## Review of 2017 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 |
| $\mathrm{F}_{\text {MSY }}$ | 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 |

## LIST OF ACRONYMS AND ABBREVIATIONS (continued)

| PSC | Pacific Salmon Commission |
| :--- | :--- |
| PST | Pacific Salmon Treaty |
| RER | rebuilding exploitation rate |
| RK | Rogue/Klamath (coho) |
| SACL annual catch limit spawner abundance |  |
| SAFE | stock assessment and fishery evaluation (document) |
| SCH | Spring Creek Hatchery (tule fall Chinook returning to SCH) |
| SDC | status determination criteria |
| SEAK | Southeast Alaska |
| SMSY | 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 (Chinook) |
| SRWC | Sacramento River winter Chinook |
| STEP | Salmon Trout Enhancement Program |
| STT | Salmon Technical Team (formerly the Salmon Plan Development Team) |
| SUS | Southern United States |
| TAC | total allowable catch |
| URB | Up River Bright (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 |

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## 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 2017 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. 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.

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 2018 ocean salmon management measures. Preseason Report I will constitute the first part of the EA for 2018 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 2018 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 Councilmanaged 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 provides 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 provides detailed 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 ( $\mathrm{F}_{\text {MSY }}$ );
- 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 maximum sustainable yield (MSY) spawning escapement ( $\mathrm{S}_{\mathrm{MSY}}$ );
- A stock is rebuilt when the most recent 3-year geometric mean spawning escapement exceeds $\mathrm{S}_{\text {MSY }}$.

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 are evaluated relative to these SDC as required by the FMP. In addition, new conservation objectives were adopted in 2011 for some stocks based on revised estimates of $\mathrm{S}_{\text {MSY }}$ and $\mathrm{F}_{\text {MSY }}$, 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 III6.

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 III. 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 2017 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.

## CHAPTERI

## 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 Pacific Fishery Management Council's (Council) 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 Pacific Salmon Commission (PSC).

## COUNCIL-AREA REGULATIONS AND LANDINGS

Summaries of the 2017 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 2017 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 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-46: 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 following sections provide a brief outline of the regulatory objectives that shaped the 2017 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 Fishery Management Plan (FMP) - defined control rules for Sacramento River fall Chinook (SRFC), Klamath River fall Chinook (KRFC), and by National Marine Fisheries Service (NMFS) Endangered Species Act (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 2017 Chinook salmon fisheries south of Horse Mountain (near Shelter Cove, California) to meet the following objectives (in order of most to least constraining):

1. A Klamath basin natural area spawning escapement of no less than 11,379 fall Chinook adults which is produced, in expectation, by a spawner reduction rate of 8.1 percent, along with the allocation objective of 50 percent of the allowable adult harvest for federally-recognized tribal subsistence and commercial fisheries.
2. The SRWC ESA consultation standard requiring:
a. A maximum forecast age-3 impact rate for the area south of Point Arena of 15.8 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 SRFC spawner escapement of no less than 122,000 hatchery and natural area adults, which is produced, in expectation, by a total exploitation rate of 47.1 percent.
4. The California Coastal Chinook ESA consultation standard requiring a forecast KRFC age-4 ocean harvest rate of no greater than 16.0 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 2017 Chinook fisheries management in this area. Additional SRWC-focused management measures recommended by the California Department of Fish and Wildlife (CDFW) further constrained fisheries south of Point Arena. The adopted regulations (Table I-1 and I-3) resulted in the following projections: a KRFC spawning escapement of 11,379 natural area adults, a SRWC age-3 impact rate of 12.2 percent for the area south of Point Arena, a SRFC spawner escapement of 133,242 hatchery and natural area adults, and a coastwide ocean fishery harvest rate of 3.1 percent on age-4 KRFC.

## Coho Fisheries

Coho fishery management for 2017 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 $0.1,1.1$, and 2.6 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 2017 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 KRFC, SRFC, and by NMFS ESA consultation standards for California Coastal Chinook, LCN coho, OCN coho, and SONCC coho. The Council structured 2017 Chinook salmon fisheries in the KMZ to meet the following objectives (in order of most to least constraining):

1. A Klamath basin natural area spawning escapement of no less than 11,379 fall Chinook adults, which is produced, in expectation, by a spawner reduction rate of 8.1 percent, along with the allocation objective of 50 percent of the allowable adult harvest for federally-recognized tribal subsistence and commercial fisheries.
2. A SRFC spawner escapement of no less than 122,000 hatchery and natural area adults which is produced, in expectation, by a total exploitation rate of 47.1 percent.
3. The California Coastal Chinook ESA consultation standard requiring a forecast KRFC age-4 ocean harvest rate of no greater than 16.0 percent.
4. The LCN coho ESA consultation standard requirement of no greater than an 18.0 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 2017 Chinook fisheries management in the KMZ. The adopted regulations (Table I-1 and I-3) resulted in the following projections: a KRFC spawning escapement of 11,379 natural area adults, a SRFC spawner escapement of 133,242 hatchery and natural area adults, and a coastwide ocean fishery harvest rate of 3.1 percent on age- 4 KRFC.

## 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 0.0 percent, as Council area commercial and recreational salmon fisheries in the KMZ were closed in 2017. Coho are managed as a unit south of Cape Falcon, and details
of the Council's management objectives shaping the 2017 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 FMP-defined control rules 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 2017 Chinook salmon fisheries in this area to meet the following objectives (in order of most to least constraining):

1. A Klamath basin natural area spawning escapement of no less than 11,379 fall Chinook adults, which is produced, in expectation, by a spawner reduction rate of 8.1 percent, along with the allocation objective of 50 percent of the allowable adult harvest for federally-recognized tribal subsistence and commercial fisheries.
2. A SRFC spawner escapement of no less than 122,000 hatchery and natural area adults which is produced, in expectation, by a total exploitation rate of 47.1 percent.
3. The California Coastal Chinook ESA consultation standard requiring a forecast KRFC age-4 ocean harvest rate of no greater than 16.0 percent.
4. 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.
5. The LCN coho ESA consultation standard requirement of no greater than an 18.0 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 which was accepted by the Council as expert biological advice in November 2000.
7. The SONCC coho ESA consultation standard requirement of no greater than 13.0 percent marine exploitation rate on RK hatchery coho.

Objective 1 was the constraining factor for 2017 Chinook fisheries management in this management area. The adopted regulations (Table I-1 and I-3) resulted in the following projections: a KRFC spawning escapement of 11,379 natural area adults, a SRFC spawner escapement of 133,242 hatchery and natural area adults, and a coastwide ocean fishery harvest rate of 3.1 percent on age- 4 KRFC.

## 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 2017 coho salmon fisheries in this area to meet the following objectives:

1. The LCN coho ESA consultation standard requirement of no greater than an 18.0 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 13.0 percent marine exploitation rate on RK hatchery coho.

Objective 1 was the most constraining factor on 2017 coho fisheries management in this area. The Council adopted seasons in this area with projected impacts of $2.4,5.5$, and 0.4 percent on LCN natural coho, OCN coho, and RK coho, respectively. In all relevant fisheries, projected exploitation rates were 11.4, 9.3, and 3.5 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 fall Chinook, Lower Columbia River Wild (LRW) fall Chinook, Snake River Wild (SRW) fall Chinook and Puget Sound 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 adult-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 2017 ocean fisheries in this area. Under the adopted regulations (Tables I-1, I-2, and I-3), fisheries were projected to have a 36.9 percent total AEQ exploitation rate on LCR natural tules ( 12.7 percent in Council-area fisheries), and be 48 percent of the 1988 to 1993 base period AEQ exploitation rate for SRW (a 52 percent reduction).

## Coho Fisheries

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 18.0 percent.
2. An exploitation rate on Interior Fraser coho of no more than 10.0 percent in southern U.S. (SUS) fisheries in accordance with the provisions of the southern coho management plan adopted by the PSC in February 2002.
3. 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.
4. Meet FMP conservation objectives and obligations under the PST Southern Coho Management Plan for stocks originating on the Washington coast, Puget Sound, and British Columbia, and inside/outside and treaty Indian/non-Indian allocation objectives with special attention to low run size predictions for Queets natural coho.
5. Meet FMP objectives for allocation of impacts between commercial and recreational ocean fisheries, and among port areas for the recreational fishery.

Objective 4 above was the primary constraint for 2017 ocean fisheries in this area. The adopted regulations (Tables I-1, I-2, and I-3) were projected to have a total exploitation rate on LCN coho of 11.4 percent (7.6 percent in Council-area fisheries), an exploitation rate in SUS fisheries of 7.6 percent on Interior Fraser (Thompson River) coho ( 1.9 percent in Council-area fisheries), and a total exploitation rate of 9.3 percent on OCN coho ( 7.5 percent in Council-area fisheries). Per the PST Southern Coho Management Plan, Tribal and Washington Department of Fish and Wildlife (WDFW) co-managers agreed to a 2017 escapement objective of 5,130 Queets wild coho; the adopted regulations were projected to meet this escapement objective.

## 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.

The Council assumed hook-and-release mortality rates 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 a hook-and-release mortality rate 15 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

No recreational fisheries selective for marked Chinook were planned for the four ocean subareas between Cape Falcon, Oregon, and the U.S./Canada border in 2017. Recreational fisheries in the Strait of Juan de Fuca operated under mark-selective retention restrictions for Chinook in Area 5 and the portion of Area 6 west of Port Angeles, from July 1 through August 15, 2017 (Figure I-1). The Area 5 mark-selective fishery was managed to a threshold of total legal-sized encounters for the fishery $(7,940)$ and the Area 6 markselective fishery was managed as a season. After August 15, the fishery in Area 5 converted to markselective for coho until August 31 and Area 6 closed to salmon retention. Catch and release estimates, derived from creel census programs conducted during the mark-selective fishery for Chinook in Area 5 from July 1 through August 15 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 Chinook mark rates were higher than predicted preseason. Observed non-retention mortality was slightly higher than anticipated, and the catch was less than expected for Chinook (Table I-8).

Mark-selective Chinook fisheries were also held in Puget Sound Area 7 from July 1 through 31, in Area 9 from July 16 through 30, in Area 10 from July 16 through August 15, in Area 11 from June 1 through September 30, and in Area 12 from July 1 through September 30 (Figure I-1). Winter mark-selective
fisheries are scheduled in Area 5 from March 16 through April 30, 2018, in Area 6 from March 1 through April 15, 2018, and in Area 7 from January 1 through April 30, 2018. Winter mark-selective Chinook fisheries are also scheduled in Areas 8-1 and 8-2 from November 1, 2017, through April 30, 2018, in Area 9 from November 1 through 30, 2017, and February 16 through April 15, 2018, and in Area 10 from November 1, 2017 through February 28, 2018. Area 11 is scheduled for mark-selective Chinook opportunity from November 1, 2017, through April 30, 2018, Area 12 is scheduled from October 1, 2017, through April 30, 2018, and Area 13 is open for mark-selective Chinook from May 1, 2017 until April 30, 2018.

## Selective Coho Fisheries

Commercial troll fisheries selective for marked coho were planned for the area between the U.S./Canada border and Cape Falcon, Oregon. Recreational fisheries selective for marked coho were planned for the area between the U.S./Canada border and Humbug Mountain, Oregon, and the inside fishery at Buoy 10 (Figure I-1). Other inside and freshwater recreational fisheries in Washington and Oregon had markselective restrictions for coho. 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 in most areas of the ocean fisheries both north and south of Cape Falcon were lower than what was predicted preseason. Observed non-retention mortality was lower than expected south of Cape Falcon. North of Cape Falcon, the recreational fishery had higher non-retention mortality than predicted and the commercial fishery had lower than expected non-retention mortality due to inseason coho quota transfers between the gear types.

