.0	81.1	20	12	23	27	20
2001	33.5	25.2	113.9	12.6	185.2	37	22	70	31	45
2002	52.5	104.0	104.1	8.4	269.0	58	89	64	20	66
2003	59.6	68.9	100.1	6.8	235.3	66	59	62	16	57
2004	28.8	42.1	101.9	24.5	197.2	32	36	63	60	48
2005	16.5	51.4	86.7	10.0	164.6	18	44	53	24	40
2006	24.1	21.2	83.5	3.9	132.8	27	18	51	10	32
2007	17.5	12.3	36.5	5.2	71.5	19	11	22	13	17
2008	25.6	68.1	86.0	0.4	180.1	28	59	53	1	44
2009	48.1	86.4	128.2	2.6	265.3	54	74	79	6	65
2010	55.0	56.5	171.9	3.1	286.5	61	49	106	7	70
2011	45.9	119.1	191.3	3.9	360.2	51	102	118	10	88
2012	7.5	33.8	57.8	5.4	104.6	8	29	36	13	26
2013 <sup>g/</sup>	10.5	35.0	63.9	11.2	120.6	12	30	39	27	29

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/ 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.

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

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

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

f/ Unreliable estimate.

g/ Preliminary.

TABLE III-5. Oregon Coastal Natural and Lower Columbia Natural adult coho salmon cons. objective and fishery impacts.

Year	OCN Fishery Impact (Total Marine and Freshwater Exploitation Rate)			LCN Fishery Impact (Total Marine and Freshwater Exploitation Rate)		
	Conservation Objective <sup>a/</sup>	Preseason Projection	Postseason Estimate <sup>b/</sup>	Conservation Objective <sup>c/</sup>	Preseason Projection	Postseason Estimate <sup>b/</sup>
	1990	-	-	-	-	-
1991	-	0.460	0.639	-	-	-
1992	-	0.420	0.626	-	-	-
1993	-	0.260	0.396	-	-	-
1994	≤0.20	0.111	0.064	-	-	-
1995	≤0.20	0.118	0.106	-	-	-
1996	≤0.20	0.125	0.062	-	-	-
1997	≤0.20	0.110	0.091	-	-	-
1998	≤0.13	0.119	0.076	-	-	-
1999	≤0.15	0.087	0.073	-	-	-
2000	≤0.15	0.082	0.042	-	-	-
2001	≤0.08	0.074	0.035	-	-	-
2002	≤0.15	0.123	0.049	-	-	-
2003	≤0.15	0.144	0.080	-	-	-
2004	≤0.15	0.147	0.077	-	-	-
2005	≤0.15	0.111	0.044	≤0.15	0.10 <sup>d/</sup>	0.179
2006	≤0.15	0.096	0.076	≤0.15	0.10 <sup>d/</sup>	0.146
2007	≤0.20	0.113	0.118	≤0.20	0.13 <sup>d/</sup>	0.208
2008	≤0.08	0.069	0.019	≤0.08	0.08	0.073
2009	≤0.15	0.130	0.067	≤0.20	0.20	0.187
2010	≤0.15	0.112	0.045	≤0.15	0.15	0.107
2011	≤0.15	0.132	0.059	≤0.15	0.15	0.111
2012	≤0.15	0.150	0.183	≤0.15	0.15	0.140
2013 <sup>e/</sup>	≤0.30	0.231	0.143	≤0.15	0.15	0.137

a/ 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.

b/ From the coho FRAM.

c/ In 2005, the NMFS conservation objective and was in terms of marine area fisheries. In 2006, the NMFS conservation objective was in terms of Council area and mainstem Columbia River fisheries; thereafter in terms of all marine area and mainstem Columbia.

d/ The preseason projection was in terms of a marine exploitation rate.

e/ Preliminary.

TABLE III-6. Performance of coho salmon stocks in relation to 2013 preseason conservation objectives (preliminary data).  
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System and Stock	2013 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 coho retention south of the California/Oregon border. Preliminary postseason estimate of 11.3%.
OCN	Combined marine and freshwater exploitation rate $\leq$ 30.0%.	Preliminary postseason estimate of 14.3%.
Columbia River Natural (Threatened)	Combined marine and mainstem Columbia River exploitation rate $\leq$ 15.0%.	Preliminary postseason estimate of 13.7% exploitation rate in marine and mainstem Columbia River fisheries.
<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; preseason projection was 180,900 ocean escapement.
Queets	5,800 to 14,500 natural adult spawners.	Escapement estimate was unavailable; preseason projection was 19,300 ocean escapement.
Hoh	2,000 to 5,000 natural adult spawners.	Preliminary postseason escapement estimates was 2,573.
Quillayute Fall	6,300 to 15,800 natural adult spawners.	Preliminary postseason escapement estimates was 7,063.



TABLE III-6. Performance of coho salmon stocks in relation to 2013 preseason conservation objectives (preliminary data).

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System and Stock	2013 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 2012 natural spawner escapements. Hatchery egg-take goals will be met.
Strait of Juan de Fuca	≤40% total exploitation rate.	Preseason expectation of an 12.9% total exploitation rate; postseason estimate unavailable.
Hood Canal	≤45% total exploitation rate.	Preseason expectation of a 45.0% total exploitation rate; postseason estimate unavailable.
Skagit	≤60% total exploitation rate.	Preseason expectation of a 36.2% total exploitation rate; postseason estimate unavailable.
Stillaguamish	≤50% total exploitation rate.	Preseason expectation of a 27.8% total exploitation rate; postseason estimate unavailable.
Snohomish	≤60% total exploitation rate.	Preseason expectation of a 25.1% total exploitation rate; postseason estimate unavailable.

TABLE III-7. 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).

Table III-7. 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						
	2008	2009	2010	2011	2012	2013				2008	2009	2010	2011	2012	2013	MFMT
Willapa Bay	16,419	47,333	84,565	26,122	20,024	NA	35,366	Undef	Undef	0.33	0.59	0.27	0.46	NA	NA	Undef
Grays Harbor	34,054	69,222	102,237	64,403	66,836	NA	76,063	18,320	24,426	0.31	0.33	0.22	0.42	NA	NA	0.65
Queets	4,629	9,404	11,261	8,588	4,285	NA	7,455	4,350	5,800	0.37	0.43	0.42	0.36	NA	NA	0.65
Hoh	2,461	6,595	8,231	8,043	4,179	2,573	4,422	1,890	2,520	0.43	0.52	0.33	0.39	NA	NA	0.65
Quillayute Fall	6,947	7,863	9,837	8,070	5,846	7,063	6,933	4,725	6,300	0.37	0.50	0.43	0.42	NA	NA	0.59
Juan de Fuca	3,339	14,957	19,282	43,042	14,951	NA	23,151	7,000	11,000	0.13	0.30	0.08	0.09	NA	NA	0.60
Hood Canal	11,756	26,927	4,697	24,844	25,129	NA	14,313	10,750	14,350	0.63	0.59	<b>0.68</b>	0.52	NA	NA	0.65
Skagit	24,093	60,798	31,090	43,042	13,817	NA	26,443	14,875	25,000	0.32	0.31	0.50	0.37	NA	NA	0.60
Stillaguamish	12,938	22,179	15,172	49,991	5,458	NA	16,057	6,100	10,000	0.23	0.28	0.09	0.21	NA	NA	0.50
Snohomish	36,015	98,945	49,100	111,374	17,165	NA	45,447	31,000	50,000	0.28	0.26	0.09	0.21	NA	NA	0.60

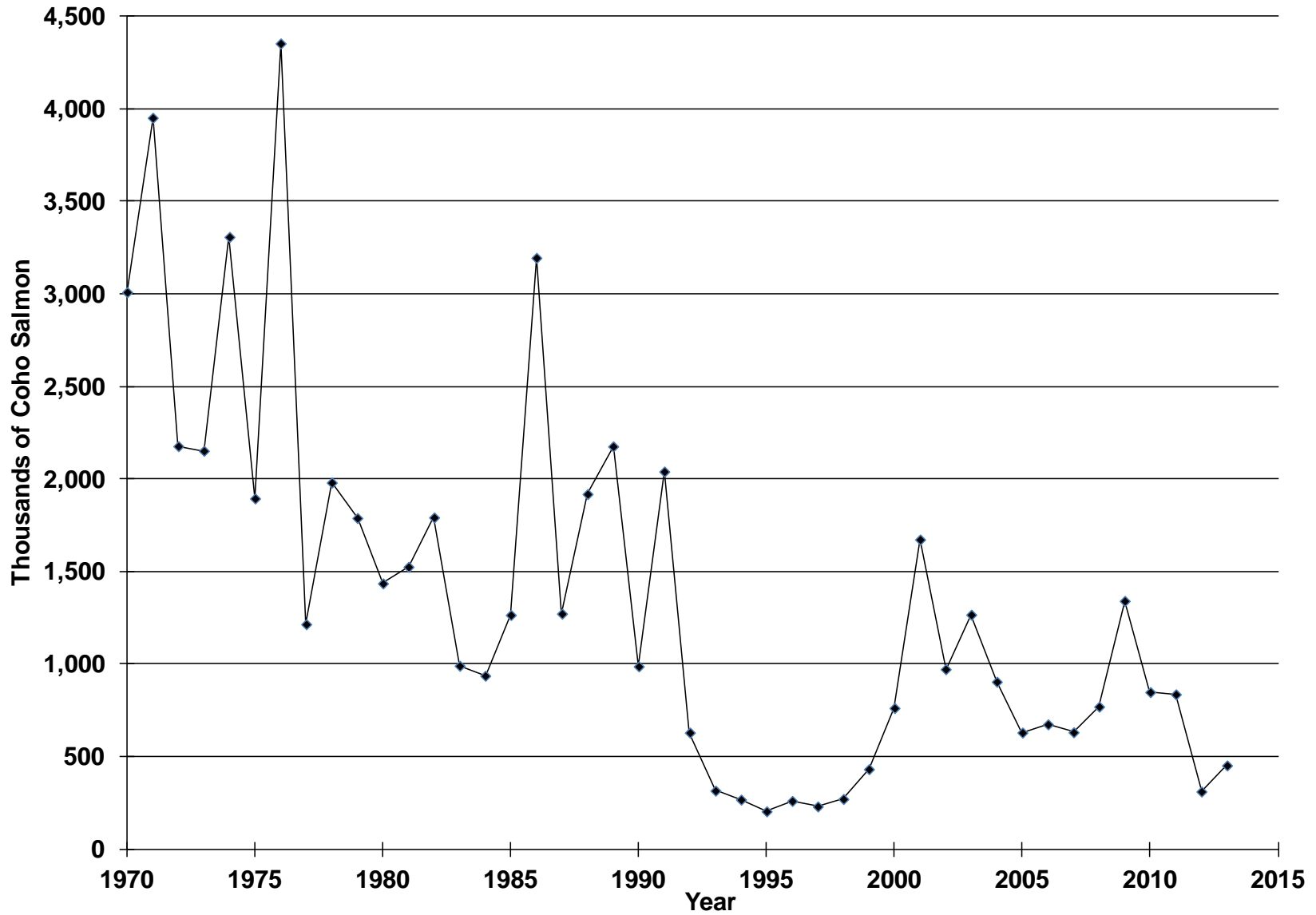


Figure III-1. Oregon Production Index (OPI) area coho abundance estimates by stratified random surveys (SRS) accounting methods, 1970-2013.

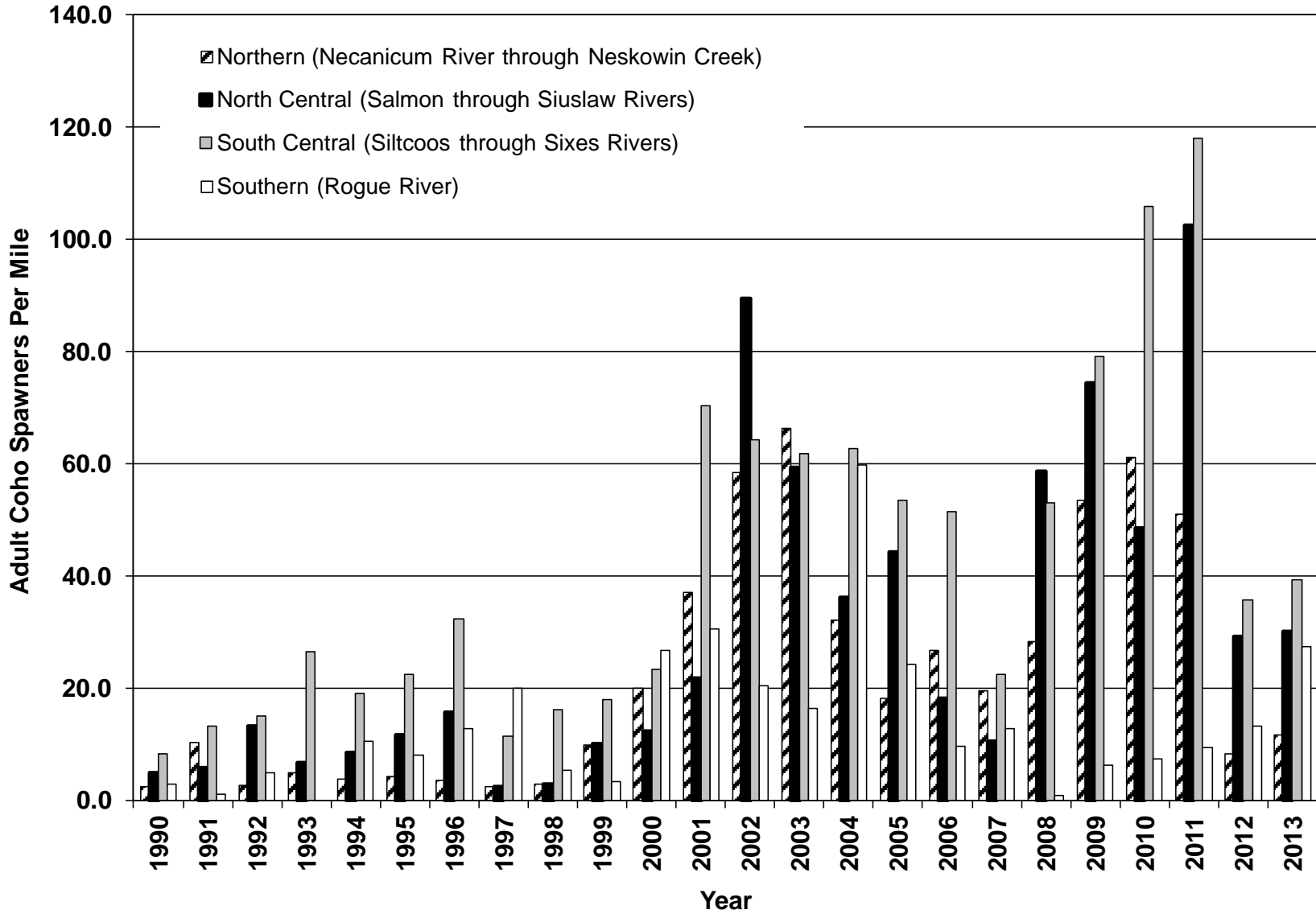


Figure III-2. Oregon coastal natural (OCN) adult coho spawners per habitat mile by coastal region based on SRS accounting methods, 1990-2013.

## CHAPTER IV

### *SOCIOECONOMIC ASSESSMENT OF THE 2013 OCEAN SALMON FISHERIES*

**SUMMARY:** Total 2013 exvessel value of the Council-managed non-Indian troll commercial salmon fishery was \$34.1 million, the highest total since an inflation-adjusted \$34.7 million in 2004, largely thanks to California's highest value commercial salmon fishery since 1988. The exvessel value of the coastwide commercial fishery in 2013 was more than triple the 2008-2012 inflation-adjusted average of \$8.1 million (which includes two zero years for California, 2008 and 2009), but still 40 percent below the 1979 through 1990 inflation-adjusted average of \$56.8 million. The coastwide average exvessel price for Chinook in 2013 was \$6.14 per pound, 12 percent above last year's inflation-adjusted average. At \$2.18 per pound, average 2013 West Coast coho prices were six percent higher than last year's inflation-adjusted average. The preliminary number of vessel-based ocean salmon recreational angler trips taken on the West Coast in 2013 was 307,100, an increase of 6 percent from last year, but 49 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 2013 were estimated at \$79.3 million, the highest level since an inflation-adjusted \$101.1 million in 2004. While total income impacts in 2013 were 40 percent above the prior year's inflation-adjusted level, they were still 56 percent below the 1979-1990 inflation-adjusted average. The four lowest total income impacts (adjusted for inflation) were recorded during 2008-2011.

#### **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 portion 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 level 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 commercial and recreational 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 that is encountered at a higher rate there than in other areas. The geographic distribution of harvest opportunity along the coast involves balancing the often conflicting objectives of maximizing ocean harvest and distributing the responsibility for resource conservation. A brief outline of the regulatory objectives which shaped the 2013 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**

Coastwide average exvessel prices for troll caught Chinook and coho in 2013 were \$6.14 and \$2.18 per pound, respectively. Monthly average exvessel price data provide information on price trends over the season (Table IV-1). California Chinook prices were at their highest in May and October, averaging \$7.89 and \$7.21 per pound, respectively. Oregon Chinook prices were highest in April and May, averaging \$8.07 and \$7.89 per pound, respectively. In Washington, average Chinook prices were highest in May at \$7.65 per pound (There were no Washington landings in April). California and Washington average Chinook exvessel prices were at their lowest in July, while Oregon average Chinook prices were lowest in September, slightly lower than in July. For the season, exvessel Chinook prices in Washington, Oregon and California averaged \$6.16, \$5.88 and \$6.23 per pound, respectively. Coho prices in Washington and Oregon averaged \$2.17 and \$2.56 per pound, respectively.

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

Average Chinook and coho troll exvessel price and value by state and species, compiled from fish receiving tickets and expressed both in nominal terms and inflation-adjusted 2013 dollars, are presented in Tables IV-2, IV-3, and IV-4. Data on pink salmon are shown in Table IV-5. The gross domestic product implicit price deflator, developed by the Bureau of Economic Analysis, was used to adjust nominal dollar values for inflation (Appendix D, Table D-22). Landings weights by state 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 2013 coastwide exvessel value of the Council-managed non-Indian commercial troll salmon fishery was \$34.1 million, 67 percent higher than the prior year (\$20.4 million), and more than three-and-a-half times the 2011 level of \$9.5 million (adjusted for inflation). Coastwide exvessel value was more than 26 times its all-time low level of \$1.3 million recorded in 2008 (including pinks, adjusted for inflation).

In 2013 California achieved \$23.6 million in commercial troll exvessel landings value of Chinook, 72 percent above the prior year's level (\$13.7 million), and nearly four-and-a-half times the 2011 California commercial ocean salmon harvest value of \$5.3 million (adjusted for inflation). 2013 saw California's highest inflation-adjusted landings value since 1988 (\$66.7 million), although landings revenues in 2013 were still 21 percent below the 1979-1990 inflation-adjusted average of \$29.9 million.

The 2013 exvessel value of the Oregon commercial troll Chinook and coho harvest of \$7.6 million was the highest level since 2005 (\$9.8 million), 75 percent higher than in 2012 (\$4.3 million), and three-and-a-half times the 2008-2012 average of \$2.1 million (inflation-adjusted). Still Oregon's 2013 commercial troll harvest value was 58 percent below the 1979-1990 average of \$18 million, and 16 percent below the 1979-2012 average of \$9 million (inflation-adjusted).

The 2013 exvessel value of Washington's non-Indian troll Chinook and coho harvest of \$2.8 million was 19 percent above last year's inflation-adjusted value of \$2.4 million. Average exvessel value of Washington's commercial landings over the past four years (2010-2013) of \$2.6 million is higher in inflation-adjusted terms than any single year's total since 1988 (\$3.7 million). However the 2010-2013 average value is still 68 percent below the 1979-1990 inflation-adjusted average of \$8.1 million.

The 2013 average West Coast ocean harvest Chinook price of \$6.14 per pound is the third highest in inflation-adjusted terms since 1979, and reverses a mostly downward trend over the prior four years. Adjusted for inflation, the average Chinook price over the last eight years (2006-2013) was \$6.01 per pound (which includes the highest recorded inflation-adjusted average price of \$7.47 in 2008). The average Chinook price over those years is higher in inflation-adjusted terms than any single year except 1979 and 2008, when the average inflation-adjusted prices were \$6.44 and \$7.47 per pound, respectively. Part of the reason exvessel prices may have been high in recent years may be due to the relatively restricted fishing opportunities (see Chapter I and Appendix C for details). The 2013 coastwide average Chinook price was 12 percent above last year's value (\$5.50), one percent above the previous five-year (2008-2012) average of \$6.08 per pound, and 54 percent above the 1979-2012 average of \$3.99 per pound (inflation-adjusted). At \$2.18 per pound, 2013 average West Coast coho prices were six percent higher than last year and one percent higher than two years ago, but four percent below the previous five year average (2008-2012) of \$2.28, and 25 percent below the 1979-1990 average of \$2.91 (inflation-adjusted).

In terms of numbers of fish, the 2013 coastwide, non-Indian commercial troll Chinook harvest of 450,100 fish was 38 percent above last year and nearly three-and-a-half times 2011 (Figure IV-1). The number of Chinook harvested commercially in 2013 was the highest level since 2005, but still 28 percent below that number (627,200), and 31 percent below the 1976-2012 long-term average of 649,400 fish. The 2013 coastwide average weight per Chinook (12.3 pounds) was eight percent above last year's average (11.4 pounds), eight percent below the 2011 average weight, and approximately equal to the previous five year (2008-2012) average (Appendix D Tables D-1, D-2, and D-3).

The non-Indian commercial fishery caught 6,500 coho coastwide in 2013, an increase of 66 percent over the prior year (3,900), and 84 percent above the 2011 catch (3,500), but 85 percent below the 2009 recent year peak coho harvest level of 42,000 fish. The coastwide average weight per coho (5.2 pounds), although only six percent and seven percent below the prior two years' average weights, respectively, was the lowest average weight recorded in a coho harvest year since the mid 1990s. The 2013 average weight was about 38 percent below the highest average coho weights recorded since 1980, i.e., 8.5 pounds in 2006 and 8.4 pounds in 2008. Coastwide coho exvessel value was \$73,700 in 2013, 67 percent above the inflation-adjusted value for the prior year (\$44,200), but 87 percent below the inflation-adjusted \$578,300 recorded in 2009 (Figure IV-4).

West Coast port areas with the highest commercial Chinook landings (by weight) in 2013 were San Francisco (32 percent), Fort Bragg (26 percent), Coos Bay (14 percent) and Monterey (7 percent). In 2012 the leading ports were San Francisco (32 percent), Monterey (18 percent), Fort Bragg (17 percent), Newport (7 percent) and Coos Bay (6 percent). In 2013, the ports north of Cape Falcon accounted for only about 9 percent of coastwide Chinook harvest by weight, their lowest share since 2005 (8 percent). In comparison, ports north of Cape Falcon accounted for 14 percent of landings in 2012, 21 percent in 2011, 51 percent in 2010, 95 percent in 2009 and 84 percent in 2008. Between 2000 and 2007, ports north of Cape Falcon accounted for an average of about nine percent of coastwide Chinook landings by weight.

Compared with last year, commercial Chinook harvest by weight in 2013 was up 50 percent in California, 74 percent in Oregon, and less than four percent in Washington. Compared with last year, the 2013 commercial Coho harvest by weight was down 47 percent in Oregon but up 77 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 1,099 vessels participated in the West Coast commercial salmon fishery in 2013. This is eight percent more than participated in

2012 (1,021), 31 percent greater than the number participating in 2011 (842), and 66 percent greater than the number that participated in 2010 (664). The number of vessels making landings in 2013 was the highest vessel participation total since 1,222 vessels participated in 2005. Note that these coastwide vessel counts are less than totals derived by summing values in the state-level tables (Tables D-4, D-5, and D-6) because a given vessel may be counted in more than one state and also due to variation in the degree of completeness at the time data were extracted for this report.

In 2013, 670 commercial vessels made salmon landings in California compared with 616 vessels in 2012, 464 vessels in 2011, and 215 vessels in 2010. Zero vessels landed salmon in California in 2008 and 2009. In 2007, there were 601 vessels active in California (Table D-4). In Oregon, the active fleet increased by 30 vessels in 2013, to 399 vessels compared to 369 vessels the prior year (Table D-5). The number of active vessels in Washington increased by three from 105 vessels last year to 108 vessels in 2013 (Table D-6). Coastwide, the number of limited entry salmon permits issued in 2013 decreased by 49 from the previous year to 2,270. Landings were made on 52 percent of all permits in 2013, up from 47 percent in 2012, 37 percent in 2011 and 29 percent in 2010. Note: Years 2008 and 2009 are the two lowest vessel participation years on record (1982-2013). From 1982 to 1993 an average of 5,193 of 7,942 total permits (65 percent) harvested on an annual basis. Harvest opportunity began declining substantially after that time, and some permits were subsequently purchased in a buyback program.

In 2013, coastwide average inflation-adjusted exvessel value of salmon landings per vessel increased 54 percent compared to 2012, to \$29,000 per vessel. Compared to last year, average exvessel revenue per vessel in 2013 was up 58 percent in California, 62 percent in Oregon, and 15 percent in Washington. Note that 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 participants in each state's fisheries is included 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 related to harvesting, processing, and marketing of the catch. In 2013 the treaty Indian ocean troll fishery harvested 52,500 Chinook (497,900 pounds) and 47,700 coho (241,000 pounds), compared with 56,400 Chinook (529,700 pounds) and 37,500 coho (198,600 pounds) in 2012, 34,700 Chinook (382,200 pounds) and 13,600 coho (77,600 pounds) in 2011, and 34,300 Chinook (298,800 pounds) and 11,500 coho (80,300 pounds) in 2010 (Tables A-15 and D-3). The preliminary exvessel value of Chinook and coho landed in the treaty Indian ocean troll fishery was \$6.4 million in 2013 compared with inflation-adjusted values of \$2.4 million in 2012, \$1.8 million in 2011, \$1.4 million in 2010, and \$1.1 million in 2009 (revenue values based on January 27, 2014 PacFIN data).

### *Columbia River Commercial Fishery*

Harvest in the ocean salmon fisheries impacts the inriver fisheries by affecting the number of fish available for harvest in inside treaty Indian and non-Indian fisheries. Table IV-9 shows the exvessel value of treaty Indian and non-Indian commercial harvest of Chinook, coho and chum salmon in the Columbia River. All prices and values in the table and the following discussion are reported in inflation-



adjusted dollars. Exvessel prices for inriver commercial salmon catch varies considerably with species (Chinook, coho or chum), race (e.g., spring versus fall Chinook), and stock (e.g., tules versus brights). Spring Chinook generally bring the highest prices, and tule fall Chinook and chum the lowest prices.

Total exvessel value of combined treaty Indian and non-Indian commercial salmon harvested in the Columbia River in 2013 was \$11.8 million. This was 80 percent above the 2012 level of \$6.5 million, and nine percent above the inflation-adjusted 2011 level of \$10.8 million. Of these amounts, the total inflation-adjusted exvessel value of non-Indian commercial salmon harvested in the Columbia River was \$5.4 million in 2013, \$3.4 million in 2012, \$5 million in 2011, and \$5.4 million recorded in 2010 (Table IV-9).

Total 2013 exvessel value of treaty Indian salmon harvested in the Columbia River and sold on fish tickets was \$6.4 million. This is more than double the inflation-adjusted level of \$3.1 million in 2012, nine percent above the \$5.8 million landed in 2011, and 24 percent above the inflation-adjusted 2010 value of \$5.2 million. Note that these values include only sales made to licensed fish buyers. Treaty Indian fisher direct 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 2013 Puget Sound and Washington coastal inside fisheries is preliminary. Based on PacFIN data (as of January 27, 2014), the exvessel value of all salmon species taken in the commercial non-Indian fisheries in Puget Sound and Washington coastal inside fisheries (excluding the Columbia River) in 2013 was \$34.0 million. This was the highest value in inflation-adjusted terms since \$35 million in 1989. Of the total landings in 2013, \$4.2 million were Chinook and coho (compared with \$6.3 million in 1989). By way of comparison, in 2012 the total inflation-adjusted exvessel value of the commercial non-Indian salmon fisheries in these areas was \$6.1 million, of which \$1.6 million were Chinook and coho. In 2011 the total inflation-adjusted exvessel value in these areas was \$12.6 million, of which \$2.1 million were Chinook and coho. In 2010 the total was \$11.4 million for all salmon species, of which \$1.2 million were Chinook and coho. The 1981 through 2012 inflation-adjusted average annual exvessel value from these fisheries was \$16.1 million, of which on average approximately \$4.0 million were Chinook and coho.

The preliminary 2013 exvessel value reported to PacFIN (as of January 27, 2014) for all salmon species taken in the commercial treaty Indian fisheries in Puget Sound and Washington coastal inside fisheries (excluding the Columbia River) was \$22.0 million, of which \$11.4 million were Chinook and coho. In previous years, substantial additional landing reports have come in after publication of this review. The updated value for 2012 commercial treaty Indian harvest in Puget Sound and Washington coastal inside fisheries is \$13.3 million for all salmon species, of which \$8.3 million were Chinook and coho (inflation-adjusted). The exvessel value of the 2011 commercial treaty Indian harvest in Puget Sound and Washington coastal inside fisheries was \$20.8 million for all salmon species, of which \$7.8 million were Chinook and coho (inflation-adjusted). From 1981 through 2012 the inflation-adjusted average annual exvessel value of commercial treaty Indian fisheries in Puget Sound and Washington coastal inside areas is \$20.8 million, of which on average \$7.9 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 2007-2013. Average commercial catch of fall Chinook was about 22,900 fish over those years, most of which were taken in the estuary. Commercial sales also occurred in spring Chinook gillnet fisheries in 1989, 1996, 2000-2004, and 2007-2013, with an annual average of about 1,100 fish sold. The 1989 total harvest of 27,700 fall Chinook reportedly had an

average weight of 15.4 pounds per fish and sold for \$852,000 (\$1.3 million adjusted to 2013 dollars). In 1996, 3,129 spring Chinook and 40,147 fall Chinook were harvested, with an average weight per fish landed of 13.5 pounds and value at first sale of an estimated \$525,000 (\$673,000 adjusted to 2013 dollars). Records are not available for the weight and value of harvests for years 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. In 2013 approximately 51,400 commercial fall Chinook were harvested, which although the second highest total since 1987, was 36 percent below the 2012 harvest of 80,900 fish. The 2012 fall Chinook harvest was more than double the previously highest total of 40,147 taken in 1996. By comparison, only 15,600 fall Chinook were harvested in 2011, and 15,300 were harvested in 2010. The spring Chinook commercial harvest in 2013 was 971 fish, 13 percent higher than last year and the highest total since 2,300 were harvested in 2007. By comparison, only 33 spring Chinook were taken in 2011, and 259 were harvested 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 2013 was 307,100, an increase of six percent over 2012, and 45 percent above the 2011 level, but 49 percent below the 1979-1990 annual average of 599,700. Compared with 2012, preliminary estimates of the number of trips taken in 2013 decreased by three percent in California, but increased by 28 percent in Oregon and by three percent in Washington. (Note that Washington effort estimates shown in Tables IV-10 and IV-13 may differ from those in Tables I-4 and (Appendix A) Table A-17 because the former exclude bank fishers on the Columbia River north jetty.)

Recreational ocean area 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. The coastwide proportion of angler trips taken on charter vessels in 2013 (27 percent) fell six percent from 29 percent of trips in 2012, but was virtually the same proportion as in 2011. Underlying this coastwide trend were a slight increase over last year in the proportion of charter trips in California, a decrease of 12 percent in Oregon, and decrease of two percent in Washington. Figure IV-5 and Tables IV-10, IV-11, IV-12, and IV-13 display details of recreational effort and catch by port area and mode for each state.

### **California**

The number of ocean recreational salmon trips in California in 2013 (143,800) reversed an upward trend that had continued since 2008. The 2013 total was three percent below 2012 (148,000), but still higher than in any other year since 2005 (172,100). The number of salmon trips in 2013 was 16 percent higher than in the prior year in Fort Bragg and 15 percent higher in San Francisco, but lower than last year's total in Crescent City (-10 percent), Eureka (-3 percent), and Monterey (-31 percent). A total of 113,300 Chinook were caught in California on a total of 143,800 trips, for an average success rate of 0.79 fish per trip. The charter industry's share of California recreational salmon trips in 2013 was about 36 percent, which was slightly above last year's share, and the highest proportion since 2005 (Table IV-10, Table IV-11 and Figure IV-5).

## Oregon

Ocean recreational salmon trips in Oregon in 2013 were up 28 percent to 86,300 trips compared with an estimated 67,300 angler trips in 2012 (Tables IV-10 and IV-12). Total trips in 2013 were also 77 percent higher than 2011, and 52 percent above the most recent five year average (2008-2012). Compared with last year, effort was higher in ports both north and south of Cape Falcon: up 27 percent in Astoria, 20 percent in Tillamook, four percent in Newport, 81 percent in Coos Bay, and seven percent in Brookings. The charter industry's share of Oregon recreational salmon trips in 2013 was about nine percent, which is 12 percent lower than last year, and about 18 percent below the recent five year (2008-2012) average share (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. From 2002 through 2011, retention rates ranged between 0.44 and 1.08 salmon per angler-day. The 2013 Oregon salmon retention rate of 0.52 was toward the lower end of this range and virtually the same as last year's value. The 2013 value was also the highest since a retention rate of 1.08 was recorded in 2009, and it continues a rising trend exhibited since a recent low of 0.44 in 2010. In 2013, coho's contribution to the total Oregon recreational ocean salmon catch was only 32 percent, the second lowest share recorded since at least 1979, and the lowest since 1994.

## Washington

In 2013, 77,000 ocean angler trips were taken on vessels on the Washington coast, an increase of three percent from the 75,000 trips taken in 2012, and six percent above the recent five year (2008-2012) average of 72,500. About 32 percent of Washington angler trips were taken on charter vessels in 2013, down two percent from 2012, and three percent below the recent five year average share of 33 percent (Table IV-10, Table IV-13 and Figure IV-5).

The angler success rate in Washington (in terms of retained fish per angler-trip) was 0.97 in 2013, up 12 percent from 0.86 in 2012, but six percent below the recent five year (2008-2012) average success rate of 1.03. Note that these figures do not include angler effort that occurs from the ocean side of the Columbia River jetty, or in the state managed Area 4B add-on fishery (if open).

In order to increase angler participation in non-salmon recreational fishing (e.g., bottomfish) 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. Until relatively recently, the Neah Bay and La Push areas were generally open seven days per week. In 2013 the main-season recreational salmon fishery in the Columbia River area (south of Leadbetter Point and north of Cape Falcon) was open seven days per week. Most open areas north of Leadbetter Point were also open seven days per week throughout the season, with the exception of Queets River to Leadbetter Point, which was open Sunday through Thursday during June 23–July 18 but seven days per week thereafter. In 2013 there were 45,500 bottomfish trips north of Cape Falcon, a two percent increase from 44,500 trips in 2012 and continuing an upward trend exhibited since the 2009 low point of 37.2 (Table IV-14). Compared with 2012, the Columbia River and Neah Bay areas both showed increases in total bottomfish effort, while Westport and La Push were both slightly lower.

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

In 2013 salmon anglers fishing from private and charter boats from Oregon and Washington made a total of 64,000 trips in the Buoy 10 fishery. This effort level is slightly above the 63,700 trips in 2012 and 34

percent above the 47,700 trips in 2011. Angler success/retention rates in the Buoy 10 fishery increased to 0.47 salmon per day in 2013 from 0.41 in 2012, 0.38 in 2011 and 0.29 in 2010 (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, when there were an estimated 782 private trips and no charter trips. There was no Area 4B add-on fishery in 2013.

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 based on commercial landings and recreational fishing days (angler-trip), and were estimated using the Fishery Economic Assessment Model (FEAM). The income impact estimation process is discussed and results presented below. More detailed information on these procedures 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 along with trip-related expenditures made by recreational salmon anglers, expressed at the local community (county) and state levels. Income impacts are estimated based on several components: reported commercial landings and exvessel prices by port or area, an inventory of local harvesters and processors, estimates of harvester and processor expenditures, surveys of the expenditure patterns of recreational anglers, and local and state-level total income impact coefficients generated by IMPLAN<sup>®</sup> models constructed for each port or area. Under this modeling framework, most of the benefit of higher than average commercial fishery exvessel prices is assumed to go to the harvesters. Commercial ocean harvests that are landed outside of coastal areas (e.g., landings of troll caught salmon in Puget Sound ports) are not included in these estimates of coastal community impacts, but are included in the overall state-level impacts.

The income impacts presented below are estimates of annual trends and are intended to indicate the possible redirection of economic 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 reported in this review are in terms of inflation-adjusted 2013 dollars.

### *West Coast Ocean Fishery Commercial and Recreational Income Impacts*

Total state level income impacts associated with recreational and commercial ocean salmon fisheries for all three states combined in 2013 were \$79.3 million, the highest level since \$101.1 million in 2004 (in inflation-adjusted terms). The 2013 total was 40 percent above the inflation-adjusted 2012 level of \$56.6 million, but still less than half (44 percent) of the inflation-adjusted average for 1979-1990 of \$179.7 million (Note: The 1979-1990 period includes the ten largest values in the data series). (Tables IV-16, IV-17 and IV-18). West Coast income impacts associated with the 2013 non-Indian commercial ocean fishery were \$54.5 million, 68 percent higher than the estimate for 2012 (\$32.5 million), and more than

quadruple the recent five year (2008-2012) average of \$12.8 million in inflation-adjusted terms<sup>1/</sup>. Income impacts generated by the three states' 2013 ocean recreational fisheries were estimated at \$24.9 million, three percent above last year's level of \$24.1 million, and 59 percent above the 2008-2012 inflation-adjusted average of \$15.6 million. Note that these coastwide values may mask effects in individual communities. Tables IV-16, IV-17 and IV-18 provide greater detail on the estimated impacts in individual port areas in the three West Coast states.

### *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 \$32.0 million was generated annually from these fisheries during 1986-1990. In 2013, income impacts associated with the Columbia River commercial catch (combined non-Indian and treaty Indian) were estimated at \$22.7 million. This value is 82 percent above last year's level of \$12.5 million, and also 37 percent above the 2008-2012 inflation-adjusted average of \$16.6 million, over which time total inflation-adjusted income impacts of these fisheries ranged from a low of \$12.5 million in 2012 to a high of \$20.8 million in 2011 (Table IV-19).

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

Estimated local community income impacts associated with the 2013 Buoy 10 recreational salmon fishery were \$2.6 million, slightly below the estimate for last year's fishery, and 32 percent higher than the estimated value of \$2 million for 2011. The estimate for 2013 was also 20 percent higher than the inflation-adjusted average of \$2.2 million during 2008-2012 (Table IV-20). There was no late-season Area 4B add-on fishery in 2013. The most recent Area 4B add-on fishery occurred in 2008, the first since 2000. Inflation-adjusted local community income impacts associated with the 2008 area 4B add-on fishery were an estimated \$31,700. In the five out of six years between 1995 and 2000 when the Area 4B add-on fishery occurred, an annual average 3,500 angler trips generated estimated (inflation-adjusted) annual state-level income impacts averaging \$171,600 in years the fishery occurred (Table IV-20).

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

TABLE IV-1. Average monthly exvessel troll salmon price in dollars per dressed pound for California, Oregon, and Washington in 2013.

Species/Grade	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season
<b>CALIFORNIA</b>											
Chinook <sup>a/</sup>	-	-	7.89	5.88	5.40	6.00	6.52	7.21	-	-	6.23
Coho	-	-	-	-	-	-	-	-	-	-	-
<b>OREGON</b>											
Chinook											
Large (>11 Pounds)	-	8.16	7.88	5.92	5.29	5.68	5.65	6.03	6.98	-	5.93
Medium (7-11 Pounds)	-	8.04	7.69	6.00	5.15	5.24	5.01	5.31	6.48	-	5.54
Small (<7 Pounds)	-	8.02	7.88	6.97	6.00	5.45	5.59	5.74	6.76	-	6.74
Ungraded Chinook	-	8.05	8.17	6.75	5.65	5.67	5.64	5.88	6.88	-	6.21
Weighted Average	-	8.07	7.89	6.18	5.37	5.56	5.33	5.79	6.88	-	5.88
Mixed Coho	-	-	-	-	2.71	2.49	2.62	2.53	-	-	2.56
<b>WASHINGTON<sup>b/</sup></b>											
Chinook											
Large (>11 Pounds)	-	-	7.88	6.44	5.46	5.66	5.70	-	-	-	6.31
Medium (8-11 Pounds)	-	-	7.58	6.11	5.21	5.49	5.57	-	-	-	6.10
Small (<8 Pounds)	-	-	4.82	4.85	4.26	3.53	3.50	-	-	-	4.60
Ungraded Chinook	-	-	-	-	-	-	-	-	-	-	-
Weighted Average	-	-	7.65	6.25	5.43	5.64	5.64	-	-	-	6.16
Mixed Coho	-	-	-	-	1.72	2.31	2.82	-	-	-	2.15

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, 2013) 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	42,246	2.53	6.16	2,303	5,606	2.19	5.33	19,659	47,851
1980	12,741	28,421	2.27	5.06	408	910	1.36	3.03	13,149	29,331
1981-1985	10,945	20,661	2.42	4.51	554	1,057	1.94	3.96	11,499	21,718
1986-1990	21,151	33,796	2.56	4.05	490	770	1.36	2.61	21,641	34,567
1991-1995	7,335	9,955	2.28	3.12	143	203	1.25	2.31	7,478	10,158
1996	5,984	7,671	1.44	1.85	-	-	-	-	5,984	7,671
1997	7,288	9,181	1.38	1.74	-	-	-	-	7,288	9,181
1998	3,060	3,812	1.66	2.07	-	-	-	-	3,060	3,812
1999	7,429	9,120	1.93	2.37	-	-	-	-	7,429	9,120
2000	10,304	12,381	2.01	2.42	-	-	-	-	10,304	12,381
2001	4,773	6,069	1.98	2.52	-	-	-	-	4,773	6,069
2002	7,776	9,738	1.55	1.94	-	-	-	-	7,776	9,738
2003	12,181	14,956	1.91	2.35	-	-	-	-	12,181	14,956
2004	17,895	21,385	2.87	3.43	-	-	-	-	17,895	21,385
2005	12,913	14,952	2.97	3.44	-	-	-	-	12,913	14,952
2006	5,350	6,010	5.13	5.76	-	-	-	-	5,350	6,010
2007	7,902	8,648	5.18	5.67	-	-	-	-	7,902	8,648
2008	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-
2010	1,246	1,311	5.47	5.76	-	-	-	-	1,246	1,311
2011	5,133	5,298	5.18	5.35	-	-	-	-	5,133	5,298
2012	13,521	13,716	5.34	5.42	-	-	-	-	13,521	13,716
2013 <sup>c/</sup>	23,614	23,614	6.23	6.23	-	-	-	-	23,614	23,614

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 percent to 10 percent.

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, 2013) 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	7,319	0.89	3.25	3,658	13,471	0.64	2.32	5,694	20,790
1976-1980	5,290	13,777	2.17	5.63	6,389	17,149	1.51	3.92	11,679	30,926
1981-1985	3,582	6,726	2.46	4.59	2,248	4,404	1.45	2.71	5,830	11,130
1986-1990	9,381	14,965	2.47	3.91	3,203	5,122	1.54	2.44	12,584	20,087
1991-1995	1,971	2,681	2.24	3.07	326	463	0.64	0.89	2,297	3,144
1996	3,007	3,855	1.56	2.00	-	-	-	-	3,007	3,855
1997	2,469	3,110	1.60	2.02	-	-	-	-	2,469	3,110
1998	2,297	2,862	1.64	2.04	-	-	-	-	2,297	2,862
1999	1,400	1,719	1.94	2.38	1	1	1.03	1.26	1,401	1,720
2000	2,988	3,590	2.02	2.43	75	90	1.06	1.27	3,063	3,680
2001	4,680	5,951	1.61	2.05	41	53	0.79	1.00	4,721	6,003
2002	5,383	6,741	1.54	1.93	8	10	0.75	0.94	5,391	6,751
2003	7,186	8,823	1.97	2.42	36	45	0.85	1.04	7,222	8,868
2004	9,832	11,750	3.45	4.12	86	103	1.24	1.48	9,919	11,854
2005	8,466	9,803	3.17	3.67	37	43	1.87	2.17	8,503	9,846
2006	2,663	2,991	5.48	6.16	38	43	2.90	3.26	2,701	3,034
2007	2,630	2,878	5.66	6.19	193	211	1.90	2.08	2,822	3,088
2008	484	519	7.31	7.85	10	11	2.82	3.03	494	530
2009	77	82	5.06	5.39	267	285	2.04	2.17	345	367
2010	2,775	2,921	5.49	5.78	16	16	2.23	2.35	2,791	2,937
2011	2,396	2,473	5.96	6.15	5	5	2.01	2.07	2,401	2,479
2012	4,263	4,325	5.75	5.83	8	9	2.20	2.23	4,271	4,333
2013 <sup>b/</sup>	7,598	7,598	5.88	5.88	7	7	2.56	2.56	7,604	7,604

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, 2013) 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	9,883	0.89	3.26	3,060	11,169	0.66	2.42	5,775	21,052
1976-1980	5,313	14,131	2.39	6.16	6,086	16,148	1.67	4.32	11,399	30,278
1981-1985	1,954	3,776	2.46	4.59	1,272	2,468	1.32	2.46	3,225	6,244
1986-1990 <sup>c/</sup>	1,310	2,085	2.61	4.15	360	564	1.62	2.57	1,670	2,649
1991-1995 <sup>d/</sup>	550	766	2.17	2.97	120	167	0.86	1.18	670	933
1996	d/	d/	d/	d/	59	75	0.86	1.10	d/	d/
1997	125	157	1.55	1.95	-	-	-	-	125	157
1998	123	153	1.51	1.88	-	-	-	-	123	153
1999	377	463	1.90	2.33	19	23	0.88	1.08	396	486
2000	224	270	1.71	2.05	34	41	1.09	1.31	258	311
2001	349	444	1.44	1.83	34	43	0.69	0.88	383	487
2002	756	947	1.11	1.39	2	2	1.58	1.98	758	949
2003	951	1,167	1.15	1.41	40	49	0.74	0.91	991	1,217
2004	1,079	1,290	2.14	2.56	106	126	1.16	1.39	1,185	1,416
2005	1,273	1,474	2.70	3.13	16	19	1.65	1.91	1,290	1,493
2006	1,029	1,155	4.64	5.21	16	18	1.69	1.90	1,045	1,174
2007	905	990	4.90	5.36	48	53	1.46	1.60	953	1,043
2008	673	723	6.73	7.22	36	38	2.49	2.67	709	761
2009	893	951	5.76	6.14	276	294	2.02	2.15	1,169	1,245
2010	3,083	3,245	5.61	5.90	32	34	2.14	2.25	3,115	3,279
2011	1,652	1,705	5.12	5.28	35	37	2.10	2.17	1,687	1,742
2012	2,323	2,356	5.34	5.42	35	36	1.99	2.02	2,358	2,392
2013	2,771	2,771	6.16	6.16	67	67	2.15	2.15	2,838	2,838

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, 2013) 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	455	0.75	1.94	1,200	3,082	0.54	1.41	1,367	3,537
1981-1985	129	246	0.74	1.38	287	554	0.41	0.77	416	800
1986-1990	41	67	0.77	1.22	57	88	0.66	1.05	98	155
1991-1995	1	2	0.88	1.19	38	53	0.64	0.87	39	55
1997	b/	b/	0.56	0.71	b/	b/	0.20	0.25	b/	b/
1999	b/	b/	0.67	0.82	b/	b/	0.38	0.47	b/	b/
2001	1	1	0.58	0.74	b/	b/	0.22	0.28	1	1
2003	b/	b/	0.85	1.04	b/	b/	0.30	0.37	b/	b/
2005	b/	b/	1.25	1.45	b/	b/	0.52	0.60	b/	b/
2007	b/	b/	1.11	1.21	b/	b/	0.33	0.36	b/	b/
2009	b/	b/	0.51	0.54	b/	b/	0.33	0.35	b/	b/
2011	b/	b/	1.31	1.35	1	1	0.83	0.86	1	1
2013 <sup>c/</sup>	b/	b/	1.35	1.35	b/	b/	0.61	0.61	b/	b/

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	8	53	622	215	94	992
2012	5	78	611	1,189	648	2,530
2013 <sup>c/</sup>	24	202	1,427	1,772	366	3,791
<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	-	-	-	-	-	-
2012	-	-	-	-	-	-
2013	-	-	-	-	-	-

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, and Mendocino; 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	30	14	68	231	59	402
2012	84	64	275	221	97	741
2013 <sup>c/</sup>	34	76	232	783	166	1,291
<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	2	1	-	-	-	3
2012	3	1	-	-	-	4
2013 <sup>c/</sup>	2	-	-	-	-	2

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 Community		State Total <sup>c/</sup>
					Total	Puget Sound	
<b>CHINOOK (thousands of dressed pounds)</b>							
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
2012	172	92	147	23	435	-	435
2013	85	83	275	7	450	e/	450
<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
2012	7	5	6	1	18	-	18
2013	5	8	18	1	31	e/	31

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. Landings, exvessel values and average prices (inflation adjusted, 2013 dollars) of inriver commercial harvest of Columbia River salmon.<sup>a/</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	4.11	1.40	0.38	1.22	0.53	4.27	1.33	0.34	0.93	-			
2004	4.45	1.64	0.26	1.08	0.30	2.21	1.35	0.12	0.71	-			
2005	3.95	1.88	0.30	1.24	0.36	-	1.20	0.20	1.08	-			
2006	5.26	2.40	0.31	1.47	0.29	3.37	1.72	0.29	1.40	-			
2007	5.90	3.10	0.05	1.77	0.82	4.10	2.86	0.03	1.17	-			
2008	6.63	2.68	0.61	1.41	0.70	4.98	2.75	0.48	1.25	0.97			
2009	4.80	2.19	0.58	1.29	0.55	3.63	1.49	0.38	0.98	-			
2010	5.19	2.23	0.63	1.46	0.71	4.44	2.13	0.66	1.99	-			
2011	5.24	2.35	0.60	1.70	0.79	3.68	2.44	0.73	1.58	-			
2012	5.90	2.24	0.55	1.63	0.50	5.60	2.60	0.75	1.88	-			
2013 <sup>g/</sup>	6.49	2.53	0.57	1.84	-	5.19	2.06	0.64	1.34	-			
Exvessel Value (thousands of dollars)													
1987-2003	498	1,673	99	1,079	2	3,350	6	685	18	6	714	4,065	
2004	1,227	670	59	812	f/	2,768	177	643	36	20	876	3,644	
2005	364	512	40	978	f/	1,894	-	241	13	1	255	2,148	
2006	690	716	20	704	f/	2,130	f/	355	3	16	374	2,505	
2007	837	386	1	337	f/	1,561	69	396	1	16	482	2,043	
2008	767	1,107	68	719	f/	2,662	346	1,006	62	54	f/	1,469	4,131
2009	465	957	96	1,091	f/	2,610	152	600	38	26	-	815	3,425
2010	1,986	948	162	819	1	3,916	622	482	93	34	-	1,230	5,146
2011	1,205	1,493	140	747	f/	3,585	189	617	32	31	-	869	4,454
2012	1,071	913	111	151	f/	2,247	75	355	5	12	-	446	2,693
2013 <sup>g/</sup>	919	2,133	108	491	-	3,651	90	1,029	23	6	-	1,148	4,799
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	230	635	234	439	f/	1,537	51	253	43	20	-	367	1,905
2012	181	407	204	92	f/	885	13	137	7	6	-	163	1,048
2013 <sup>g/</sup>	142	843	190	267	-	1,442	17	499	35	5	-	557	1,999

TABLE IV-9. Landings, exvessel values and average prices (inflation adjusted, 2013 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	
	Spring	Brights <sup>d/</sup>				Fall					
						Tules	Brights <sup>d/</sup>				
<b>Washington<sup>g/h/i/</sup></b>											
Average Price Per Landed Pound <sup>e/</sup> (dollars)											
1987-2003	5.05	1.30	1.22	0.46		3.61	0.91	0.86	-		
2004	4.70	1.54	1.12	0.30	-	1.88	0.65	0.26	-		
2005	4.15	1.61	1.19	0.93	-	1.96	0.59	0.35	-		
2006	4.12	2.17	1.49	-	-	2.64	1.57	0.63	0.56		
2007	7.34	2.79	1.38	1.06	-	4.87	1.49	0.88	0.98		
2008	7.20	2.74	1.35	1.04	-	4.78	1.46	0.86	0.97		
2009	5.63	1.90	1.20	0.63	-	3.21	0.99	0.61	-		
2010	5.26	2.05	1.38	0.63	-	3.97	1.20	0.93	-		
2011	4.63	1.97	1.56	0.60	-	3.62	1.88	1.48	3.23		
2012	6.36	2.07	1.65	0.44	-	4.82	1.75	1.28	-		
2013	6.13	2.14	1.83	-	-	4.57	1.89	1.17	-		
Exvessel Value (thousands of dollars)											
1987-2003	236	647	448	1	1,318	59	1,054	15	-	1,125	2,443
2004	325	521	416	f/	1,262	197	520	11	-	728	1,990
2005	255	379	227	f/	861	131	829	12	-	971	1,833
2006	359	472	309	-	1,140	476	1,423	28	f/	1,927	3,067
2007	139	252	274	f/	664	f/	1,357	57	f/	1,414	2,079
2008	337	546	297	f/	1,180	1,041	1,712	158	f/	2,911	4,091
2009	334	572	316	f/	1,223	657	872	27	-	1,555	2,778
2010	571	538	341	2	1,451	2,086	1,825	23	-	3,935	5,386
2011	364	770	246	1	1,380	1,720	2,999	240	1	4,959	6,339
2012	334	738	63	f/	1,135	935	1,729	36	-	2,700	3,836
2013	195	1,352	218	-	1,764	874	4,250	109	-	5,233	6,997
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
2012	53	355	38	f/	446	194	980	28	-	1,202	1,648
2013	32	630	119	-	781	191	2,244	93	-	2,528	3,309

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	29.5	62.2	18.7	31.1	b/	0.3
2012	52.7	95.3	44.2	79.7	b/	0.1
2013 <sup>c/</sup>	51.4	92.3	46.4	66.9	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	5.9	42.8	0.6	4.6	3.5	15.3
2012	6.6	60.7	1.5	17.3	3.0	13.1
2013 <sup>c/</sup>	7.4	78.9	1.8	28.6	3.5	11.1



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	22.2	49.2	9.8	19.3	15.1	24.4
2012	24.5	50.5	11.8	21.8	11.8	19.3
2013 <sup>c/</sup>	24.7	52.3	9.2	19.6	17.9	27.9

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	0.0	1.5	4.4	17.5	6.0	29.5
2012	0.2	3.6	4.2	33.7	11.0	52.7
2013 <sup>b/</sup>	a/	4.1	5.4	37.1	4.8	51.4
<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	0.8	12.7	9.9	16.9	21.9	62.2
2012	7.7	20.0	10.6	23.8	33.3	95.3
2013 <sup>b/</sup>	7.0	18.7	11.7	29.2	25.7	92.3
<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	0.8	14.2	14.4	34.4	28.0	91.7
2012	7.8	23.6	14.8	57.5	44.3	148.0
2013 <sup>b/</sup>	7.0	22.8	17.2	66.3	30.5	143.8

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	1.6	0.5	3.6	0.1	0.1	5.9
2012	1.7	0.4	3.7	0.5	0.2	6.6
2013 <sup>b/</sup>	1.7	0.6	4.2	0.3	0.6	7.4
<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	5.8	12.3	8.3	10.2	6.2	42.8
2012	3.1	12.0	11.1	16.0	18.6	60.7
2013 <sup>b/</sup>	4.5	14.3	11.1	29.5	19.5	78.9
<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	7.4	12.8	12.0	10.3	6.3	48.8
2012	4.8	12.4	14.8	16.5	18.8	67.3
2013 <sup>b/</sup>	6.2	14.9	15.3	29.8	20.1	86.3

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	0.5	0.7	14.1	6.9	22.2
2012	0.8	0.7	16.2	6.9	24.5
2013 <sup>d/</sup>	0.9	0.7	15.9	7.1	24.7
<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	10.6	3.6	19.4	15.7	49.2
2012	12.7	3.3	21.1	13.4	50.5
2013 <sup>d/</sup>	14.4	3.6	20.0	14.4	52.3
<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	11.1	4.2	33.5	22.5	71.4
2012	13.4	3.9	37.3	20.3	75.0
2013 <sup>d/</sup>	15.4	4.3	35.9	21.5	77.0

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	10.5	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
2012	9.5	79.3	88.8	2.7	91.5	16.2	21.1	37.3	0.7	3.3	3.9	0.8	12.7	13.4
2013 <sup>b/</sup>	10.2	82.3	92.5	4.8	97.2	15.9	20.0	35.9	0.7	3.6	4.3	0.9	14.4	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 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	3.6	1.8	4.5	0.9	5.4	13.9	2.4	16.3	0.5	4.8	5.3	1.2	14.2	15.4
2012	3.2	2.0	5.2	0.6	5.8	15.5	2.5	18.0	0.4	5.9	6.3	0.9	13.5	14.4
2013 <sup>b/</sup>	3.3	2.2	5.6	0.4	6.0	14.5	2.9	17.3	0.4	5.2	5.6	0.7	15.9	16.6

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	3.6	21.7	25.3	-	25.3	-	-	-	-	-	-	-	-	-
2012	2.4	16.5	18.9	-	18.9	-	-	-	-	-	-	-	-	-
2013 <sup>b/</sup>	1.5	14.8	16.3	-	16.3	-	-	-	-	-	-	-	-	-

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	70	30,074	1,705	3	7,150	34	6	5,029	315	0	0
2012	468	39,753	1,368	52	12,934	22	42	4,909	104	0	0
2013 <sup>c/</sup>	459	40,648	1,754	81	15,448	41	50	4,638	148	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	372	17,188	-	43	3,689	-	70	2,194	-	0	0
2012	447	23,034	-	51	5,491	-	82	2,248	-	0	0
2013 <sup>c/</sup>	93	22,813	-	6	7,018	-	27	2,757	-	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	442	47,262	1,705	46	10,839	34	76	7,223	315	0	0
2012	915	62,787	1,368	103	18,425	22	124	7,157	104	0	0
2013 <sup>c/</sup>	552	63,461	1,754	87	22,466	41	77	7,395	148	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

a/ From 2000, catch downstream of boundary line from Tongue Pt., OR to Rocky Pt., WA. Prior to 2000 only catch downstream of Astoria-Megler Br.

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 has been no Area 4B add-on fishery in these years or planned after 2009.

TABLE IV-16. Estimates of California coastal community and state personal income impacts in thousands of real (inflation adjusted, 2013) 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	6,383	16,213	15,898	20,855	8,952	68,301	87,809
1981-1985	3,233	3,900	9,128	17,231	5,871	39,363	49,008
1986-1990	1,216	3,010	16,010	31,086	11,626	62,947	77,253
1991-1995	10	143	1,006	11,699	6,665	19,523	23,526
1996-2000	11	170	711	12,247	7,426	20,564	21,758
2001	15	313	1,033	10,857	2,297	14,514	15,065
2002	273	524	3,730	15,516	4,179	24,222	25,731
2003	221	38	15,160	15,795	2,491	33,705	37,486
2004	1,944	429	7,434	23,356	5,257	38,420	39,228
2005	145	437	5,420	13,496	7,083	26,582	27,247
2006	-	-	2,471	6,389	985	9,845	10,151
2007	332	824	3,407	8,131	1,658	14,352	14,607
2008	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-
2010 <sup>e/</sup>	-	35	1,780	140	161	2,116	2,198
2011	68	437	4,952	2,225	979	8,662	8,946
2012	39	686	4,706	10,653	5,759	21,843	22,395
2013 <sup>d/</sup>	223	1,923	12,909	19,181	4,010	38,247	39,121
<b>RECREATIONAL</b>							
1976-1980	1,238	1,436	836	12,566	842	16,918	18,977
1981-1985	1,356	1,398	670	11,129	889	15,442	17,381
1986-1990	2,298	2,395	1,168	13,601	3,655	23,116	26,940
1991-1995	833	897	1,355	11,504	5,509	20,100	23,599
1996-2000	386	711	1,384	11,534	5,066	19,081	22,198
2001	358	778	2,101	7,683	3,079	13,998	14,912
2002	160	866	2,221	9,646	4,752	17,645	18,740
2003	91	652	1,677	6,990	2,288	11,698	12,392
2004	137	1,092	2,175	11,310	4,439	19,153	20,261
2005	103	691	1,759	8,554	3,234	14,342	15,164
2006	61	682	1,450	5,812	1,947	9,952	10,563
2007	86	891	1,170	4,119	1,427	7,692	8,230
2008	-	-	26	-	-	26	31
2009	46	230	-	-	-	276	322
2010	9	192	421	1,712	1,140	3,473	3,704
2011	32	712	972	3,367	1,778	6,861	7,353
2012	336	1,278	970	6,069	2,947	11,600	12,376
2013 <sup>d/</sup>	294	1,287	1,172	6,818	1,778	11,349	12,049

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, 2013) 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	4,098	5,275	12,373	19,041	7,916	48,703	66,033
1981-1985	1,327	1,708	4,005	7,063	3,066	17,169	23,333
1986-1990	613	3,573	7,952	15,328	2,905	30,371	41,017
1991-1995	86	666	2,729	1,326	135	4,942	6,663
1996-2000	142	279	2,888	1,668	402	5,379	6,555
2001	385	786	5,886	3,093	635	10,785	13,128
2002	1,102	934	5,040	4,456	806	12,337	14,942
2003	1,079	978	6,525	5,932	699	15,214	18,408
2004	911	728	6,446	7,014	1,502	16,600	17,940
2005	754	1,256	5,370	5,319	1,259	13,958	15,083
2006	987	614	1,613	435	378	4,027	4,320
2007	291	413	672	1,959	780	4,115	4,417
2008	415	203	-	-	72	690	727
2009	170	159	140	19	42	530	566
2010	945	274	1,372	931	367	3,890	4,184
2011	235	99	546	1,872	504	3,257	3,499
2012	682	479	2,049	1,796	698	5,703	6,140
2013 <sup>d/</sup>	287	586	1,882	5,974	1,252	9,981	10,739
<b>RECREATIONAL</b>							
1979	3,435	1,097	5,223	5,289	2,546	17,590	22,678
1980	4,147	1,822	5,767	5,543	2,474	19,753	25,441
1981-1985	2,025	1,633	3,900	3,977	2,767	14,302	18,566
1986-1990	1,386	1,734	5,396	3,931	2,881	15,328	19,956
1991-1995	941	758	1,716	1,532	1,082	6,029	7,818
1996-2000	364	418	412	454	873	2,521	3,324
2001	1,415	762	1,799	1,508	1,052	6,537	8,012
2002	825	1,082	1,418	1,653	775	5,754	7,082
2003	1,204	1,251	2,837	2,066	608	7,966	9,799
2004	1,082	1,360	2,620	1,952	751	7,765	9,563
2005	785	561	890	1,213	501	3,951	4,842
2006	563	661	699	868	426	3,217	3,954
2007	791	897	1,357	1,086	437	4,567	5,614
2008	227	353	294	295	189	1,358	1,672
2009	797	967	1,957	584	241	4,545	5,596
2010	610	544	853	338	229	2,573	3,156
2011	476	532	825	411	241	2,486	3,057
2012	388	503	944	683	732	3,250	4,012
2013 <sup>d/</sup>	437	620	1,012	1,178	814	4,062	5,012

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, 2013) 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		State Total
					Total <sup>c/d/</sup>	Puget Sound	
<b>OCEAN TROLL<sup>e/f/</sup></b>							
1976-1980	5,918	8,080	16,018	5,736	35,752	7,963	57,035
1981-1985	1,163	471	4,389	1,050	7,073	1,699	11,118
1986-1990	643	169	2,016	438	3,268	984	5,353
1991-1995 <sup>g/</sup>	474	105	674	48	1,302	190	1,916
1996-2000	159	3	192	19	373	98	513
2001	316	0	656	44	1,016	0	1,099
2002	652	85	1,143	190	2,070	0	2,282
2003	1,184	200	977	143	2,504	45	2,903
2004	872	276	1,084	106	2,338	27	2,702
2005	715	427	1,100	136	2,378	1	2,687
2006	532	431	414	278	1,655	36	1,959
2007	235	239	976	121	1,571	21	1,747
2008	153	203	579	155	1,090	13	1,228
2009	312	321	1,121	78	1,831	36	2,088
2010	336	528	3,991	87	4,941	-	5,161
2011	767	303	1,433	85	2,588	-	2,871
2012	1,144	660	1,461	203	3,469	-	3,927
2013	705	656	2,799	68	4,227	0	4,607
<b>RECREATIONAL</b>							
1976-1980	2,180	1,082	21,686	10,615	35,562	-	48,075
1981-1985	1,319	135	8,532	4,385	14,371	-	19,448
1986-1990	1,012	116	4,842	2,610	8,580	-	11,620
1991-1995	537	105	2,988	1,516	5,147	-	6,960
1996-2000	285	77	1,399	685	2,446	-	3,298
2001	796	162	5,920	3,751	10,629	-	12,417
2002	677	173	5,453	2,985	9,289	-	10,853
2003	984	276	6,142	3,978	11,380	-	13,313
2004	1,154	245	5,010	3,284	9,692	-	11,364
2005	791	248	4,573	2,659	8,270	-	9,685
2006	519	218	3,376	2,067	6,180	-	7,234
2007	529	169	3,465	2,702	6,864	-	8,025
2008	229	101	2,279	962	3,572	-	4,174
2009	618	271	4,348	2,975	8,211	-	9,604
2010	445	222	4,353	2,082	7,103	-	8,300
2011	440	241	3,482	1,909	6,072	-	7,103
2012	558	230	3,956	1,836	6,580	-	7,702
2013	648	246	3,857	1,912	6,663	-	7,807

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, 2013) dollars of the inriver commercial salmon fishery on Oregon and Washington Columbia River communities.<sup>a/</sup>

Year or Avg.	Non-Indian - Gillnet <sup>b/</sup>						Treaty Indian - All Gears <sup>c/</sup>						Columbia River Total
	Chinook			Chinook			Chinook			Chinook			
	Spring	Brights <sup>d/</sup>	Tules Coho	Chum	TOTAL	Spring	Brights <sup>d/</sup>	Tules Coho	Chum	TOTAL			
<b>Oregon</b>													
1987-2003	967	2,518	255	1,879	3	5,622	13	1,061	75	11	e/	1,160	6,782
2004	2,249	1,492	318	1,810	1	5,869	375	1,532	368	57	-	2,332	8,201
2005	676	1,083	189	1,981	e/	3,929	-	571	87	1	-	660	4,589
2006	1,224	1,407	92	1,329	e/	4,052	1	762	15	31	-	809	4,862
2007	1,460	773	e/	588	e/	2,821	127	743	e/	32	-	902	3,722
2008	1,319	2,101	197	1,360	e/	4,978	615	1,900	206	108	-	2,829	7,807
2009	830	1,898	286	2,130	e/	5,144	282	1,327	146	57	-	1,812	6,956
2010	3,501	1,869	454	1,515	2	7,341	1,119	960	253	57	-	2,388	9,729
2011	2,117	2,892	400	1,299	e/	6,707	349	1,185	81	56	-	1,671	8,378
2012	1,854	1,780	331	265	e/	4,230	130	670	13	19	-	832	5,062
2013 <sup>f/</sup>	1,572	4,038	313	824	-	6,747	157	2,041	61	12	-	2,271	9,017
<b>Washington<sup>f/g/h/</sup></b>													
1987-2003	426	1,085		855	2	2,368	132	2,189		35	-	2,356	4,724
2004	590	1,185		927	e/	2,703	438	1,742		63	-	2,243	4,946
2005	470	840		458	e/	1,768	284	2,867		51	-	3,203	4,971
2006	660	951		581	-	2,193	951	3,147		82	e/	4,180	6,373
2007	235	477		478	e/	1,191	1	2,731		136	e/	2,868	4,059
2008	576	1,031		570	1	2,177	1,860	3,822		373	e/	6,055	8,232
2009	584	1,179		634	1	2,399	1,248	2,285		76	-	3,609	6,008
2010	1,005	1,082		645	4	2,735	3,816	4,335		53	-	8,203	10,939
2011	649	1,556		441	2	2,648	3,183	6,138		440	e/	9,761	12,409
2012	574	1,461		110	1	2,145	1,655	3,570		70	-	5,295	7,440
2013	335	2,651		366	-	3,351	1,555	8,598		215	-	10,367	13,719
<b>Columbia River</b>													
1987-2003	1,393	3,858		2,735	5	7,990	145	3,326		46	e/	3,516	11,506
2004	2,839	2,995		2,737	1	8,572	813	3,641		120	-	4,575	13,146
2005	1,147	2,112		2,439	e/	5,697	-	3,525		52	-	3,862	9,559
2006	1,884	2,450		1,911	-	6,245	952	3,925		113	-	4,990	11,234
2007	1,695	1,250		1,066	e/	4,012	128	3,474		168	-	3,769	7,781
2008	1,894	3,330		1,930	1	7,155	2,475	5,928		481	-	8,884	16,039
2009	1,414	3,363		2,764	1	7,543	1,530	3,758		133	-	5,421	12,965
2010	4,505	3,404		2,159	7	10,076	4,934	5,548		110	-	10,592	20,668
2011	2,766	4,848		1,740	2	9,355	3,532	7,405		495	-	11,432	20,787
2012	2,427	3,573		374	1	6,375	1,785	4,253		89	-	6,127	12,502
2013 <sup>f/</sup>	1,907	7,001		1,190	-	10,098	1,712	10,699		227	-	12,638	22,736

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 information.