## 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 inseason 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 southerlydistributed Columbia River tule and Puget Sound stocks.

In June 1999, the U.S. and Canada reached agreement on a framework for Chinook fishing regimes for 1999 through 2008. Under this agreement, 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 catches 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. A new agreement is currently under negotiation, since this current agreement will expire at the end of 2018.

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 U.S. 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. However, relative to meeting the provisions of the PST, the ISBM indices are evaluated on a post-season basis only.

As in previous years, AABM fisheries were conducted in accordance with the obligations set forth in the 2009 PST agreement. Unlike in 2015, the PSC reached agreement in 2017 on calibration of the PST Chinook Model that produces the Abundance Index (AI) for the three AABM fisheries. The AI corresponds to a total allowable catch of "Treaty" Chinook per provisions in the PST. 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 2017 AI for the SEAK fisheries was 1.27 , which corresponds to a catch ceiling of 209,700 Treaty Chinook. The preliminary estimate of 2017 total catch of Chinook by SEAK fisheries was 211,000 while the catch of Treaty Chinook was 178,300 (Table I-10). The SEAK troll fishery was reduced from its allowable share in order to protect depressed SEAK origin Chinook stocks. These catches were significantly less than the total catch of 387,000 Chinook and 350,900 Treaty fish in 2016. The AIs for Northern B.C. and WCVI were 1.15 and 0.79 respectively, corresponding to total allowable catches of 149,500 and 115,300 Chinook. The catch in the Northern B.C. AABM fisheries (Northern B.C. troll plus Haida Gwaii [Queen Charlotte Islands] recreational) in 2017 was 143,300 Chinook ( 97,700 troll; 45,600 recreational) and a decrease from the total catch of 190,200 in 2016. The Northern B.C. troll fishery in 2017 was conducted under a system of individual transferable quotas that was fully implemented beginning in 2008.

In addition to the overall catch ceiling determined by the PST, Canada's principal management objectives for the 2017 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 catch in 2017 was 94,200 Chinook ( 47,500 troll, and 46,700 recreational; Table I-11), a slight increase from the 87,900 Chinook caught in 2016.

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 earlyrun Fraser River Chinook stocks. During accounting year 2017 (October 2016 through September 2017), troll fisheries were open for retention of Chinook in all months except June (Table I-12). To protect Interior Fraser coho, only marked coho could be retained 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 localorigin stocks. The fishery harvested 46,700 fish, significantly more than the 38,800 caught in 2016.

Catch estimates for all Canadian ISBM fisheries in Northern B.C. were incomplete; the reported Chinook catch in 2017 was approximately 1,400 by commercial gillnets. Approximately 6,600 Chinook were caught by anglers from lodges in Rivers Inlet, Hakai Pass, and Bella Bella and by private anglers on the mainland coast. Tidal area recreational catch estimates near the mainland coast of Northern B.C. in 2017 were not available. Catches by First Nations were approximately 10,100 Chinook for the North Coast. Catches by First Nations were not available for Haida Gwaii and Central Coast. Southern B.C. ISBM fisheries in 2017 harvested 242,900 Chinook (30,500 commercial, 90,100 First Nations, 122,300 recreational).

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 preseason estimates of impacts were in compliance with terms of the PST agreement. Information necessary to evaluate the postseason impacts of Council-area fisheries was not available.

## Coho Fisheries

In 2002, the PSC adopted a management plan for coho salmon originating in Washington and Southern B.C. river systems. The plan is directed at the conservation of key management units, four from Southern B.C. (Interior Fraser, Lower Fraser, Strait of Georgia Mainland, and 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 2017 abundance indicated that the status of interior Fraser River coho remained depressed, but there are indications in recent years that their condition might be improving. In 2017, Canadian fisheries were managed for an exploitation rate of 3 to 5 percent on interior Fraser River coho, less than the 10 percent ceiling allowed under the PSC coho management plan and less than the rates used for management in 2014 ( 16 percent ceiling) and 2015 ( 8.5 percent). 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 2017, approximately 339,600 coho were retained in troll fisheries in Northern and Central B.C. Catches in Southern B.C. commercial fisheries were minor, limited by the status of Interior Fraser coho. 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 2017 was 49,400 . 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. harvested 32,500 coho.

TABLE I-1. Summary of actual ocean non-Indian commercial troll salmon fishing regulations for 2017. (Page 1 of 2)

| Area and Season |  | Actual Quota |  | Special Restrictions ${ }^{\text {a/ }}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | Salmon Species | Chinook | Coho |  |
| U.S./Canada Border to Cape Falcon, OR |  |  |  |  |
| May 1-June 30 | All except coho | $27,000$ <br> w ith suballocation by area | b/ | Chinook minimum size limit of 28 inches total length. Landing limits were adjusted inseason. Mandatory Yellow eye Rockfish Conservation Area, Cape Flattery and Columbia Control Zones closed. Vessels must land and deliver their fish within 24 hours of any closure of this fishery and landings were generally restricted to area of catch. Refer to complete 2017 ocean salmon regulations for detailed landing and notification requirements. |
| July 1-4, July 7-Sept. 19 | All salmon | 20,205 <br> w ith suballocation by area. | c/ $2,500{ }^{\text {d/ }}$ | Chinook minimum size limit of 28 inches total length. Coho minimum size limit of 16 inches total length. All coho must be marked with a healed adipose fin clip. No chum retention north of Cape Alava in Aug. and Sept. Days open per week, landing limits, and quotas were adjusted inseason. Mandatory Yellow eye Rockfish Conservation Area, Cape Flattery and Columbia Control Zones, and beginning Aug. 14, Grays Harbor Control Zone Closed. Vessels must land and deliver their fish within 24 hours of any closure of this fishery and landings were generally restricted to area of catch. Refer to |

Cape Falcon to Florence South Jetty, OR
Apr. 15-May 31, June 7-12, June 15- All except coho None 30, July 8-31, Sept. 1-Oct 31

Florence South Jetty to Humbug Mt., OR
Closed
Ek River Ocean Terminal Area Inside of a line from Cape Blanco to Black Rock to Best Rock to $42^{\circ} 40 \prime 30 "$ N. Lat. 124ㅇ29'00" W. Long. to Humbug Mt.
Oct. 15-Nov. 30
Chinook only
None

Chinook minimum size limit of 26 inches total length. Landing and possession limit of 20 Chinook per vessel per day. Landings restricted to Port Orford.

Humbug Mt. to OR/CA Border

## Closed

Chetco River Terminal Area Tw in Rocks to OR/CA Border
inside 3 nm
Oct. 9-13, 16-17, 26-27 vessel per day. Landings restricted to Brookings.

TABLEI-1. Summary of actual ocean non-Indian commercial troll salmon fishing regulations for 2017. (Page 2 of 2)

| Area and Season | Salmon Species | Actual Quota |  | Special Restrictions ${ }^{\text {a/ }}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook | Coho |  |
| OR/CA Border to Horse Mt. |  |  |  |  |
| Closed | - | - | - |  |
| Horse Mt. to Pt. Arena |  |  |  |  |
| Sept. 1-5, 8-12, 15-19, 22-26, 29-30 | All except coho | 3,000 | - | Five days per week ( $\mathrm{F}-\mathrm{Tu}$ ). Chinook minimum size limit of 27 inches total length. Landing and possession limit of 60 Chinook per open period. All fish caught in this area must be landed betw een the OR/CA border and Point Arena. All fish must be offloaded within 24 hours of any closure of the fishery and prior to fishing outside the area. |
| Pt. Arena to Pigeon Pt. |  |  |  |  |
| Aug. 1-29, Sept. 1-30 | 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. All salmon caught in California prior to September 1 must be landed and offloaded no later than 11:59 p.m., August 30. In September, all fish must be landed south of Point Arena until the quota in the Fort Bragg fishery is met and the fishery has closed for 24 hours. |
| Fall Area Target Zone |  |  |  |  |
| Pt. Reyes to Pt. San Pedro |  |  |  |  |
| Oct. 2-6, 9-13 | All except coho | None | - | Five days per week (M-F). Chinook minimum size limit of 26 inches total length. All vessels fishing in this area must land and deliver all fish betw een Point Arena and Pigeon Point. |
| Pigeon Pt. to U.S./Mexico Border |  |  |  |  |
| May 1-June 30 | All except coho | None | - | Chinook minimum size limit of 27 inches total length. All fish must be landed in California. All salmon caught prior to September 1 must be landed and offloaded no later than 11:59 p.m. August 30. |

a/ Single-point, single-shank barbless hooks required in all open areas coastw ide. Limited to no more than 4 spreads per wire for all seasons betw een Cape Falcon and the OR/CA border and no more that 6 spreads per wire from the OR/CA border south to the U.S./Mexico border. From May 1- Dec. 31, 2017 and from Apr. 1-30, 2018, license holders may land or possess no more than one Pacific halibut per each tw o Chinook, except one Pacific halibut may be possessed or landed without meeting the ratio, and no more than 35 halibut may be possessed or landed per trip, unless modified by inseason action (inseason action: July 1 - reduced ratio (1 halibut per each four Chinook) and trip limit (10 halibut); Aug. 4 - closed retention of halibut for the remainder of 2017). See Appendix Tables C.1, C.3, C.5, and C. 9 for additional details and inseason adjustments.
b/ No more than 8,900 from U.S./Canada border to Queets R. and 9,000 betw een Leadbetter Pt. and Cape Falcon. In-season actions included changes to weekly landing limits.
c/ Increased from 18,000 after impact-neutral roll over quota remaining from spring fishery, no more than 10,870 of which may be caught in the area betw een the U.S./ Canada border and the Queets River. In-season actions included changes to w eekly landing limits.
d/ Decreased from 5,600 by an impact-neutral transfer to sport fishery.

TABLE I-2. Summary of actual treaty Indian commercial ocean and Area 4B troll salmon seasons for 2017.

| Tribe and Area | Seasons ${ }^{\text {a/ }}$ |  |  | Minimum Size Limit (Inches) |  | Special Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Salmon |  |  |  |  |  |
|  | Species | Dates | Days | Chinook | Coho |  |
| Quinault |  |  |  |  |  |  |
| Areas 2-3 | All except coho | May 1-June 30 | 61 | 24 | - |  |
|  | All | July 1-Sept. 15 | 77 | 24 | 16 |  |
| Hoh |  |  |  |  |  |  |
| Areas 2-3 | All except coho | May 1-June 30 | 61 | 24 | - |  |
|  | All | July 1-Sept. 15 | 77 | 24 | 16 |  |
| Quileute |  |  |  |  |  |  |
| Area 3 | All except coho | May 1-June 30 | 61 | 24 | - |  |
|  | All | July 1- Aug. 31 | 62 | 24 | 16 |  |
| Makah |  |  |  |  |  |  |
| Areas 3N, 4, and 4A | All except coho | May 1-June 30 | 61 | 24 | - |  |
|  | All ${ }^{\text {/ }}$ | July 1-Aug. 14 | 45 | 24 | 16 |  |
|  | All ${ }^{\text {/ }}$ | Aug. 15-21 | 7 | 24 | 16 | 100 coho per vessel per w eek |
|  | All ${ }^{\text {b/ }}$ | Aug. 22-31 | 10 | 24 | 16 | 175 coho per vessel per w eek |
|  | All ${ }^{\text {b/ }}$ | Sept. 1-8 | 8 | 24 | 16 | 50 coho per vessel per w eek |
|  | All ${ }^{\text {/ }}$ | Sept. 9-10 | 2 | 24 | 16 | 75 coho per vessel per w eek |
|  | All ${ }^{\text {b/ }}$ | Sept. 11-14 | 4 | 24 | 16 | 100 coho per vessel per w eek |
| Area 4B | All ${ }^{\text {b/ }}$ | Jan. 1-Apr. 15 | 105 | 22 | 16 |  |
|  | All except coho | May 1-June 30 | 61 | 24 | - |  |
|  | All ${ }^{\text {b/ }}$ | July 1-Aug. 14 | 45 | 24 | 16 |  |
|  | All ${ }^{\text {b/ }}$ | Aug. 15-21 | 7 | 24 | 16 | 100 coho per vessel per w eek |
|  | All ${ }^{\text {b/ }}$ | Aug. 22-31 | 10 | 24 | 16 | 175 coho per vessel per w eek |
|  | All ${ }^{\text {b/ }}$ | Sept. 1-8 | 8 | 24 | 16 | 50 coho per vessel per w eek |
|  | All ${ }^{\text {/ }}$ | Sept. 9-10 | 2 | 24 | 16 | 75 coho per vessel per w eek |
|  | All ${ }^{\text {b/ }}$ | Sept. 11-14 | 4 | 24 | 16 | 100 coho per vessel per w eek |
|  | All ${ }^{\text {b/ }}$ | Nov. 1-Dec. 31 | 61 | 24 | 16 |  |
| S'Klallam |  |  |  |  |  |  |
| Area 4B | All ${ }^{\text {b/ }}$ | Jan. 1-Apr. 15 | 105 | 22 | 16 |  |
|  | All except coho | May 1-June 30 | 61 | 24 | - |  |
|  | All ${ }^{\text {b/ }}$ | July 1-Aug. 31 | 62 | 24 | 16 |  |
|  | All ${ }^{\text {b/ }}$ | Nov. 1-Dec. 31 | 61 | 24 | 16 |  |

a/ The overall quotas for these fisheries during the May 1-Sept. 15 ocean salmon management period w ere 40,000 Chinook and 12,500 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 w as divided preseason to provide 20,000 Chinook for the May 1-June 30 Chinook-directed season and 20,000 Chinook for the July 1-Sept. 15 all-salmon season. The Quileute C\&S fishery (September-October) did not operate in 2017. Single point, single shank barbless hooks w ere required in all ocean fisheries.
b/ Retention of steelhead prohibited; retention of chum prohibited beginning August 1.
Area and Season
U.S./Canada Border to Cape Falcon, OR
Salmon Species Chinook Coho ${ }^{2 / 2}$

Daily Limit and Special Restrictions ${ }^{\mathrm{b} /}$
U.S./Canada Border to Cape Alava, WA
(Neah Bay subarea)
June 24-Sept. 4

Cape Alava to Queets R., WA
(La Push subarea)
June 24-Sept. 4
Queets R. to Leadbetter Pt., WA
(Westport subarea)
July 1-Aug. 22

Leadbetter Pt., WA to Cape Falcon, OR
(Columbia River subarea)
July 1-Aug. 22
Cape Falcon to Humbug Mt.
Mar. 15-June 23, Aug. 1-Sept. 1, Sept. 8-Oct. 31
June 24-July 31

Sept. 2-7
Ek River Ocean Terminal Area
Inside of a line from Cape Blanco to Black Rock to Best Rock to 42응́30" N. Lat. 124o29'00" W. Long. to Humbug Mt.
Nov. 1-30
Humbug Mt. to OR/CA Border (Oregon KMZ) Closed
Chetco River Terminal Area
Tw in Rocks to OR/CA border inside 3 nm Oct. 7-8, 14-15

All salmon
$7,900{ }^{\text {c/ }}$

All salmon
2,500 ${ }^{\text {c/ }}$
1,490

All salmon
21,400 ${ }^{\text {c/ }}$

All salmon $\quad 13,200^{c /} \quad 22,527$

All except coho
All salmon

## All salmon

7,900
Chinook only
3,970
must be marked with a healed adipose fin clip. Chinook nonretention east of the Bonilla-Tatoosh line during Council managed ocean fishery beginning Aug. 1.

Tw o salmon daily. All coho must be marked w ith a healed adipose fin clip.

Tw o salmon daily, only one may be a Chinook through Jul. 21; tw o salmon per day thereafter. All coho must be marked with a healed adipose fin clip. Grays Harbor Control Zone closed beginning Aug. 14.

Tw o salmon daily, only one may be a Chinook. All coho must be marked w ith a healed adipose fin clip. Columbia River Control Zone closed.

Tw o salmon daily. In October, the fishery is only open shorew ard of the 40 fathom regulatory line.
Tw o salmon daily, all coho must have a healied adipose fin clip. Cape Falcon to Humbug Mt.: Shorew ard of the 15 fathom curve off Tillamook Bay betw een Tw in Rocks and Pyramid Rock and prior to Aug. 1, only fin-clipped Chinook may be retained or be on board while fishing. Fishing in the Stonew all Bank groundfish conservation area restricted to trolling only on days the all depth recreational halibut fishery is open.
Tw o salmon daily.
Tw o Chinook daily, one of which can be unmarked; no more than 10 unmarked per season in aggregate w ith Ek R., Sixes R., Floras Ck., and New R.

One Chinook daily. Chinook min. size limit of 28 inches total length.

TABLE - 3 . Summary of actual ocean recreational salmon fishing regulations for 2017. (Page 2 of 2)

| Area and Season | Salmon Species | Actual Quota |  | Daily Limit and Special Restrictions ${ }^{\text {b/ }}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook | Coho ${ }^{\text {a/ }}$ |  |
| OR/CA Border to Horse Mt. (California KMZ) |  |  |  |  |
| Closed | - |  |  |  |
| Horse Mt. to Pt. Arena (Fort Bragg) |  |  |  |  |
| Apr. 1-May 31, Aug. 15-Nov. 12 | All except coho | None | - | Tw o salmon daily. Chinook min. size limit of 20 inches total length. |
| Pt. Arena to Pigeon Pt. (San Francisco) |  |  |  |  |
| Apr. 1-30, May 15-Oct. 31 | All except coho | None | - | Tw o salmon daily. Chinook min. size limit of 24 inches total length through April 30, 20 inches thereafter. |
| Pigeon Pt. to Pt. Sur (Monterey North) |  |  |  |  |
| Apr. 1-July 15 | All except coho | None | - | Tw o salmon daily. |
| Pt. Sur to U.S./Mexico Border (Monterey South) |  |  |  |  |
| Apr. 1-May 31 | All except coho | None | - | Tw o salmon daily. |

## a/ All coho fisheries and quotas are mark-selective for fish with a healed adipose fin clip unless otherw ise noted

b/ Unless otherw ise noted, minimum size limits are 24 inches for Chinook and 16 inches for coho. Seasons open 7 days per week. For a complete description of gear restrictions, see the annual ocean salmon regulations or the annual Preseason Report III, Table 2.
c/ Total Chinook quota for the North of Falcon area is 45,000 fish. Numbers presented for Chinook are sub area guidelines (not quotas).

|  | 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 meth 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 |  |  |  |  |  |
|  |  | Effort (boat days fished) | Catch |  |  |  |  |  | Effort (salmon angler trips) | Catch (numbers of fish) |  |  |  | Per <br> Angler Trip |
|  |  |  | Numbers of Fish |  |  | Thousands of Pounds (Dressed Weight) |  |  |  |  |  |  |  |  |
|  |  |  | Chinook | Coho | Pink | Chinook | Coho | Pink |  | Chinook | Coho | Pink | Total |  |
| ¢ | WASHINGTON ${ }^{\text {a/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Div | 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 |
| 0 | 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 |
| (1) | 1976-80 | 43,787 | 188,610 | 717,302 | 412,880 | 2,364 | 3,675 | 789 | 397,637 | 114,092 | 511,827 | 23,544 | 649,463 | 1.6 |
| $\stackrel{\text { O}}{ }$ | $1981-85^{\text {b/ }}$ | 12,782 | 71,326 | 217,754 | 149,974 | 944 | 744 | 358 | 163,344 | 54,662 | 172,399 | 5,915 | 232,976 | 1.4 |
| T! | 1986-90 | 6,078 | 71,534 | 137,942 | 33,565 | 847 | 259 | 117 | 119,412 | 26,075 | 165,058 | 1,919 | 193,051 | 1.6 |
| $\frac{\bar{c}}{\square}$ | 1991-95 | 4,156 | 42,477 | 76,334 | 32,072 | 453 | 111 | 112 | 104,949 | 11,156 | 131,364 | 2,484 | 145,003 | 1.4 |
| $\stackrel{\text { D }}{\text { D }}$ | 1996-00 | 660 | 25,267 | 28,492 | 1,682 | 286 | 24 | 9 | 38,459 | 4,940 | 41,445 | 1,799 | 48,184 | 1.3 |
| ¢ | 2001-05 | 1,721 | 79,452 | 41,007 | 1,122 | 1,123 | 41 | 4 | 109,947 | 35,251 | 109,200 | 6,862 | 151,312 | 1.4 |
|  | 2006 | 2,243 | 47,314 | 33,203 | 0 | 634 | 432 | 0 | 65,263 | 10,667 | 36,087 | 0 | 46,754 | 0.7 |
|  | 2007 | 1,864 | 37,211 | 45,924 | 731 | 526 | 550 | 3 | 72,683 | 8,944 | 83,788 | 4,670 | 97,402 | 1.3 |
|  | 2008 | 1,803 | 29,543 | 15,970 | 0 | 352 | 180 | 0 | 37,610 | 14,635 | 18,870 | 0 | 33,505 | 0.9 |
|  | 2009 | 2,818 | 24,542 | 80,718 | 935 | 316 | 899 | 3 | 101,560 | 12,351 | 138,493 | 7,627 | 158,471 | 1.6 |
| $\infty$ | 2010 | 3,293 | 77,475 | 13,565 | 0 | 928 | 151 | 0 | 80,955 | 36,874 | 36,278 | 0 | 73,152 | 0.9 |
|  | 2011 | 2,664 | 58,726 | 16,617 | 1,289 | 740 | 180 | 5 | 73,596 | 29,203 | 39,582 | 10,828 | 79,613 | 1.1 |
|  | 2012 | 3,020 | 91,644 | 40,798 | 0 | 1,100 | 461 | 0 | 77,659 | 33,729 | 31,434 | 0 | 65,163 | 0.8 |
|  | 2013 | 3,904 | 91,250 | 54,309 | 350 | 1,049 | 571 | 1 | 80,014 | 28,918 | 46,140 | 7,668 | 82,726 | 1.0 |
|  | 2014 | 3,543 | 100,557 | 71,518 | 0 | 1,247 | 759 | 0 | 119,617 | 40,025 | 123,057 | 0 | 163,082 | 1.4 |
|  | 2015 | 4,099 | 114,447 | 7,236 | 190 | 1,330 | 65 | 1 | 97,114 | 39,431 | 74,737 | 8,631 | 122,799 | 1.3 |
|  | 2016 | 2,256 | 40,587 | 44 | 0 | 477 | 1 | 0 | 51,437 | 16,907 | 16,059 | 0 | 32,966 | 0.6 |
|  | $2017^{\text {c/ }}$ | 3,269 | 57,397 | 14,668 | 208 | 596 | 144 | 1 | 61,453 | 20,037 | 36,087 | 732 | 56,856 | 0.9 |