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, 2013) dollars of the Buoy 10 recreational fishery in Oregon and Washington and the Area 4B add-on fishery in Washington.

Year or Avg.	Total Angler Trips (thousands)	Income Impacts (thousands of dollars)		
		Oregon	Washington	Total
<b>BUOY 10 (including bank fishing)</b>				
1987-1990	136	2,562	4,466	7,028
1991-1995	79	1,457	2,479	3,936
1996-2000	45	933	1,277	2,210
2001	126	2,608	2,754	5,362
2002	84	1,754	1,650	3,404
2003	89	2,079	1,439	3,518
2004	69	1,394	1,320	2,714
2005	55	1,393	768	2,161
2006	41	1,042	595	1,637
2007	36	863	646	1,509
2008	32	798	595	1,393
2009	73	1,688	1,168	2,855
2010	52	1,259	765	2,024
2011	49	1,294	676	1,970
2012	65	1,731	896	2,627
2013 <sup>b/</sup>	66	1,782	818	2,600
<b>AREA 4B ADD-ON <sup>c/</sup></b>				
1989-1990	12	-	633	633
1991-1995	6	-	369	369
1996-2000	3	-	132	132
2001	-	-	-	-
2002	-	-	-	-
2003	-	-	-	-
2004	-	-	-	-
2005	-	-	-	-
2006	-	-	-	-
2007	-	-	-	-
2008	1	-	32	32
2009	-	-	-	-
2010	-	-	-	-
2011	-	-	-	-
2012	-	-	-	-
2013 <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.

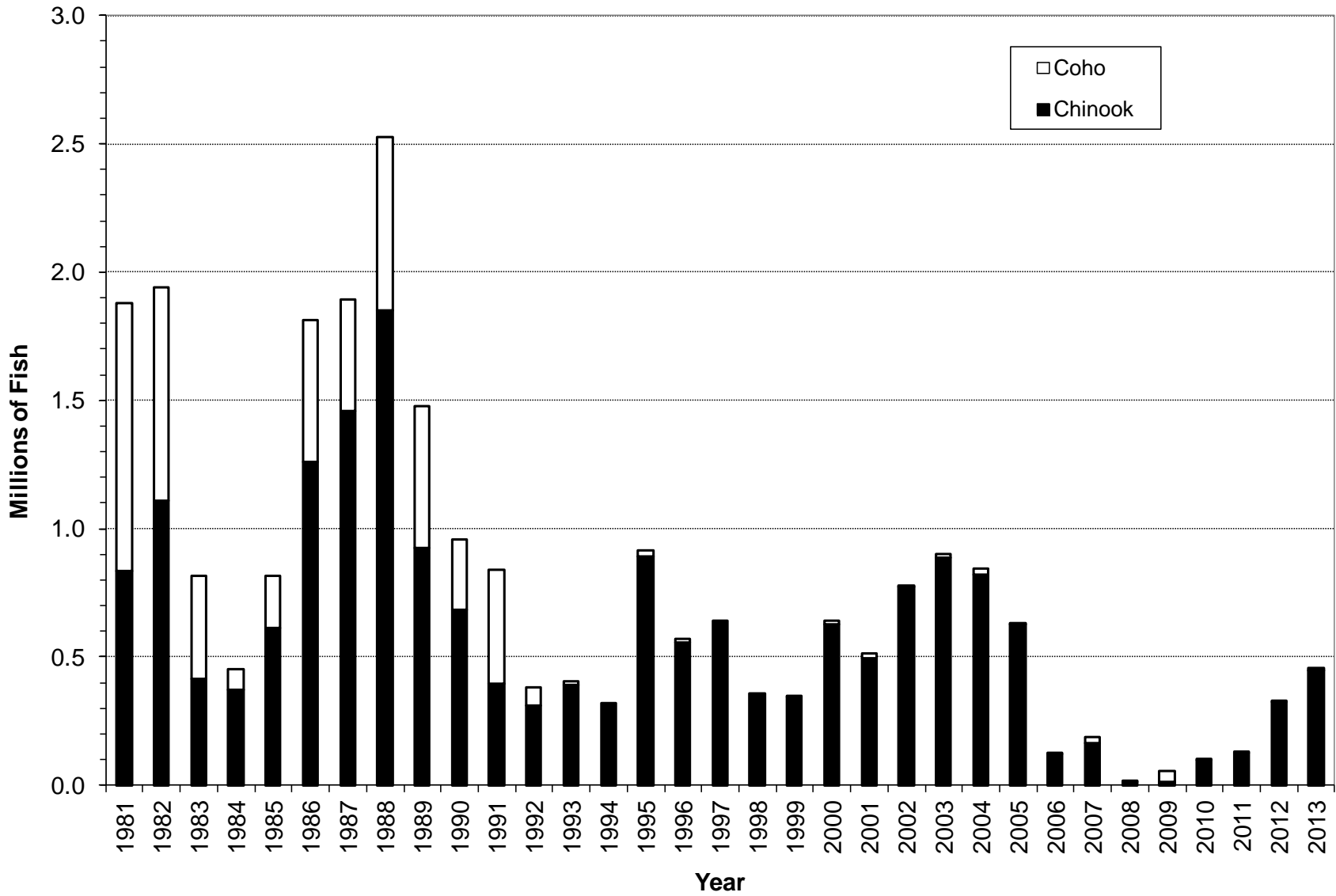


Figure IV-1. West Coast ocean non-Indian commercial Chinook and coho harvest.

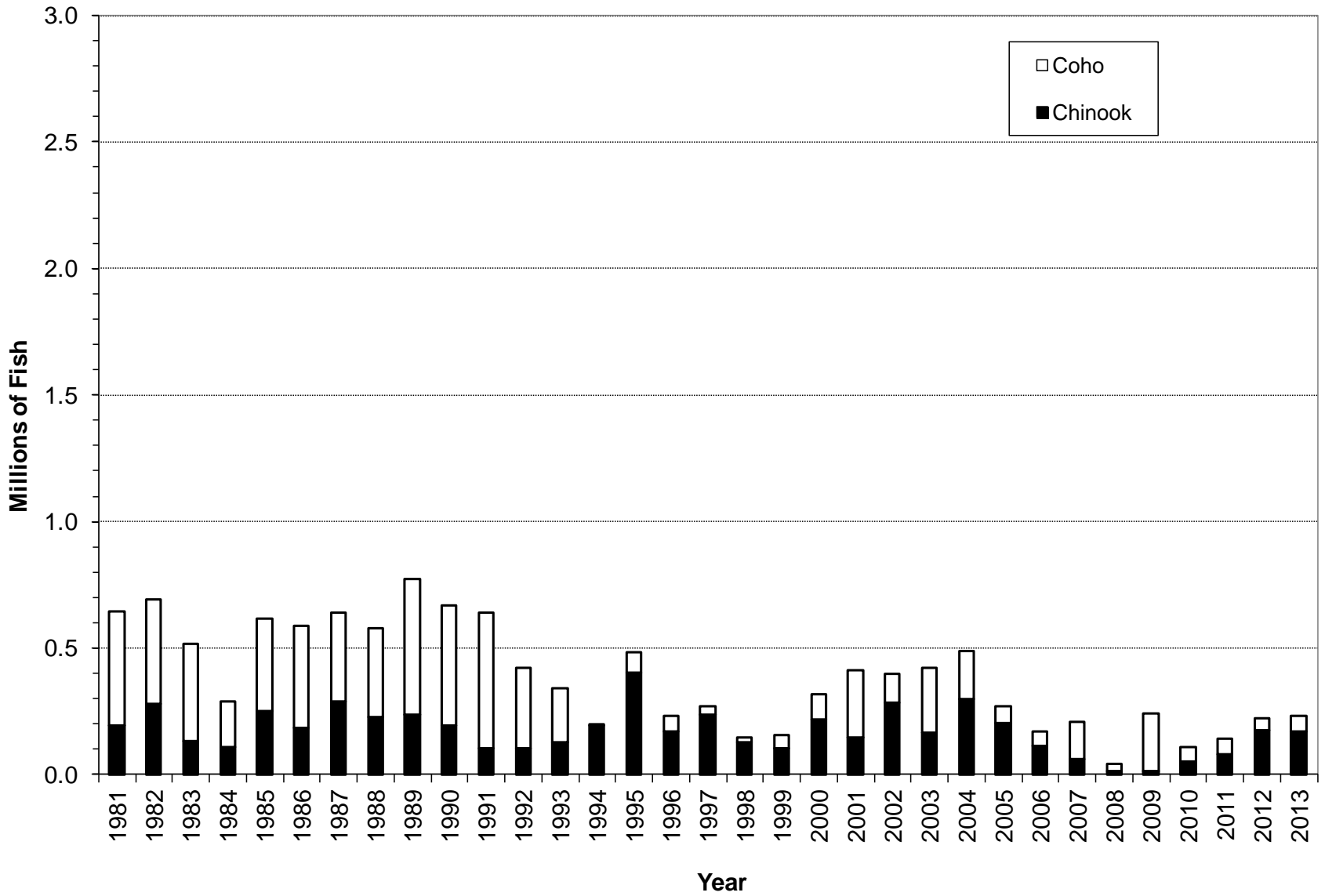


Figure IV-2. West Coast ocean recreational Chinook and coho harvest.



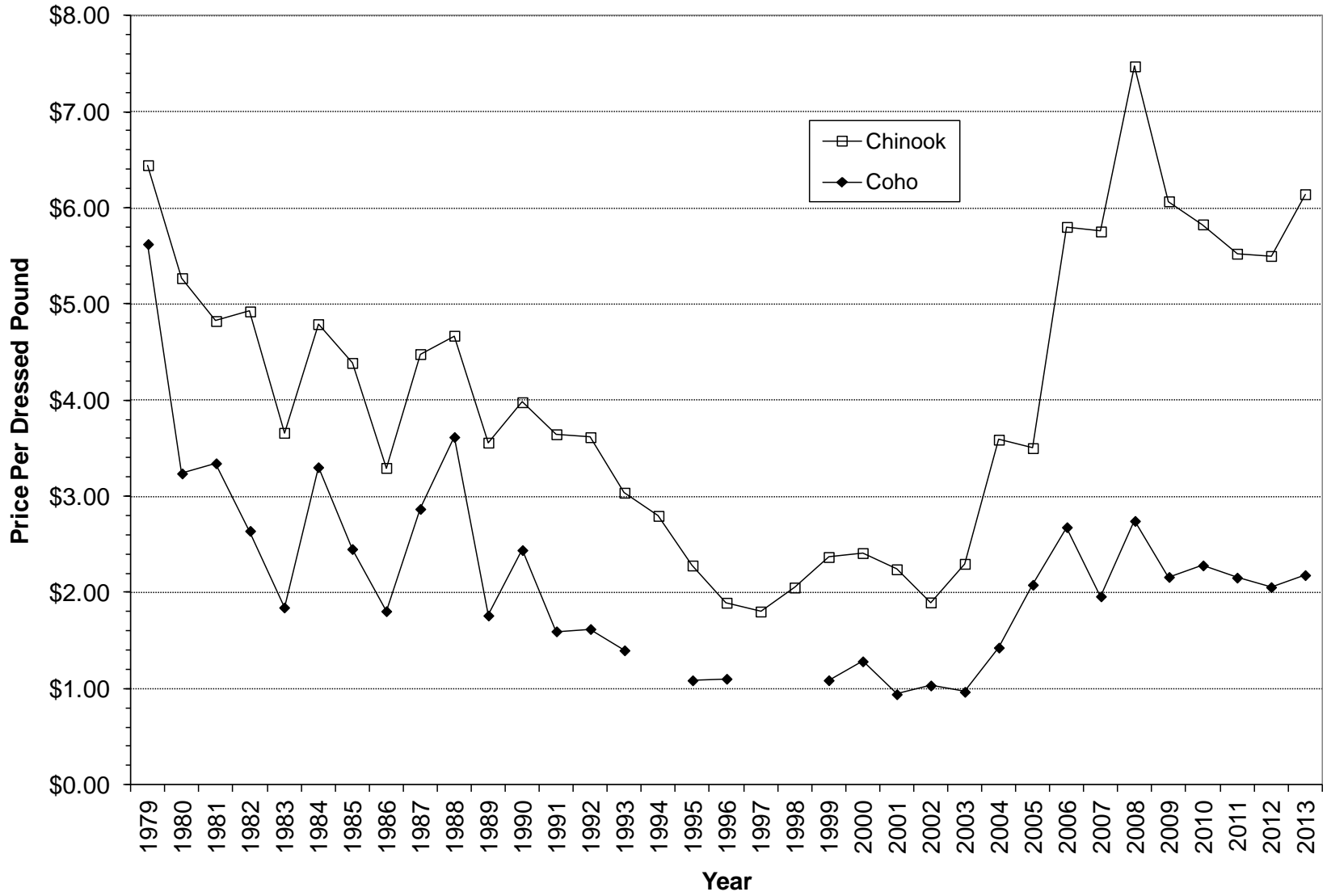


Figure IV-3. West Coast non-Indian ocean commercial salmon average annual exvessel prices (inflation adjusted, 2013 dollars).

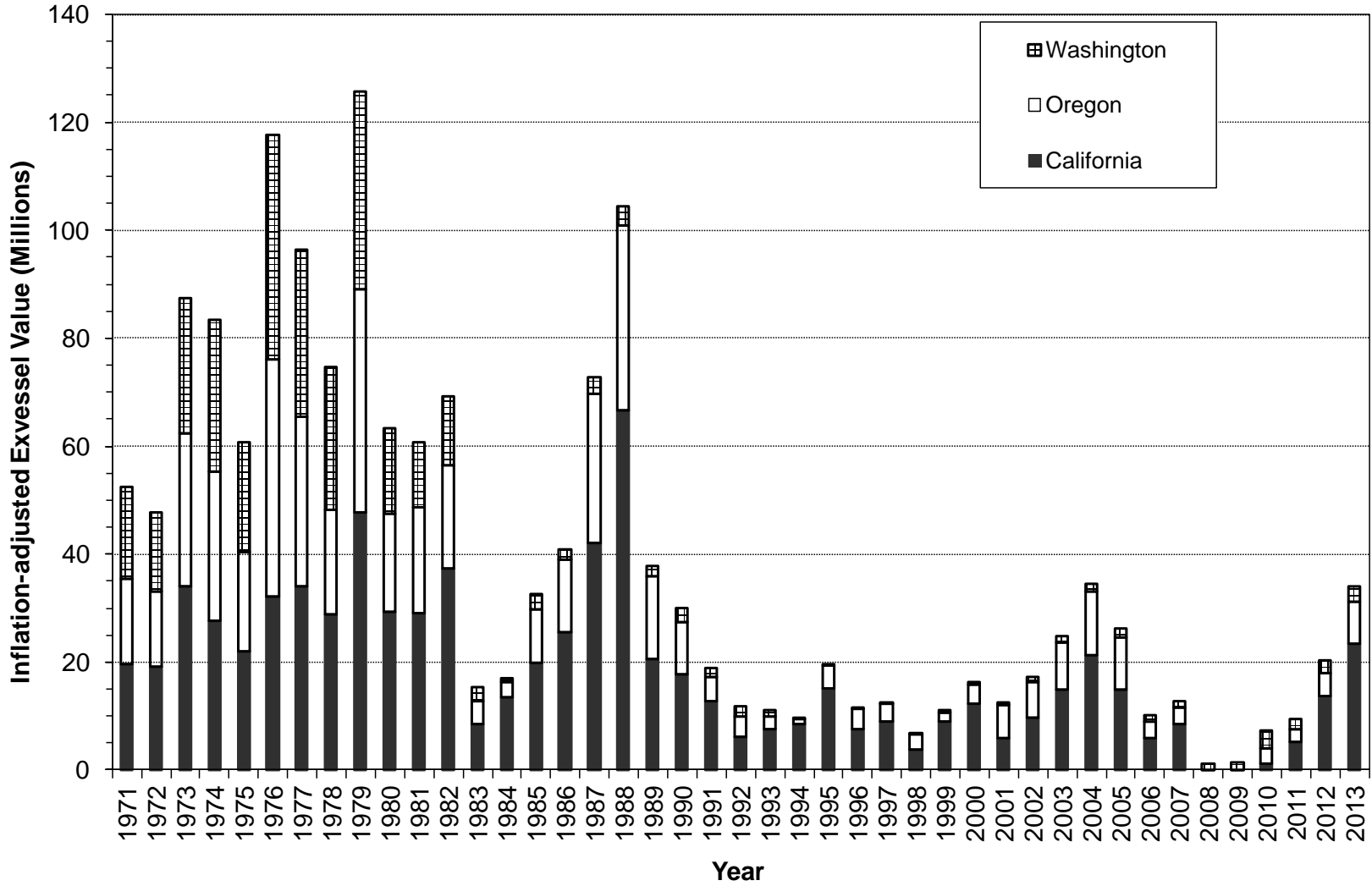


Figure IV-4. Exvessel value of West Coast non-Indian ocean commercial Chinook and coho landings by state of landing (inflation adjusted, 2013 dollars).

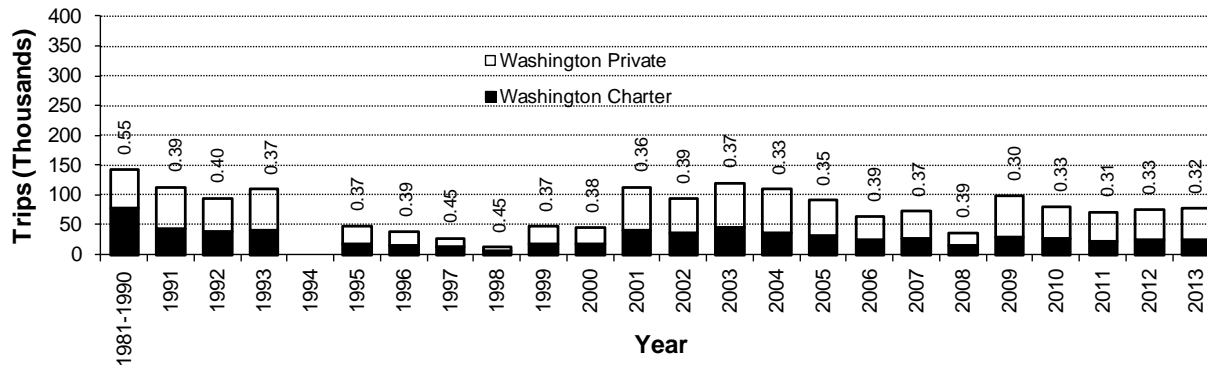
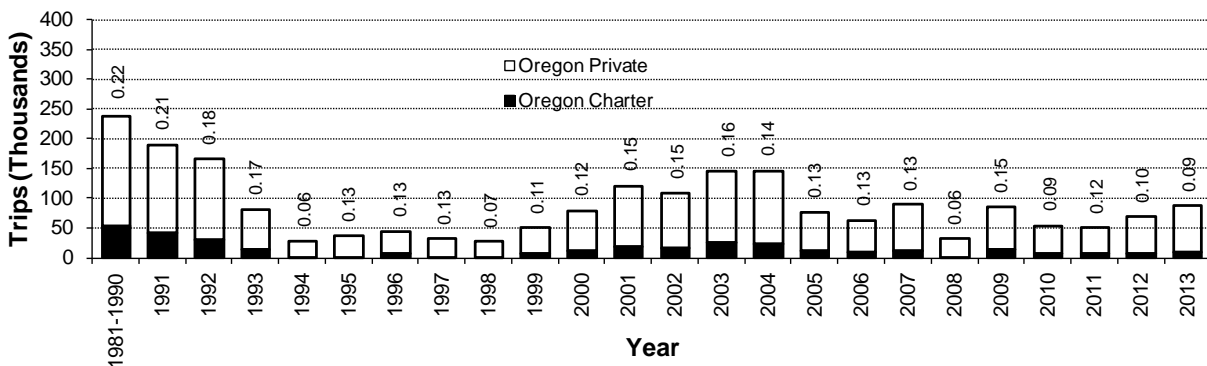
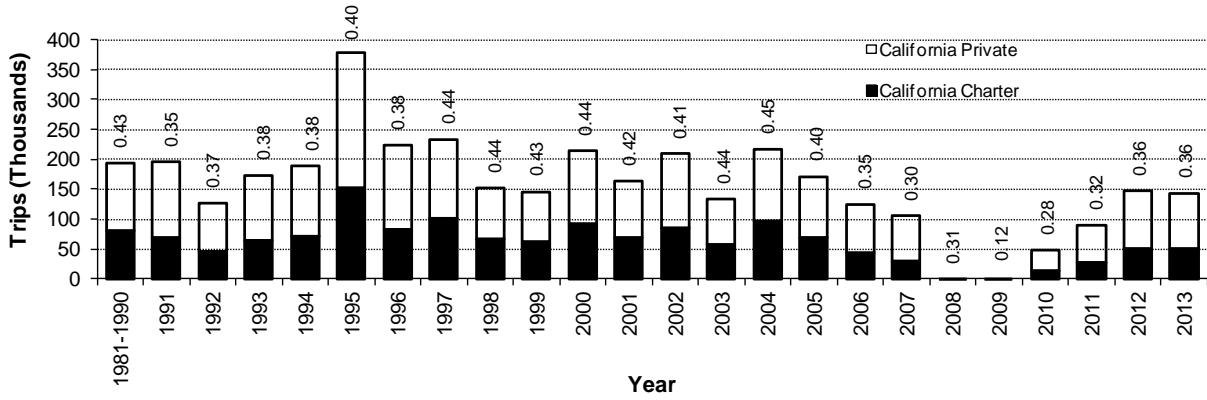


Figure IV-5. Total recreational ocean salmon trips for California, Oregon, and Washington, with proportion of charter trips shown above each bar.

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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>	16,986	18,446	21,943	21,106	16,523	0	95,003
1981-1985	7,428	8,053	13,716	22,182	11,482	0	59,765
1986-1990	545	1,629	16,392	25,555	14,391	12	58,511
1991-1995	-	600	1,775	13,340	10,820	0	25,700
1996-2000	15	202	796	9,546	7,740	0	18,299
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	20	181	2,143	2,907	1,722	-	6,973
2012	45	260	2,221	7,505	4,491	-	14,522
2013 <sup>c/</sup>	98	563	5,342	8,309	2,946	-	17,258
<b>CHINOOK LANDINGS</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	417	1,974	39,311	21,912	6,414	-	70,028
2012	400	4,831	38,282	119,100	52,972	-	215,585
2013 <sup>c/</sup>	1,173	8,952	116,338	143,358	27,588	-	297,409
<b>COHO LANDINGS</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	-	-	-	-	-	-	-
2012	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-

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 catch 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	-	16,986
1981-1985	-	1,363	961	1,947	2,509	1,295	-	7,428
1986-1990	-	9	360	219	253	10	-	545
1991-1995	-	-	-	-	-	-	-	-
1996-2000	-	-	-	-	10	13	-	15
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	-	-	-	4	16	-	-	20
2012	-	-	-	-	-	45	-	45
2013 <sup>c/</sup>	-	8	31	46	10	3	-	98
<u>Eureka</u>								
1978-1980	264	5,684	7,152	4,083	2,323	1,411	-	18,446
1981-1985	-	2,029	1,075	2,608	1,931	821	-	8,053
1986-1990	-	-	882	518	547	467	64	1,629
1991-1995	-	-	-	-	-	500	100	600
1996-2000	-	-	-	-	128	177	-	202
2001	-	-	-	-	-	297	-	297
2002	-	-	-	-	94	332	-	426
2003	-	-	-	-	-	55	-	55
2004	-	-	-	-	-	262	-	262
2005	-	-	-	-	-	266	-	266
2006	-	-	-	-	-	-	-	-
2007	-	-	-	-	-	270	-	270
2008	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	-
2011	-	-	-	148	33	-	-	181
2012	-	-	-	-	-	260	-	260
2013 <sup>c/</sup>	-	174	129	111	103	46	-	563
<u>Fort Bragg</u>								
1978-1980	29	2,285	4,678	9,987	4,348	2,185	-	21,943
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	-	1,775
1996-2000	-	-	-	-	1,300	536	-	796
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	-	-	-	596	1,386	161	-	2,143
2012	-	-	-	960	973	288	-	2,221
2013 <sup>c/</sup>	-	279	1,032	2,221	1,254	556	-	5,342



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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
<b>San Francisco</b>								
1978-1980	347	5,780	5,242	7,139	2,417	2,044	-	21,106
1981-1985	727	3,897	2,958	6,819	5,214	3,003	-	22,182
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	-	9,546
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	-	900	164	873	394	459	117	2,907
2012	-	1,723	686	2,199	1,422	1,006	469	7,505
2013 <sup>c/</sup>	-	2,399	2,065	1,358	1,264	1,006	217	8,309
<b>Monterey</b>								
1978-1980	1,024	5,293	4,310	4,581	2,220	873	-	16,523
1981-1985	1,311	4,245	2,767	2,746	964	236	-	11,482
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	-	7,740
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	-	979	340	268	117	18	-	1,722
2012	-	2,015	907	1,247	255	67	-	4,491
2013 <sup>c/</sup>	-	1,590	805	393	115	43	-	2,946
<b>Total Statewide<sup>a/</sup></b>								
1978-1980	1,718	21,086	25,641	32,076	16,334	7,268	-	95,003
1981-1985	2,037	12,939	9,510	18,736	12,153	5,613	-	59,765
1986-1990	-	14,524	16,246	14,658	9,741	3,316	64	58,511
1991-1995	-	7,860	5,620	5,160	4,320	2,720	100	25,700
1996-2000	363	4,642	4,173	4,570	2,351	2,419	-	18,299
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	-	1,879	504	1,889	1,946	638	117	6,973
2012	-	3,738	1,593	4,406	2,650	1,666	469	14,522
2013 <sup>c/</sup>	-	4,450	4,062	4,129	2,746	1,654	217	17,258

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

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

c/ Preliminary.





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

Year or Avg.	Apr.	May	June	July	Aug.	Sept.	Oct.	Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Season
CHINOOK								COHO								
<b>Monterey</b>																
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	-	3,979	1,359	695	333	48	-	6,414	-	-	-	-	-	-	-	-
2012	-	24,852	9,295	16,926	1,670	229	-	52,972	-	-	-	-	-	-	-	-
2013 <sup>c/</sup>	-	14,111	9,992	2,882	499	104	-	27,588	-	-	-	-	-	-	-	-
<b>Total Statewide<sup>a/</sup></b>																
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	-	11,732	4,189	31,669	20,301	1,820	317	70,028	-	-	-	-	-	-	-	-
2012	-	58,857	19,385	92,842	28,266	12,922	3,313	215,585	-	-	-	-	-	-	-	-
2013 <sup>c/</sup>	-	77,508	84,536	98,349	25,304	10,828	884	297,409	-	-	-	-	-	-	-	-

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 recatchedly occurred off Oregon.

c/ Preliminary.