TABLE $1-4$. Council area commercial and recreational ocean salmon fishing effort and landings by state. Data are provisional, pending further review of data compilation methods. A double dash ("- -") indicates no records are available. Few er than 500 pounds may be show $n$ as zero. (Page 2 of 4)

| Year or Average | COMMERCIAL TROLL |  |  |  |  |  |  | RECREATIONAL |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Effort (boat days fished) | Catch |  |  |  |  |  | Effort (salmon angler trips) | Catch (numbers of fish) |  |  |  | Per <br> Angler <br> Trip |
|  |  | Numbers of Fish |  |  | Thousands of Pounds (Dressed Weight) |  |  |  |  |  |  |  |  |
|  |  | Chinook | Coho | Pink | Chinook | Coho | Pink |  | Chinook | Coho | Pink | Total |  |
| OREGON ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 10,998 | -- | 2,427 | 4,252 | 139 | 387,743 | 39,974 | 289,189 | -- | 329,163 | 0.8 |
| 1981-85 | 10,117 | 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 |
| 1996-00 | 7,187 | 129,523 | 6,133 | 380 | 1,414 | 14 | 2 | 45,609 | 11,231 | 12,459 | 60 | 23,750 | 0.5 |
| 2001-05 | 12,019 | 282,567 | 5,749 | 124 | 3,109 | 39 | 0 | 118,845 | 39,942 | 66,017 | 0 | 105,959 | 0.9 |
| 2006 | 4,502 | 34,857 | 1,414 | 0 | 486 | 13 | 0 | 62,321 | 11,588 | 15,577 | 0 | 27,165 | 0.4 |
| 2007 | 5,217 | 35,487 | 17,109 | 80 | 464 | 101 | 0 | 88,264 | 6,941 | 60,653 | 0 | 67,594 | 0.8 |
| 2008 | 803 | 5,954 | 434 | 0 | 66 | 4 | 0 | 30,418 | 1,578 | 12,085 | 2 | 13,665 | 0.4 |
| 2009 | 1,234 | 1,149 | 21,962 | 18 | 15 | 131 | 0 | 84,518 | 1,585 | 89,606 | 0 | 91,191 | 1.1 |
| 2010 | 4,296 | 39,433 | 1,040 | 0 | 506 | 7 | 0 | 53,319 | 4,967 | 18,295 | 0 | 23,262 | 0.4 |
| 2011 | 3,752 | 32,081 | 464 | 49 | 402 | 3 | 0 | 48,756 | 5,164 | 18,832 | 0 | 23,996 | 0.5 |
| 2012 | 6,256 | 73,101 | 624 | 0 | 741 | 4 | 0 | 67,308 | 18,794 | 16,079 | 0 | 34,873 | 0.5 |
| 2013 | 8,986 | 112,757 | 452 | 0 | 1,291 | 2 | 0 | 85,535 | 30,234 | 14,536 | 0 | 44,770 | 0.5 |
| 2014 | 10,703 | 208,096 | 10,998 | 0 | 2,571 | 67 | 0 | 121,506 | 18,480 | 99,507 | 0 | 117,987 | 1.0 |
| 2015 | 8,729 | 104,259 | 2,213 | 0 | 1,189 | 11 | 0 | 66,039 | 9,442 | 28,282 | 0 | 37,724 | 0.6 |
| 2016 | 4,392 | 42,347 | - | 0 | 518 | 0 | 0 | 38,864 | 4,095 | 8,410 | 0 | 12,505 | 0.3 |
| 2017 ${ }^{\text {/ }}$ | 2,052 | 21,842 | 470 | 0 | 265 | 2 | 0 | 42,309 | 4,594 | 21,222 | 0 | 25,816 | 0.6 |


| $\begin{aligned} & \text { Do } \\ & \stackrel{1}{2} . \\ & \stackrel{\rightharpoonup}{0} \\ & \sum_{0}^{0} \end{aligned}$ | Year or <br> Average | COMMERCIAL TROLL |  |  |  |  |  |  | RECREATIONAL |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Effort (boat days fished) | Catch |  |  |  |  |  | Effort (salmon angler trips) | Catch (numbers of fish) |  |  |  | Per Angler Trip |
| $\stackrel{v}{\stackrel{\rightharpoonup}{*}}$ |  |  | Numbers of Fish |  |  | Thousands of Pounds (Dressed Weight) |  |  |  |  |  |  |  |  |
| $\bigcirc$ |  |  | Chinook | Coho | Pink | Chinook | Coho | Pink |  | Chinook | Coho | Pink | Total |  |
| (\%) | CALIFORNIA ${ }^{\text {e/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 1966-70 | -- | 486,300 | 319,700 | 7,400 | 4,925 | 2,352 | 37 | 189,800 | 120,800 | 33,200 | 0 | 154,000 | 0.8 |
| 0 | 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 |
| З | 1976-80 | 95,003 | 618,637 | 210,303 | 500 | 5,867 | 1,184 | 3 | 163,469 | 95,422 | 31,158 | 0 | 126,580 | 0.8 |
| $\bigcirc$ | 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 |
| $\cdots$ | 1986-90 | 58,511 | 794,703 | 46,780 | 300 | 8,097 | 262 | 2 | 240,667 | 166,395 | 40,388 | 0 | 206,783 | 0.9 |
| $\stackrel{\text { ® }}{ }$ | 1991-95 | 25,700 | 341,928 | 42,475 | 0 | 3,429 | 94 | 0 | 215,996 | 170,296 | 22,399 | 0 | 192,695 | 0.9 |
| $\stackrel{\bar{\Phi}}{\infty}$ | 1996-00 | 18,299 | 368,001 | - | 0 | 4,037 | - | 0 | 194,586 | 157,742 | 452 | 0 | 158,194 | 0.8 |
|  | 2001-05 | 17,187 | 383,921 | - | 0 | 4,877 | - | 0 | 180,127 | 147,974 | 979 | 0 | 148,953 | 0.8 |
|  | 2006 | 8,259 | 69,728 | - | 0 | 1,043 | - | 0 | 126,506 | 96,292 | 1,626 | 0 | 97,918 | 0.8 |
|  | 2007 | 10,671 | 114,141 | - | 0 | 1,525 | - | 0 | 105,889 | 47,704 | 746 | 0 | 48,450 | 0.5 |
|  | 2008 | - | - | - | - | - | - | - | 391 | 6 | - | 0 | 6 | 0.0 |
| N | 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 | 17,293 | 297,627 | - | 0 | 3,793 | - | 0 | 147,296 | 116,074 | 361 | 0 | 116,435 | 0.8 |
|  | 2014 | 14,394 | 168,283 | - | 0 | 2,253 | - | 0 | 120,307 | 74,840 | 479 | 0 | 75,319 | 0.6 |
|  | 2015 | 13,011 | 110,507 | - | 0 | 1,188 | - | 0 | 81,778 | 37,480 | 41 | 0 | 37,521 | 0.5 |
|  | 2016 | 7,198 | 55,185 | - | 0 | 615 | - | 0 | 70,099 | 38,012 | 70 | 0 | 38,082 | 0.5 |
|  | $2017{ }^{\text {c/ }}$ | 6,679 | 42,261 | - | 0 | 496 | - | 0 | 73,552 | 61,616 | 464 | 0 | 62,080 | 0.8 |

TABLEI-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. Few er than 500 pounds may be show n 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) |  |  |  | Per <br> Angler Trip |
|  |  | Numbers of Fish |  |  | Thousands of Pounds (Dressed Weight) |  |  |  |  |  |  |  |  |
|  |  | Chinook | Coho | Pink | Chinook | Coho | Pink |  | Chinook | Coho | Pink | Total |  |
| COUNCIL AREA ${ }^{\text {a/d/e/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 938,603 | 413,380 | 10,658 | 9,111 | 930 | 948,849 | 249,488 | 832,174 | 23,544 | 1,105,206 | 1.2 |
| 1981-85 ${ }^{\text {b/ }}$ | 82,664 | 679,481 | 577,980 | 154,474 | 6,830 | 2,626 | 489 | 543,838 | 196,845 | 357,658 | 8,615 | 563,117 | 1.0 |
| 1986-90 | 102,743 | 1,261,163 | 581,965 | 38,165 | 12,675 | 2,478 | 140 | 601,240 | 228,183 | 424,082 | 2,419 | 654,684 | 1.1 |
| 1991-95 | 38,873 | 485,349 | 238,176 | 32,452 | 4,821 | 530 | 114 | 420,491 | 190,686 | 256,764 | 2,544 | 449,993 | 1.1 |
| 1996-00 | 26,146 | 522,792 | 34,625 | 2,062 | 5,736 | 38 | 11 | 278,654 | 173,912 | 54,356 | 1,859 | 230,128 | 0.8 |
| 2001-05 | 30,927 | 745,940 | 46,757 | 1,246 | 9,109 | 80 | 4 | 408,920 | 223,168 | 176,195 | 6,862 | 406,224 | 1.0 |
| 2006 | 15,004 | 151,899 | 34,617 | 0 | 2,163 | 445 | 0 | 254,090 | 118,547 | 53,290 | 0 | 171,837 | 0.7 |
| 2007 | 17,752 | 186,839 | 63,033 | 811 | 2,516 | 651 | 3 | 266,836 | 63,589 | 145,187 | 4,670 | 213,446 | 0.8 |
| 2008 | 2,606 | 35,497 | 16,404 | 0 | 419 | 183 | 0 | 68,419 | 16,219 | 30,955 | 2 | 47,176 | 0.7 |
| 2009 | 4,052 | 25,691 | 102,680 | 953 | 331 | 1,030 | 3 | 191,437 | 14,608 | 228,107 | 7,627 | 250,342 | 1.3 |
| 2010 | 9,564 | 131,996 | 14,605 | 0 | 1,662 | 158 | 0 | 182,941 | 56,650 | 54,748 | 0 | 111,398 | 0.6 |
| 2011 | 13,389 | 160,835 | 17,081 | 1,338 | 2,133 | 183 | 5 | 214,028 | 84,189 | 58,730 | 10,828 | 153,747 | 0.7 |
| 2012 | 23,798 | 380,330 | 41,422 | 0 | 4,371 | 464 | 0 | 292,974 | 176,449 | 47,614 | 0 | 224,063 | 0.8 |
| 2013 | 30,183 | 501,634 | 54,761 | 350 | 6,134 | 573 | 1 | 312,845 | 175,226 | 61,037 | 7,668 | 243,931 | 0.8 |
| 2014 | 28,640 | 476,936 | 82,516 | 0 | 6,071 | 827 | 0 | 361,430 | 133,345 | 223,043 | 0 | 356,388 | 1.0 |
| 2015 | 25,839 | 329,213 | 9,449 | 190 | 3,708 | 76 | 1 | 244,931 | 86,353 | 103,060 | 8,631 | 198,044 | 0.8 |
| 2016 | 13,846 | 138,119 | 44 | 0 | 1,610 | 1 | 0 | 160,400 | 59,014 | 24,539 | 0 | 83,553 | 0.5 |
| $2017{ }^{\text {c/ }}$ | 12,000 | 121,500 | 15,138 | 208 | 1,358 | 146 | 1 | 177,314 | 86,247 | 57,773 | 732 | 144,752 | 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 WA-based effort and catch from OR state w aters (July 26-Aug. 1) and Strait of Juan de Fuca after WDFW and NMFS ocean closures in 1982.
c/ Preliminary.
d/ OR commercial troll landings include small numbers of salmon caught in Alaska (prior to 1990), WA, and CA. 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 relatively minor in all years except 2004
when 25,655 Chinook w ere landed and 227 days fished in Oregon waters.