TABLE A-4. California ocean recreational salmon fishing effort in angler trips by catch area 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	-	-	-	187	104	245	185	45	-	-	766
2012	-	-	-	455	1,018	4,134	1,702	502	-	-	7,811
2013 <sup>af</sup>	-	-	-	456	2,536	3,228	816	0	-	-	7,036
<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	-	-	-	1,664	2,574	4,625	4,597	723	-	-	14,183
2012	-	-	-	2,680	6,514	5,833	6,671	1,873	-	-	23,571
2013 <sup>af</sup>	-	-	-	2,756	5,942	6,042	7,410	614	-	-	22,764

TABLE A-4. California ocean recreational salmon fishing effort in angler trips by catch area 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	-	-	1,532	1,522	2,294	6,234	1,975	650	182	-	14,389
2012	-	-	1,230	2,088	2,975	4,076	2,890	1,069	334	151	14,813
2013 <sup>al</sup>	-	-	926	1,660	3,501	7,068	3,076	667	220	47	17,165
<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	-	-	2,046	2,272	1,630	8,505	9,094	7,591	3,249	-	34,387
2012	-	-	4,113	6,663	11,396	15,667	10,085	6,421	2,779	418	57,542
2013 <sup>al</sup>	-	-	6,306	7,638	10,813	21,729	13,368	4,219	1,868	323	66,264

TABLE A-4. California ocean recreational salmon fishing effort in angler trips by catch area 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	-	-	11,987	2,149	3,013	5,561	3,318	1,923	-	-	27,951
2012	-	-	16,123	9,326	7,603	8,674	1,645	424	475	-	44,270
2013 <sup>a/</sup>	-	-	12,214	5,669	3,606	6,163	2,582	268	22	-	30,524
<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	-	-	15,565	7,794	9,615	25,170	19,169	10,932	3,431	-	91,676
2012	-	-	21,466	21,212	29,506	38,384	22,993	10,289	3,588	569	148,007
2013 <sup>a/</sup>	-	-	19,446	18,179	26,398	44,230	27,252	5,768	2,110	370	143,753

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	288	220	747	2,204	289	3,748	0	0	-	3,748
2012	416	632	2,104	2,713	382	6,247	0	0	-	6,247
2013 <sup>b/</sup>	279	852	1,715	5,389	706	8,941	0	0	-	8,941
<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	2,836	1,106	4,980	21,833	1,326	32,081	0	0	-	32,081
2012	8,444	7,399	26,617	25,193	5,443	73,096	0	0	-	73,096
2013 <sup>b/</sup>	1,810	9,165	15,773	79,031	6,817	112,596	0	0	-	112,596

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	464	-	-	-	-	464	0	0	-	464
2012	625	-	-	-	-	625	0	0	-	625
2013 <sup>b/</sup>	426	-	-	-	-	426	0	0	-	426

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 fishing 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	-	-	85	119	45	24	15	-	-	-	288
2012	-	-	58	223	37	25	73	-	-	-	416
2013 <sup>b/</sup>	-	-	65	118	32	43	21	-	-	-	279
<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	-	1	24	96	21	23	42	13	-	-	220
2012	-	52	173	91	36	22	102	156	-	-	632
2013 <sup>b/</sup>	-	189	85	52	40	197	209	80	-	-	852

TABLE A-7. Oregon commercial troll salmon fishing 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	-	60	324	229	22	101	-	11	-	-	747
2012	-	153	474	335	112	311	463	256	-	-	2,104
2013 <sup>b/</sup>	-	331	478	264	141	324	102	75	-	-	1,715
<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	-	256	539	755	57	84	76	202	235	-	2,204
2012	-	307	790	507	96	299	323	270	121	-	2,713
2013 <sup>b/</sup>	-	505	565	452	334	1,638	1,028	725	142	-	5,389

TABLE A-7. Oregon commercial troll salmon fishing 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	-	-	60	60	8	86	-	75	-	-	289
2012	-	-	23	118	90	67	43	41	-	-	382
2013 <sup>b/</sup>	-	13	3	109	284	207	39	51	-	-	706
<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	-	317	947	1,140	108	294	118	301	235	-	3,460
2012	-	512	1,460	1,051	334	699	931	723	121	-	5,831
2013 <sup>b/</sup>	-	1,038	1,131	877	799	2,366	1,378	931	142	-	8,662

TABLE A-7. Oregon commercial troll salmon fishing 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	-	317	1,032	1,259	153	318	133	301	235	-	3,748
2012	-	512	1,518	1,274	371	724	1,004	723	121	-	6,247
2013 <sup>b/</sup>	-	1,038	1,196	995	831	2,409	1,399	931	142	-	8,941

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	-	-	1,057	1,400	114	239	26	-	-	-	2,836	-	234	147	83	-	464
2012	-	-	1,034	5,366	210	149	1,685	-	-	-	8,444	-	39	35	551	-	625
2013 <sup>b/</sup>	-	-	433	704	136	224	313	-	-	-	1,810	-	39	269	118	-	426
<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	-	1	130	615	174	52	114	20	-	-	1,106	-	-	-	-	-	-
2012	-	441	1,492	441	178	55	1,146	3,646	-	-	7,399	-	-	-	-	-	-
2013 <sup>b/</sup>	-	1,391	344	144	380	2,934	3,631	341	-	-	9,165	-	-	-	-	-	-



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	-	378	2,357	1,477	192	561	-	15	-	-	4,980	-	-	-	-	-	-
2012	-	1,089	4,407	2,578	998	5,825	8,551	3,169	-	-	26,617	-	-	-	-	-	-
2013 <sup>b/</sup>	-	2,185	3,408	1,740	1,444	5,553	1,007	436	-	-	15,773	-	-	-	-	-	-
<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	-	4,102	5,414	8,309	333	399	223	1,058	1,995	-	21,833	-	-	-	-	-	-
2012	-	2,103	8,634	4,338	608	2,891	3,976	1,942	701	-	25,193	-	-	-	-	-	-
2013 <sup>b/</sup>	-	3,797	5,310	4,102	3,509	30,089	23,684	7,593	947	-	79,031	-	-	-	-	-	-

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>					
<b>Brookings</b>																	
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	-	-	601	254	27	337	-	107	-	-	1,326	-	-	-	-	-	-
2012	-	-	371	1,286	1,456	1,328	884	118	-	-	5,443	-	-	-	-	-	-
2013 <sup>b/</sup>	-	50	7	1,451	3,171	1,848	135	155	-	-	6,817	-	-	-	-	-	-
<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	-	4,481	8,502	10,655	726	1,349	337	1,200	1,995	-	29,245	-	-	-	-	-	-
2012	-	3,633	14,904	8,643	3,240	10,099	14,557	8,875	701	-	64,652	-	-	-	-	-	-
2013 <sup>b/</sup>	-	7,423	9,069	7,437	8,504	40,424	28,457	8,525	947	-	110,786	-	-	-	-	-	-

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
CHINOOK												COHO					
<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	-	4,481	9,559	12,055	840	1,588	363	1,200	1,995	-	32,081	-	234	147	83	-	464
2012	-	3,633	15,938	14,009	3,450	10,248	16,242	8,875	701	-	73,096	-	39	35	551	-	625
2013 <sup>b/</sup>	-	7,423	9,502	8,141	8,640	40,648	28,770	8,525	947	-	112,596	-	39	269	118	-	426

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	-	-	-	459	1,402	4,645	877	-	-	7,383
2012	-	-	-	681	1,792	1,954	411	-	-	4,838
2013 <sup>b/</sup>	-	-	-	1,605	1,338	2,913	308	-	-	6,164
<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	0	50	143	936	3,771	2,968	3,730	1,240	-	12,838
2012	0	38	567	830	2,372	2,933	4,126	1,521	-	12,387
2013 <sup>b/</sup>	2	78	381	677	3,294	2,989	3,494	3,989	-	14,904

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	20	2	103	847	4,550	2,518	3,913	-	-	11,953
2012	23	290	325	658	3,425	4,030	5,947	107	-	14,805
2013 <sup>b/</sup>	354	441	204	425	5,037	4,073	4,606	188	-	15,328
<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	2	23	187	1,182	2,514	4,687	1,711	-	16	10,322
2012	0	52	730	2,290	4,075	5,568	3,647	77	18	16,457
2013 <sup>b/</sup>	123	174	338	2,898	3,011	19,299	3,901	84	--	29,828

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	-	-	393	296	189	1,772	1,853	1,757	-	6,260
2012	-	-	484	1,982	4,678	6,810	1,201	3,666	-	18,821
2013 <sup>b/</sup>	-	-	289	2,259	6,658	7,147	208	3,547	-	20,108
<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	22	75	826	3,261	11,024	11,945	11,207	2,997	16	41,373
2012	23	380	2,106	5,760	14,550	19,341	14,921	5,371	18	62,470
2013 <sup>b/</sup>	479	693	1,212	6,259	18,000	33,508	12,209	7,808	0	80,168

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	22	75	826	3,720	12,426	16,590	12,084	2,997	16	48,756
2012	23	380	2,106	6,441	16,342	21,295	15,332	5,371	18	67,308
2013 <sup>b/</sup>	479	693	1,212	7,864	19,338	36,421	12,517	7,808	0	86,332

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 4)

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>						
<u>Astoria</u>																	
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	-	-	-	129	147	1,264	79	-	-	1,619	-	178	981	4,132	755	-	6,046
2012	-	-	-	578	650	431	45	-	-	1,704	-	86	615	740	231	-	1,672
2013 <sup>c/</sup>	-	-	-	731	323	799	72	-	-	1,925	-	1,143	991	1,712	173	-	4,019
<u>Tillamook</u>																	
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	0	0	4	29	128	182	574	207	-	1,124	-	366	1,535	1,288	2,532	-	5,721
2012	0	1	79	102	133	429	1,008	419	-	2,171	-	13	423	1,302	1,424	-	3,162
2013 <sup>c/</sup>	0	21	32	82	189	229	779	719	-	2,051	-	-	2,052	782	827	12	3,673



TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish 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	May	June	July	Aug.	Sept.	Oct. <sup>b/</sup>	Season <sup>b/</sup>
CHINOOK											COHO						
<u>Newport</u>																	
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	0	6	21	44	111	52	234	-	-	468	-	179	1,703	385	3,680	-	5,947
2012	21	95	60	56	223	481	1,034	27	-	1,997	-	11	1,046	2,796	4,727	-	8,580
2013 <sup>c/</sup>	231	123	28	126	498	251	305	76	-	1,638	-	-	2,648	1,779	1,517	7	5,951
<u>Coos Bay</u>																	
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	0	1	31	88	254	389	248	-	6	1,017	-	11	330	338	411	-	1,090
2012	0	12	391	529	502	1,348	749	60	8	3,599	-	31	782	829	814	-	2,456
2013 <sup>c/</sup>	26	52	135	1,189	790	11,479	657	4	-	14,332	-	9	66	94	329	-	498

TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish 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	May	June	July	Aug.	Sept.	Oct. <sup>b/</sup>	Season <sup>b/</sup>
CHINOOK											COHO						
<u>Brookings</u>																	
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	-	-	148	24	7	328	196	233	-	936	-	-	12	8	8	-	28
2012	-	-	334	904	2,329	4,014	1,208	534	-	9,323	-	15	144	48	-	2	209
2013 <sup>c/</sup>	-	-	22	1,815	4,942	2,836	20	814	-	10,449	-	8	302	123	-	6	439
<u>South of Cape Falcon</u>																	
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	0	7	204	185	500	951	1,252	440	6	3,545	-	556	3,580	2,019	6,631	-	12,786
2012	21	108	864	1,591	3,187	6,272	3,999	1,040	8	17,090	-	70	2,395	4,975	6,965	2	14,407
2013 <sup>c/</sup>	257	196	217	3,212	6,419	14,795	1,761	1,613	-	28,470	-	17	5,068	2,778	2,673	25	10,561

TABLE A-10. Oregon ocean recreational salmon landings in numbers of fish 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	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	0	7	204	314	647	2,215	1,331	440	6	5,164	-	734	4,561	6,151	7,386	-	18,832
2012	21	108	864	2,169	3,837	6,703	4,044	1,040	8	18,794	-	156	3,010	5,715	7,196	2	16,079
2013 <sup>c/</sup>	257	196	217	3,943	6,742	15,594	1,833	1,613	-	30,395	-	1,160	6,059	4,490	2,846	25	14,580

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	92	1,133	669	170	2,064	-	-	0	2,064
2012	107	654	1,045	254	2,060	-	-	0	2,060
2013 <sup>b/</sup>	130	1,498	435	245	2,308	-	-	0	2,308
<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	1,032	12,518	10,418	2,934	26,902	-	-	0	26,902
2012	2,250	8,781	19,722	6,102	36,855	-	-	0	36,855
2013 <sup>b/</sup>	560	25,171	8,388	5,971	40,090	-	-	0	40,090

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	38	1,708	1,167	140	3,053	-	-	0	3,053
2012	89	856	2,119	204	3,268	-	-	0	3,268
2013 <sup>b/</sup>	127	3,759	1,846	309	6,041	-	-	0	6,041
<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	0	110	98	7	215	-	-	0	215
2012	0	0	0	0	0	-	-	0	0
2013 <sup>b/</sup>	0	15	99	27	141	-	-	0	141

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	107	34	17	3	9	-	170
2012	114	83	21	21	15	-	254
2013 <sup>d/</sup>	151	-	90	4	-	-	245
<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	199	236	139	70	25	-	669
2012	124	286	229	246	160	-	1,045
2013 <sup>d/</sup>	190	-	175	70	-	-	435
<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	300	386	292	135	20	-	1,133
2012	126	264	202	39	23	-	654
2013 <sup>d/</sup>	380	498	206	331	83	-	1,498

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	42	43	1	3	3	-	92
2012	5	76	14	2	10	-	107
2013 <sup>d/</sup>	47	51	15	10	7	-	130
<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	648	699	449	211	57	-	2,064
2012	369	709	466	308	208	-	2,060
2013 <sup>d/</sup>	768	549	486	415	90	-	2,308

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
	CHINOOK						COHO						PINKS					
<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	2,022	513	276	30	93	2,934	-	-	1	0	139	140	0	0	7	0	0	7
2012	4,511	788	157	421	225	6,102	-	-	0	125	79	204	-	-	-	-	-	-
2013 <sup>d/</sup>	3,984	-	1,900	87	-	5,971	-	-	279	30	-	309	2	-	2	23	-	27
<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	2,700	4,075	2,683	781	179	10,418	-	-	574	436	157	1,167	0	2	58	37	1	98
2012	4,242	4,341	3,524	5,868	1,747	19,722	-	-	256	839	1,024	2,119	-	-	-	-	-	-
2013 <sup>d/</sup>	4,186	-	2,396	1,806	-	8,388	-	-	1,054	792	-	1,846	0	0	93	6	0	99



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 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
	CHINOOK						COHO						PINKS					
<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	2,960	4,727	3,056	1,709	66	12,518	-	-	1,055	456	197	1,708	0	1	53	56	0	110
2012	1,613	5,242	1,631	109	186	8,781	-	-	490	152	214	856	-	-	-	-	-	-
2013 <sup>d/</sup>	2,317	11,848	3,520	6,796	690	25,171	-	-	559	2,942	258	3,759	0	0	6	8	1	15
<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	472	543	1	12	4	1,032	-	-	1	25	12	38	0	0	0	0	0	0
2012	263	1,687	66	0	234	2,250	-	-	23	2	64	89	-	-	-	-	-	-
2013 <sup>d/</sup>	102	358	42	19	39	560	-	-	28	80	19	127	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	8,154	9,858	6,016	2,532	342	26,902	-	-	1,631	917	505	3,053	0	3	118	93	1	215
2012	10,629	12,058	5,378	6,398	2,392	36,855	-	-	769	1,118	1,381	3,268						
2013 <sup>d/</sup>	10,589	12,206	7,858	8,708	729	40,090	-	-	1,920	3,844	277	6,041	2	0	101	37	1	141

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.	May-Sept.	Year
<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	-	18	479	573
2010	145	143	200	25	7	1	-	51	376	572
2011	301	68	51	7	1	0	-	22	127	450
2012 <sup>al</sup>	182	75	78	66	14	7	-	29	240	451
2013 <sup>al</sup>	268	141	70	36	6	1	-	117	254	639
<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	26	27	122	110	0	-	0	285	285
2010	0	5	94	63	99	41	-	0	302	302
2011	0	24	130	122	95	21	-	0	392	392
2012 <sup>al</sup>	0	56	175	134	190	94	-	0	649	649
2013 <sup>al</sup>	0	131	106	142	253	55	-	0	687	687
<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	0	3	1	11	12	2	4	-	29	33
2011	0	0	3	0	3	2	1	-	8	9
2012 <sup>al</sup>	0	8	3	5	12	2	4	-	30	34
2013 <sup>al</sup>	0	6	17	22	10	2	6	-	57	63

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	29	1	-	-	50	50
2010	0	4	40	56	32	18	-	-	150	150
2011	0	0	5	22	32	1	-	-	60	60
2012 <sup>a/</sup>	0	5	12	7	11	0	-	-	35	35
2013 <sup>a/</sup>	0	1	7	2	14	2	-	-	26	26
<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	82	238	233	269	5	4	18	827	925
2010	145	155	335	155	150	62	4	51	857	1,057
2011	301	92	189	151	131	24	1	22	587	911
2012 <sup>a/</sup>	182	144	268	212	227	103	4	29	954	1,169
2013 <sup>a/</sup>	268	279	200	202	283	60	6	117	1,024	1,415

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.	Total										Total									
	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct. <sup>/b</sup>	Nov.-Dec.	May-Sept.	Year	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct. <sup>/b</sup>	Nov.-Dec.	May-Sept.	Year
<b>CHINOOK</b>										<b>COHO</b>										
<u>Area 4B</u>																				
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	1,722	1,657	3,240	171	37	9	-	200	5,114	7,036	0	0	0	106	3	0	-	12	109	121
2011	2,889	585	373	46	15	0	-	90	1,019	3,998	2	0	0	10	13	0	-	2	23	27
2012 <sup>a/</sup>	1,219	635	699	677	295	43	-	331	2,349	3,899	0	0	2	235	229	166	-	4	632	636
2013 <sup>a/</sup>	1,669	1,989	2,456	164	43	0	-	767	4,652	7,088	3	0	0	303	0	0	-	10	303	316
<u>Neah Bay</u>																				
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	799	1,083	1,615	1,649	0	-	0	5,146	5,146	0	0	0	21,558	23,832	0	-	0	45,390	45,390
2010	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	0	535	7,701	14,462	5,014	359	-	0	28,071	28,071	0	0	0	1,951	4,196	6,174	-	0	12,321	12,321
2012 <sup>a/</sup>	0	2,975	19,218	8,805	13,121	4,627	-	0	48,746	48,746	0	1	27	2,131	16,750	15,524	-	0	34,433	34,433
2013 <sup>a/</sup>	0	8,983	13,788	7,834	6,980	2,073	-	0	39,658	39,658	0	0	0	6,955	33,551	3,847	-	1	44,353	44,354

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. <sup>/b</sup>	Nov.-Dec.	May-Sept.	Year	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct. <sup>/b</sup>	Nov.-Dec.	May-Sept.	Year
<b>La Push<sup>b/</sup></b>																				
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	0	103	95	-	-	198	198
2001	0	0	0	0	0	3	-	-	3	3	0	0	0	0	0	24	-	-	24	24
2002	0	0	0	124	4	0	30	-	128	158	0	0	0	0	372	0	80	-	372	452
2003	0	0	47	0	0	0	35	-	47	82	0	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	0	25	-	360	385	0	0	0	102	3,060	15	15	-	3,177	3,192
2010	0	6	85	754	702	74	10	-	1,621	1,631	0	2	0	157	226	51	15	-	436	451
2011	0	0	457	0	69	46	0	-	572	572	0	0	0	0	29	482	0	-	511	511
2012 <sup>a/</sup>	0	722	258	322	1,060	164	10	-	2,526	2,536	0	0	1	44	1,002	179	0	-	1,226	1,226
2013 <sup>a/</sup>	0	954	2,694	1,196	181	16	11	-	5,041	5,052	0	0	7	431	1,342	249	0	-	2,029	2,029
<b>Westport</b>																				
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	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	0	32	766	938	468	624	-	-	2,828	2,828	0	0	50	448	249	1,390	-	-	2,137	2,137
2011	0	0	277	253	1,560	13	-	-	2,103	2,103	0	0	0	132	566	55	-	-	753	753
2012 <sup>a/</sup>	0	133	510	352	174	0	-	-	1,169	1,169	0	0	71	290	809	0	-	-	1,170	1,170
2013 <sup>a/</sup>	0	3	153	54	410	44	-	-	664	664	0	0	0	18	943	68	-	-	1,029	1,029

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.	Jan.-Apr.	May	June	July	Aug.	Sept.	Oct. <sup>/b</sup>	Nov.-Dec.	Total		Jan.-Apr.	May	June	July	Aug.	Sept.	Oct. <sup>/b</sup>	Nov.-Dec.	Total	
									May-Sept.	Year									May-Sept.	Year
<b>CHINOOK</b>										<b>COHO</b>										
<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	1,491	5,828	2,329	2,566	12	25	68	12,226	12,783	0	0	0	25,422	35,141	100	15	0	60,663	60,678
2010	1,722	1,926	12,150	6,943	9,693	1,664	10	200	32,376	34,308	0	2	63	2,015	5,058	4,323	15	12	11,461	11,488
2011	2,889	1,120	8,808	14,761	6,658	418	0	90	31,765	34,744	2	0	0	2,093	4,804	6,711	0	2	13,608	13,612
2012 <sup>a/</sup>	1,219	4,465	20,685	10,156	14,650	4,834	10	331	54,790	56,350	0	1	101	2,700	18,790	15,869	0	4	37,461	37,465
2013 <sup>a/</sup>	1,669	11,929	19,091	9,248	7,614	2,133	11	767	50,015	52,462	3	0	7	7,707	35,836	4,164	0	11	47,714	47,728

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	0	0	3	55	15	0	-	0	73	73
2013 <sup>b/</sup>	0	0	0	39	0	0	-	0	39	39
<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	0	0	3	656	310	16	-	0	985	985
2013 <sup>b/</sup>	0	0	0	49	115	0	-	0	164	164
<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	0	0	0	0	4	0	0	-	4	4
2013 <sup>b/</sup>	0	0	0	15	7	0	0	-	22	22



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	0	0	0	2	2	0	-	-	4	4
2013 <sup>b/</sup>	0	0	0	0	0	0	-	-	0	0
<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	0	0	6	713	331	16	0	0	1,066	1,066
2013 <sup>b/</sup>	0	0	0	103	122	0	0	0	225	225

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	-	-	638	5,500	4,259	671	-	11,069
2012	-	-	638	7,324	3,641	1,268	-	13,439
2013 <sup>b/</sup>	-	815	1,714	7,399	5,044	391	-	15,362
<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	-	-	194	1,406	1,946	676	16	4,237
2012	-	-	236	1,190	1,379	768	353	3,926
2013 <sup>b/</sup>	-	136	239	971	2,263	420	237	4,266
<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	-	-	4,705	10,428	14,973	3,440	-	33,545
2012	-	-	4,705	10,428	14,973	3,440	-	33,545
2013 <sup>b/</sup>	-	-	7,020	7,641	16,639	4,589	-	35,889

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	-	-	674	5,358	15,127	3,586	-	24,744
2012	-	-	1,964	5,627	10,154	5,224	-	22,970
2013 <sup>b/</sup>	-	-	2,843	4,833	13,381	3,438	-	24,496
<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	-	-	6,211	22,692	36,305	8,372	16	73,596
2012	-	-	11,591	23,040	29,322	13,352	353	77,659
2013 <sup>b/</sup>	-	951	11,816	20,844	37,328	8,838	237	80,014

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>							
<b>Neah Bay</b>																
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	-	-	257	1,382	1,330	14	-	2,983	-	-	54	1,918	943	140	-	3,054
2012	-	-	812	3,524	1,173	42	-	5,552	-	-	27	3,643	3,094	784	-	7,548
2013 <sup>c/</sup>	-	127	635	3,267	2,142	74	-	6,245	-	-	257	3,082	2,934	233	-	6,506
<b>La Push</b>																
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	-	-	32	501	907	90	5	1,535	-	-	48	572	1,029	398	2	2,050
2012	-	-	86	463	443	153	133	1,278	-	-	-	473	1,052	698	21	2,243
2013 <sup>c/</sup>	-	4	99	693	1,288	152	119	2,355	-	-	57	439	2,015	269	18	2,798

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	-	-	2,220	5,579	10,835	455	-	19,089	-	-	229	4,499	6,723	2,392	-	13,843
2012	-	-	7,574	4,033	6,709	1,170	-	19,486	-	-	184	3,124	3,375	5,241	-	11,924
2013 <sup>cl</sup>	-	-	2,192	3,403	7,021	1,074	-	13,689	-	-	379	3,097	12,233	4,668	-	20,377
<u>Ilwaco<sup>dl</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	-	-	352	808	4,107	329	-	5,596	-	-	289	5,104	12,678	2,564	-	20,634
2012	-	-	1,793	2,200	2,691	730	-	7,414	-	-	196	3,057	4,421	2,045	-	9,719
2013 <sup>cl</sup>	-	-	1,300	1,356	3,284	688	-	6,629	-	-	2,287	4,007	8,599	1,566	-	16,459

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 <sup>b</sup>	-	-	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	-	-	2,861	8,271	17,178	889	5	29,203	-	-	620	12,093	21,372	5,494	2	39,582
2012	-	-	10,265	10,220	11,016	2,096	133	33,729	-	-	407	10,297	11,942	8,767	21	31,434
2013 <sup>c/</sup>	-	131	4,226	8,719	13,734	1,989	119	28,918	-	-	2,980	10,626	25,782	6,735	18	46,140

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>a/</sup>	-	0	0	1,443	295	202	-	1,940
1991 <sup>a/</sup>	-	-	-	479	1,543	0	-	2,022
1993 <sup>a/</sup>	-	0	-	609	1,264	371	-	2,244
1995	-	-	-	-	2,578	30	-	2,608
1997 <sup>a/</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	-	-	33	3,320	3,960	159	-	7,473
2013 <sup>b/</sup>	-	-	31	4,088	1,866	13	-	5,997
<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	-	-	4	520	929	67	0	1,520
2013 <sup>b/</sup>	-	-	3	232	406	1	0	643
<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	-	-	4	544	1,270	13	-	1,832
2013 <sup>b/</sup>	-	-	5	648	372	0	-	1,024

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>Ilwaco<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	-	-	0	2	1	0	-	3
2013 <sup>b/</sup>	-	-	0	0	4	0	-	4
<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	-	-	41	4,386	6,161	240	0	10,828
2013 <sup>b/</sup>	-	-	39	4,967	2,648	14	0	7,668

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	-	317	887	1,080	100	208	118	226	235	-	3,171
2012	-	512	1,437	933	244	632	888	682	121	-	5,449
2013 <sup>b/</sup>	-	1,025	1,128	768	515	2,159	1,339	880	142	-	7,956
<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	-	-	60	60	160	135	-	75	-	-	490
2012	-	-	23	118	90	67	348	41	-	-	687
2013 <sup>b/</sup>	-	13	185	269	441	320	88	51	-	-	1,367

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><u>Horse Mt. to U.S./Mexico Border</u></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	-	-	1,879	504	1,737	1,897	638	117	-	-	6,772
2012	-	-	3,738	1,593	4,406	2,650	1,361	469	-	-	14,217
2013 <sup>b/</sup>	-	-	4,268	3,902	3,972	2,633	1,605	217	-	-	16,597
<b><u>Total South of Cape Falcon</u></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	-	317	2,826	1,644	1,997	2,240	756	418	235	-	10,433
2012	-	512	5,198	2,644	4,740	3,349	2,597	1,192	121	-	20,353
2013 <sup>b/</sup>	-	1,038	5,581	4,939	4,928	5,112	3,032	1,148	142	-	25,920

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

b/ Preliminary.

c/ The current commercial KMZ boundaries are Humbug Mt. to Humboldt south jetty.



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	-	-	11,732	4,189	30,085	19,494	1,820	317	-	-	67,637	-	-	-	-	-	-	-	-
2012	-	-	58,857	19,385	92,842	28,266	7,691	3,313	-	-	210,354	-	-	-	-	-	-	-	-
2013 <sup>b/</sup>	-	-	74,820	81,648	95,975	23,313	10,644	884	-	-	287,284	-	-	-	-	-	-	-	-
<u>Total South of Cape Falcon<sup>a/</sup></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	-	4,481	20,234	14,844	32,395	21,650	2,157	1,517	1,995	-	99,273	-	-	-	-	-	-	-	-
2012	-	3,633	73,761	28,028	96,082	38,365	27,479	12,188	701	-	280,237	-	-	-	-	-	-	-	-
2013 <sup>b/</sup>	-	7,423	86,577	91,973	106,853	65,728	39,285	9,409	947	-	408,195	-	-	-	-	-	-	-	-

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

b/ Preliminary.

c/ The current commercial KMZ boundaries are Humbug Mt. to Humboldt south jetty.

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	-	22	75	433	2,965	10,835	10,173	9,354	1,240	16	35,113
2012	-	23	380	1,622	3,778	9,872	12,531	13,720	1,705	18	43,649
2013 <sup>b/</sup>	-	479	693	923	4,000	11,342	26,361	12,001	4,261	--	60,060
<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	-	-	-	2,244	2,974	5,059	6,554	2,621	1,757	-	21,209
2012	-	-	-	3,619	9,514	14,645	15,183	3,576	3,666	-	50,203
2013 <sup>b/</sup>	-	-	-	3,501	10,737	15,928	15,373	822	3,547	-	49,908

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	-	-	15,565	5,943	6,937	20,300	14,387	10,164	3,431	-	76,727
2012	-	-	21,466	18,077	21,974	28,417	14,620	7,914	3,588	569	116,625
2013 <sup>b/</sup>	-	-	19,446	14,967	17,920	34,960	19,026	5,154	2,110	370	113,953
<b>Total South of Cape Falcon<sup>a/</sup></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	-	22	15,640	8,620	12,876	36,194	31,114	22,139	6,428	16	133,049
2012	-	23	21,846	23,318	35,266	52,934	42,334	25,210	8,959	587	210,477
2013 <sup>b/</sup>	-	479	20,139	19,391	32,657	62,230	60,760	17,977	9,918	370	223,921

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

b/ Preliminary.

c/ The current recreational boundaries are Humbug Mt. to Horse Mountain.

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
	CHINOOK											COHO										
<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	-	0	7	56	161	493	623	1,056	207	6	2,609	-	-	-	-	556	3,568	2,011	6,623	-	-	12,758
2012	-	21	108	530	687	858	2,258	2,791	506	8	7,767	-	-	-	-	55	2,251	4,927	6,965	-	-	14,198
2013 <sup>b/</sup>	-	257	196	195	1,397	1,477	11,959	1,741	799	--	18,021	-	-	-	-	9	4,766	2,655	2,673	19	-	10,122
<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	-	-	-	814	970	4,391	4,018	497	233	-	10,923	-	-	-	5	10	62	37	12	-	-	126
2012	-	-	-	3,911	11,769	14,139	14,502	3,912	534	-	48,767	-	-	-	-	50	176	48	-	2	-	276
2013 <sup>b/</sup>	-	-	-	2,585	12,271	16,190	12,015	459	814	-	44,334	-	-	-	-	65	360	241	-	6	-	672

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	
	<b>CHINOOK</b>											<b>COHO</b>											
	<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	-	-	5,522	1,919	2,434	12,498	9,410	6,794	1,258	-	39,835	-	-	8	10	62	116	17	-	5	-	218	
2012	-	-	18,786	11,146	17,027	23,897	6,987	4,385	2,094	160	84,482	-	-	-	3	14	14	-	3	-	-	34	
2013 <sup>b/</sup>	-	-	13,506	11,101	15,305	28,203	7,945	1,999	1,263	71	79,393	-	-	-	-	34	86	4	-	-	-	124	
	<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	-	0	5,529	2,789	3,565	17,382	14,051	8,347	1,698	6	53,367	-	-	8	15	628	3,746	2,065	6,635	5	-	13,102	
2012	-	21	18,894	15,587	29,483	38,894	23,747	11,088	3,134	168	141,016	-	-	-	3	119	2,441	4,975	6,968	2	-	14,508	
2013 <sup>b/</sup>	-	257	13,702	13,881	28,973	45,870	31,919	4,199	2,876	71	141,748	-	-	-	-	108	5,212	2,900	2,673	25	-	10,918	

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 recreational boundaries are Humbug Mt. to Horse Mt.



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	606	656	448	208	54	-	1,972
2012	364	633	452	306	198	-	1,953
2013 <sup>b/</sup>	721	498	471	405	83	-	2,178
<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	82	238	233	269	5	4	827
2010	155	335	155	150	62	4	857
2011	92	189	151	131	24	1	587
2012 <sup>b/</sup>	144	268	212	227	103	4	954
2013 <sup>b/</sup>	279	200	202	283	60	6	1,024
<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	549	789	665	589	139	4	2,731
2010	666	1,193	656	578	108	4	3,201
2011	698	845	599	339	78	1	2,559
2012 <sup>b/</sup>	508	901	664	533	301	4	2,907
2013 <sup>b/</sup>	1,000	698	673	688	143	6	3,202

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	127	162	46	27	18	-	380
2012	63	299	51	27	83	-	523
2013 <sup>b/</sup>	112	169	47	53	28	-	409
<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	733	818	494	235	72	-	2,352
2012	427	932	503	333	281	-	2,476
2013 <sup>b/</sup>	833	667	518	458	111	-	2,587
<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	82	238	233	269	5	4	827
2010	155	335	155	150	62	4	857
2011	92	189	151	131	24	1	587
2012 <sup>b/</sup>	144	268	212	227	103	4	954
2013 <sup>b/</sup>	279	200	202	283	60	6	1,024

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	628	887	917	762	152	4	3,346
2010	758	1,503	820	715	131	4	3,927
2011	825	1,007	645	366	96	1	2,939
2012 <sup>b/</sup>	571	1,200	715	560	384	4	3,430
2013 <sup>b/</sup>	1,112	867	720	741	171	6	3,611

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	7,682	9,315	6,015	2,520	338	-	25,870	-	-	1,630	892	493	-	3,015
2012	10,366	10,371	5,312	6,398	2,158	-	34,605	-	-	746	1,116	1,317	-	3,179
2013 <sup>b/</sup>	10,487	11,848	7,816	8,689	690	-	39,530	-	-	1,892	3,764	258	-	5,914
<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	1,491	5,828	2,329	2,566	12	25	12,226	0	0	25,422	35,141	100	15	60,663
2010	1,926	12,150	6,943	9,693	1,664	10	32,376	2	63	2,015	5,058	4,323	15	11,461
2011	1,120	8,808	14,761	6,658	418	0	31,765	0	0	2,093	4,804	6,711	0	13,608
2012 <sup>b/</sup>	4,465	20,685	10,156	14,650	4,834	10	54,790	1	101	2,700	18,790	15,869	0	37,461
2013 <sup>b/</sup>	11,929	19,091	9,248	7,614	2,133	11	50,015	0	7	7,707	35,836	4,164	0	47,714

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	7,036	9,923	3,944	3,246	132	25	24,281	0	0	30,279	44,422	3,763	15	78,464
2010	10,145	34,482	13,056	16,960	1,946	10	76,589	2	63	3,100	5,802	4,447	15	13,414
2011	8,802	18,123	20,776	9,178	756	0	57,635	0	0	3,723	5,696	7,204	0	16,623
2012 <sup>b/</sup>	14,831	31,056	15,468	21,048	6,992	10	89,395	1	101	3,446	19,906	17,186	0	40,640
2013 <sup>b/</sup>	22,416	30,939	17,064	16,303	2,823	11	89,545	0	7	9,599	39,600	4,422	0	53,628
<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	1,529	1,943	115	251	30	-	3,868	-	-	235	172	95	-	502
2012	1,297	7,053	276	149	1,919	-	10,694	-	-	62	37	615	-	714
2013 <sup>b/</sup>	535	1,062	178	243	352	-	2,370	-	-	67	349	137	-	553

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	9,211	11,258	6,130	2,771	368	-	29,738	-	-	1,865	1,064	588	-	3,517
2012	11,663	17,424	5,588	6,547	4,077	-	45,299	-	-	808	1,153	1,932	-	3,893
2013 <sup>b/</sup>	11,022	12,910	7,994	8,932	1,042	-	41,900	-	-	1,959	4,113	395	-	6,467
<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	1,491	5,828	2,329	2,566	12	25	12,226	0	0	25,422	35,141	100	15	60,663
2010	1,926	12,150	6,943	9,693	1,664	10	32,376	2	63	2,015	5,058	4,323	15	11,461
2011	1,120	8,808	14,761	6,658	418	0	31,765	0	0	2,093	4,804	6,711	0	13,608
2012	4,465	20,685	10,156	14,650	4,834	10	54,790	1	101	2,700	18,790	15,869	0	37,461
2013 <sup>b/</sup>	11,929	19,091	9,248	7,614	2,133	11	50,015	0	7	7,707	35,836	4,164	0	47,714

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	7,301	10,204	4,204	3,409	136	25	25,254	0	0	39,931	49,547	3,928	15	93,406
2010	10,935	41,364	15,345	18,854	2,097	10	88,595	2	63	3,835	6,207	4,496	15	14,603
2011	10,331	20,066	20,891	9,429	786	0	61,503	0	0	3,958	5,868	7,299	0	17,125
2012 <sup>b/</sup>	16,128	38,109	15,744	21,197	8,911	10	100,089	1	101	3,508	19,943	17,801	0	41,354
2013 <sup>b/</sup>	22,951	32,001	17,242	16,546	3,175	11	91,915	0	7	9,666	39,949	4,559	0	54,181

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
<b><u>U.S./Canada Border to Leadbetter Pt. - Non-Indian</u></b>							
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	0	0	0	0	0	-	0
2013 <sup>b/</sup>	2	0	101	37	1	-	135
<b><u>U.S./Canada Border to Leadbetter Pt. - 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
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	0	6	713	331	16	0	1,066
2013 <sup>b/</sup>	0	0	103	122	0	0	225
<b><u>U.S./Canada Border to Leadbetter Pt. - Total<sup>c/</sup></u></b>							
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	0	6	713	331	16	0	1,066
2013 <sup>b/</sup>	2	0	204	159	1	0	360
<b><u>Leadbetter Pt. to Cape Falcon - Non-Indian</u></b>							
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	0	36	5	8	0	-	49
2013 <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.S./Canada Border to Cape Falcon - Non-Indian</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	0	36	5	8	0	-	49
2013 <sup>b/</sup>	2	36	106	45	1	-	184
<b>U.S./Canada Border to Cape Falcon - Treaty Indian<sup>c/</sup></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	0	6	713	331	16	0	1,066
2013 <sup>b/</sup>	0	0	103	122	0	0	225
<b>U.S./Canada Border to Cape Falcon - Total<sup>c/</sup></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	0	42	718	339	16	0	1,115
2013 <sup>b/</sup>	2	36	209	167	1	0	409

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	-	-	5,537	17,334	21,178	4,787	16	48,852
2012	-	-	5,537	17,334	21,178	4,787	16	48,852
2013 <sup>d/</sup>	-	951	8,973	16,010	23,946	5,400	237	55,518
<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	-	-	1,133	6,760	19,772	4,463	-	32,127
2012	-	-	1,355	7,150	17,081	3,997	-	29,582
2013 <sup>d/</sup>	-	-	4,448	6,171	16,294	3,746	-	30,660
<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	-	-	6,670	24,094	40,950	9,249	16	80,979
2012	-	-	6,892	24,484	38,259	8,783	16	78,434
2013 <sup>d/</sup>	-	951	13,421	22,182	40,241	9,146	237	86,178

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	-	-	2,509	7,462	13,071	559	5	23,607	-	-	331	6,989	8,694	2,931	2	18,947
2012	-	-	8,472	8,020	8,325	1,366	133	26,315	-	-	211	7,240	7,521	6,722	21	21,715
2013 <sup>c/</sup>	-	131	2,927	7,363	10,450	1,300	119	22,289	-	-	693	6,619	17,182	5,169	18	29,681
<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	-	-	481	955	5,371	408	-	7,215	-	-	467	6,085	16,810	3,319	-	26,680
2012	-	-	2,371	2,850	3,122	775	-	9,118	-	-	282	3,672	5,161	2,276	-	11,391
2013 <sup>c/</sup>	-	-	2,031	1,679	4,083	760	-	8,554	-	-	3,430	4,998	10,311	1,739	-	20,478

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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	-	-	2,990	8,418	18,442	968	5	30,822	-	-	798	13,074	25,504	6,249	2	45,628
2012	-	-	10,843	10,870	11,447	2,141	133	35,433	-	-	493	10,912	12,682	8,998	21	33,106
2013 <sup>c/</sup>	-	131	4,957	9,042	14,533	2,061	119	30,843	-	-	4,123	11,617	27,494	6,908	18	50,159

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.