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

| Year | COMMERCIAL TROLL |  |  |  | RECREATIONAL |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Effortal } \\ & \text { (days } \end{aligned}$ | Catch (numbers of fish) |  |  | Effort (salmon | Catch (numbers of fish) |  |  |  | Salmon Per |
|  | fished) | Chinook | Coho | Pink | angler trips) | Chinook | Coho | Pink | Total | Angler Trip |

Treaty Indian (U.S./Canada Border to Leadbetter Point) ${ }^{\text {b/: }}$

| 2010 | 857 | 32,376 | 11,461 | 0 | - |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 2011 | 600 | 31,824 | 13,564 | 1,074 | - |
| 2012 | 960 | 54,789 | 37,530 | 0 | - |
| 2013 | 1,596 | 51,160 | 48,268 | 209 | - |
| 2014 | 1,521 | 61,850 | 56,111 | 0 | - |
| 2015 | 1,454 | 59,134 | 4,364 | 122 | - |
| 2016 | 628 | 23,243 | 44 | 0 | - |
| $2017^{\circ /}$ | 896 | 24,464 | 13,300 | 195 | - |

Non-Indian:

| 2010 | 3,068 | 56,219 | 3,144 | 0 | 53,813 | 31,465 | 17,473 | 0 | 48,938 | 0.9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2011 | 2,353 | 29,738 | 3,517 | 215 | 48,852 | 23,607 | 18,947 | 10,828 | 53,382 | 1.1 |
| 2012 | 2,476 | 45,299 | 3,892 | 0 | 54,689 | 26,315 | 21,715 | 0 | 48,030 | 0.9 |
| 2013 | 2,595 | 42,035 | 6,493 | 141 | 55,518 | 22,289 | 29,681 | 7,668 | 59,638 | 1.1 |
| 2014 | 2,838 | 54,889 | 23,109 | 0 | 75,349 | 30,984 | 64,725 | 0 | 95,709 | 1.3 |
| 2015 | 3,463 | 66,195 | 5,085 | 68 | 63,725 | 30,017 | 39,027 | 8,631 | 77,675 | 1.2 |
| 2016 | 1,853 | 19,402 | - | 0 | 27,183 | 11,951 | 101 | 0 | 12,052 | 0.4 |
| $2017{ }^{\text {c/ }}$ | 2,715 | 35,560 | 1,838 | 13 | 38,688 | 14,374 | 21,032 | 732 | 36,138 | 0.9 |
| -- -- - CAPE FALCON TO HUMBUG MOUNTAIN --- - |  |  |  |  |  |  |  |  |  |  |
| 2010 | 3,483 | 27,444 | - | 0 | 37,115 | 2,331 | 12,127 | 0 | 14,458 | 0.4 |
| 2011 | 3,174 | 27,919 | - | 0 | 35,113 | 2,609 | 12,758 | 0 | 15,367 | 0.4 |
| 2012 | 5,458 | 59,213 | - | 0 | 43,649 | 7,767 | 14,198 | 0 | 21,965 | 0.5 |
| 2013 | 7,992 | 103,996 | - | 0 | 59,291 | 17,867 | 10,084 | 0 | 27,951 | 0.5 |
| 2014 | 9,117 | 175,768 | 3,296 | 0 | 92,183 | 9,355 | 82,200 | 0 | 91,555 | 1.0 |
| 2015 | 7,391 | 89,154 | - | 0 | 48,455 | 5,501 | 19,304 | 0 | 24,805 | 0.5 |
| 2016 | 4,040 | 39,891 | - | 0 | 30,344 | 2,552 | 5,704 | 0 | 8,256 | 0.3 |
| $2017{ }^{\text {c/ }}$ | 1,601 | 18,886 | - | 0 | 31,729 | 2,180 | 14,652 | 0 | 16,832 | 0.5 |
| - - - - HUMBUG MOUNTAIN TO HORSE MOUNTAIN (KMZ) - - - - - |  |  |  |  |  |  |  |  |  |  |
| 2010 | 181 | 869 | - | 0 | 10,179 | 1,544 | 110 | 0 | 1,654 | 0.2 |
| 2011 | 490 | 3,717 | - | 0 | 21,209 | 10,923 | 126 | 0 | 11,049 | 0.5 |
| 2012 | 687 | 10,675 | - | 0 | 50,203 | 48,767 | 276 | 0 | 49,043 | 1.0 |
| 2013 | 1,368 | 16,994 | - | 0 | 49,936 | 44,430 | 676 | 0 | 45,106 | 0.9 |
| 2014 | 869 | 16,766 | - | 0 | 37,702 | 22,646 | 849 | 0 | 23,495 | 0.6 |
| 2015 | 552 | 4,269 | - | 0 | 17,894 | 4,874 | 150 | 0 | 5,024 | 0.3 |
| 2016 | 186 | 594 | - | 0 | 13,141 | 5,503 | 79 | 0 | 5,582 | 0.4 |
| $2017{ }^{\text {c/ }}$ | 109 | 329 | - | 0 | 2,012 | 506 | - | - | 506 | 0.3 |
| - - - - - HorSe Mountain to u.S./MEXICO BORDER - - - - |  |  |  |  |  |  |  |  |  |  |
| 2010 | 1,975 | 15,088 | - | 0 | 44,438 | 14,089 | 125 | 0 | 14,214 | 0.3 |
| 2011 | 6,772 | 67,637 | - | 0 | 76,727 | 39,835 | 218 | 0 | 40,053 | 0.5 |
| 2012 | 14,217 | 210,354 | - | 0 | 116,625 | 84,482 | 34 | 0 | 84,516 | 0.7 |
| 2013 | 16,632 | 287,449 | - | 0 | 117,468 | 82,093 | 124 | 0 | 82,217 | 0.7 |
| 2014 | 14,295 | 167,663 | - | 0 | 99,673 | 59,013 | 197 | 0 | 59,210 | 0.6 |
| 2015 | 12,979 | 110,461 | - | 0 | 72,839 | 33,790 | 29 | 0 | 33,819 | 0.5 |
| 2016 | 7,139 | 54,989 | - | 0 | 61,146 | 33,012 | 43 | 0 | 33,055 | 0.5 |
| $2017{ }^{\text {c/ }}$ | 6,679 | 42,261 | - | 0 | 73,552 | 61,616 | 464 | 0 | 62,080 | 0.8 |

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 2017 Council managed fisheries compared with actual harvest by management area and fishery.

|  | Chinook |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fishery Governed by Quota or Guideline | Quota or Guideline ${ }^{a /}$ | Catch | Catch/ Quota | Quota | Catch | Catch/ Quota |


| NORTH OF CAPE FALCON |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TREATY INDIAN COMMERCIAL TROLL |  |  |  |  |  |  |
| May-June, All salmon except coho | 20,000 | 3,296 | 0.16 | - | - |  |
| July-September, All salmon except coho | $36,720{ }^{\text {b/ }}$ | 21,168 | 0.58 | 12,500 | 13,300 | 1.06 |
| Subtotal Treaty Indian Commercial Troll | $40,000{ }^{\text {c/ }}$ | 24,464 | 0.61 | 12,500 | 13,300 | 1.06 |
| NON-INDIAN COMMERCIAL TROLL |  |  |  |  |  |  |
| May-June, All salmon except coho | 27,000 * | 22,704 | 0.84 | - | - | - |
| July-August, All salmon except coho | 20,205 * | 12,856 | 0.71 | 2,500 | 1,838 | 0.74 |
| Subtotal Non-Indian Commercial Troll | $45,000{ }^{\text {c/ }}$ | 35,560 | 0.79 | 2,500 | 1,838 | 0.74 |
| RECREATIONAL |  |  |  |  |  |  |
| U.S./Canada Border to Cape Alava |  |  |  |  |  |  |
| Cape Alava to Queets River |  |  |  |  |  |  |
| June 24-Sept. 4, All salmon, coho mark-selective | 2,500 * | 482 | 0.19 | 1,490 | 1,750 | 1.17 |
| Queets River to Leadbetter Pt. |  |  |  |  |  |  |
| July 1-Sept. 4, All salmon, coho mark-selective | 21,400 * | 6,605 | 0.31 | 17,113 ${ }^{\text {b/ }}$ | 15,750 | 0.92 |
| Leadbetter Pt. to Cape Falcon |  |  |  |  |  |  |
| June 24-Sept. 4, All salmon, coho mark-selective | 13,200 * | 7,571 | 0.57 | 22,527 ${ }^{\text {b/ }}$ | 21,625 | 0.96 |
| Subtotal Recreational | 45,000 | 21,945 | 0.49 | 45,100 | 42,658 | 0.95 |
| TOTAL NORTH OF CAPE FALCON | 130,000 | 81,969 | 0.63 | 60,100 | 57,796 | 0.96 |

## SOUTH OF CAPE FALCON

| COMMERCIAL TROLL (all except coho) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Horse Mtn. to Pt. Arena (Sept.) | 3,000 | 1,941 | 0.65 | - | - | - |
| RECREATIONAL |  |  |  |  |  |  |
| Cape Falcon to Humbug Mt. coho mark-selective June 24 - July 31 | - | - | - | 18,000 | 6,177 | 0.34 |
| Cape Falcon to Humbug Mt. coho non-mark-selective September 2-30 | - | - | - | 7,900 ${ }^{\text {b/ }}$ | 8,451 | 1.07 |
| TOTAL SOUTH OF CAPE FALCON | 3,000 | 1,941 | 0.65 | 25,900 ${ }^{\text {b/ }}$ | 14,628 | 0.56 |
| GRAND TOTAL COUNCIL AREA | 133,000 ${ }^{\text {b/ }}$ | 83,910 | 0.63 | $86,000{ }^{\text {b/ }}$ | 72,424 | 0.84 |

a/ Guidelines for Chinook fisheries are marked with an asterisk (*).
b/ Quotas do not match preseason quota/guidelines because inseason actions (i.e., trades, transferring quotas on an impact neutral basis, and converting to non-mark-selective fishery equivalence) resulted in increases or decreases to the overall quota. See Tables $1-1,1-2,1-3$, or Appendix Table C-9 for specifics of inseason adjustments.
c/ Subtotals do not sum due to roll-over from one season to the next.