**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	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks				
1971-1975	58,462	18,289	40,221	9,745	10,877	1,615	41,726	3,695	92,824	15,055	151,286	33,345	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	20,466	15,096	35,656	11,633	6,917	2,204	13,432	7,888	56,005	21,725	76,471	36,821	2,527	4,214	78,998	41,035
2012	67,190	7,125	57,507	6,142	6,009	1,722	32,459	2,441	95,975	10,305	163,165	17,430	10,852	2,848	174,017	20,278
2013 <sup>f/</sup>	88,808	5,732	145,650	5,559	13,853	1,055	52,465	1,804	211,968	8,418	300,776	14,150	12,990	1,786	313,766	15,936

a/ Most estimates based on carcass surveys with a jack length cut-off. In 2004, CDFW 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	19,312	23,068	15,925	16,691	7,634	8,963	42,871	48,722	2,409	13,513	99	338	2,508	13,851	45,379	62,573
2012	77,318	8,198	33,628	8,533	11,318	1,862	122,264	18,593	4,430	2,190	628	372	5,058	2,562	127,322	21,155
2013 <sup>e/</sup>	67,294	2,379	24,893	2,381	11,703	1,338	103,890	6,098	3,687	1,483	918	180	4,605	1,663	108,495	7,761
GOALS <sup>f/</sup>	12,000	-	6,000	-	4,000	-	22,000	-	5,000	-	1,000	-	6,000	-	28,000	-

a/ In 2004, CDFW 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>		Sacramento River <sup>a/f/</sup>		Feather River <sup>g/</sup>
Adults			Jacks	Adults	Jacks	Adults	Jacks	Adults and Jacks <sup>h/</sup>	Adults	Jacks	Adults
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
1996-2000	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	l/	l/	4,363	53	3,517 <sup>j/</sup>	l/	l/	867 <sup>k/</sup>	122 <sup>k/</sup>
2010	8,894	1,001	l/	l/	1,555	41	2,951 <sup>j/</sup>	l/	l/	1,655 <sup>k/</sup>	6 <sup>k/</sup>
2011	7,129	1,161	l/	l/	637	187	5,547 <sup>j/</sup>	l/	l/	1,831 <sup>k/</sup>	138 <sup>k/</sup>
2012	5,097	895	m/	m/	2,529	145	18,694 <sup>j/</sup>	m/	m/	3,510 <sup>k/</sup>	228 <sup>k/</sup>
2013 <sup>n/</sup>	8,315	637	m/	m/	5,653 <sup>o/</sup>	469	18,507 <sup>j/</sup>	m/	m/	4,247 <sup>k/</sup>	6 <sup>k/</sup>

a/ Jacks and adults based on sampling at Red Bluff Diversion Dam (RBDD) from unpublished CDFW data. Beginning in 1987 for late-fall and winter run, estimates 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/ Estimates of late-fall and winter run includes Chinook trapped at Keswick Dam for use as broodstock 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, the 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 spawners at Coleman Hatchery 1991-97. No data available for natural spawners, RBDD gates were raised during 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 implemented in 2005. Fish arriving 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 during the spring Chinook spawning

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

m/ RBDD gates were permanently removed on September 1, 2012; thus RBDD winter and spring run estimates are no longer available.

n/ Preliminary.

o/ Includes 47 adults that were transferred from the Colusa Basin Drain to Livingston Stone Hatchery for use as broodstock.

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	1,974	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	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	Adults	101,977	26,353	4,147	30,500	2,377	8,490	17,973	26,463	13,847	28,790	42,637	22,337	46,763	69,100
	Jacks	84,895	1,322	9,981	11,303	319	9,549	24,746	34,295	1,875	37,103	38,978	11,424	61,849	73,273
2012	Adults	291,877	95,386	13,925	109,311	8,579	38,478	69,340	107,818	17,461	48,707	66,168	55,939	118,047	173,986
	Jacks	21,070	177	3,858	4,035	94	1,537	7,931	9,468	92	7,381	7,473	1,629	15,312	16,941
2013 <sup>b/</sup>	Adults	165,140	62,774	19,728	82,502	5,862	13,432	31,962	45,394	3,717	27,665	31,382	17,149	59,627	76,776
	Jacks	14,398	256	2,259	2,515	68	1,322	3,289	4,611	135	7,069	7,204	1,457	10,358	11,815
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<sub>MSY</sub> 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
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	Commercial:Estuary	1	32	33	373	14,963	15,336
	Middle Klamath	0	0	0	28	255	283
	Subsistence:Estuary	8	402	410	60	2,404	2,464
	Middle Klamath	12	1,242	1,254	238	2,177	2,415
	Upper Klamath	9	909	918	227	2,070	2,297
	Trinity River	108	2,282	2,390	323	4,966	5,289
	<b>Total</b>	<b>137</b>	<b>4,867</b>	<b>5,005</b>	<b>1,248</b>	<b>26,836</b>	<b>28,084</b>
2012	Commercial:Estuary	0	856	856	0	80,727	80,727
	Middle Klamath	0	0	0	0	156	156
	Subsistence:Estuary	21	799	820	68	7,020	7,088
	Middle Klamath	3	892	895	26	1,498	1,524
	Upper Klamath	9	1,042	1,051	28	1,840	1,868
	Trinity River	21	2,647	2,668	55	4,145	4,200
	<b>Total</b>	<b>54</b>	<b>6,236</b>	<b>6,290</b>	<b>177</b>	<b>95,386</b>	<b>95,563</b>
2013 <sup>b/</sup>	Commercial:Estuary	0	962	962	0	51,390	51,390
	Middle Klamath	0	9	9	0	56	56
	Subsistence:Estuary	7	2,327	2,334	200	5,708	5,908
	Middle Klamath	0	110	110	12	919	931
	Upper Klamath	0	336	336	28	1,682	1,710
	Trinity River	19	1,202	1,221	16	3,019	3,035
	<b>Total</b>	<b>26</b>	<b>4,946</b>	<b>4,972</b>	<b>256</b>	<b>62,774</b>	<b>63,030</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	213	11,175	3,019	2,502	3,674	1,819
2012	27,600	1,944	7,569	1,783	3,561	829
2013 <sup>h/</sup>	6,925	1,096	4,037	587	2,240	240

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- present 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)		Sprowl 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/</sup>	108	1	60	221	101	3,119	130
2012-2013 <sup>i/</sup>	77	1	280	29	226	6,697	239
2013-2014 <sup>i/j/k/</sup>	0	2	0	0	0	2,895	161 <sup>l/</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 may be 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, Sprowl, and Tomki creeks.

i/ Cañon and Sprowl creek totals exclude fish unidentifiable to species due to poor visibility or advanced decomposition.

j/ Preliminary data.

k/ Extremely low flows created passage barriers that precluded or severely limited salmon access to surveyed tributaries.

l/ Redd counts as of February 11, 2014.

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	11 <sup>a/</sup>	2 <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	12	2	49	6	17	3	35	5
2012	8	2	72	11	5	2	39	7
2013 <sup>b/</sup>	10	5	38	11	3	1	23	8

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 <sup>b/</sup>	Hatchery	Total	Jacks <sup>c/</sup>	Natural	Hatchery	Total	Jacks <sup>c/</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	9.9	NA	NA	NA	8.9	7.7	16.6	5.4
2012	14.4	NA	NA	NA	8.2	8.4	16.7	3.6
2013 <sup>c/</sup>	NA	NA	NA	NA	NA	NA	12.6	2.6

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

b/ 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.

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

d/ Preliminary.

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

Year or Avg.	Carcass Counts		
	Adults	Jacks	Total
1977	1,356	2,389	3,745
1978	9,174	1,019	10,193
1979	8,272	195	8,467
1980	2,221	411	2,632
1981	5,228	1,171	6,399
1982	2,812	708	3,520
1983	2,737	271	3,008
1984	3,267	396	3,663
1985	5,486	2,500	7,986
1986	17,177	3,223	20,400
1987	25,918	2,532	28,450
1988	31,613	1,352	32,965
1989	7,408	481	7,889
1990	1,868	46	1,914
1991	2,799	157	2,956
1992	2,366	464	2,830
1993	5,447	257	5,704
1994	7,366	529	7,895
1995	3,958	173	4,131
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>	-	-	-
2012	-	-	-
2013 <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	Adults
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	164	5	96	4	15	1	29	0	a/	a/	46	2	329	21	53	1	a/	a/	109	5	
2012	144	3	38	2	34	0	57	3	a/	a/	56	4	611	17	38	1	a/	a/	146	4	
2013 <sup>b/</sup>	384	10	89	2	78	3	47	2	166	9	41	3	625	6	156	20	a/	a/	189	7	

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	2,300	66,039	18,180	32,580	4,920	6,801	5,870	1,976	23,700		
1996	54,241	149	0	33,358	6,100	20,400	3,801	1,787	1,730	627	15,900		
1997	53,345	300	0	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	0	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	149,981	7,900	5,800	120,164	10,800	83,100	5,905	5,215	3,514	2,932	58,300		
2003	163,300	1,900	8,200	123,352	13,500	87,600	5,615	15,954	5,040	4,556	45,626		
2004	195,837	8,500	7,500	143,242	12,000	95,200	12,680	16,511	7,475	4,286	67,791		
2005	85,971	3,400	4,400	59,495	5,800	35,453	7,668	9,379	3,512	3,367	33,102		
2006	90,992	3,000	2,900	59,311	7,200	36,851	4,382	6,963	7,301	5,458	34,428		
2007	69,259	1,900	2,600	39,943	5,700	22,818	2,813	3,975	7,596	8,030	29,375		
2008	44,185	100	700	27,016	4,600	14,151	5,852	2,986	2,215	1,623	15,757		
2009	53,624	349	2,000	39,400	4,500	25,795	2,375	5,977	1,493	404	18,805		
2010	156,016	3,349	6,200	110,500	22,700	65,293	7,516	8,830	2,337	918	48,591		
2011	105,346	2,349	2,500	80,254	22,800	43,748	5,421	5,834	1,311	778	32,754		
2012	96,265	2,349	3,700	65,115	15,800	35,899	5,337	12,617	1,839	862	32,320		
2013 <sup>e/</sup>	148,051	1,800	1,798	44,480	6,925	27,897	5,750	9,536	1,597	1,014	26,536		

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	925	1,024	2,545	7,508	10,787	4,853	3,217	11,599
1986-1990	108,167	2,378	1,356	104,433	3,366	186	6,771	19,648	10,192	5,928	3,042	19,384
1991-1995	63,404	511	710	62,183	1,227	15	3,730	7,097	7,015	5,750	1,422	11,429
1996	55,552	46	10	55,496	40	0	2,911	3,179	3,806	1,751	353	5,079
1997	124,321	53	16	124,252	7,387	14	8,309	39,509	5,215	4,809	696	27,245
1998	44,308	27	14	44,267	1,679	1	2,224	6,928	7,366	2,473	343	8,537
1999	43,067	28	16	43,023	211	1	1,983	3,703	2,856	3,161	297	5,721
2000	186,715	251	124	186,340	11,497	1,379	9,973	29,568	8,255	12,783	829	21,418
2001	440,336	2,538	22,719	415,079	57,745	43,790	10,985	141,121	45,337	31,329	4,315	49,991
2002	335,214	10,151	16,268	308,795	28,452	24,257	9,208	67,312	30,248	18,706	1,658	33,809
2003	242,605	3,493	9,611	229,501	23,532	9,205	9,090	54,951	32,365	11,677	1,184	24,526
2004	221,675	6,233	17,146	198,296	25,349	8,370	9,114	58,624	21,401	9,566	1,689	26,694
2005	106,911	2,289	7,235	97,387	7,017	1	6,163	22,932	10,127	13,342	2,786	19,547
2006	132,583	2,238	4,187	126,158	5,133	0	8,401	20,248	9,483	10,425	1,089	16,894
2007	86,247	1,491	3,927	80,829	6,742	3	5,624	23,308	7,100	10,296	877	15,759
2008	178,629	6,292	19,612	151,895	22,084	12,314	9,077	55,587	17,587	19,372	1,087	35,284
2009	169,296	4,543	15,246	147,489	18,678	0	13,101	49,836	14,957	16,428	1,666	30,392
2010	315,345	9,281	23,535	277,389	43,631	25,008	17,946	97,770	26,643	22,529	2,071	52,242
2011	221,158	3,930	9,506	205,431	28,334	7	15,526	72,262	24,562	16,588	3,126	28,898
2012	203,090	4,821	10,422	186,448	24,535	820	16,881	54,701	25,681	11,491	3,385	23,106
2013 <sup>f/</sup>	123,136	1,852	5,342	112,934	8,138	0	9,282	29,538	14,573	8,451	2,102	15,940
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/ Includes below Bonneville Dam C&S starting in 2008.

e/ 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.

f/ 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.

g/ Preliminary.

h/ 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	-	22,239	-	38	1,047	16,326
1981-1985	16,709	55	-	16,654	-	304	669	10,010
1986-1990	21,036	71	8	20,957	-	708	194	14,563
1991-1995	12,984	30	15	12,939	-	-	227	10,748
1996	12,080	15	34	12,031	0	0	374	9,417
1997	17,709	6	16	17,687	0	0	270	10,063
1998	15,536	1	27	15,508	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	64,155	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	447	15,569	0 <sup>e/</sup>	47,220
2011	80,574	5,004	5,576	69,994	208	20,645	0 <sup>e/</sup>	44,432
2012	58,300	1,715	3,281	53,304	81	7,824	0 <sup>e/</sup>	52,184
2013 <sup>f/</sup>	67,570	1,954	2,058	63,508	10	13,272	0 <sup>e/</sup>	68,380
GOAL	29,000 <sup>g/</sup>							12,143 <sup>h/</sup>

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-and-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	114,666	58,824	11,236	3,299	4,843	45,279
2011	70,578	53,655	28,801	12,678	1,242	10,283	17,092
2012	56,766	48,350	14,223	7,997	3,191	5,063	26,255
2013 <sup>d/</sup>	69,000	49,790	23,490	14,070	2,940	4,710	21,590
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	108,961	223	15,417	17,248	28,334	47,735
2012	84,797	457	14,996	17,481	21,556	30,303
2013 <sup>e/</sup>	90,690	0	13,860	12,700	26,780	37,350
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	15,180	0	674	3,636	10,601	269
2012	16,240	0	2,320	2,480	11,430	0
2013 <sup>c/</sup>	16,240	0	2,320	2,480	11,430	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 Esc. <sup>c/</sup>	Upper Columbia Esc. <sup>d/</sup>	Hatchery	Deschutes above/below Sheares <sup>e/</sup>		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	4,257
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	3,329
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	5,177
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	4,669
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	3,742
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	3,930
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	4,977
2010	324,908	300,319	59,115	13,536	24,624	163,998	114,230	28,684	9,275	146,924	46,541	41,815	7,995
2011	322,233	280,377	80,288	22,215	34,172	119,959	93,510	44,136	17,117	161,191	31,405	25,249	8,778
2012	294,947	258,790	61,422	16,895	39,338	122,576	94,925	51,326	17,624	173,472	38,830	34,688	12,797
2013 <sup>g/</sup>	832,500	731,870	249,750	63,320	41,820	406,910	293,000	56,441	NA	454,991	57,850	56,565	21,110
GOAL							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/ Deschutes esc. time series revised in 2010 to match Deschutes R. Chinook Spawner Esc. Goal using U.S. v. OR Tech. Advisory Comm. 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 esc. of 60,000 beginning in 2008. Starting in 1994, inriver fisheries were managed 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	8,800	4,800	2,000	700	0	0	2,900	
1983	14,400	8,100	2,700	1,100	100	0	4,900	
1984	11,800	5,100	1,600	3,200	200	0	3,200	
1985	6,100	1,700	1,200	1,700	100	0	2,800	
1986	17,400	8,400	5,900	6,500	400	300	2,300	
1987	57,000	26,100	16,000	24,400	1,400	4,700	6,500	
1988	78,000	30,900	21,900	37,900	2,800	5,900	8,500	
1989	93,100	32,000	21,900	46,200	3,700	5,000	14,100	
1990	58,970	26,500	15,738	17,734	3,087	5,366	14,569	
1991	35,386	18,300	6,870	9,069	1,121	5,586	10,282	
1992	31,105	16,800	5,144	5,558	1,837	6,838	9,590	
1993	27,439	16,700	6,872	4,833	1,385	4,352	7,853	
1994	33,712	21,500	4,677	1,209	931	12,192	11,411	
1995	34,120	23,500	6,505	85	2,834	7,665	14,019	
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	87,262	58,775	27,569	7,596	10,275	12,399	24,923	
2012	61,851	47,470	15,682	4,517	11,152	12,860	17,052	
2013 <sup>d/</sup>	163,600	113,710	35,070	16,340	16,590	39,870	43,946	
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 or Avg.	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	-	513	1,024	--	2,545	22,726	8,197	34,492
'86-'90	283,730	39,688	h/	5,686	-	14,138	104,433	-	2,615	186	--	6,771	48,740	14,138	69,835
'91-'95	182,871	33,201	h/	3,010	376	4,042	62,183	-	453	15	--	3,730	37,437	4,343	45,525
'96-'00	149,830	12,669	h/	93	2,664	430	90,676	-	3,923	279	--	5,080	16,925	3,094	25,378
2001	541,002	17,199	h/	27,014	9,269	5,279	415,079	3,017	54,728	22,019	21,696	10,985	101,958	14,548	171,206
2002	485,195	28,551	h/	22,045	11,699	17,407	308,795	2,815	25,637	17,930	6,324	9,208	79,049	29,106	141,616
2003	405,905	32,603	h/	17,781	7,806	4,658	229,501	2,416	21,116	6,363	2,842	9,090	73,916	12,464	104,675
2004	417,512	35,338	h/	24,638	10,562	14,489	198,296	2,875	22,474	5,256	3,114	9,114	85,325	25,051	127,861
2005	192,882	15,955	h/	11,635	2,406	5,647	97,387	473	6,544	1	0	6,163	34,607	8,053	48,824
2006	223,575	18,623	h/	7,087	7,245	5,106	126,158	1,447	3,686	0	0	8,401	30,843	12,351	51,595
2007	155,506	14,608	h/	6,527	6,774	3,336	80,829	1,780	4,962	3	0	5,624	27,877	10,110	43,614
2008	222,814	7,284	h/	20,312	4,486	6,007	151,895	2,772	19,312	12,314	0	9,077	49,680	10,493	81,564
2009	222,920	10,257	h/	17,246	4,175	4,521	147,489	1,311	17,367	0	0	13,101	46,181	8,696	67,977
2010	471,361	35,914	h/	29,735	24,892	10,807	277,389	6,027	37,604	25,008	0	17,946	109,280	35,699	187,933
2011	326,504	31,971	h/	12,006	11,101	5,759	205,431	4,332	24,002	7	0	15,526	72,311	16,860	104,704
2012	326,504	31,971	h/	12,006	11,101	5,759	205,431	4,332	24,002	7	0	15,526	72,311	16,860	104,704
2013 <sup>h/</sup>	271,187	12,725	h/	7,140	8,064	3,297	112,934	932	7,206	0	0	9,282	28,003	11,361	48,646
<b>Summer Chinook<sup>g/h/</sup></b>															
'79-'80	22,320	-	-	-	-	81	22,239	-	-	38	--	1,047	0	81	1,165
'81-'85	16,709	-	-	-	-	55	16,654	-	-	304	--	669	0	55	1,028
'86-'90	21,036	-	-	8	-	71	20,957	-	-	1,180	--	194	8	71	980
'91-'95	12,984	-	-	15	-	30	12,939	-	-	-	--	227	15	30	271
'96-'00	17,957	-	-	29	-	5	17,924	-	-	-	--	317	343	5	665
2001	52,960	-	-	64	0	1	52,895	0	6,808	150	-	542	6,872	1	7,565
2002	89,524	-	-	1,447	0	8	88,069	113	7,469	74	-	2,019	9,028	8	11,129
2003	83,058	-	-	1,945	36	0	81,077	417	7,608	3,587	-	710	9,969	36	14,302
2004	65,623	-	-	1,246	3	219	64,155	261	7,890	8,004	-	390	9,396	222	18,012
2005	60,272	-	-	1,621	0	2,787	55,864	487	3,424	6,415	-	1,227	5,532	2,787	15,961
2006	77,573	-	-	4,926	9	4,819	67,819	346	5,431	15,771	-	548	10,703	4,828	31,850
2007	37,035	-	-	2,214	0	1,122	33,699	194	5,268	4,564	-	811	7,676	1,122	14,173
2008	55,532	-	-	2,140	59	1,370	51,963	1,072	4,651	8,317	-	712	7,863	1,429	18,321
2009	53,881	-	-	2,341	22	2,524	48,994	193	3,644	10,441	-	1,209	6,178	2,546	20,374
2010	72,346	-	-	2,738	20	4,720	64,638	447	5,859	15,569	-	230	9,044	4,740	29,583
2011	80,574	-	-	5,576	0	5,004	69,994	208	6,726	20,645	-	0	12,510	5,004	38,159
2012	58,300	-	-	3,281	23	1,692	53,304	81	7,239	7,824	-	0	10,601	1,715	20,140
2013 <sup>h/</sup>	67,570	-	-	2,058	0	1,954	63,508	10	6,355	13,272	-	125	8,423	1,954	23,774

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 or Avg.	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					
		Tributary <sup>d/</sup>	Buoy 10 Mainstem <sup>d/</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>	Non-Indian Total			
											Sport	Commercial			
<b>Fall Chinook<sup>h/</sup></b>															
'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	526	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	485	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	620,572	11,229	10,166	28,459	20,270	50,257	401,576	14,642	3,372	109,655	19,834	550	67,868	70,527	268,434
2012	525,369	7,888	18,441	24,740	18,751	36,195	350,047	18,416	6,171	78,154	50,954	832	75,656	54,946	260,542
2013 <sup>i/</sup>	1,182,292	8,240	23,080	32,710	22,010	95,730	953,221	13,890	--	185,382	48,903	66	77,920	117,740	430,011
<b>Total Chinook</b>															
'79-'80	496,338	13,253	-	1,728	20,800	39,608	213,891	651	--	16,581	--	2,760	15,306	59,608	94,254
'81-'85	524,355	23,726	7,176	3,761	8,560	53,742	235,764	2,090	513	50,216	--	8,239	32,959	62,302	153,716
'86-'90	908,480	46,071	20,641	9,813	16,059	196,025	384,197	6,576	2,703	119,758	4,765	12,656	85,803	212,085	431,256
'91-'95	436,121	36,741	6,224	5,658	1,531	18,765	220,611	4,924	1,037	33,424	4,732	4,482	53,339	20,295	116,272
'96-'00	463,384	14,067	6,906	8,888	5,583	7,781	317,435	5,324	6,160	38,676	21,746	5,881	41,345	13,364	121,012
2001	1,142,698	20,170	12,287	35,761	13,469	28,218	868,384	10,939	64,336	102,128	53,093	11,892	143,493	41,687	352,294
2002	1,308,059	36,340	18,273	44,727	19,598	51,843	871,512	14,099	39,046	114,281	40,242	11,684	152,485	71,441	390,133
2003	1,382,889	44,602	14,873	45,657	17,202	59,278	920,914	12,099	33,214	104,772	33,949	10,483	150,445	76,480	376,129
2004	1,282,160	43,717	15,201	42,852	22,965	55,081	845,720	13,433	34,579	125,093	18,493	9,920	149,781	78,046	381,334
2005	837,163	23,765	9,983	33,367	11,083	34,665	570,308	10,070	14,275	98,879	22,058	7,960	91,459	45,748	266,104
2006	723,582	25,675	1,620	25,460	12,076	33,069	493,138	6,929	13,086	74,613	18,849	9,340	72,770	45,145	220,716
2007	412,169	17,308	3,389	16,629	10,424	16,143	274,343	6,888	12,249	38,568	11,085	6,705	56,463	26,567	139,389
2008	727,330	10,783	7,764	33,333	17,040	35,055	518,853	10,866	26,610	111,599	18,055	9,829	89,356	52,095	280,934
2009	705,782	17,873	4,218	34,541	15,170	39,713	480,174	9,628	24,341	73,939	12,008	14,325	90,601	54,883	245,756
2010	1,200,790	43,988	6,473	49,422	43,049	46,239	809,551	20,001	46,770	159,024	13,029	18,203	166,654	89,288	446,197
2011	1,027,650	43,200	10,166	46,041	31,371	61,020	677,001	19,182	34,100	130,307	19,834	16,076	152,689	92,391	411,297
2012	910,173	39,859	18,441	40,027	29,875	43,646	608,782	22,829	37,412	85,985	50,954	16,358	158,569	73,521	385,387
2013 <sup>i/</sup>	1,521,049	20,965	23,080	41,908	30,074	100,981	1,129,663	14,832	13,561	198,654	48,903	9,473	114,346	131,055	502,431

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-and-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	705.0	392.2	82.3	13.9	147.6	5.8	46.3	5.5	40.7	11.5
1991-1995	315.1	115.8	55.9	10.7	96.0	3.7	23.6	2.0	21.6	6.1
1996	117.1	26.2	4.5	3.8	62.2	0.6	15.7	0.7	15.0	1.4
1997	156.4	20.4	20.4	11.6	69.7	2.8	24.2	0.6	23.6	4.4
1998	175.9	23.0	3.2	6.7	87.9	1.3	46.3	1.5	44.8	11.3
1999	289.1	79.1	9.0	19.9	124.5	1.0	40.7	2.3	38.4	10.0
2000	558.3	168.4	21.5	37.7	288.6	6.2	85.8	6.3	79.5	26.6
2001	1,128.3	253.1	132.0	78.0	377.3	8.2	259.8	5.4	254.4	80.6
2002	535.8	163.0	6.2	27.4	211.1	3.7	88.6	1.6	86.9	2.9
2003	713.2	257.3	54.4	23.6	205.4	11.2	125.7	5.8	120.0	3.9
2004	463.5	119.6	15.2	13.6	173.5	5.6	115.0	10.3	104.8	6.2
2005	354.7	94.8	6.9	10.5	142.3	3.3	83.3	4.9	78.5	2.3
2006	409.7	63.4	3.7	16.5	191.1	9.5	102.1	8.1	94.1	0.7
2007	349.0	40.3	8.4	24.2	161.0	10.5	92.5	8.0	84.5	2.0
2008	520.5	60.4	8.6	42.8	240.9	6.2	135.5	21.6	113.9	1.1
2009	759.5	124.2	48.1	39.8	260.4	32.3	244.9	8.9	236.0	2.4
2010	470.8	76.3	8.0	23.4	189.3	22.3	102.7	7.1	95.6	0.6
2011	383.2	62.3	7.6	24.7	108.3	8.7	146.5	33.3	113.2	0.6
2012	143.9	17.1	7.4	4.7	41.9	9.1	55.0	6.4	48.6	1.1
2013 <sup>g/</sup>	243.2	48.4	7.6	11.8	81.9	21.6	59.6	4.6	55.0	NA
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	49,409	10,919	7,614	0.38
2012	65,070	18,550	7,385	0.40
2013 <sup>f/</sup>	65,767	22,594	7,620	0.46

a/ Prior to 1982, Buoy 10 area catches were not estimated separately and are included in the Columbia River marine area (Cape Falcon to Leadbetter Pt.) recreational catches. Estimates include bank anglers fishing from Clatsop Spit in Oregon and from the North Jetty in Washington. Effort and catch for the North Jetty fishery applied to the ocean quota for the Columbia River area until the ocean fishery closed. 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	5,576	22,458	47,805
1991-1995	1,162	28,170	2,823	2,819	17,086	50,899
1996	-	37,065	3,024	2,153	12,079	54,321
1997	-	12,311	2,404	3,891	13,729	32,335
1998	-	6,877	2,178	3,114	4,677	16,846
1999	-	265	1,906	1,360	4,900	8,431
2000	-	5,922	1,399	2,303	10,455	20,079
2001	-	5,459	2,121	2,161	10,099	19,840
2002	36	9,416	2,543	1,729	13,680	27,368
2003	220	7,268	3,242	2,732	14,628	27,870
2004	-	4,349	3,889	2,838	21,444	32,520
2005	-	6,523	4,820	2,510	18,177	32,030
2006	-	12,334	5,551	4,258	24,209	46,352
2007	-	4,112	2,579	2,346	13,400	22,437
2008	-	3,595	2,988	1,900	14,891	23,374
2009	-	6,868	4,623	2,847	19,831	34,169
2010	-	6,903	3,303	3,395	23,468	37,069
2011 <sup>e/</sup>	1,857	17,059	8,349	3,119	28,367	56,894
2012 <sup>e/</sup>	2,216	7,510	5,957	2,158	22,457	38,082
2013 <sup>e/</sup>	2,572	11,432	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; WDFW goal is 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	46,058	2,181	3,567	26,640	77,019
1986-1990	69,058	2,591	NA	35,811	107,460
1991-1995	34,255	2,802	4,582	27,205	65,178
1996	38,322	4,052	15,711	69,940	128,025
1997	1,526	806	4,934	9,992	17,258
1998	13,141	852	13,807	9,701	37,501
1999	5,467	2,836	9,628	27,481	45,412
2000	10,326	1,780	23,031	34,651	69,788
2001	31,913	5,689	48,414	54,777	140,793
2002	59,435	5,685	58,703	48,984	172,807
2003	66,470	5,726	49,398	66,783	188,377
2004	16,533	2,361	38,672	19,624	77,190
2005	49,001	3,892	26,493	40,926	120,312
2006	19,948	806	12,563	7,866	41,183
2007	8,218	955	18,009	9,434	36,616
2008	16,699	1,167	16,419	11,009	45,294
2009	75,417	6,461	47,333	21,384	150,595
2010	28,568	5,096	84,565	31,269	149,498
2011 <sup>e/</sup>	48,173	5,680	26,122	25,284	105,259
2012 <sup>e/</sup>	25,891	5,030	20,024	15,513	66,458
2013 <sup>e/</sup>	11,545	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	0	2,563	-	2,573
2012 <sup>g/</sup>	-	-	6	201	59	878	-	1,144
2013 <sup>g/</sup>	-	-	31	NA	NA	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	20,730	1,319	38,522 <sup>i/</sup>
1991-1995	206	5,000	7,750	901	3,794	14,276	3,006	34,728 <sup>i/</sup>
1996	148	1,441	4,068	49	7,456	20,227	4,307	37,548 <sup>i/</sup>
1997	24	2,796	6,630	311	2,687	18,168	2,416	33,008 <sup>i/</sup>
1998	5	267	4,135	0	2,912	12,529	1,921	21,764 <sup>i/</sup>
1999	0	87	1,926	1	114	10,363	1,990	14,481 <sup>i/</sup>
2000	671	647	3,289	0	1,714	9,250	1,471	16,371
2001	0	2,523	3,885	0	3,210	9,491	1,375	20,484
2002	40	26	963	0	2,955	11,838	2,072	17,854
2003	0	295	851	0	1,031	19,417	2,438	24,032
2004	0	183	3,498	476	6,158	31,770	2,920	45,005
2005	0	379	2,260	NA	465	19,499	3,328	25,931
2006	0	195	3,738	NA	1,635	17,113	3,352	26,033
2007 <sup>g/</sup>	0	514	2,472	NA	1,719	12,440	1,745	18,890
2008 <sup>g/</sup>	0	717	1,878	NA	0	15,331	2,304	20,230
2009 <sup>g/</sup>	0	1,193	2,485	NA	860	8,358	1,798	14,694
2010 <sup>g/</sup>	0	1,495	3,403	NA	1,995	16,951	3,092	26,936
2011 <sup>g/</sup>	0	2,121	6,402	NA	3,049	20,317	3,360	35,249
2012 <sup>g/</sup>	0	1,579	3,988	NA	4,357	11,969	827	22,720
2013 <sup>g/</sup>	0	85	2,875	NA	NA	NA	NA	NA
<b>GOAL</b>						<b>11,388<sup>h/</sup></b>		

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/ Rec. catch estimates by WDFW reflect a catch record card bias correction factor of 0.833. Quinalt Indian Nation does not believe this factor is appropriate. 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	Sport <sup>a/</sup>	Natural	Hatchery	Natural	Hatchery	Total <sup>d/</sup>
1976-1980	5,231	9,675	3,510	2,021	29,510	10,207	44,430	17,933	61,088
1981-1985	5,299	15,614	2,865	5,012	36,847	18,094	40,320	42,604	82,924
1986-1990	7,715	30,109	1,817	5,355	44,836	31,479	48,207	73,099	121,307
1991-1995	12,502	29,186	2,609	10,503	36,485	32,017	49,285	74,407	123,692
1996	10,096	51,874	2,672	20,846	63,571	50,041	85,553	113,620	199,173
1997	115	5,395	125	1,547	22,470	13,008	19,512	23,068	42,580
1998	795	13,430	305	2,123	35,551	16,957	40,095	29,678	69,773
1999	1,674	12,061	68	4,507	33,348	27,518	37,709	41,970	79,679
2000	4,995	10,797	7	5,122	38,054	34,659	41,606	47,448	89,054
2001	3,152	15,520	82	20,868	80,100	85,826	75,062	126,704	201,766
2002	6,853	14,132	666	13,083	110,066	51,390	109,626	83,139	192,765
2003	6,623	12,041	1,000	12,026	84,952	72,913	92,653	97,635	190,288
2004	5,231	17,681	1,741	9,847	60,690	48,552	60,689	82,799	143,488
2005	3,073	23,260	2,286	10,919	38,585	50,227	41,786	86,922	128,708
2006	649	8,685	127	2,151	17,767	18,212	20,090	26,734	46,824
2007 <sup>e/</sup>	1,687	8,926	1,108	4,450	25,121	15,539	29,230	27,787	57,018
2008 <sup>e/</sup>	7,783	10,204	869	3,266	34,054	15,136	46,696	25,284	71,980
2009 <sup>e/</sup>	561	28,513	2,519	16,288	69,222	60,838	89,126	88,130	177,256
2010 <sup>e/</sup>	3,990	25,163	1,542	12,455	102,237	76,181	111,455	106,956	218,411
2011 <sup>e/</sup>	3,628	28,267	742	14,569	64,403	24,528	93,551	42,829	136,380
2012 <sup>e/</sup>	10,350	30,670	1,601	17,706	66,836	26,346	103,254	46,633	149,887
2013 <sup>e/</sup>	5,941	21,957	NA	NA	NA	0	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 brood stock.

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/ The MSH Escapement objective of 35,400 was used for preseason planning through the 2013 season.

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
2012 <sup>b/</sup>	15	5,090	3,426	1,193
2013 <sup>b/</sup>	20	7,148	3,834	969

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	19,302	12,785	33,577	41,680	75,257
2011 <sup>b/</sup>	38,431	1,481	1,570	26,588	19,131	41,759	43,420	85,179
2012 <sup>b/</sup>	19,166	656	674	13,026	5,383	23,171	15,514	38,684
2013 <sup>b/</sup>	20,477	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	-	373	-	373	-	373
2012 <sup>c/</sup>	-	0	-	760	-	760	-	760
2013 <sup>c/</sup>	-	<10	-	518	-	518	-	518
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	3,066	3,571	1,204	4,775
2002	2,887	69	20	2,598	4,385	1,186	5,571
2003	1,322	93	278	4,971	5,183	1,428	6,611
2004	1,228	93	370	5,173	4,846	2,018	6,864
2005	1,648	90	441	4,578	4,542	2,213	6,755
2006	1,079	57	71	3,059	3,262	1,004	4,266
2007	634	20	74	872	1,288	307	1,595
2008	1,020	41	0	3,105	3,510	698	4,208
2009	1,522	65	209	3,135	4,062	856	4,918
2010 <sup>e/</sup>	1,722	81	169	4,031	4,250	1,751	6,001
2011 <sup>e/</sup>	2,327	83	417	3,857	4,877	1,772	6,649
2012 <sup>e/</sup>	2,722	86	302	3,707	5,835	922	6,757
2013 <sup>e/</sup>	1,943	61	NA	3,706	3,978	868	4,846
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. Brood stock 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	1,381	944	11,261	0	10,326	18,283	0	20,954	39,237
2011 <sup>g/</sup>	16,641	1,204	1,521	8,588	0	12,887	15,350	0	19,812	35,162
2012 <sup>g/</sup>	6,118	373	527	4,285	0	1,270	7,743	0	3,270	11,013
2013 <sup>g/</sup>	4,515	218	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	703	274	977	
2009 <sup>d/e/</sup>	30	106	136	3	2	5	12	880	2	913	122	1,035	
2010 <sup>d/e/f/</sup>	24	83	107	0	0	0	6	828	0	852	89	941	
2011 <sup>d/e/f/</sup>	51	25	76	7	3	10	22	827	0	885	50	935	
2012 <sup>d/e/f/</sup>	135	263	398	9	11	20	36	915	1	1,059	311	1,370	
2013 <sup>d/e/f/</sup>	117	415	532	6	17	23	NA	750	0	873	432	1,305	
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 to retention of wild adult spring/summer Chinook through August 31 .

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	5,323	77	5,414
2006	586	30	204	1,535	0	2,336	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	2,747	21	2,788
2010	342	0	297	2,599	0	3,204	34	3,238
2011	528	0	400	1,293	0	2,163	58	2,221
2012 <sup>d/</sup>	586	10	237	1,800	0	2,633	74	2,707
2013 <sup>d/</sup>	1,531	10	NA	1,269	0	2,810	142	2,952
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	2,638	0	515	8,231	0	10,549	468	11,017
2011	3,418	0	1,210	8,043	0	12,463	208	12,671
2012 <sup>f/</sup>	1,663	10	444	4,179	0	5,774	78	5,852
2013 <sup>f/</sup>	4,597	20	NA	2,573	0	4,178	79	4,257
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	233	772	880	941	1,554	2,495
2011 <sup>e/f/</sup>	599	41	643	569	696	823	1,743	2,566
2012 <sup>e/f/</sup>	880	20	613	729	437	841	1,854	2,695
2013 <sup>e/f/</sup>	1,205	0	NA	948	528	1,140	1,577	2,717
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	553	4,635	0	6,985	18	7,003
2011 <sup>e/f/</sup>	1,972	3	868	3,963	0	6,765	41	6,806
2012 <sup>e/f/</sup>	2,842	0	382	3,518	0	6,706	36	6,742
2013 <sup>e/f/</sup>	2,001	0	NA	4,017	0	5,969	49	6,018
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	58	273	1,644	564	2,304	2,868
2011 <sup>f/g/</sup>	757	0	220	1,654	3,800	2,069	4,362	6,431
2012 <sup>f/g/</sup>	430	0	251	672	1,588	789	2,152	2,941
2013 <sup>f/g/</sup>	1,028	0	NA	451	2,504	863	3,120	3,983
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	3,537	9,837	23,325	23,901	39,935	63,836
2011 <sup>f/g/</sup>	21,983	11	3,955	8,070	22,487	20,887	35,634	56,521
2012 <sup>f/g/</sup>	11,051	1	1,317	5,846	2,276	15,421	5,070	20,490
2013 <sup>f/g/</sup>	12,611	0	NA	7,063	5,111	15,099	9,695	24,794
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	-	-	-	38	347	38	347	385
2010	-	-	-	322	471	322	471	793
2011	-	-	-	1,081	423	1,081	423	1,504
2012 <sup>c/</sup>	-	-	-	663	423	663	423	1,086
2013 <sup>c/</sup>	-	-	-	656	435	656	435	1,091
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	88,513	279,801	323	741,932	334,824
	Total	115,879	310,959	334	1,951,163	481,229
2003 <sup>c/</sup>	Non-Indian	8,567	18,105	683,393	764,132	90,618
	Treaty Indian	82,152	235,919	544,477	695,663	180,576
	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	96,261	533,188	698	1,057,299	140,074
	Total	101,303	572,669	702	2,231,594	221,105

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
2005 <sup>c/</sup>	Non-Indian	6,236	19,694	144,567	383,127	65,931
	Treaty Indian	93,776	287,037	206,435	354,831	144,445
	Total	100,012	306,731	351,002	737,958	210,376
2006 <sup>c/</sup>	Non-Indian	13,300	9,827	6	877,791	223,908
	Treaty Indian	104,956	259,779	411	790,603	548,661
	Total	118,256	269,606	417	1,668,394	772,569
2007 <sup>c/</sup>	Non-Indian	6,785	13,435	200,687	680,385	6,266
	Treaty Indian	120,252	209,137	301,847	782,804	6,327
	Total	127,037	222,572	502,534	1,463,189	12,593
2008 <sup>c/</sup>	Non-Indian	6,103	6,464	14	449,348	16,319
	Treaty Indian	103,181	227,273	744	575,947	44,865
	Total	109,284	233,737	758	1,025,295	61,184
2009 <sup>c/</sup>	Non-Indian	2,753	20,091	2,789,870	294,841	1,605
	Treaty Indian	86,786	259,528	1,948,562	354,963	2,949
	Total	89,539	279,619	4,738,432	649,804	4,554
2010 <sup>c/</sup>	Non-Indian	7,922	18,220	309	416,252	749,668
	Treaty Indian	87,510	153,683	1,759	545,795	1,222,590
	Total	95,432	171,903	2,068	962,047	1,972,258
2011 <sup>c/</sup>	Non-Indian	10,097	28,821	2,266,672	463,116	86,908
	Treaty Indian	100,798	223,800	2,264,446	600,149	198,299
	Total	110,895	252,621	4,531,118	1,063,265	285,207
2012 <sup>c/</sup>	Non-Indian	9,053	35,628	417	576,660	41,048
	Treaty Indian	113,691	355,839	1,233	577,610	89,865
	Total	122,744	391,467	1,650	1,154,270	130,913
2013 <sup>c/</sup>	Non-Indian	9,330	29,446	3,175,625	909,417	6,991
	Treaty Indian	108,484	298,147	2,682,149	813,067	23,862
	Total	117,814	327,593	5,857,774	1,722,484	30,853

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	32,422	21,400	4
2009	31,305	75,719	156,901
2010	28,306	20,290	27
2011 <sup>c/</sup>	27,507	56,775	142,781
2012 <sup>c/</sup>	47,897	176,881	29
2013 <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	58	127	185	811	1,450	2,261	869	1,577	2,446
1986-1990	135	455	590	1,276	4,755	6,031	1,411	5,210	6,621
1991-1995	70	110	179	979	2,390	3,369	1,048	2,500	3,548
1996-2000	9	16	25	1,193	2,236	3,429	1,201	2,252	3,454
2001-2005	6	11	17	1,448	2,606	4,055	1,454	2,618	4,071
2006	8	15	22	1,234	3,145	4,379	1,242	3,160	4,401
2007	3	4	7	769	1,353	2,122	772	1,357	2,129
2008	11	22	34	683	1,182	1,865	694	1,204	1,899
2009	1	10	12	1,530	1,254	2,784	1,531	1,264	2,796
2010	10	21	31	737	1,781	2,518	747	1,802	2,549
2011 <sup>d/</sup>	6	16	22	737	2,833	3,570	743	2,849	3,592
2012 <sup>d/</sup>	8	11	19	1,158	2,095	3,253	1,166	2,107	3,272
2013 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL						5,300			
<b>Nooksack-Samish</b>									
1981-1985	54,062	33,672	87,734	16,083	6,562	22,645	70,145	40,234	110,379
1986-1990	38,059	26,262	64,320	10,729	4,113	14,841	48,787	30,374	79,161
1991-1995	18,213	2,303	20,516	8,646	740	9,386	26,859	3,042	29,901
1996-2000	20,321	4,648	24,969	8,263	2,623	10,886	28,584	7,271	35,855
2001-2005	10,456	15,539	25,995	3,909	7,155	11,064	14,365	22,694	37,059
2006	14,058	11,323	25,381	3,856	2,699	6,555	17,914	14,022	31,936
2007	8,479	9,069	17,548	4,452	4,535	8,987	12,931	13,604	26,535
2008	11,447	7,890	19,337	6,270	3,516	9,786	17,717	11,406	29,123
2009	4,113	7,238	11,351	3,494	6,054	9,548	7,607	13,292	20,899
2010	17,327	1,754	19,081	15,872	865	16,737	33,199	2,619	35,818
2011 <sup>d/</sup>	21,054	3,336	24,390	8,506	378	8,884	29,560	3,714	33,274
2012 <sup>d/</sup>	22,884	2,132	25,015	6,635	445	7,080	29,519	2,577	32,095
2013 <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	597	9,183	9,780	787	11,109	11,896	1,384	20,292	21,676
1986-1990	251	4,039	4,290	815	12,398	13,213	1,066	16,437	17,503
1991-1995	464	1,586	2,049	2,402	6,280	8,682	2,866	7,865	10,731
1996-2000	10	463	473	316	10,390	10,705	326	10,852	11,179
2001-2005	12	806	818	221	17,503	17,725	233	18,310	18,543
2006	30	1,695	1,725	368	20,768	21,136	398	22,463	22,861
2007	54	1,657	1,712	370	11,281	11,651	424	12,938	13,363
2008	47	3,309	3,355	164	11,664	11,828	211	14,973	15,183
2009	57	5,142	5,199	77	6,979	7,056	134	12,121	12,255
2010	15	1,678	1,693	70	8,017	8,087	85	9,695	9,780
2011 <sup>d/</sup>	44	3,668	3,712	67	5,537	5,604	111	9,205	9,316
2012 <sup>d/</sup>	12	1,940	1,952	82	13,817	13,899	94	15,757	15,851
2013 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					14,900				
<b>Hood Canal</b>									
1981-1985	4,925	3,665	8,590	3,786	2,038	5,823	8,710	5,703	14,413
1986-1990	10,589	4,994	15,583	6,188	2,006	8,194	16,777	7,000	23,777
1991-1995	1,839	1,038	2,877	3,945	1,409	5,354	5,784	2,447	8,231
1996-2000	3,629	80	3,708	11,001	1,577	12,578	14,630	1,656	16,286
2001-2005	17,422	592	18,015	15,116	2,535	17,652	32,539	3,128	35,667
2006 <sup>d/</sup>	21,860	690	22,550	15,749	1,553	17,302	37,609	2,243	39,852
2007 <sup>d/</sup>	15,254	386	15,639	16,231	663	16,894	31,485	1,049	32,533
2008 <sup>d/</sup>	16,092	707	16,799	14,813	1,439	16,252	30,905	2,146	33,051
2009 <sup>d/</sup>	20,493	688	21,180	15,281	1,341	16,622	35,774	2,029	37,802
2010 <sup>d/</sup>	21,419	1,096	22,514	13,956	1,341	15,297	35,375	2,437	37,811
2011 <sup>d/</sup>	34,687	1,365	36,052	15,499	1,652	17,151	50,186	3,017	53,203
2012 <sup>d/</sup>	58,321	1,753	60,075	28,256	2,000	30,256	86,577	3,753	90,331
2013 <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	3,253	7,497	10,750	1,990	4,901	6,891	5,244	12,397	17,641
1986-1990	3,840	3,698	7,538	1,148	5,210	6,358	4,988	8,908	13,897
1991-1995	4,277	1,359	5,636	2,253	4,371	6,624	6,530	5,731	12,260
1996-2000	5,924	4,281	10,204	5,543	6,813	12,357	11,467	11,094	22,561
2001-2005	2,945	3,974	6,919	3,757	8,463	12,220	6,702	12,437	19,139
2006	5,304	576	5,880	4,017	9,562	13,579	9,321	10,138	19,459
2007	5,752	284	6,036	6,222	4,769	10,991	11,974	5,053	17,027
2008	3,577	157	3,734	5,720	10,155	15,875	9,297	10,312	19,609
2009	1,245	73	1,318	2,422	3,323	5,745	3,667	3,396	7,063
2010	2,774	167	2,941	3,281	5,168	8,449	6,055	5,335	11,390
2011 <sup>d/</sup>	4,157	199	4,356	3,665	3,040	6,705	7,822	3,239	11,061
2012 <sup>d/</sup>	403	48	450	6,353	5,458	11,811	6,756	5,506	12,261
2013 <sup>d/</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
GOAL					7,300				
<b>South Puget Sound</b>									
1981-1985	23,472	8,740	32,213	23,341	6,371	29,712	46,813	15,111	61,925
1986-1990	30,029	22,654	52,684	36,997	18,108	55,106	67,027	40,762	107,789
1991-1995	21,860	13,438	35,298	30,556	14,488	45,044	52,416	27,926	80,342
1996-2000	15,271	10,535	25,805	36,157	23,280	59,437	51,428	33,815	85,243
2001-2005	23,522	13,889	37,411	46,563	23,647	70,209	70,085	37,536	107,621
2006	41,379	16,112	57,491	63,541	22,691	86,232	104,920	38,803	143,723
2007	64,809	13,785	78,594	75,549	16,275	91,824	140,358	30,060	170,418
2008	45,104	20,327	65,431	47,042	15,661	62,703	92,146	35,989	128,134
2009	33,327	6,150	39,478	38,486	7,671	46,157	71,813	13,821	85,634
2010	29,094	6,519	35,613	50,157	9,290	59,447	79,251	15,809	95,060
2011 <sup>d/</sup>	26,188	11,413	37,601	40,935	9,178	50,113	67,123	20,591	87,714
2012 <sup>d/</sup>	22,168	5,838	28,006	39,753	17,165	56,918	61,921	23,003	84,924
2013 <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>Straits 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>	4,544	17,068	21,612	9,869	43,042	52,911	15,690	65,685	81,375
2012 <sup>d/</sup>	4,152	1,197	5,349	5,554	14,951	20,505	10,407	16,369	26,776
2013 <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>	59,100	9,723	68,823	15,817	2,228	18,045	76,261	12,312	88,573
2012 <sup>d/</sup>	43,571	16,197	59,768	16,726	9,600	26,326	62,885	25,825	88,710
2013 <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>	4,544	17,068	21,612	9,869	43,042	52,911	15,690	65,685	81,375
2012 <sup>d/</sup>	2,452	17,756	20,208	10,633	97,151	107,784	13,819	122,470	136,289
2013 <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>	41,233	33,427	74,660	19,074	24,844	43,918	68,033	61,318	129,351
2012 <sup>d/</sup>	45,491	47,398	92,889	16,419	25,129	41,548	69,322	76,207	145,529
2013 <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>	19	6,171	6,190	155	49,991	50,146	183	59,021	59,204
2012 <sup>d/</sup>	17	3,708	3,725	101	45,156	45,257	154	52,518	52,672
2013 <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>	5,300	9,923	15,223	7,747	111,374	119,121	13,743	131,275	145,018
2012 <sup>d/</sup>	43,106	9,059	52,165	10,441	130,637	141,078	56,904	153,123	210,027
2013 <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>	6,357	10,698	17,055	50,190	34,944	85,134	87,897	64,552	152,449
2012 <sup>d/</sup>	96,887	37,766	134,653	93,097	38,803	131,900	217,090	92,834	309,924
2013 <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>	0	1,897	1,897	0	27,615	27,615	0	29,512	29,512
2013 <sup>d/</sup>	0	1,897	1,897	0	27,615	27,615	0	29,512	29,512
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>	51	9,670	9,721	293	55,324	55,617	344	64,994	65,338
2013 <sup>d/</sup>	51	9,670	9,721	293	55,324	55,617	344	64,994	65,338
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>	0	83,996	83,996	0	1,222,431	1,222,431	0	1,306,427	1,306,427
2013 <sup>d/</sup>	0	83,996	83,996	0	1,222,431	1,222,431	0	1,306,427	1,306,427
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>	1,453	1,038	2,492	21,165	15,106	36,271	22,618	16,144	38,763
2013 <sup>d/</sup>	1,453	1,038	2,492	21,165	15,106	36,271	22,618	16,144	38,763
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>	0	508,424	508,424	0	616,735	616,735	0	1,125,159	1,125,159
2013 <sup>d/</sup>	0	508,424	508,424	0	616,735	616,735	0	1,125,159	1,125,159
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>	0	214,790	214,790	0	2,490,946	2,490,946	0	2,705,736	2,705,736
2013 <sup>d/f/g/</sup>	0	214,790	214,790	0	2,490,946	2,490,946	0	2,705,736	2,705,736
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>  
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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 total 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	288	1,550	4
2000	1,102	1,021	2,052	1,242	373	2,363	0
2001	1,566	1,856	5,363	2,185	420	5,690	0
2002 <sup>e/</sup>	1,663	1,065	5,649	3,741	625	1,780	0
2003 <sup>e/</sup>	1,545	844	5,046	2,857	570	2,760	0
2004 <sup>e/</sup>	3,107	1,575	3,501	1,719	170	1,115	0
2005 <sup>e/</sup>	2,258	1,246	1,569	2,047	230	2,061	0
2006 <sup>e/</sup>	1,487	1,896	732	1,184	515	4,321	0
2007 <sup>e/</sup>	1,931	613	665	1,438	323	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	812	1,903	453	2,640	0
2010 <sup>e/</sup>	1,371	1,361	1,279	2,044	548	2,623	0
2011 <sup>e/</sup>	1,301	825	1,404	865	NA	3,086	0
2012 <sup>e/</sup>	1,579	NA	1,215	NA	NA	4,132	0
2013 <sup>e/</sup>	1,256	NA	2,236	NA	NA	6,911	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 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 2013 EVENTS**

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TABLE C-1. Summary of actual California commercial salmon seasons in state and federal (EEZ) waters.<sup>a/</sup> (Page 1 of 5)

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.
	Horse Mt. to Pt. Arena	May 1-31	-	31	-	26	-	150 Chinook per vessel per day landing limit.
		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.<sup>a/</sup> (Page 2 of 5)

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	-	-	-	-	-	4,000 Chinook quota; 30 Chinook per vessel per day landing limit. 75 Chinook per vessel per week landing limit. 20,000 Chinook quota. 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.<sup>a/</sup> (Page 3 of 5)

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	
<b>2007</b>	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	-	
<b>2008</b>	OR/CA Border to U.S./Mexico Border	Closed	-	-	-	-	-	
<b>2009</b>	OR/CA Border to U.S./Mexico Border	Closed	-	-	-	-	-	
<b>2010</b>	OR/CA Border to Humboldt South Jetty	Closed	-	-	-	-	-	
	Horse Mt. to Pt. Arena	July 1-4, 8-11	-	8	-	27	-	
		July 15-29	-	15	-	27	-	18,000 Chinook quota.
		Aug. 1-31	-	31	-	27	-	9,375 Chinook quota.
	Pt. Arena to U.S./Mexico Border	July 1-4, 8-11	-	8	-	27	-	
<b>2011</b>	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.

TABLE C-1. Summary of actual California commercial salmon seasons in state and Federal (EEZ) waters.<sup>a/</sup> (Page 4 of 5)

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 cont.	Horse Mt. to Pt. Arena	July 23-27,	-	67	-	27	-	
		July 29-Aug.29, Sept. 1-30						
	Pt. Arena to Pt. Sur	May 1-31	-	31	-	27	-	
		June 25-July 5	-	11	-	27	-	
		July 9-13, 16-20, 23-27	-	15	-	27	-	
		July 29-Aug. 29	-	32	-	27	-	
	Pt. Reyes to Pt. San Pedro	Sept. 1-30	-	30	-	27	-	
		Oct. 3-7, 10-14	-	10	-	27	-	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 fish must be landed south of Pt. San Pedro.
		June 25-July 5	-	11	-	27	-	
		July 9-13, 16-20, 23-27	-	15	-	27	-	
2012	OR/CA Border to Humboldt South Jetty	July 29-Aug. 29	-	32	-	27	-	
		Sept. 15-19	-	5	-	27	-	6,000 Chinook quota; 25 Chinook per vessel per day landing limit. All fish must be landed within the area.
	Horse Mt. to Pt. Arena	July 11-Aug.29	-	50	-	27	-	
		Sept. 1-30	-	30	-	27	-	All fish caught in the area must be landed north of Pt. Arena. When the California KMZ fishery is open, all fish must be landed between Horse Mt. and Pt. Arena.
	Pt. Arena to Pt. Sur	May 1-June 4	-	35	-	27	-	
		June 27-Aug. 29	-	64	-	27	-	
		Sept. 1-30	-	30	-	26	-	All fish caught in the area must be landed south of Pt. Arena.
	Pt. Reyes to Pt. San Pedro	Oct. 1-5, 8-12	-	10	-	26	-	All fish must be landed between Pt. Arena and Pigeon Pt.
	Pt. Sur to U.S./Mexico Border	May 1-June 4	-	35	-	27	-	
		June 5-26	-	22	-	27	-	All fish must be landed south of Pt. San Pedro.
		June 27-Aug. 29	-	64	-	27	-	
		Sept. 1-30	-	30	-	26	-	All fish caught in the area must be landed south of Pt. Arena.

TABLE C-1. Summary of actual California commercial salmon seasons in state and Federal (EEZ) waters.<sup>a/</sup> (Page 5 of 5)

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	
2013 <sup>b/</sup>	OR/CA Border to Humboldt South Jetty	May 1-10	-	10	-	27	-	3,000 Chinook quota; 20 Chinook per vessel per day landing limit.
		June 1-9, 11	-	10	-	27	-	3,352 Chinook quota; 20 Chinook per vessel per day landing limit.
		July 15-21	-	7	-	27	-	2,547 Chinook quota; 20 Chinook per vessel per day landing limit.
		Aug. 1-3	-	3	-	27	-	1,692 Chinook quota; 20 Chinook per vessel per day landing limit.
		Sept. 16-30	-	15	-	27	-	6,000 Chinook quota; 20 Chinook per vessel per day landing limit.
	Horse Mt. to Pt. Arena	May 22-31	-	10	-	27	-	All fish caught in the area must be landed south of Horse Mtn. whenever KMZ quota fishery is open during May through Sept.
		June 1-8, 21-30	-	18	-	27	-	
		July 15-Aug. 29	-	46	-	27	-	All fish caught in the area must be landed north of Pt. Arena during Sept.
		Sept. 1-30	-	30	-	27	-	
	Pt. Arena to U.S./Mexico Border	May 1-31	-	31	-	27	-	All fish caught in the area must be landed south of Pt. Arena during Sept.
		June 1-8, 21-30	-	18	-	27	-	
		July 15-Aug. 29	-	46	-	27	-	All fish must be landed between Pt. Arena and Pigeon Pt during Oct.
		Sept. 1-30	-	30	-	26	-	
Pt. Reyes to Pt. San Pedro	Oct. 1-4, 7-11, 14-15	-	11	-	26	-		

a/ For regulations in effect during 1977 through 2000, 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.<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.<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 May 1-Oct. 3	28 156	2 2	24 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; July 23-Nov. 13	265	2	20	-	
	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, 14-18, 21-25, 28-30; July 1-9, 15-16, 22-23; July 26 - Nov. 12	248	2	20	-	
	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	-	
<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	-	

TABLE C-2. Summary of actual California recreational ocean salmon regulations.<sup>a/</sup> (Page 3 of 3)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions
					Chinook	Coho	
<b>2008</b>	OR/CA Border to Horse Mt.	Closed	-	-	-	-	
	Horse Mt. to Pt. Arena	Feb. 16-Mar. 31	45	2	20	-	Emergency action taken to close the fishery.
	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	-	Open Thursday-Monday
<b>2011</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	-	
<b>2012</b>	OR/CA Border to Horse Mt.	May 1-Sept. 9	132	2	20	-	
	Horse Mt. to Pt. Arena	Apr. 7-Nov. 11	219	2	20	-	
		Apr. 7- July 5	90	2	24	-	
	Pt. Arena to Pigeon Pt.	July 6 - Nov. 11	129	2	20	-	
		Apr. 7- July 5	90	2	24	-	
	Pigeon Pt. to U.S./Mexico Border	July 6 -Oct. 7	94	2	20	-	
<b>2013<sup>b/</sup></b>	OR/CA Border to Horse Mt.	May 1-Sept. 8	131	2	20	-	
	Horse Mt. to Pt. Arena	Apr. 6-Nov. 10	219	2	20	-	
	Pt. Arena to Pigeon Pt.	Apr. 6-July 31	105	2	24	-	Closed Monday-Tuesday from June 1 through July 9
		Aug. 1-Nov. 10	102	2	20	-	
	Pigeon Pt. to U.S./Mexico Border	Apr. 6-Oct. 6	172	2	24	-	Closed Monday-Tuesday from June 1 through July 9

a/ For regulations in effect during 1977 through 2000, 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, 2001-2013.<sup>a/</sup> (Page 1 of 17)

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; July 27-Aug. 29; Sept. 1- Oct. 31	-	204	-	26	-	
	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; July 18-Aug. 29; Sept. 1- Oct. 31	-	204	-	26	-	
	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 June 3-4, 7-8, 11-12, 15-30; Aug. 1-31; Sept. 1-30	- - - -	31 94	- -	26 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, 2001-2013<sup>a/</sup> (Page 2 of 17)

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;	-	208	-	26	-		
		Aug. 1-29; Sept. 1- Oct. 31							
	Twin Rocks to Pyramid Rock Inside 3 nm (Tillamook Area)	Nov. 1-14	-	14	-	26	-	Chinook only.	
	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, 2001-2013<sup>a/</sup> (Page 3 of 17)

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, 2001-2013<sup>a/</sup> (Page 4 of 17)

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 Sept. 1-5	-	-	34	28	16	125 Chinook per open period vessel limit.
	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 Oct. 1-31	-	126	-	27	-	
		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 Oct. 1-31	-	127	-	27	-	
		Oct. 1-31	-	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-Apr. 30	-	47	-	26	-
	May 1-31		-	31	-	27	-	
	June 1-19; July 1-19; Aug. 1-4		-	42	-	27	-	50 fish per trip per vessel limit.
Sept. 1-3, 8-10, 15-30	-		22	-	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, 2001-2013<sup>a/</sup> (Page 5 of 17)

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	-
	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, 2001-2013<sup>a/</sup> (Page 6 of 17)

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.
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, 2001-2013.<sup>a/</sup> (Page 7 of 17)

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, 2001-2013<sup>a/</sup> (Page 8 of 17)

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	-		18		28	16	20 Chinook and 140 coho per open period vessel limit.
		Aug. 18-21, 25-28; Sept. 1-4, 8-11, 15-16	-						
	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.		
	Nov. 1-15	-	15	-	28	-	Chinook only.		
	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.		
	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.		

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2013<sup>a/</sup> (Page 9 of 17)

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	-	30 Chinook per day and 100 per calendar week vessel limit; 1,600 quota. Landings in Gold Beach, Port Orford, or Brookings only.	
		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, 2001-2013<sup>a/</sup> (Page10 of 17)

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	Sept. 1-Nov. 15	-	76	-	28	-	500 quota; 25 Chinook per calendar week per vessel landing limit.
	Inside 3 nm (Tillamook Area)							
	Cape Blanco to Humbug Mt.	Nov. 1-30	-	30	-	28	-	250 quota; 10 Chinook per day per vessel landing limit; landings restricted to Port Orford.
	Inside 3 nm (Elk River Area)							
	Twin Rocks to OR/CA Border	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.
	Inside 3 nm (Chetco River Area)							

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2013.<sup>a/</sup> (Page 11 of 17)

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	-	-	38	28	-	Per open period vessel limit of 75 Chinook.
		-	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, 2001-2013<sup>a/</sup> (Page 12 of 17)

Year	Area	Seasons			Number of Days	Minimum Size Limit (in.)		Other Restrictions	
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except.-Chin.		Chinook	Coho <sup>b/</sup>		
2010	WA/OR Border to Cape Falcon	May 1-June 12;	-	-	43	28	-	Seven days per week, no landing limits.	
		June 18-22;	-	-	5	28	-	Per open period vessel limit of 75 Chinook.	
		June 25-29	-	-	5	28	-	Per open period vessel limit of 25 Chinook.	
		-	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.	
	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, 2001-2013<sup>a/</sup> (Page 13 of 17)

Year	Area	Seasons			Number of Days	Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except.-Chin.		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, 2001-2013<sup>a/</sup> (Page 14 of 17)

Year	Area	Seasons			Number of Days	Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except.-Chin.		Chinook	Coho <sup>b/</sup>	
2011	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;	-	20	28	16	30 Chinook and 50 marked coho per open period vessel limit.
		-	Aug. 19;	-	1	28	16	12 Chinook and 50 marked coho per open period vessel limit.
		-	Aug. 27-29;	-	3	28	16	12 Chinook and 75 marked coho per open period vessel limit.
		-	Sept. 3-6, 10-13	-	8	28	16	20 Chinook and 100 marked coho per open period vessel limit.
		-	Apr. 15-July 9, July 17-Aug. 31;	-	132	28	-	
		-	October 1-31	-	31	28	-	50 Chinook per calendar week vessel limit.
		-	Sept. 1-30	-	30	28	-	25 Chinook per day vessel limit. Landings restricted to Garibaldi.
		-	Sept. 1-30	-	30	28	-	50 Chinook per day vessel limit. Landings restricted to Coos Bay, Charleston, and Bandon.
	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)							
	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	24	-	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, 2001-2013<sup>a/</sup> (Page 15 of 17)

Year	Area	Seasons			Number of Days	Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except.-Chin.		Chinook	Coho <sup>b/</sup>	
2011	Humbug Mt. to OR/CA Border	May 1-31	-	-	31	28	-	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	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.
2012	WA/OR Border to Cape Falcon	May 1-June 20;	-	-	51	28	-	Seven days per week, no landing limits.
		June 22-29	-	-	8	28	-	35 Chinook per open period vessel limit.
		-	July 1-4, 6-10, 13-17;	-	14	28	16	20 Chinook and 40 marked coho per open period vessel limit.
		-	July 20-24;	-	5	28	16	50 Chinook and 35 marked coho per open period vessel limit.
		-	July 27-31;	-	5	28	16	60 Chinook and 35 marked coho per open period vessel limit.
		-	Aug. 3-7, 10-14;	-	10	28	16	90 Chinook and 35 marked coho per open period vessel limit.
		-	Aug. 17-21, 24-28;	-	10	28	16	120 Chinook and 40 marked coho per open period vessel limit.
		-	Aug. 31 - Sept 4;	-	5	28	16	150 Chinook and 40 marked coho per open period vessel limit.
		-	Sept. 7-11, 14-18	-	10	28	16	150 Chinook and 50 coho (non-mark-selective) per open period vessel limit.
		Cape Falcon to Humbug Mt.	Apr. 1-Aug. 29,	-	-	151	28	-
Sept. 5 - Oct. 31	-		-	57	28	-	100 Chinook per calendar week vessel limit.	