TABLE I-7. Estimated incidental mortality of Chinook and coho in 2017 ocean salmon fisheries. Observed incidental mortality was calculated by scaling preseason projections of incidental mortality by the ratio of observed to projected catch.

|  | 2017 | 2017 Bycatch $^{2}$ | 2017 | Observed in 2017 |
| :--- | :---: | :---: | :---: | :---: |
|  | Catch | Mortality $^{\text {a/ }}$ | Bycatch | Bycatch |
| Area and Fishery | Projection | Projection | Projection $^{\text {b/ }}$ | Catch |

## OCEAN FISHERIES:

NORTH OF CAPE FALCON
Treaty Indian Ocean Troll
Non-Indian Commercial Troll
Recreational
CAPE FALCON TO HUMBUG MT. ${ }^{\text {c/ }}$
Commercial Troll
Recreational
HUMBUG MT. TO OR/CA BORDER ${ }^{\text {c/ }}$
Commercial Troll
Recreational

| 40.0 | 4.1 | 10.3 | 24.5 | 2.5 |
| ---: | ---: | ---: | ---: | ---: |
| 45.0 | 2.5 | 85.5 | 35.6 | 18.6 |
| 45.0 | 7.6 | 40.4 | 21.9 | 3.7 |
|  |  |  |  |  |
| 29.1 | 5.4 | 14.9 | 18.9 | 3.5 |
| 6.0 | 0.4 | 0.7 | 2.2 | 0.1 |
|  |  |  |  |  |
| 0.3 | 0.1 | 0.2 | 0.3 | 0.1 |
| 0.7 | $\mathrm{~d} /$ | 0.1 | 0.5 | $\mathrm{~d} /$ |

OR/CA BORDER TO HORSE MT.
Commercial Troll
Recreational
HORSE MT. TO PT. ARENA
Commercial Troll

| 3.0 | 0.6 | 1.5 | 1.9 | $0.6^{\mathrm{e} /}$ |
| ---: | ---: | ---: | ---: | ---: |
| 1.7 | 0.1 | 0.2 | 1.9 | $0.2^{\mathrm{e} /}$ |
|  |  |  |  |  |
| 19.4 | 3.6 | 9.9 | 27.8 | $15.5^{\mathrm{e} /}$ |
| 26.4 | 1.7 | 3.1 | 53.2 | $4.1^{\mathrm{e} /}$ |
|  |  |  |  |  |
| 25.1 | 4.7 | 12.8 | 12.5 | $1.1^{\mathrm{e} /}$ |
| 6.9 | 0.4 | 0.8 | 6.6 | $0.7^{\mathrm{e} /}$ |
|  |  |  | 121.5 | 41.9 |
| 161.9 | 42.0 | 135.1 | 86.2 | 8.9 |

INSIDE FISHERIES:
Area 4B
Buoy 10

OCEAN FISHERIES:
NORTH OF CAPE FALCON

| Treaty Indian Ocean Troll | 12.5 | 1.5 | 4.2 | 13.3 | 1.6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Non-Indian Commercial Troll | 5.6 | 6.1 | 22.2 | 1.8 | 2.0 |
| Recreational | 42.0 | 7.4 | 31.4 | 42.6 | 9.7 |
| OUTH OF CAPE FALCON |  |  |  |  |  |
| Commercial Troll | - | 5.2 | 20.0 | - | 1.3 |
| Recreational | 24.0 | 7.1 | 35.9 | 14.6 | 4.4 |
| OTAL OCEAN FISHERIES |  |  |  |  |  |
| Commercial Troll | 18.1 | 12.9 | 46.5 | 15.1 | 5.0 |
| Recreational | 66.0 | 14.5 | 67.3 | 57.2 | 14.0 |
| SIDE FISHERIES: |  |  |  |  |  |
| Area 4B | - | - | - | - | - |
| Buoy 10 | 15.0 | 2.5 | 9.1 | 18.8 | $3.6{ }^{\text {e/ }}$ |

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: 15\% (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 drop-off mortality plus fish released.
c/ Includes Oregon territorial w ater, late season Chinook fisheries.
d/ Few er than 50 fish.
e/ Based on reported released Chinook or coho.

TABLE I-8. Summary of 2017 recreational fisheries selective for marked hatchery Chinook (preliminary data)


TABLE I-9. Summary of 2017 recreational and commercial fisheries selective for marked hatchery coho (preliminary data)

| Area | Anticipated Mark Rate | Observed <br> Mark Rate | Preseason Quota | Anticipated Nonretention Mortality ${ }^{\text {a }}$ | Landed Coho Catch |  |  | Unmarked Coho Released ${ }^{\text {b/ }}$ | Estimated Nonretention Mortality ${ }^{\text {a/ }}$ | Effort ${ }^{\text {c/ }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total | Marked | Unmarked |  |  |  |
| Recreational |  |  |  |  |  |  |  |  |  |  |
| Ocean Fisheries |  |  |  |  |  |  |  |  |  |  |
| Neah Bay | 52\% | 53\% | 4,370 | 1,075 | 3,553 | 3,405 | 148 | 3,186 | 869 | 10,791 |
| La Push | 57\% | 46\% | 1,090 | 232 | 1,750 | 1,744 | 6 | 2,119 | 503 | 1,901 |
| Westport | 62\% | 52\% | 15,540 | 2,888 | 15,750 | 15,701 | 49 | 13,981 | 3,505 | 25,997 |
| Columbia River | 69\% | 55\% | 21,000 | 3,199 | 21,625 | 21,527 | 98 | 19,258 | 4,817 | 31,333 |
| North of Cape Falcon Total | - | - | 42,000 | 7,394 | 42,678 | 42,377 | 301 | 38,544 | 9,695 | 70,022 |
| Cape Falcon to OR/CA Border | 55\% | 41\% | 18,000 | 4,018 | 6,177 | 6,131 | 46 | 8,848 | 1,990 | 11,614 |
| Ocean Fisheries Total |  |  | 60,000 | 11,412 | 48,855 | 48,508 | 347 | 47,392 | 11,685 | 81,636 |

Inside Fisheries

| 4B Add-on | - | - | - | - | - | - | - | - |  |
| :--- | ---: | :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Strait of Juan de Fuca $^{\mathrm{d} /}$ | $50 \%$ | $52 \%$ | 9,915 | 2,132 | 2,701 | 2,701 | 0 | 1,190 | 333 |
| Buoy 10 | $67 \%$ | $57 \%$ | $15,000^{\text {e/ }}$ | 2,469 | 18,834 | 18,500 | 334 | 13,847 | 3,573 |
| Inside Fisheries Total | - | - | 24,915 | 4,601 | 21,535 | 21,201 | 334 | 15,037 | 3,906 |

Commercial

| Neah Bay | 52\% | - | - | 132 | 311 | 299 | 12 | 313 | 113 | 286 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| La Push | 54\% | - |  | 756 | 402 | 398 | 4 | 383 | 139 | 219 |
| Westport | 58\% | - |  | 1,769 | 524 | 524 | 0 | 431 | 160 | 407 |
| Columbia River | 64\% | - |  | 3,491 | 601 | 601 | 0 | 390 | 151 | 221 |
| Commercial Total |  |  | 5,600 | 6,148 | 1,838 | 1,822 | 16 | 1,517 | 562 | 1,133 |


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 selective fishery only. No coho MSF occurred from July 1-Aug. 31, 2017.
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 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Terminal | Hatchery |
|  | Troll | Net | Sport |  |  |  | Troll | Net | Sport | Exclusion ${ }^{\text {a/ }}$ | Add-On ${ }^{\text {b/ }}$ |
| 1985 | 215.8 | 33.9 | 24.9 | 211.9 | 33.3 | 23.0 | 0.0 | 6.2 |
| 1986 | 237.7 | 22.1 | 22.6 | 231.6 | 20.6 | 19.0 | 0.0 | 11.1 |
| 1987 | 242.6 | 15.5 | 24.3 | 231.1 | 14.0 | 20.3 | 0.0 | 17.1 |
| 1988 | 231.4 | 21.8 | 26.2 | 217.1 | 17.4 | 22.3 | 0.0 | 22.5 |
| 1989 | 235.7 | 24.2 | 31.1 | 224.2 | 18.5 | 26.8 | 0.0 | 21.5 |
| 1990 | 287.9 | 27.7 | 51.2 | 263.5 | 16.1 | 41.4 | 0.0 | 45.9 |
| 1991 | 264.1 | 34.9 | 60.5 | 231.8 | 21.0 | 45.1 | 0.0 | 61.5 |
| 1992 | 183.8 | 32.1 | 42.9 | 162.6 | 24.0 | 35.3 | 0.0 | 36.8 |
| 1993 | 226.9 | 28.0 | 49.2 | 212.3 | 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 | 68.2 | 86.6 | 304.9 | 20.4 | 63.3 | 40.2 | 64.4 |
| 2006 | 282.3 | 67.4 | 85.8 | 264.0 | 26.7 | 69.4 | 27.0 | 48.4 |
| 2007 | 268.1 | 53.7 | 82.8 | 240.5 | 25.5 | 62.3 | 8.1 | 68.4 |
| 2008 | 151.9 | 43.1 | 49.3 | 126.4 | 14.0 | 32.6 | 5.3 | 66.1 |
| 2009 | 175.6 | 48.4 | 69.6 | 159.1 | 20.7 | 48.1 | 3.7 | 62.0 |
| 2010 | 195.6 | 30.6 | 58.5 | 178.0 | 8.3 | 44.3 | 0.5 | 53.6 |
| 2011 | 242.6 | 48.2 | 66.6 | 220.8 | 16.4 | 54.0 | 0.7 | 65.5 |
| 2012 | 209.1 | 39.7 | 46.5 | 191.6 | 13.5 | 37.7 | 1.1 | 51.4 |
| 2013 | 149.5 | 51.3 | 56.4 | 134.6 | 13.5 | 43.3 | 0.3 | 65.6 |
| 2014 | 355.6 | 50.0 | 86.9 | 340.0 | 21.2 | 74.0 | 0.7 | 56.6 |
| 2015 | 269.9 | 53.7 | 79.8 | 251.1 | 18.8 | 65.2 | 0.2 | 68.1 |
| 2016 | 276.4 | 42.3 | 68.3 | 266.2 | 25.3 | 59.5 | 0.7 | 35.4 |
| 2017 ${ }^{\text {/ }}$ | 129.6 | 25.0 | 56.4 | 123.4 | 7.5 | 47.5 | 0.0 | 32.7 |

a/ Catch in terminal net fisheries. These catches are not subject to PST limitations.
b/ Catch of increased production of Alaska hatchery fish. These catches are not subject to PST limitations.
c/ Preliminary.

| Year or <br> Avg. | Northern B.C. |  | Central B.C. |  | NorthCentral B.C. Sport | WCVI |  |  |  | Strait of Georgia |  |  |  | Juan de Fuca |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | NW Troll SW Troll |  |  |  | Outside Sport | Troll | $\mathrm{Net}^{\text {a/ }}$ | Sport |  |  |  |  |
|  | Troll | Net |  |  | Troll | Net |  |  |  | Net | North ${ }^{\text {b/ }}$ | South | Troll | Net | Sport |
|  |  |  |  |  |  |  |  | CHIN | OK |  |  |  |  |  |  |  |  |
| 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 | 69.3 | 2.7 | 0.0 | 5.3 | 61.4 | 8.2 | 26.9 | 8.7 | 60.6 | 0.0 | 0.4 | 28.2 | 4.1 | 0.0 | 0.0 | 34.2 |
| 2014 | 172.0 | 2.6 | 0.0 | 2.3 | 69.6 | 90.8 | 19.0 | 19.0 | 48.3 | 0.0 | 6.8 | 42.4 | 3.8 | 0.0 | 0.0 | 21.1 |
| 2015 | 106.7 | 3.2 | 0.0 | 5.3 | 75.6 | 40.0 | 14.3 | 10.0 | 48.2 | 0.0 | 0.2 | 47.0 | 4.5 | 0.0 | 0.0 | 41.3 |
| 2016 | 147.4 | 1.6 | 0.0 | 3.2 | 58.6 | 45.3 | 3.8 | 5.1 | 38.8 | 0.0 | 2.3 | 41.2 | 11.1 | 0.0 | 0.0 | 22.9 |
| 2017 ${ }^{\text {/ }}$ | 97.7 | 2.0 | 0.0 | 3.1 | 62.3 | 42.7 | 4.8 | 30.5 | 46.7 | 0.0 | 2.1 | 52.4 | - | 0.0 | 0.0 | 18.6 |
| СОНО |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 1.1 | 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 | 6.4 | 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 | 0.0 | 0.1 | 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 | 3.9 | 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 | 2.0 | 0.6 | 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 | 0.0 | 1.4 | 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 | $78.7^{\text {d/ }}$ | 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 | $97.5^{\text {e/ }}$ | 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 | $6.0^{\text {d/ }}$ | 0.4 | 1.7 | 0.4 | 46.2 | 0.0 | 0.0 | 1.2 | 2.5 | 0.0 | 0.0 | 16.6 |
| 2013 | 378.2 | 21.0 | 21.1 | 24.5 | NA | 5.3 | 0.8 | 1.1 | 72.3 | 0.0 | 2.6 | $19.7{ }^{\text {t/ }}$ | 4.6 | 0.0 | 0.0 | 19.7 |
| 2014 | 177.5 | 26.7 | 0.0 | 11.6 | NA | 2.2 | 32.8 | 0.6 | 23.4 | 0.0 | 1.9 | $13.0{ }^{\text {f/ }}$ | 1.2 | 0.0 | 0.0 | 21.1 |
| 2015 | 255.7 | 20.2 | 0.0 | 1.0 | 96.7 | 3.1 | 3.1 | 0.3 | 29.3 | 0.0 | 0 | 0.8 | 1.9 | 0.0 | 0.0 | 10.7 |
| 2016 | 210.7 | 37.7 | 4.3 | 0.2 | 69.2 | 0.1 | 0.1 | 0.8 | 20.1 | 0.0 | 0.2 | 14.8 | 2.5 | 0.0 | 0.0 | 7.6 |
| $2017^{\text {/ }}$ | 333.2 | NA | 6.4 | NA | NA | 0.1 | 0.2 | 0.8 | 25.1 | 0.0 | 0.5 | 12.1 | 3.3 | 0.0 | 0.0 | 8.2 |

a/ Includes Johnstone Strait nets, net fisheries in Strait of Georgia, and Fraser seine.
b/ Includes Johnstone Strait sport (Chinook). North catch in 2016 includes south catch
c/ Preliminary.
d/ Does not include catch from Areas 5, 6, and 10
e/ Does not include catch from Area 6.
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. | 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 |
| $2012-2013$ | 3,344 | 230 | 312 | 1,018 | 358 | 501 | 1,374 | 25,737 | - | - | - | 2,519 | 35,393 |
| $2013-2014$ | 2,358 | 28 | 25 | 49 | 586 | 1,422 | 13,345 | 40,336 | - | 26,494 | 10,002 | 15,360 | 110,005 |
| $2014-2015$ | 213 | 56 | - | 186 | 612 | 731 | 3,841 | 27,405 | - | - | 13,953 | 7,341 | 54,338 |
| $2015-2016^{\text {b/c/ }}$ | 178 | 13 | 1 | 51 | 342 | 315 | 6,456 | 31,799 | - | - | 7,574 | 2,390 | 49,119 |
| $2016-2017^{\text {b/c/ }}$ | - | - | - | 72 | 276 | 358 | 4,065 | 23,557 | 0 | 8,169 | 6,758 | 4,279 | 47,534 |

a/ Fishery restricted to plugs only.
b/ Includes commercial troll only.
c/ Preliminary.

TABLE I-13. Summary of 2017 coho catch and release in British Columbia commercial fisheries.

| Gear/Area | Coho Kept | Coho Released |
| :--- | ---: | ---: |
| Northern Troll | 333,175 | 29,974 |
| Northern Net | NA | NA |
| North Central Troll | 6,448 | 0 |
| South Central Troll | - | - |
| Central Net | NA | NA |
| Johnstone Strait Troll | 0 | 132 |
| Johnstone Strait Net | 301 | 1,501 |
| Strait of Georgia Net | 179 | 1,273 |
| Strait of Georgia Troll | 0 | 0 |
| Fraser Gill Net | NA | NA |
| Northw est Vancouver Island Troll | 91 | 4,986 |
| Southw est Vancouver Island Troll | 240 | 633 |
| Northw est Vancouver Island Net | 0 | 50 |
| Southw est Vancouver Island Net | 783 | 636 |

TABLE I-14. Summary of 2017 coho catch and release in British Columbia recreational fisheries.

| Area | Kept | Released |
| :--- | ---: | ---: |
| Juan de Fuca Strait | 8,213 | 11,332 |
| Strait of Georgia | 9,882 | 28,844 |
| Johnstone Strait | 5,496 | 4,738 |
| WCV $^{\boldsymbol{\beta}}$ | 25,793 | 25,320 |
| Total | 49,384 | 70,234 |

$\mathrm{a} /$ Includes impacts of mark-selective fisheries and inside fisheries.


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

## CHAPTER II

## CHINOOK SALMON MANAGEMENT

## CENTRAL VALLEY CHINOOK STOCKS

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

## Management Objectives

The following objectives guided Council management of Central Valley Chinook salmon stocks in the 2017 fisheries: (1) for SRWC, the ESA consultation standard specifying a maximum allowable age-3 impact rate of 15.8 percent and restrictions concerning the duration, timing, and minimum size limits for commercial and recreational ocean salmon fisheries south of Point Arena; and (2) for SRFC, an escapement of at least 122,000 hatchery and natural area adults. Harvest impacts on Central Valley Chinook were a primary management concern in fisheries south of Point Arena.

## Regulations to Achieve Objectives

In 2017, fishing opportunity south of Cape Falcon was primarily constrained by the control rule-defined maximum exploitation rate of 8.1 percent on KRFC. Fisheries south of Point Arena were also constrained by the SRWC consultation standard and adopted management measures intended to further reduce impacts on SRWC below what was required by the control rule. Season and size limit details are presented in Tables I-1 and I-3.

## Commercial

Fishery impacts on SRWC were a primary management concern south of Point Arena, while no specific restrictions were required for ocean salmon fisheries to meet the escapement goal for SRFC. SRFC were projected to have a 2017 hatchery and natural area adult escapement of 133,242, which exceeded the minimum allowable escapement, defined by the control rule, of 122,000 adults.

The fishery south of Pigeon Point was open for the months of May and June. The area between Point Arena and Pigeon Point was open for most of August and all of September. An October 2-13 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, which reduced to 26 inches for September and October. The more restrictive regulations south of Pigeon Point were driven primarily by SRWC conservation concerns.

The Fort Bragg area was limited to a 3,000 Chinook September quota with a 27 -inch minimum size limit. The region between Florence South Jetty and Horse Mountain, which includes the central Oregon management area and both the Oregon and California portions of the KMZ, was closed in 2017 with the exception of some Oregon state water only fisheries near the Chetco and Elk rivers during the fall. Oregon fisheries between Cape Falcon and Florence South Jetty were open with a 28 -inch minimum size limit for half of April, all of May, and portions of June and July. After an August closure, the area re-opened for the months of September and October. Fall fisheries were conducted inshore of the 40 fathom regulatory line. These regulations were adopted primarily to meet KRFC management objectives.

## Recreational

Recreational fisheries south of Point Arena were structured primarily to limit impacts on SRWC, while no specific restrictions were implemented to meet the SRFC escapement goal.

The Monterey management area had different season lengths for subareas north and south of Point Sur. From Pigeon Point to Point Sur, the season was open from April 1 through July 15, while south of Point Sur the season ran from April 1 through the end of May. The minimum size limit was 24 inches for fisheries south of Pigeon Point. In the San Francisco management area, the season was open from April 1 through the end of October, with a two week closure in the beginning of May. The minimum size limit in this area was 24 inches through April and 20 inches thereafter. The Fort Bragg area was closed for much of the summer, but was open April through May and mid-August through mid-November with a 20 inch minimum size limit.

Recreational fisheries in both the California and Oregon portions of the KMZ were closed in 2017, except for a four-day state water only fishery near the Chetco River in Oregon.

The Chinook fishery between Cape Falcon and Humbug Mountain was open from March 15 through October 31, plus a state water only fishery near the Elk River in November. The minimum size limit in this area was 24 inches.

## Inside Harvest

Recreational angling for salmon in the Sacramento River and its tributaries was expected to result in a catch of 21,690 adult SRFC. Actual harvest totaled 21,973 adult SRFC.

Since 1990, regulations have closed the mainstem Sacramento River to retention of salmon from January 15 through July 15, a period when SRWC 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 the recovery of SRWC coded-wire tags (CWTs) in the sport fishery. To further protect SRWC spawners, an additional closure was implemented in 2017 from April 1 through July 31. This closure prohibits all fishing in the uppermost six miles of the Sacramento River from the Highway 44 Bridge to Keswick Dam. Owing to low Chinook escapement to the Stanislaus, Tuolumne, and Merced rivers, the majority of the San Joaquin River basin 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. Harvest in the Mokelumne River totaled 1,625 Chinook (adults and jacks) in 2017.

## Escapement and Management Performance

Commercial catches in areas south of Cape Falcon were generally below preseason expectations, with the exception of the San Francisco management area (Table I-7). The commercial catch in September for Fort Bragg fell short of the quota (Table I-6). Recreational catch in the San Francisco management area substantially exceeded the preseason expectation, while other areas had catches close to or below expected levels (Table I-7).

## Sacramento River Fall Chinook

Under the 2017 regulations, the projected spawning escapement in the Sacramento River basin was 133,242 hatchery and natural area fall Chinook adults. A total of 44,574 hatchery and natural area adult spawners were estimated to have returned to the Sacramento River basin in 2017 (Table II-1, Figure II-1).

Fall Chinook returns to Sacramento River hatcheries in 2017 totaled 27,039 adults, and escapement to natural areas was 17,535 adults. 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, Table B-1. It is important to note that available data indicate that hatchery origin fish generally constitute a large portion of the Sacramento River naturally spawning fall Chinook population.

Under the terms of Amendment 16 to the salmon FMP, SRFC are considered to be overfished when the 3year 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 2015-2017 is 76,714 and therefore SRFC meet the criteria for overfished status.

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 2017 SRFC exploitation rate is not yet available. However, fisheries in 2016 resulted in an exploitation rate of 0.57 , which is below the MFMT. Therefore, overfishing did not occur in 2016 (Table II-6).

## Sacramento River Winter and Spring Chinook

Spawner escapement of endangered SRWC in 2017 was estimated to be 490 adults and 485 jacks. This estimate was derived from a carcass survey conducted on the upper Sacramento River and includes SRWC captured in the Keswick trap, which provides brood stock to Livingston Stone National Fish Hatchery.

SRWC 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 SRWC migration period). Escapement estimates from the carcass survey are considered to be a better representation of SRWC spawner escapement due to the small proportion of the SRWC 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 are no longer available.

Escapement of spring Chinook to the Sacramento River system in 2017 totaled 1,805 fish (jacks and adults), most of which (an estimated 1,113 fish) returned to upper Sacramento River tributaries; the remaining 692 fish returned to the Feather River Hatchery. Estimates of spring Chinook escapement to the upper mainstem Sacramento River are no longer made due to the permanent removal of the Red Bluff Diversion Dam gates in 2012. 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 SRWC and spring Chinook salmon are presented in Appendix B, Table B-3.

## Sacramento River Late-Fall Chinook

Late-fall Chinook spawning escapement in 2017 was estimated to be 4,426 adults and 392 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, Table 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 2017 totaled 16,250 jacks and adults in natural areas, and 16,014 jacks and adults to hatcheries (Appendix B, Table B-2 provides historical spawner escapements). Salmon production in the San Joaquin River is determined largely by spring outflows three years earlier. In most years 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. However, in 2017, returns to the San Joaquin River made up 32 percent of the total fall run escapement to the Central Valley.

## 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

KRFC were managed in accordance with their control rule, which in 2017 specified a maximum exploitation rate of 8.1 percent, resulting in an expected spawner escapement of 11,379 adults in natural areas. Although the MSY escapement of 40,700 natural area adults was not projected to be met, even in the absence of fisheries, a low level of impacts were still permitted due to de minimis fishing provisions. The available harvest of KRFC was shared equally between non-tribal and Klamath River tribal fisheries (tribes with federally-recognized fishing rights). The NMFS ESA consultation standard for California Coastal Chinook limited the ocean harvest rate on age-4 KRFC to a maximum of 16 percent.