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2013<sup>a/</sup> (Page 16 of 17)

Year	Area	Seasons			Number of Days	Minimum Size Limit (in.)		Other Restrictions
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except.-Chin.		Chinook	Coho <sup>b/</sup>	
<b>2012</b> Cont.	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	26	-	20 Chinook per day vessel limit. Landings restricted to Port Orford.
	Humbug Mt. to OR/CA Border	April 1 - May 31	-	-	61	28	-	Landings restricted to the State of Oregon.
		June 1-30	-	-	30	28	-	2,000 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	-	1,500 quota; 30 Chinook per day vessel limit. Landings restricted to Gold Beach, Port Orford, or Brookings; mandatory phone or email trip reports.
		Aug. 1-6	-	-	6	28	-	915 quota; 30 Chinook per day vessel limit. Landings restricted to Gold Beach, Port Orford, or Brookings; mandatory phone or email trip reports.
		Sept. 5-7	-	-	3	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 Chinook quota; 20 Chinook per day per vessel landing limit; landings restricted to Brookings; mandatory phone or email trip

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters, 2001-2013<sup>a/</sup> (Page 17 of 17)

Year	Area	Seasons			Number of Days	Minimum Size Limit (in.)		Other Restrictions	
		All-Salmon-Except-Coho	All Salmon	All-Salmon-Except.-Chin.		Chinook	Coho <sup>b/</sup>		
2013 <sup>c/</sup>	WA/OR Border to Cape Falcon	May 1-June 30	-	-	61	28	-	Seven days per week, no landing limits.	
		-	July 1-9;	-	9	28	16	50 Chinook and 40 marked coho per open period vessel limit.	
		-	July 12-16, July 19-23, July 26-30, Aug. 2-6;	-	20	28	16	100 Chinook and 40 marked coho per open period vessel limit.	
		-	Aug. 9-13, Aug. 16-20;	-	10	28	16	150 Chinook and 80 marked coho per open period vessel limit.	
		-	Aug. 30-Sept. 3;	-	5	28	16	35 Chinook and 40 marked coho per open period vessel limit.	
		-	Sept. 6-10, Sept. 13-17;	-	10	28	16	75 Chinook and 50 marked coho per open period vessel limit.	
	Cape Falcon to Humbug Mt.	Apr. 1 - Aug. 29;	-	-	151	28	-		
		Sept. 4 - Oct. 31;	-	-	58	28	-	100 Chinook per vessel per landing week (Wed.-Tues.).	
	Cape Blanco to Humbug Mt. (Elk River Area)	Nov. 1-30	-	-	30	26	-	20 Chinook per day vessel limit. Landings restricted to Port Orford.	
	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.	Humbug Mt. to OR/CA Border	April 1 - May 31	-	-	61	28	-	Landings restricted to the State of Oregon.
			June 1-30	-	-	30	28	-	4,000 quota; 30 Chinook per day vessel limit. Landings restricted to the area or Port Orford; mandatory phone or email trip reports.
			July 1-31	-	-	31	28	-	4,782 quota; 30 Chinook per day vessel limit. Landings restricted to the area or Port Orford; mandatory phone or email trip reports.
Aug. 1-29			-	-	29	28	-	2,714 quota; 30 Chinook per day vessel limit. Landings restricted to the area or Port Orford; mandatory phone or email trip reports.	
Sept. 16-27			-	-	12	28	-	1,000 quota; 20 Chinook per day vessel limit. Landings restricted to the area or Port Orford; mandatory phone or email trip reports.	
Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 13-31	-	-	19	28	-	750 Chinook quota; 20 Chinook per day per vessel landing limit; landings restricted to Brookings; mandatory phone or email trip		

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, 2001-2013. <sup>a/</sup> (Page 1 of 12)

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.
			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.	Nov. 1-Dec. 15	45	2	20	-	Chinook only.	
Inside 3 nm (Elk River Area)							
290	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	Oct. 1-12	12	1	20	-	Chinook only. No more than four Chinook per season.
Inside 3 nm (Chetco River Area)							

TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2013.a/ (Page 2 of 12)

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.
	291	Tillamook Area Twin Rocks to Pyramid Rock Inside 3 nm	Nov. 1-15	15	2	20	-
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, 2001-2013.a/ (Page 3 of 12)

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, 2001-2013.a/ (Page 4 of 12)

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 Aug. 1-Sept. 3	July 23-Aug. 12	21	2	26	16	Two Chinook allowed.
		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 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. Up to five jacks allowed before adult bag retained. No more than four adults in seven consecutive days and 10 adults per season.
	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, 2001-2013.a/ (Page 5 of 12)

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, 2001-2013.a/ (Page 6 of 12)

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, 2001-2013.a/ (Page 7 of 12)

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, 2001-2013.a/ (Page 8 of 12)

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 120,000 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, 2001-2013.a/ (Page 9 of 12)

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, 2001-2013.a/ (Page 10 of 12)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
2011	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	115	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.

TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2013.a/ (Page 11 of 12)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
<b>2012</b>	WA/OR Border to Cape Falcon	June 9-22	14	2	24		8,000 marked Chinook quota Cape Falcon, OR to U.S. Canada Border
	34,860 coho quota and 11,100 Chinook guideline south of Leadbetter Pt. WA	June 23-Aug. 26	65	2	24	-	Seven Days per week; no more than one Chinook
		Aug. 27 - Sept. 2	7	2	24	16	Seven days per week
		Sept 3-30	28	2	24	16	Seven days per week, non-mark-selective coho fishery with remaining quota converted to an impact neutral quota of 9,500.
	Cape Falcon to Humbug Mt.	Mar. 15-June 30, Aug. 1-31, Sept. 4, 5, 9-12, 16-20, 22-30, Oct.1-31	190	2	24	-	All salmon except coho.
		July 1-31	31	2	24	16	All salmon; 8,000 marked coho quota.
		Sept. 1-3, 6-8, 13-15 and 21	10	2	24	16	All salmon; 11,800 non-mark-selective coho quota (incl. rollover from July mark-selective coho quota).
	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 1-June 30, Aug. 1-Sept. 9	101	2	24	-	All salmon except coho.
		July 1-31	31	2	24	16	All salmon, shared quota with July Cape Falcon to Humbug Mt. fishery.
	Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 1-14	14	1	24	-	Barbless hooks required. No more than five Chinook per season.

TABLE C-4. Summary of actual Oregon recreational ocean salmon regulations, 2001-2013.a/ (Page 12 of 12)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions <sup>c/</sup>
					Chinook	Coho <sup>b/</sup>	
<b>2013<sup>d/</sup></b>	WA/OR Border to Cape Falcon	June 8-21	14	2	24	-	8,000 marked Chinook quota Cape Falcon, OR to U.S. Canada Border
	38,380 coho quota and 9,900 Chinook guideline south of Leadbetter Pt. WA	June 22-Aug. 22	62	2	24	16	Seven Days per week; no more than one Chinook
		Aug. 23 - Aug. 31	9	2	24	16	Seven days per week
		Sept 1-30	30	2	24	16	Seven days per week, non-mark-selective coho fishery with remaining quota converted to an impact neutral quota of 9,785.
	Cape Falcon to Humbug Mt.	Mar. 15-June 30, Aug. 1-31, Sept. 3-4, 8-11, and Oct. 1-31	176	2	24	-	All salmon except coho.
		July 1-31	31	2	24	16	All salmon; 10,500 marked coho quota.
		Sept. 1-2, 5-7, and 12-30	24	2	24	16	All salmon; 19,580 non-mark-selective coho quota (incl. rollover from July mark-selective coho quota).
	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 1-June 30, Aug. 1-Sept. 8	100	2	24	-	All salmon except coho.
		July 1-31	31	2	24	16	All salmon, shared quota with July Cape Falcon to Humbug Mt. fishery.
	Twin Rocks to OR/CA Border Inside 3 nm (Chetco River Area)	Oct. 1-13	13	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.

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, 2001-2013. <sup>a/</sup> (Page 1 of 5)

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	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.
2002	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.
2003	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.
2004	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, 2001-2013.a/ (Page 2 of 5)

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, 2001-2013.a/ (Page 3 of 5)

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	17-20, 24-27;	-	28	-	28	-	Per open period vessel limit of 50 Chinook north or 50 Chinook south of Leadbetter Point.
		May 31-June 3;						
		June 7-10, 14-17						
		June 21-24	-	4	-	28	-	Per open period vessel limit of 35 Chinook north or 35 Chinook south of Leadbetter Point.
2009	U.S./Canada Border to WA/OR Border		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.
		16-19, 23-26;	-	-	38	28	-	Per open period vessel limit of 75 Chinook north of Leadbetter Point or 75 Chinook south of Leadbetter Point.
		May 30-June 2; June 6-9, 13-16, 20-23, 27-30	-					
2009	U.S./Canada Border to WA/OR Border	-	July 1-7, 11-14;	-	11	28	16	Per open period vessel limit of 50 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;	-	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.
		-	Sept. 5-8, 12-15		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.
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.
2010	U.S./Canada Border to WA/OR Border		Aug 6-10, 13-17, 20-24, 27-31; Sept. 3-7		25	28	16	30 Chinook and 50 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.

TABLE C-5. Summary of actual Washington commercial salmon seasons in state and federal (EEZ) waters, 2001-2013.a/ (Page 4 of 5)

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>	
2011	U.S./Canada Border to WA/OR Border	May 1-June 21;	-	52	-	28	-	Seven days per week, no landing limits. 30 Chinook per open period vessel limit. North of Leadbetter Pt. or the same south of Leadbetter Pt.
		June 23-30	-	8	-	28	-	
		-	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 Aug. 19;	-	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. 27-29	-	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.
		-	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.
2012	U.S./Canada Border to WA/OR Border	May 1-June 30;	-	51	-	28	-	Seven days per week, no landing limits. 35 Chinook per open period vessel limit. North of Leadbetter Pt. or the same south of Leadbetter Pt.
		June 22-29	-	8	-	28	-	
		-	July 1-4, July 6-10, July 13-17;	-	14	28	16	40 Chinook and 35 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-	July 20-24;	-	5	28	16	50 Chinook and 35 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-	July 27-31;	-	5	28	16	60 Chinook and 35 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-	Aug. 3-7, 10-14;	-	10	28	16	90 Chinook and 35 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-	Aug. 17-21, 24-28;	-	10	28	16	120 Chinook and 40 marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.
		-	Aug. 31 - Sept. 4	-	5	28	16	150 Chinook and 40 marked coho per open period vessel limit. North of Leadbetter Pt. or the same south of Leadbetter Pt.
-	Sept. 7-11, 14-18	-	10	28	16	150 Chinook and 50 non-mark-selective marked coho per open period vessel limit North of Leadbetter Pt. or the same south of Leadbetter Pt.		

TABLE C-5. Summary of actual Washington commercial salmon seasons in state and federal (EEZ) waters, 2001-2013.a/ (Page 5 of 5)

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>	
2013 <sup>c/</sup>	U.S./Canada Border to WA/OR Border	<b>Areas 1 &amp; 2</b> May 1-June 30	-	61	-	28	-	Seven days per week, no landing limits.
		<b>Areas 3 &amp; 4</b> May 1-20, 24-28	-	24	-	28	-	Seven days per week 28 Chinook vessel limit May 24-28.
		-	<b>Areas 1 &amp; 2</b> July 1-9	-	9	28	16	50 Chinook and 40 marked coho per open period vessel limit.
		-	July 12-16, 19-23, 26-30, Aug. 2-6	-	20	28	16	100 Chinook and 40 marked coho per open period vessel limit.
		-	Aug. 9-13, 16-20	-	10	28	16	150 Chinook and 80 marked coho per open period vessel limit.
		-	Aug. 30-Sept. 3	-	5	28	16	35 Chinook and 40 marked coho per open period vessel limit.
		-	Sept. 6-10, 13-17	-	10	28	16	75 Chinook and 50 marked coho per open period vessel limit.
		-	<b>Areas 3 &amp; 4</b> July 1-9, 12-16, 19-23	-	19	28	16	50 Chinook and 40 marked coho per open period vessel limit.
-	July 26-30, Aug. 2-6, 9-13	-	15	28	16	40 Chinook and 40 marked coho per open period vessel limit.		

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, 2001-2013. <sup>a/</sup> (Page 1 of 8)

Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions
				Chinook	Coho <sup>b/</sup>	
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 Heac	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	27	2	24	16	Seven days per week; No more than one Chinook.
U.S./Canada Border to Cape Alava	May 25-June 16	23	2	24	-	Chinook only.
	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 Heac	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	-	Chinook only.
	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, 2001-2013.a/ (Page 2 of 8)

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 47°58' N. Lat. to 47°50' N. Lat. Inside 3 nm		June 27-Aug. 12	47	2	26	16	No more than one Chinook.	
		Aug. 13-Sept. 19	38	2	24	16	Two Chinook allowed.	
		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, 2001-2013.a/ (Page 3 of 8)

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	Sun.-Thurs; no more than one Chinook.
		July 29-Sept. 18	52	2	24	16	Seven days per week; two Chinook allowed.
	Leadbetter Point to WA/OR Border	July 3-28	20	2	24	16	Sun.-Thurs; no more than one Chinook.
		July 29-Sept. 8; Sept. 17-30	56	2	24	16	Seven days per week; two Chinook allowed.
		Sept. 9-16	8	2	-	16	Seven days per week; no Chinook.
2006	U.S./Canada Border to Cape Alava	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.
	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	Sun.-Thurs.; no more than one Chinook.
		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, 2001-2013.a/ (Page 4 of 8)

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
	Leadbetter Point to WA/OR Border	Aug. 17 - Sept. 16	31	2	24	16	Seven days per week; no more than one Chinook.
		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, 2001-2013.a/ (Page 5 of 8)

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.
			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.	
Cape Alava to Queets River		July 23-Sept. 19	59	2	24	16	Seven days per week.	
		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.	
48°00' N. Lat. to 47°50' N. Lat.		July 23-Sept. 19	59	2	24	16	Seven days per week.	
		Sept. 25 - Oct. 10	16	2	24	16	Seven days per week.	
		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, 2001-2013.a/ (Page 6 of 8)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions
					Chinook	Coho <sup>b/</sup>	
<b>2011</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.

TABLE C-6. Summary of actual Washington recreational ocean salmon regulations, 2001-2013.a/ (Page 7 of 8)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions
					Chinook	Coho <sup>b/</sup>	
2012	U.S./Canada Border to Queets R. WA (Neah Bay and La Push subareas)	June 16-30	15	2	24	-	Coastwide quota: 8,000 marked Chinook.
	Queets R. to Leadbetter Pt. WA (Westport subarea)	June 9-23	15	2	24	-	Coastwide quota: 8,000 marked Chinook.
	Leadbetter Pt. WA to Cape Falcon OR (Columbia River subarea)	June 9-22	14	2	24	-	Coastwide quota: 8,000 marked Chinook.
	U.S./Canada Border to Cape Alava 8,200 coho quota and 4,700 Chinook guideline.	July 1-15	15	2	24	16	Seven days per week; no more than two Chinook.
		July 16-Aug. 16	32	2	24	16	Seven days per week; no more than one Chinook.
		Aug. 17-Sept. 23	38	2	24	16	Seven days per week; no more than two Chinook.
	Cape Alava to Queets River 2,360 coho quota and 2,050 Chinook guideline.	July 1 -Sept. 23	85	2	24	16	Seven days per week.
	48°00' N. Lat. to 47°50' N. Lat.	Sept. 29 - Oct. 14	16	2	24	16	Seven days per week; no more than one Chinook.
	Queets River to Leadbetter Point 25,800 coho quota and 17,600 Chinook guideline. Beginning Sept. 1, remaining quota converted to an impact neutral 9,000 non-mark-selective coho quota.	June 24-Aug. 16	44	2	24	16	Sun.-Thurs. June 24-Aug. 2; seven days per week otherwise.; no more than one Chinook.
		Aug. 17-31	15	2	24	16	Seven days per week
		Sept. 1-12	12	2	24	16	Seven days per week; no more than one coho.
		Sept. 13-23	11	2	24	16	Seven days per week
	Leadbetter Point to WA/OR Border. 34,860 coho quota and 11,100 Chinook guideline for Leadbetter Pt. to Cape Falcon, OR	June 23- Aug. 26	65	2	24	16	Seven days per week; no more than one Chinook.
Aug. 27-Sept. 2		7	2	24	16	Seven days per week	
Sept. 3-30		28	2	24	16	Seven days per week; non-mark-selective coho fishery with remaining quota converted to an impact neutral quota of 9,500.	

TABLE C-6. Summary of actual Washington recreational ocean salmon regulations, 2001-2013.a/ (Page 8 of 8)

Year	Area	Season	Days	Bag Limit	Minimum Size Limit (in.)		Other Restrictions
					Chinook	Coho <sup>b/</sup>	
2013 <sup>c/</sup>	U.S./Canada Border to Queets R. WA (Neah Bay and La Push subareas)	May 10-11, 17-18	11	2	24	-	Coastwide quota: 8,000 marked Chinook.
		June 22-28					
	Queets R. to Leadbetter Pt. WA (Westport subarea)	June 8-22	15	2	24	-	Coastwide quota: 8,000 marked Chinook.
	Leadbetter Pt. WA to Cape Falcon OR (Columbia River subarea)	June 8-21	14	2	24	-	Coastwide quota: 8,000 marked Chinook.
	U.S./Canada Border to Cape Alava	June 29-Sept 22	86	2	24	16	Seven days per week. Two salmon daily plus two additional pinks; Aug. 10-22 two salmon daily, no more than one Chinook, plus two additional pinks.
	Cape Alava to Queets River	June 29-Sept 22	86	2	24	16	Seven days per week. Two salmon daily plus two additional pinks; Aug. 10-22 two salmon daily, no more than one Chinook, plus two additional pinks.
	48°00' N. Lat. to 47°50' N. Lat.	Sept. 28 - Oct. 13	16	2	24	16	Seven days per week. Two salmon daily plus two additional pinks.
		June 23 - August 3	36	2	24	16	Sun.-Thurs. June 23-July 18; seven days per week otherwise.; no more than one Chinook.
		Aug. 4-Sept. 5	33	2	24	16	Seven days per week
	Queets River to Leadbetter Point	Aug. 4-Sept. 5	33	2	24	16	Seven days per week
Sept. 6-30		25	2	24	16	Seven days per week, non-mark-selective coho fishery with remaining quota converted to an impact neutral quota of 6,350/.	
Sept. 6-30		25	2	24	16	Seven days per week, non-mark-selective coho fishery with remaining quota converted to an impact neutral quota of 6,350/.	
Leadbetter Point to WA/OR Border.	June 22-Aug. 22	62	2	24	16	Seven Days per week; no more than one Chinook	
	Aug. 23 - Aug. 31	9	2	24	16	Seven days per week	
28,527 coho quota and 9,900 Chinook guideline.	Sept 1-30	30	2	24	16	Seven days per week, non-mark-selective coho fishery with remaining quota converted to an impact neutral quota of 9,785.	

a/ For earlier years see Review of 2004 Ocean Salmon Fisheries, Appendix C, Table C-6.

b/ Mark selective fishery; all retained coho must be marked with a healed adipose fin clip except Aug. 29-Sept. 6, 2004 Queets River to Leadbetter Point or unless otherwise noted.

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, 2001-2013.a/ (Page 1 of 10)

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, 2001-2013.a/ (Page 2 of 10)

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, 2001-2013.a/ (Page 3 of 10)

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, 2001-2013.a/ (Page 4 of 10)

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, 2001-2013.a/ (Page 5 of 10)

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, 2001-2013.a/ (Page 6 of 10)

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		
2009	<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	24	16	Quinault only 50 coho landing limit	
		-	Sept. 16-Oct. 15	-	3	24	16	Quinault only 68 coho landing limit	
		-		-	4	24	16	Ceremonial and subsistence only	
		(Quileute only)	-		-	30	24	16	
		<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	-	48	24	16	
			-	Aug. 18-20	-	3	24	16	25 coho landing limit
			-	Sept. 9-Sept. 15	-	7	24	16	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	-	48	24	16	
			-	Aug. 18-20	-	3	24	16	25 coho landing limit
		-	Sept. 9-Sept. 15	-	7	24	16	5 coho 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		
		-	Nov. 1-Dec. 31	-	61	22	16		

TABLE C-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons, 2001-2013.a/ (Page 7 of 10)

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>2010</b>	<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					
		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, 2001-2013.a/ (Page 8 of 10)

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>Quinalt, 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		

TABLE C-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons, 2001-2013.a/ (Page 9 of 10)

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	
2012 <sup>b/</sup>	<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						
	May 1-June 30	-	61	-	24	-		
	-	July 1-Oct. 31	-	123	24	16		

TABLE C-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons, 2001-2013.a/ (Page 10 of 10)

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	
2013 <sup>b/</sup>	<b>Quinalt, Quileute, and Hoh</b> Sand Point to Point Chehalis	May 1-June 18	-	49	-	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 18	-	49	-	24	-	
		-	July 2-8	-	7	24	16	50 Chinook per vessel per open period
			July 9-15		7	24	16	100 Chinook per vessel per open period
			July 16-29		14	24	16	75 Chinook per vessel per open period
			July 30-Aug. 11		13	24	16	50 Chinook per vessel per open period
			Aug. 12-25		14	24	16	35 Chinook per vessel per open period
			Aug. 26		1	24	16	50 Chinook and 200 coho per vessel per open period
			Aug. 27		0	24	16	Closed
			Aug. 28-Sept. 3		7	24	16	100 Chinook and 100 coho per vessel per open period
	Area 4B inside waters	-	Jan. 1-Apr. 15		105	22	16	
		May 1-June 18	-	49	-	24	-	
		-	July 2-8		7	24	16	50 Chinook per vessel per open period
		-	July 9-15		7	24	16	100 Chinook per vessel per open period
			July 16-29		14	24	16	75 Chinook per vessel per open period
			July 30-Aug. 11		13	24	16	50 Chinook per vessel per open period
			Aug. 12-25		14	24	16	35 Chinook per vessel per open period
			Aug. 26		1	24	16	50 Chinook and 200 coho per vessel per open period
			Aug. 27		0	24	16	Closed
			Aug. 28-Sept. 3		7	24	16	100 Chinook and 100 coho per vessel per open period
		-	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 18	-	49	-	24	-	
		-	July 1-Sept. 4	-	66	24	16	
		-	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	Chinook				Coho			
	Critical Stocks	Catch Quota			Critical Stocks	Catch Quota		
		Treaty Indian	Non-Indian Commercial	Sport		Treaty Indian	Non-Indian Commercial	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	Queets, Skagit, Stillaguamish, Snohomish, 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 (Cow eeman)	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 (Cow eeman)	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 Commercial	Sport	Treaty Indian	Non-Indian Commercial	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>i/</sup>	Lower Columbia River and Interior Fraser Natural	42.0	12.8 <sup>g/</sup>	67.2 <sup>g/</sup>
2012	Columbia River natural tules	55.0	47.4	51.5	Lower Columbia River and Interior Fraser Natural	47.5	11.8	71.2
2013	Columbia River hatchery tules	52.5	44.0	48.0	Lower Columbia River and Interior Fraser Natural	47.5	14.2	74.8

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.



TABLE C-9. Sequence of events in ocean salmon fishery management, 2013.<sup>al</sup> (Page 1 of 7)

**GENERAL MANAGEMENT ACTIONS AND INSEASON CONFERENCES**

Feb. 28	National Marine Fisheries Service (NMFS) provides the Council with a letter outlining the 2013 management guidance for stocks listed under the Endangered Species Act (ESA) and stocks of concern.
Mar. 9	Based on Council recommendations, NMFS takes inseason action to delay the scheduled opening for the commercial salmon fishery from Cape Falcon, Oregon to the Oregon/California border, from March 15, 2013, to April 1, 2013.
Mar. 9	Based on Council recommendations, NMFS takes inseason action to cancel the opening scheduled in the commercial fishery from Horse Mountain, California to Point Arena, California (Fort Bragg subarea), originally scheduled for April 16, 2013.
Mar. 11	Council adopts three commercial, tribal, and recreational ocean salmon fishery management alternatives for public review.
Mar. 15	North of Cape Falcon Salmon Forum meets in Olympia, Washington to initiate consideration of recommendations for treaty Indian and non-Indian salmon management alternatives.
Mar. 25-26	Council holds public hearings on proposed 2013 management alternatives in Westport, Washington; Coos Bay, Oregon; and Eureka, California.
Mar. 27	North of Cape Falcon Salmon Forum meets in Lynnwood, Washington to further consider recommendations for treaty Indian and non-Indian salmon management alternatives.
Apr. 10	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 3	Ocean salmon seasons implemented as recommended by the Council and published in the <i>Federal Register</i> on May 3 (78 FR 25865), with an effective date of May 1, 2013.
May 9	NMFS inseason conference number one results in closing the OR/CA Border to Humboldt South Jetty commercial troll fishery effective at noon on May 10 due to projected attainment of quota.
May 20	NMFS inseason conference number two results in closing the U.S./Canada border to Queets River commercial troll fishery effective May 20 due to projected attainment of quota.
May 23	NMFS inseason conference number three results in reopening the U.S./Canada border to Queets River commercial troll fishery effective May 24 through May 28 with a landing and possession limit of 28 Chinook.
June 4	NMFS inseason conference number four results in a quota adjustment for the June OR/CA Border to Humboldt South Jetty commercial salmon fishery to roll-over remaining May quota. Remaining May quota was 300 Chinook; an impact-neutral transfer added 352 Chinook making the revised June quota 3,352 Chinook.
June 7	NMFS inseason conference number five results in closing the June OR/CA Border to Humboldt South Jetty commercial salmon fishery effective June 9 to prevent exceeding the adjusted June quota of 3,352 Chinook.
June 10	NMFS inseason conference number six results in reopening the June OR/CA Border to Humboldt South Jetty commercial salmon fishery for 24 hours on June 11 to utilize remaining quota.

**GENERAL MANAGEMENT ACTIONS AND INSEASON CONFERENCES (continued)**

July 3	NMFS inseason conference number seven results in three quota adjustments: <ol style="list-style-type: none"> <li>1) A roll-over of remaining June quota to the July OR/CA Border to Humboldt South Jetty commercial salmon fishery. Remaining June quota was 387 Chinook; an impact-neutral transfer added 547 Chinook making the revised July quota 2,547 Chinook.</li> <li>2) A roll-over of remaining June quota to the July Humbug Mt. to OR/CA Border commercial salmon fishery. Remaining June quota was 2,475 Chinook; an impact-neutral transfer added 1,782 Chinook making the revised July quota 4,782 Chinook.</li> <li>3) A roll-over of remaining May-June quota to the July-September non-Indian commercial salmon fishery north of Cape Falcon. Remaining May-June quota was 5,263 Chinook (of which, 533 were north of the Queets River); an impact-neutral transfer added 4,600 Chinook (of which, 500 were added north of the Queets River) making the revised July-September quota 19,300, of which no more than 6,600 Chinook could be landed north of the Queets River.</li> </ol>
July 11	NMFS inseason conference number eight results in changing the open period landing and possession limit from 50 to 100 Chinook per vessel for the Queets River to Cape Falcon, non-Indian commercial all-salmon fishery effective July 12.
July 15	NMFS inseason conference number nine results in opening the recreational fishery from Queets River, Washington to Leadbetter Point, Washington (Westport Subarea) seven days a week (previously Sun. through Thurs.) effective July 19.
July 19	NMFS inseason conference number ten results in closing the July OR/CA Border to Humboldt South Jetty commercial salmon fishery effective July 21 to prevent exceeding the adjusted July quota of 2,547 Chinook.
July 25	NMFS inseason conference number 11 results in: <ol style="list-style-type: none"> <li>1) Reducing the open period landing and possession limit from 50 to 40 Chinook per vessel for the U.S/Canada Border to the Queets River non-Indian commercial all-salmon fishery effective July 26, and</li> <li>2) Reducing coast-wide trip limits for halibut retained incidental to the commercial salmon fishery from 15 halibut per trip to 5 halibut per trip effective August 1 to avoid exceeding quota.</li> </ol>
July 26	NMFS inseason conference number 12 results in a quota adjustment for the August OR/CA Border to Humboldt South Jetty commercial salmon fishery to roll-over remaining July quota. Remaining July quota was 245 Chinook; an impact-neutral transfer added 192 Chinook making the revised August quota 1,692 Chinook.
August 1	NMFS inseason conference number 13 results in changing the daily bag limit in the recreational fishery in the Westport Subarea from two fish per day, no more than one of which can be a Chinook to two fish per day, both of which can be Chinook effective August 4.
August 2	NMFS inseason conference number 14 results in: <ol style="list-style-type: none"> <li>1) Closing the August OR/CA Border to Humboldt South Jetty commercial salmon fishery effective August 3 to prevent exceeding the adjusted August quota of 1,692 Chinook, and</li> <li>2) A roll-over of remaining July quota to the August Humbug Mt. to OR/CA Border commercial salmon fishery. Remaining July quota was 798 Chinook; an impact-neutral transfer added 714 Chinook making the revised August quota 2,714 Chinook.</li> </ol>

TABLE C-9. Sequence of events in ocean salmon fishery management, 2013.<sup>a/</sup> (Page 3 of 7)

**GENERAL MANAGEMENT ACTIONS AND INSEASON CONFERENCES (continued)**

August 8	NMFS inseason conference number 15 results in: <ol style="list-style-type: none"> <li>1) Changing the open period landing and possession limit from 100 to 150 Chinook per vessel for the Queets River to Cape Falcon, non-Indian commercial all-salmon fishery effective August 9,</li> <li>2) Changing the open period landing and possession limit from 40 to 80 marked coho per vessel for the non-Indian commercial all-salmon fishery north of Cape Falcon effective August 9,</li> <li>3) Closing the retention of incidental halibut in the commercial salmon fishery effective August 9 north of Cape Falcon and effective August 10 (with all incidental halibut landed by August 11) south of Cape Falcon,</li> <li>4) Changing the daily bag limit in the recreational fishery in the Neah Bay and La Push Subareas from two fish per day to two fish per day, no more than one of which can be a Chinook effective August 10, and</li> <li>5) Transferring unutilized coho quota from the July recreational mark-selective coho fishery from Cape Falcon to the Oregon/California border to the September non-mark-selective recreational fishery from Cape Falcon to Humbug Mountain. Remaining July quota was 3,920 mark-selective coho. An impact-neutral transfer added 3,580 non-mark selective coho to the September quota making the adjusted quota 19,580 non-mark-selective coho salmon.</li> </ol>
August 15	NMFS inseason conference number 16 results in closing of the non-Indian commercial salmon fishery north of the Queets River effective August 15 due to quota attainment.
August 22	NMFS inseason conference number 17 results in: <ol style="list-style-type: none"> <li>1) Closing of the non-Indian commercial salmon fishery north of Cape Falcon immediately until further notice, and</li> <li>2) Changing the daily bag limit in the recreational fishery in the Columbia River, La Push, and Neah Bay Subareas from two fish per day, no more than one of which can be a Chinook to two fish per day, both of which can be Chinook effective August 23.</li> </ol>
August 28	NMFS inseason conference number 18 results in: <ol style="list-style-type: none"> <li>1) Impact-neutral adjustments of commercial and recreational quotas north of Cape Falcon, accomplished through a quota trade between the fisheries. Net adjustment: Recreational fishery gave 3,200 Chinook and received 4,000 marked coho (coho distributed among the Subareas as follows: 1,000 to Columbia River; 1,480 to Westport; 1,100 to La Push; and 420 to Neah Bay). Commercial fishery gave 4,000 marked coho and received 2,000 Chinook (adjusted for impacts),</li> <li>2) Reopening the non-Indian commercial salmon fishery between Cape Falcon and the Queets River Friday through Tuesday effective August 30 with a landing limit of 35 Chinook and 40 marked coho per vessel per open period, and</li> <li>3) Allowing retention of unmarked coho in the recreational fisheries in the Columbia River Subarea effective September 1 and in the Westport Subarea effective September 6.</li> </ol>
September 5	NMFS inseason conference number 19 results in changing the open period landing and possession limit in the non-Indian commercial salmon fishery between Cape Falcon and the Queets River from 35 Chinook and 40 marked coho to 75 Chinook and 50 marked coho per vessel effective September 6.
September 11	NMFS inseason conference number 20 results in changing the daily bag limit in the recreational salmon fishery from Cape Falcon to Humbug Mountain to all salmon, two fish per day, seven days per week effective September 12.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2013.<sup>a/</sup> (Page 4 of 7)

**NON-INDIAN COMMERCIAL TROLL SEASONS**

April 1	Cape Falcon to Humbug Mt. non-Indian commercial all-salmon-except-coho fishery open seven days per week.
April 1	Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery open.
May 1	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon-except-coho fishery open May 1 through the earlier of June 30 or attainment of 29,300 Chinook quota (no more than 8,700 may be landed north of the Queets River). Areas north of the Queets River modified inseason to a 25 day season (May 1-20 and 24-28) due to quota attainment.
May 1	OR/CA border to Humboldt South Jetty non-Indian commercial all-salmon-except-coho fishery opens through the earlier of May 31 or a 3,000 Chinook quota.
May 1	Pt. Arena to U.S./Mexico border non-Indian commercial all-salmon-except-coho fishery opens a 125 day season through Sept. 30 (for specific days open see Table I-1).
May 10	OR/CA border to Humboldt South Jetty non-Indian commercial all-salmon-except-coho fishery closes due to quota attainment.
May 22	Horse Mt. to Pt. Arena non-Indian commercial all-salmon-except-coho fishery opens a 104 day season through Sept. 30 (for specific days open see Table I-1).
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 4,000 Chinook quota.
June 1	OR/CA border to Humboldt South Jetty non-Indian commercial all-salmon-except-coho fishery opens through the earlier of June 30 or attainment of 3,000 Chinook quota (modified on an impact-neutral basis to 3,352 Chinook in response to landings in the May quota fisheries in this area).
June 9	OR/CA border to Humboldt South Jetty non-Indian commercial all-salmon-except-coho fishery closes to evaluate landings; fishery reopens for 24 hours on June 11 to utilize remaining quota.
June 30	Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery closes as scheduled.
July 1	U.S./Canada border to Cape Falcon, non-Indian commercial all-salmon fishery opens through the earlier of September 17 or attainment of 14,700 preseason Chinook guideline, of which no more than 6,100 may be caught north of the Queets River. Chinook quota was modified by inseason action on July 3 to roll-over uncaught quota from the May-June fishery though an impact-neutral transfer of 4,600 Chinook, of which, 500 were added north of the Queets River making the revised July-September quota 19,300, of which no more than 6,600 Chinook could be landed north of the Queets River or a 14,220 marked coho quota (reduced to 10,220 through inseason transfer of 4,000 coho to recreational fisheries). Chinook quota increased again inseason to 21,300 through an inseason transfer of 2,000 Chinook from recreational fisheries. For specific season dates and regulations see Table I-1 and Table C-5.
July 1	Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery opens through the earlier of July 31 or attainment of 3,000 Chinook quota (modified on an impact-neutral basis to 4,782 Chinook in response to landings in the June quota fisheries in this area, later adjusted to 4,760).
July 15	OR/CA border to Humboldt South Jetty non-Indian commercial all-salmon-except-coho fishery opens through the earlier of July 31 or attainment of 2,000 Chinook quota (modified on an impact-neutral basis to 2,547 Chinook in response to landings in the June quota fisheries in this area).
July 21	OR/CA border to Humboldt South Jetty non-Indian commercial all-salmon-except-coho fishery closes due to quota attainment.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2013.<sup>a/</sup> (Page 5 of 7)

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

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 29 or attainment of 2,000 Chinook quota (modified inseason on an impact-neutral basis to 2,714 Chinook in response to landings in the June and July quota fisheries in this area).
Aug. 1	OR/CA border to Humboldt South Jetty non-Indian commercial all-salmon-except-coho fishery opens through the earlier of August 29 or attainment of 1,500 Chinook quota (modified on an impact-neutral basis to 1,692 Chinook in response to landings in the July quota fisheries in this area).
Aug. 3	OR/CA border to Humboldt South Jetty non-Indian commercial all-salmon-except-coho fishery closes due to quota attainment.
Aug. 13	U.S./Canada border to Queets River, non-Indian commercial all-salmon fishery closes as Chinook quota is reached.
Aug. 29	Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery closes as scheduled.
Sept. 4–Oct 31	Cape Falcon to Humbug Mt. non-Indian commercial all-salmon-except-coho fishery opens seven days per week with a landing and possession limit of 100 Chinook per vessel per landing week (Wed.-Tues.).
Sept. 16	Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery opens through the earlier of Sept. 30 or attainment of 1,000 Chinook quota.
Sept. 16	OR/CA border to Humboldt South Jetty non-Indian commercial all-salmon-except-coho fishery opens through the earlier of Sept. 27 or attainment of 6,000 Chinook quota.
Sept. 17	Queets River to Cape Falcon, non-Indian commercial all-salmon fishery closes as scheduled.
Sept. 27	Humbug Mt. to OR/CA border non-Indian commercial all-salmon-except-coho fishery closes as scheduled.
Sept. 30	OR/CA border to Humboldt South Jetty non-Indian commercial all-salmon-except-coho fishery closes as scheduled.
Oct. 1	Pt. Reyes to Pt. San Pedro non-Indian commercial all-salmon-except-coho fishery opens an 11 day Monday through Friday season (for specific dates see Table I-1).

**TREATY INDIAN COMMERCIAL TROLL SEASONS**

May 1	All-salmon-except-coho fisheries open through the earlier of June 30 or attainment of 26,250 Chinook quota.
June 18	All-salmon-except-coho fisheries closes due to quota attainment.
July 1	All-salmon fisheries open through the earlier of September 15, attainment of 26,250 Chinook quota (modified inseason to 20,493 to adjust for overage in May-June), or a 47,500 non-mark-selective coho quota.
Sept. 4	All-salmon fisheries close due to coho quota attainment.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2013.<sup>a/</sup> (Page 6 of 7)

**RECREATIONAL SEASONS**

Mar. 15-June 30	Cape Falcon to Humbug Mt. all-salmon-except-coho fishery open seven days per week with a 24-inch minimum size limit for Chinook.
Apr. 6-Nov. 10	Horse Mt. to Pt. Arena all-salmon-except-coho fishery open seven days per week with a 20-inch minimum size limit for Chinook.
Apr. 6-July 9	Pt. Arena to U.S./Mexico border all-salmon-except-coho fishery open seven days per week, except June 1 through July 9 when closed on Monday and Tuesday, with a 24-inch minimum size limit for Chinook.
May 1-June 30	Humbug Mt. to OR/CA border all-salmon-except-coho fishery open seven days per week with a 24-inch minimum size limit for Chinook.
May 1-Sept. 8	OR/CA border to Horse Mt. all-salmon-except-coho fishery open seven days per week with a 20-inch minimum size limit for Chinook.
May 10	U.S./Canada border to Queets R. WA (Neah Bay and La Push subareas) all-salmon-except-coho mark-selective Chinook fishery opens May 10-11, May 17-18, and June 22-28 or attainment of the U.S./Canada border to Cape Falcon quota of 8,000 marked Chinook. Fishery is open seven days per week with a 24-inch minimum size limit for Chinook.
June 8	Queets R. to Leadbetter Pt. (Westport subarea) all-salmon-except-coho mark-selective Chinook fishery opens through the earlier of June 22 or attainment of the U.S./Canada border to Cape Falcon quota of 8,000 marked Chinook. Fishery is open seven days per week with a 24-inch minimum size limit for Chinook.
	Leadbetter Pt. to Cape Falcon (Columbia River subarea) all-salmon-except-coho mark-selective Chinook fishery opens through the earlier of June 21 or attainment of the U.S./Canada border to Cape Falcon quota of 8,000 marked Chinook. Fishery is open seven days per week with a 24-inch minimum size limit for Chinook.
June 21	Leadbetter Pt. to Cape Falcon (Columbia River subarea) all-salmon-except-coho mark-selective Chinook fishery closes as scheduled.
June 22	Queets R. to Leadbetter Pt. (Westport subarea) all-salmon-except-coho mark-selective Chinook fishery closes as scheduled.
June 28	U.S./Canada border to Queets R. WA (Neah Bay and La Push subareas) all-salmon-except-coho mark-selective Chinook fishery closes as scheduled.
June 22	Leadbetter Pt. to Cape Falcon, all-salmon mark-selective coho fishery opens though the earlier of September 30 or attainment of a 37,380 marked coho quota (increased by 1,000 to 38,380 through an inseason transfer from the commercial fisheries), with an 9,900 Chinook guideline seven days per week. Bag limit is two fish per day; no more than one Chinook per day prior to August 22, no more than two Chinook per day August 23-Sept.30, Beginning Sept. 1, modified inseason to a non-mark-selective coho fishery with remaining quota converted to an impact neutral quota of 9,785.
June 23	Queets River to Leadbetter Pt., all-salmon mark-selective coho fishery opens though the earlier of September 23 or attainment of a 27,660 marked coho quota (increased by 1,480 to 29,140 through an inseason transfer from the commercial fisheries), with a 23,500 Chinook guideline (decreased by 3,200 to 20,300 through an inseason transfer to the commercial fisheries). Sun.-Thurs prior to July 18, seven days per week thereafter. Bag-limit of two fish per day; no more than one Chinook per day prior to August 3, no more than two salmon August 4-31 and September 1-30. Beginning Sept. 6, modified inseason to a non-mark-selective coho fishery with remaining quota converted to an impact-neutral quota of 6,350. Grays Harbor Control Zone closed beginning August 11.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2013.<sup>a/</sup> (Page 7 of 7)

<b>RECREATIONAL SEASONS, (continued)</b>	
June 29	U.S./Canada border to Cape Alava, all-salmon mark-selective coho fishery opens through the earlier of September 22 or attainment of a 8,200 marked coho quota (7,780 preseason quota plus transfers of 420 coho from the commercial fishery), with a 4,900 Chinook guideline, seven days per week. Bag-limit is two fish per day plus two additional pinks; no more than one Chinook per day August 10-22.  Cape Alava to Queets River, all-salmon mark-selective coho fishery opens through the earlier of September 22 or attainment of a 2,990 (1,890 preseason quota plus transfers of 1,100 coho from the commercial fishery) marked coho quota, with a 1,650 Chinook guideline, seven days per week. Bag-limit is two fish per day, plus two additional pinks; no more than one Chinook per day August 10-22.
July 1	Cape Falcon to OR/CA border all-salmon mark-selective-coho fishery opens through the earlier of July 31 or attainment of a 10,500 marked coho quota. Fishery is open seven days per week with a 24-inch minimum size limit for Chinook.
July 10-Nov.10	Pt. Arena to Pigeon Pt. all-salmon-except-coho fishery open seven days per week with a 24-inch minimum size limit through July 31 for Chinook; 20-inch minimum size limit thereafter.
July 10-Oct. 6	Pigeon Pt. to U.S./Mexico border all-salmon-except-coho fishery open seven days per week with a 24-inch minimum size limit for Chinook.
July 31	Cape Falcon to OR/CA border all-salmon mark-selective-coho fishery closes as scheduled.
Aug. 1-31	Cape Falcon to Humbug Mt. all-salmon-except-coho fishery open seven days per week with a 24-inch minimum size limit for Chinook.
Aug. 1-Sept. 8	Humbug Mt. to OR/CA border all-salmon-except-coho fishery open seven days per week with a 24-inch minimum size limit for Chinook.
Sept. 1	Cape Falcon to Humbug Mt. non-mark-selective coho fishery opens Sept. 1-2 then Thursday through Saturday through Sept. 7. Open seven days per week beginning Sept. 12 through Sept. 30 or attainment of a 19,580 coho quota (16,000 preseason plus an impact-neutral roll-over of 3,580 from the July mark-selective fishery).
Sept. 3	Cape Falcon to Humbug Mt., all-salmon-except-coho fishery opens Sept. 3-4 then Sept. 8 through 11, Sunday through Wednesday.
Sept. 8	Humbug Mt. to OR/CA border all-salmon-except-coho fishery closes as scheduled.
Sept. 28	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 Oct. 13 or attainment of 50 Chinook quota or a 50 coho quota.
Sept. 22	U.S./Canada border to Queets River recreational fishery closes as scheduled.
Sept 30	Queets River to Cape Falcon, recreational fishery closes as scheduled.
Sept. 30	Cape Falcon to Humbug Mt. recreational non-mark-selective coho fishery closes as scheduled.
Oct. 1-31	Cape Falcon to Humbug Mt. all-salmon-except-coho fishery open seven days per week with a 24-inch minimum size limit for Chinook.
Oct. 13	La Push area (48 00'00" N. Lat. to 47 50'00" N. Lat.), all-salmon mark-selective coho fishery closes as scheduled.

a/ Unless stated otherwise, season openings or modifications of restrictions are effective at 00:01 hours of the listed date. Closures are effective at 23:59 hours of the listed date.

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**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	-	-	-	15.5	16.0	-	-	16.0	-	-	-	-	-	-
2012	-	-	-	-	-	11.7	-	11.7	-	-	-	-	-	-
2013 <sup>b/</sup>	-	11.7	12.0	14.6	13.8	13.9	-	13.2	-	-	-	-	-	-
<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	-	-	-	13.7	11.7	-	-	13.3	-	-	-	-	-	-
2012	-	-	-	-	-	10.5	-	10.5	-	-	-	-	-	-
2013 <sup>b/</sup>	-	9.1	11.2	11.0	11.9	11.2	-	10.7	-	-	-	-	-	-

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	-	-	-	14.3	14.7	12.5	-	14.5	-	-	-	-	-	-
2012	-	-	-	11.3	12.1	12.2	-	11.6	-	-	-	-	-	-
2013 <sup>b/</sup>	-	12.2	13.4	13.3	12.9	12.8	-	13.2	-	-	-	-	-	-
<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	-	13.2	13.1	13.8	13.9	12.9	15.0	13.5	-	-	-	-	-	-
2012	-	10.4	11.4	11.8	12.8	13.1	12.9	11.6	-	-	-	-	-	-
2013 <sup>b/</sup>	-	11.4	13.0	12.7	15.1	12.3	13.7	12.4	-	-	-	-	-	-

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

Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Season <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	-	14.9	14.4	14.5	12.5	12.6	-	14.6	-	-	-	-	-	-
2012	-	10.7	13.3	13.9	12.5	11.6	-	12.2	-	-	-	-	-	-
2013 <sup>b/</sup>	-	12.4	13.6	16.0	14.6	12.2	-	13.3	-	-	-	-	-	-
<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	-	13.8	13.5	14.2	14.6	12.8	15.0	14.2	-	-	-	-	-	-
2012	-	10.5	12.3	12.1	12.5	12.0	12.9	11.7	-	-	-	-	-	-
2013 <sup>b/</sup>	-	11.6	13.1	13.2	13.5	12.5	13.7	12.7	-	-	-	-	-	-

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	-	11.4	11.9	13.1	14.1	13.5	13.1	14.5	11.8	-	12.5
2012	-	9.5	10.3	10.3	10.9	10.5	9.8	9.6	11.3	-	10.1
2013 <sup>a/</sup>	-	9.9	11.2	12.3	12.6	12.2	10.5	10.8	12.2	-	11.5
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	-	-	-	-	4.9	6.0	6.9	-	-	-	5.6
2012	-	-	-	-	4.2	5.6	6.3	-	-	-	6.1
2013 <sup>a/</sup>	-	-	-	-	5.6	5.5	6.9	-	-	-	5.9

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	-	-	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
2012	7.6	10.2	7.9	10.8	10.6	13.6	11.9	14.7	8.8	11.9	-	-	9.4	11.8
2013	7.5	9.6	8.0	10.5	12.1	12.4	13.1	13.0	10.5	12.2	-	-	9.5	11.2
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	-	-	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
2012	-	-	-	-	4.9	4.2	5.4	5.2	5.2	6.2	-	-	5.3	5.4
2013	-	-	4.4	-	4.5	4.5	4.9	5.4	7.0	6.5	-	-	5.1	5.2

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 (2013 dollars)
1960	6,221	3,339	1,365	-	2,446	14,895
1961-1965	7,772	4,206	1,586	-	2,642	14,946
1966-1970	7,925	4,327	2,088	-	2,089	10,536
1971-1975	7,917	6,338	2,542	-	2,461	9,706
1976-1980	7,233	12,083	3,997	-	2,989	8,285
1981-1985	5,082	11,826	3,729	4,920	3,099	6,107
1986-1990	8,392	21,532	2,487	3,622	8,593	13,976
1991-1995	3,083	7,550	1,447	2,960	5,171	7,225
1996-2000	4,337	7,091	852	2,068	8,223	10,400
2001	2,409	4,773	689	1,650	6,927	8,809
2002	5,008	7,776	708	1,586	10,982	13,754
2003	6,392	12,181	584	1,521	20,858	25,610
2004	6,230	17,895	741	1,511	24,150	28,860
2005	4,347	12,913	680	1,477	18,990	21,988
2006	1,043	5,350	477	1,408	11,216	12,600
2007	1,525	7,902	601	1,390	13,149	14,389
2008	-	-	-	1,306	-	-
2009	-	-	-	1,281	-	-
2010	228	1,246	215	1,239	5,794	6,097
2011	992	5,133	464	1,187	11,062	11,418
2012	2,530	13,521	616	1,171	21,950	22,267
2013 <sup>b/</sup>	3,791	23,614	670	1,150	35,245	35,245

a/ Derived from vessel permit database 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		Vessels with Permits	Nominal Average	Real Average
		Exvessel Value (\$ thousands)	Vessels Landing Salmon		Exvessel Value/Vessel (dollars)	Exvessel Value/Vessel (2013 dollars)
1974	-	7,937	2,253	-	3,523	12,237
1975	-	5,808	2,304	-	2,521	8,000
1976-1980 <sup>b/</sup>	6,679	8,185	3,875	4,314	2,112	4,712
1981-1985 <sup>c/d/</sup>	2,969	5,774	2,050	2,993	2,817	4,872
1986-1990	5,688	6,641	1,557	2,528	4,265	6,292
1991-1995 <sup>e/</sup>	1,265	3,294	476	1,465	6,920	9,040
1996-2000	1,428	3,063	399	1,062	7,677	9,224
2001 <sup>f/</sup>	2,949	4,721	449	1,175	10,515	13,371
2002 <sup>f/</sup>	3,498	5,391	468	1,175	11,519	14,426
2003 <sup>f/</sup>	3,681	7,222	494	1,178	14,620	17,951
2004 <sup>f/</sup>	2,920	9,919	595	1,181	16,670	19,922
2005 <sup>f/</sup>	2,691	8,503	565	1,168	15,050	17,426
2006 <sup>f/</sup>	499	2,701	357	1,127	7,565	8,498
2007	565	2,822	436	1,009	6,473	7,084
2008	70	494	138	1,092	3,579	3,841
2009	146	345	225	1,062	1,531	1,631
2010	513	2,791	370	1,021	7,543	7,938
2011	404	2,401	304	1,003	7,899	8,153
2012	745	4,271	369	990	11,576	11,743
2013 <sup>g/</sup>	1,293	7,604	399	963	19,059	19,059

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 (2013 dollars)
1978	4,746	10,025	3,041	3,291	3,297	8,692
1979	5,262	15,091	2,778	3,068	5,432	13,223
1980	3,398	7,114	2,626	2,797	2,709	6,043
1981-1985 <sup>b/c/</sup>	1,433	3,225	1,675	2,233	1,696	3,227
1986-1990	752	1,670	913	1,349	1,997	3,160
1991-1995 <sup>d/e/f/g/</sup>	345	834	397	586	1,607	2,210
1996-2000 <sup>h/i/j/</sup>	126	197	54	270	4,188	5,159
2001	290	383	57	169	6,718	8,542
2002	679	758	75	165	10,102	12,651
2003	875	991	82	163	12,087	14,840
2004	594	1,185	86	160	13,779	16,466
2005	481	1,290	91	158	14,170	16,408
2006	231	1,045	84	158	12,440	13,975
2007	217	953	79	158	12,062	13,200
2008	114	709	86	158	8,244	9,022
2009	291	1,169	97	158	12,051	12,837
2010	537	3,115	116	158	26,856	28,264
2011	339	1,687	112	158	15,066	15,551
2012	452	2,358	105	158	22,457	22,781
2013	481	2,838	108	157	26,275	26,275

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
2013 <sup>d/</sup>	<20	41	6%	1,433	58,772	2%
	21-25	120	18%	2,099	251,883	7%
	26-30	113	17%	2,787	314,919	8%
	31-35	128	19%	5,164	661,034	17%
	36-40	111	17%	7,468	828,989	22%
	41-45	89	13%	10,561	939,941	25%
	46-50	51	8%	10,696	545,502	14%
	51-55	11	2%	10,361	113,969	3%
	>56	6	1%	12,682	76,091	2%
TOTAL	670		5,658	3,791,100		
2012	<20	42	7%	890	37,386	1%
	21-25	112	18%	1,877	210,275	8%
	26-30	99	16%	2,556	253,024	10%
	31-35	122	20%	4,249	518,329	20%
	36-40	104	17%	5,638	586,352	23%
	41-45	82	13%	7,292	597,924	24%
	46-50	41	7%	6,171	252,996	10%
	51-55	8	1%	5,634	45,072	2%
	>56	6	1%	4,838	29,026	1%
TOTAL	616		4,108	2,530,384		
2011	<20	27	6%	252	6,795	1%
	21-25	86	19%	733	63,062	6%
	26-30	79	17%	889	70,270	7%
	31-35	91	20%	1,748	159,080	16%
	36-40	86	19%	3,175	273,088	28%
	41-45	64	14%	4,348	278,295	28%
	46-50	23	5%	4,782	109,992	11%
	51-55	5	1%	3,416	17,078	2%
	>56	3	1%	4,679	14,037	1%
TOTAL	464		2,137	991,697		
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	-	-	-	-	-	

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
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		
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		

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
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		
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		

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
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		
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		

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
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	
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 4)

Year	Vessels			Catch		
	Length Category (feet)	Number <sup>a/</sup>	Percent of Total	Average Per Boat (pounds)	Total (pounds)	Percent of Total
2013 <sup>b/</sup>	<20	4	1%	1,215	4,858	7%
	20-29	102	26%	1,824	186,060	14%
	30-39	127	32%	4,005	508,634	39%
	40-49	138	35%	3,795	523,753	40%
	>50	28	7%	2,524	70,679	5%
	TOTAL	399		3,243	1,293,984	
2012	<20	c/	c/	c/	c/	c/
	20-29	93	25%	919	85,423	11%
	30-39	124	34%	2,290	283,943	38%
	40-49	122	33%	2,697	329,070	44%
	>50	30	8%	1,558	46,727	6%
	TOTAL	369		2,019	745,163	
2011	<20	3	1%	1,157	3,472	2%
	20-29	80	26%	602	48,146	147%
	30-39	102	34%	1,308	133,379	33%
	40-49	97	32%	1,927	186,892	46%
	>50	22	7%	1,491	32,792	8%
	TOTAL	304		1,331	404,681	
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	



TABLE D-8. Oregon salmon troll boat-size catch statistics in pounds of dressed salmon. (Page 2 of 4)

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

TABLE D-8. Oregon salmon troll boat-size catch statistics in pounds of dressed salmon. (Page 3 of 4)

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

TABLE D-8. Oregon salmon troll boat-size catch statistics in pounds of dressed salmon. (Page 4 of 4)

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

2013	<25	9	8%	1,993	17,937	4%
	25-36	34	31%	3,616	122,956	26%
	>36	60	56%	5,623	337,374	70%
	Unknown	5	5%	599	2,993	1%
	TOTAL	108		4,456	481,260	
2012	<25	8	8%	2,389	19,110	4%
	25-36	32	30%	3,687	117,999	26%
	>36	65	62%	4,849	315,197	70%
	Unknown	e/	e/	e/	e/	e/
	TOTAL	105		4,308	452,306	
2011	<25	12	11%	1,329	15,946	5%
	25-36	33	29%	3,002	99,059	29%
	>36	67	60%	3,363	225,317	66%
	Unknown	e/	e/	e/	e/	e/
	TOTAL	112		3,039	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		4,739	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		3,012	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		1,330	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		2,759	217,934	
2006	<25	3	4%	2,398	7,194	3%
	25-36	24	29%	1,983	47,593	21%
	>36	57	68%	3,103	176,873	76%
	Unknown	e/	e/	e/	e/	e/
	TOTAL	84		2,758	231,660	
2005	<25	6	7%	4,309	25,854	5%
	25-36	24	26%	4,801	115,228	24%
	>36	61	67%	5,565	339,488	71%
	Unknown	e/	e/	e/	e/	e/
	TOTAL	91		5,281	480,570	

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
2004	<25	8	9%	4,463	35,700	6%
	25-36	20	23%	5,797	115,933	20%
	>36	58	67%	7,636	442,879	74%
	Unknown	e/	e/	e/	e/	e/
	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	
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	14	61%	4,493	62,907	77%
	Unknown	e/	e/	e/	e/	e/
	TOTAL	23		3,547	81,591	
1997	<25	7	14%	322	2,253	3%
	25-36	16	31%	1,468	23,491	29%
	>36	28	55%	1,972	55,203	68%
	Unknown	e/	e/	e/	e/	e/
	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	

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
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	
1994 <sup>d/</sup>	<25	0	-	-	-	-
	25-36	0	-	-	-	-
	>36	e/	e/	e/	e/	e/
	Unknown	0	-	-	-	-
	TOTAL	e/	e/	e/	e/	e/
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.

e/ Fewer than three vessels. Values combined with nearest category to preserve confidentiality.

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, 2013.

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	39	5,956	32,909	24%
	>36	69	18,269	106,257	76%
	TOTAL	108	24,225	139,166	
Eureka	<26	95	14,886	98,479	8%
	26-36	206	47,250	289,295	24%
	>36	340	139,443	815,580	68%
	TOTAL	641	201,579	1,203,354	
Shelter Cove	<26	179	53,312	296,137	100%
	26-36	a/	a/	a/	a/
	>36	0	0	0	0%
	TOTAL	179	53,312	296,137	
Fort Bragg <sup>b/</sup>	<26	206	53,460	299,589	4%
	26-36	715	314,170	1,784,218	23%
	>36	892	1,006,096	5,654,189	73%
	TOTAL	1,813	1,373,726	7,737,996	
Bodega Bay	<26	348	71,820	430,837	11%
	26-36	597	198,107	1,161,545	29%
	>36	449	403,724	2,466,193	61%
	TOTAL	1,394	673,651	4,058,575	
San Francisco	<26	245	24,678	170,307	4%
	26-36	251	118,845	778,043	20%
	>36	524	442,500	2,965,071	76%
	TOTAL	1,020	586,023	3,913,421	
Half Moon Bay	<26	76	13,102	99,496	3%
	26-36	308	139,291	998,275	27%
	>36	478	360,158	2,618,744	71%
	TOTAL	862	512,551	3,716,515	
Santa Cruz	<26	290	23,437	179,965	34%
	26-36	200	27,723	207,375	39%
	>36	49	18,778	142,701	27%
	TOTAL	539	69,938	530,041	
Moss Landing	<26	228	16,898	120,359	11%
	26-36	318	50,573	353,465	33%
	>36	143	92,963	611,694	56%
	TOTAL	689	160,434	1,085,518	
Monterey	<26	261	20,184	132,605	31%
	26-36	263	36,046	233,532	55%
	>36	56	8,473	59,763	14%
	TOTAL	580	64,703	425,900	
Morro Bay south	<26	197	19,542	141,135	28%
	26-36	286	37,328	262,626	52%
	>36	127	14,088	104,042	21%
	TOTAL	610	70,958	507,803	

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 2013 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	3	30	3,810	18,396	4%
	25-36	6	59	14,932	74,464	14%
	>36	21	274	71,391	432,385	82%
	Unknown	c/	c/	c/	c/	c/
	TOTAL	30	363	90,133	525,245	
La Push	<25	4	49	7,484	34,074	7%
	25-36	7	91	18,952	97,184	20%
	>36	15	246	64,163	353,680	73%
	Unknown	c/	c/	c/	c/	c/
	TOTAL	26	386	90,599	484,938	
Westport	<25	3	64	6,643	34,114	2%
	25-36	28	512	87,539	501,063	28%
	>36	49	804	195,735	1,227,326	70%
	Unknown	0	-	-	-	-
	TOTAL	80	1,380	289,917	1,762,503	
Ilwaco	<25	0	-	-	-	-
	25-36	3	39	1,533	8,876	18%
	>36	8	103	6,037	40,364	82%
	Unknown	c/	c/	c/	c/	c/
	TOTAL	11	142	7,570	49,240	
Puget Sound <sup>d/</sup>	<25	-	-	-	-	-
	25-36	-	-	-	-	-
	>36	c/	c/	c/	c/	c/
	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	464	58	12.5%	204	44.0%
2012	616	100	16.2%	312	50.6%
2013 <sup>a/</sup>	670	103	15.4%	328	49.0%

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	304	32	10.5%	113	37.2%
2012	369	41	11.1%	144	39.0%
2013 <sup>b/</sup>	399	52	13.0%	158	39.6%

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>	<3	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%
2012	105	24	22.9%	67	63.8%
2013	108	25	23.1%	67	62.0%

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 2013 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 (\$ thousands)	Percent
<b>CALIFORNIA</b>						
California	633	94%	3,378,239	89%	21,059	89%
Oregon	20	3%	186,101	5%	1,130	5%
Washington	11	2%	190,487	5%	1,208	5%
Unknown/Other	6	1%	36,274	1%	218	1%
<b>TOTAL</b>	<b>670</b>		<b>3,791,101</b>		<b>23,614</b>	
<b>OREGON</b>						
Oregon	317	79%	1,065,535	82%	6,267	82%
California	34	9%	93,974	7%	585	8%
Washington	44	11%	116,791	9%	689	9%
Unknown/Other	4	1%	17,684	1%	104	1%
<b>TOTAL</b>	<b>399</b>		<b>1,293,984</b>		<b>7,645</b>	
<b>WASHINGTON</b>						
Washington	93	86%	436,164	91%	2,546	90%
Oregon	10	9%	42,103	9%	276	10%
California	0	0%	0	0%	0	0%
Unknown/Other	5	5%	2,993	1%	16	1%
<b>TOTAL</b>	<b>108</b>		<b>481,260</b>		<b>2,838</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>															Grand Total <sup>c/</sup>
	California (length)				Oregon (length)				Washington (length)				Total (length) <sup>b/</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	110	166	169	445	0	2	9	11	1	0	2	3	113	170	181	464
2012	151	213	218	582	0	4	14	18	0	1	8	9	154	221	241	616
2013 <sup>e/</sup>	157	233	243	633	1	3	16	20	1	1	9	11	161	241	268	670

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	84.2%	5.6%	9.2%	1.0%
2012	82.4%	4.3%	11.9%	1.4%
2013 <sup>a/</sup>	79.4%	8.5%	11.0%	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%
2012	85.7%	11.4%	1.9%	0.0%	1.0%
2013	86.1%	9.3%	0.0%	0.0%	4.6%

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	
2013 <sup>b/</sup>	Active	5	41	9	9	0	64
	Casual	15	27	3	5	1	51
	TOTAL	20	68	12	14	1	115
2012	Active	14	38	7	8	1	68
	Casual	11	24	3	3	0	41
	TOTAL	25	62	10	11	1	109
2011	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	39
	Casual	21	25	6	4	0	56
	TOTAL	23	49	12	11	0	95
2006	Active	9	41	10	5	0	65
	Casual	15	17	1	4	0	37
	TOTAL	24	58	11	9	0	102
2005	Active	16	46	10	5	0	77
	Casual	9	17	1	3	0	30
	TOTAL	25	63	11	8	0	107
2004	Active	16	48	11	8	0	83
	Casual	7	12	1	1	1	22
	TOTAL	23	60	12	9	1	105
2003	Active	10	43	11	3	0	67
	Casual	14	10	2	4	0	30
	TOTAL	24	53	13	7	0	97
2002	Active	17	50	13	5	0	85
	Casual	23	6	4	2	0	35
	TOTAL	40	56	17	7	0	120
2001	Active	17	40	10	4	0	71
	Casual	6	21	2	1	1	31
	TOTAL	23	61	12	5	1	102
2000	Active	23	46	9	2	0	80
	Casual	2	15	0	2	1	20
	TOTAL	25	61	9	4	1	100
1999	Active	7	43	2	1	0	53
	Casual	14	28	11	3	0	56
	TOTAL	21	71	13	4	0	109

a/ Active vessels landed more than 100 salmon; casual vessels landed 100 salmon or less.

b/ 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
2012	252	204	42	6
2013	NA	NA	NA	NA

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/ Beginning 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	142	137	5	0
2010	142	137	5	0
2011	142	136	6	0
2012	142	135	7	0
2013 <sup>b/</sup>	142	137	5	0

a/ First year moratorium in effect.

b/ Preliminary.

TABLE D-22. Price index.<sup>a/</sup>

Year	Price Index
1960	16.4
1961	17.7
1962	17.9
1963	18.1
1964	18.4
1965	18.7
1966	19.2
1967	19.8
1968	20.7
1969	21.7
1970	22.8
1971	24.0
1972	25.0
1973	26.4
1974	28.8
1975	31.5
1976	33.3
1977	35.4
1978	37.9
1979	41.1
1980	44.8
1981	49.0
1982	52.0
1983	54.1
1984	56.1
1985	57.8
1986	59.1
1987	60.8
1988	62.9
1989	65.3
1990	67.8
1991	70.2
1992	71.9
1993	73.4
1994	75.0
1995	76.5
1996	78.0
1997	79.4
1998	80.3
1999	81.5
2000	83.2
2001	78.6
2002	79.9
2003	81.4
2004	83.7
2005	86.4
2006	89.0
2007	91.4
2008	93.2
2009	93.9
2010	95.0
2011	96.9
2012	98.6
2013 <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.

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# Marine Fisheries Management Zones