## Regulations to Achieve Objectives

To achieve the management objectives for KRFC and California Coastal Chinook, the adopted regulations were designed to result in: (1) a Klamath River run of 18,410 fall Chinook adults, resulting in a spawner escapement of 11,379 adults to natural areas, taking into account projected river fishery impacts of 1,017 adults and returns to basin hatcheries; (2) 50 percent (814) of the allowable adult harvest for tribal subsistence and commercial fisheries; (3) 15.9 percent (129) of the non-tribal harvest to the Klamath River recreational fishery; and (4) 15.3 percent (105) of the ocean harvest to the KMZ recreational fishery. It is worth noting that the California Fish and Game Commission later voted to close the Klamath River recreational fishery. The age-4 ocean harvest rate resulting from the above configuration was forecast to be 3.1 percent. Season and size limit details are presented in Tables I-1 and I-3.

## Commercial

The primary constraint to commercial fisheries south of Cape Falcon in 2017 was the control rule-defined maximum exploitation rate for KRFC. The region between Florence South Jetty and Horse Mountain, which includes the central Oregon management area and both the Oregon and California portions of the KMZ, was closed in 2017, with the exception of some Oregon state waters only fisheries near the Chetco and Elk rivers during the fall. Commercial fishing opportunity in northern Oregon and south of the KMZ was heavily constrained relative to recent years (Table I-1).

## Recreational

Recreational fisheries were closed in the KMZ in 2017, except for a four-day state water only fishery near the Chetco River in Oregon. The Chinook fishery between Cape Falcon and Humbug Mountain was open from March 15 through October 31, plus a state waters only fishery near the Elk River in November. The Fort Bragg area was closed for much of the summer, but was open April through May and mid-August through mid-November. In the San Francisco area, the season was open from April 1 through the end of

October, with a two-week closure in the beginning of May. The Monterey management area north of Point Sur was open from April through mid-July while the area south of Point Sur was open April through May (Table I-3).

## Inside Harvest

Yurok and Hoopa Valley tribes shared a federally-reserved right of 50 percent (814) of the available harvest surplus of adult Klamath fall Chinook. Tribal adult harvest was 1,876 (Yurok: 216 adults; Hoopa Valley: 1,660 adults), which was 230 percent of the tribal allocation (Appendix B, Tables B-4 and B-5). The river recreational fishery for fall Chinook in the Klamath Basin was closed in 2017. However, 71 fall Chinook adults were estimated to have been harvested, almost entirely during the spring Chinook fishery. Harvest estimates for streams outside the Klamath River Basin were not available.

## Escapement and Management Performance

The KRFC natural area spawner escapement of 18,514 adults exceeded the preseason expectation of 11,379 adults.

Commercial catches in areas south of Cape Falcon were generally below preseason expectations, with the exception of the San Francisco management area (Table I-7). The commercial catch in September for Fort Bragg fell short of the quota (Table I-6). Recreational catch in the San Francisco management area substantially exceeded the preseason expectation while other areas had catches close to or below expected levels (Table I-7).

## 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 have been conducted on two tributaries of the Eel River. There was also a survey conducted on a tributary of the Mad River, but it was discontinued in 2016. Video counts of Chinook passage at Mirabel Dam on the Russian River began in 2000. However, passage numbers reported for 2014 to present are not comparable to prior years. During the 2014 and 2015 seasons, counts were derived using alternative sources because a new counting facility was under construction. Though construction of the new Mirabel counting facility was completed for the 2016 season, operational challenges associated with the new facility and adverse environmental conditions hindered sampling that year. Dam passage numbers reported for these years should be considered minimum values as opposed to true escapement estimates. The 2017 survey was incomplete at the time of publication and should also be considered a minimum count, though a true escapement estimate will ultimately be available. Historical spawning stock surveys for these northern California coastal rivers are presented in Appendix B, Table B-7.

## Klamath River Fall Chinook

The 2017 preliminary postseason river run size estimate for KRFC was 31,838 adults compared to the preseason-predicted ocean escapement (river run size) of 18,410 . The escapement to natural spawning areas was 18,514 adults, which was 163 percent of the preseason prediction of 11,379 adults. The estimated hatchery return was 11,213 adults. Jack returns to the Klamath Basin totaled 21,903 including 16,522 that escaped to natural spawning areas. Table II-2, Figure II-2, and Appendix B, Table B-4 present historical harvest and escapement estimates for KRFC.

Spawning escapement to the upper Klamath River tributaries (Salmon, Scott, and Shasta Rivers), where spawning was only minimally affected by hatchery strays, totaled 6,894 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 2017 to the Shasta River was 3,287 adults. Escapement to the Salmon and Scott Rivers was 1,338 and 2,269 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 3year 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 areas for years 2015-2017 is 19,358, therefore KRFC meet the criteria for overfished status (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 2017 KRFC exploitation rate is not yet available. However, fisheries in 2016 resulted in an exploitation rate of 0.37 , which is lower than the MFMT. Therefore, overfishing did not occur in 2016 (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 the northern and central Oregon Coast Chinook stock complexes 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. These stocks have been abundant historically; therefore, preseason abundance estimates were not developed and it has not been a critical management concern. Council-area Chinook fisheries have minor impacts on most of the stocks originating from these areas, which have a northerly marine distribution pattern. For the southern Oregon Coast Chinook stock complex, the conservation objective is assessed using the escapement estimate at Huntley Park on the Rogue River. 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.

## 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, impacts on these stocks from Council-area fisheries have not significantly affected achievement of management objectives in recent years.

Oregon State waters terminal area fisheries in 2017 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 some 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 2017 fisheries, regulations were adopted with the intention of reducing impacts on some of these stocks. Complete estimates of the 2017 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 2017 catch estimate for the two fall terminal area commercial fisheries was 1,060 Chinook.
Under the 2017 regulations, the Salmon Technical Team (STT) expected the aggregate conservation objectives for these stocks would be met with the constraints required for California Coastal Chinook, KRFC, and LCN coho. Actual escapement was not estimated for the northern and central 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 northern and central Oregon Coast goal was likely met in 2017. ODFW is developing alternate methodologies for establishing escapement goals for these Oregon coastal Chinook stocks, including fall Chinook PSC indicator stocks. The aggregate southern Oregon Coast Chinook goal of at least 41,000 naturally produced fall Chinook adults passing Huntley Park in the Rogue River was met in 2017.

## North Migrating Chinook

Index counts of adult spawners (peak count per index mile) were conducted for seven of the nine standard streams and used to measure natural spawner escapement trends for north-migrating fall Chinook in 2017. Data have been collected since about 1950 for most systems. Overall peak Chinook adult index spawner counts in 2017 were preliminarily estimated at 114 adults per mile, higher than the maximum sustainable yield (MSY) spawner escapement level of 60 adults per mile.

The geometric mean of north-migrating Oregon Coast Chinook adult escapement in 2015, 2016, and 2017 was 149 fish per mile, which exceeded both the MSST (30) and the MSY spawner escapement level. Estimates of exploitation rates were not available for 2015, 2016 or 2017, 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 B8). The 2017 preliminary estimate was reported at 26 adults per mile. The escapement goal prior to 2015 was assessed using this methodology.

Two trend indicators of escapement for naturally produced spring Chinook are utilized: (1) Rogue River counts at Gold Ray Dam, and (2) Umpqua River counts at Winchester Dam (Table II-4). Gold Ray Dam was removed in October 2010. For recent years, 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 (Figures II-3 and II-4).

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). Passage estimates of naturally produced fall Chinook at Huntley Park in the lower Rogue River are presented in Table B-10.

The geometric mean of south/local migrating Oregon Coast Chinook adult escapement in 2015, 2016, and 2017 was 42,236, which exceeded the MSST (20,500); therefore, south/local-migrating Oregon Coast Chinook should not be considered overfished. Estimates of exploitation rates were not available, so an assessment of overfishing status was not possible, but based on exploitation rates for KRFC, it is unlikely that south/local-migrating Oregon Coast Chinook were subject to overfishing (Table II-6).

## COLUMBIA RIVER BASIN CHINOOK STOCKS

Columbia River Basin Chinook salmon stocks include fall, summer, and spring stocks. NMFS has listed five Chinook evolutionarily significant units (ESUs) within the Columbia Basin under the ESA: (1) SRW fall Chinook listed as threatened in April 1992; (2) Snake River spring/summer listed as threatened in April 1992; (3) upper Columbia River spring listed as endangered in March 1999; (4) LCR Chinook listed as threatened in March 1999; and (5) upper Willamette River spring listed as threatened in 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 ESAlisted 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 upper Columbia 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, midColumbia 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 the Joint Staff Report: stock status and fisheries for fall Chinook salmon, coho salmon, chum salmon, summer steelhead, and white sturgeon published annually by the joint staffs of ODFW and WDFW.

## Management Objectives

Council-area fisheries north of Cape Falcon in 2017 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. 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 (equivalent to 6,900 ocean escapement); the preseason forecast was for an ocean escapement of 12,500 . 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.

The NMFS ESA consultation standard for the threatened LCR natural tule Chinook was a key consideration for management of Council-area Chinook fisheries north of Cape Falcon. However, the impacts on LCR natural tule Chinook did not limit, by itself, the fisheries north of Cape Falcon in 2017. Although the impacts on Puget Sound Chinook in Council-area fisheries are minor, these impacts were influential in terms of shaping ocean and inside fisheries for this ESU.

## 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 2017 forecast for the combined abundance of Chinook stocks contributing to AABM fisheries was lower than in 2016 and lower than the most recent ten year average. The impacts of northern fisheries on Columbia River stocks are included in the modeling of Council-area fisheries

The 2017 overall non-Indian Chinook total allowable catch (TAC) for North of Cape Falcon was $90,000$. This compares to a 2016 non-Indian TAC of 70,000 . The 2017 overall TAC was divided into 45,000 commercial and 45,000 recreational. The treaty Indian ocean troll TAC was 40,000 Chinook, and is applicable to the May-September period. This compares to a 2016 treaty Indian TAC of 40,000 . 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 with landing and possession limits of 60 Chinook per vessel per trip in the area between the U.S./Canada border and the Queets River. These fisheries had a preseason quota of 27,000 Chinook, no more than 8,900 of which may be caught in the area between the U.S./Canada border and the Queets River, and no more than 9,000 of which may be caught in the area between Leadbetter Pt. and Cape Falcon.

The July through September 19 non-Indian commercial all-salmon fishery had a preseason quota of 18,000 Chinook with landing and possession limits of 60 Chinook per vessel per open period in the area between the U.S./Canada border and the Queets River, and 75 Chinook per vessel per open period in the area between the Queets River and Cape Falcon. The fishery was open Friday through Tuesday for the first two open periods and no more than 7,200 Chinook could be caught in the area between the U.S./Canada border and the Queets River.

## Recreational

In the area between the U.S./Canada Border and Cape Falcon, the coastwide quota was 45,000 Chinook. Starting and ending dates were similar among subareas, opening on June 24 and closing September 4 in all areas except the Westport subarea which opened July 1.

## Treaty Indian Ocean Harvest

The adopted management measures were generally similar in structure to recent years. The Tribal troll ocean fishery (also known as the Treaty troll fishery) quotas were defined by conservation concerns for ESA-listed Chinook and coho stocks. For Chinook salmon quotas, Lower Columbia River tule Chinook salmon, Mid-Hood Canal Chinook salmon, and South Puget Sound Chinook salmon were the stocks that established the Chinook quota at 40,000. The Tribal troll fishery takes place in Washington ocean areas 2, 3,4 and 4 B . The Treaty Indian troll fishery opened on May 1 with a Chinook only fishery and continued through June 30 with a 20,000 sub-quota. The all-salmon fishery was open July 1 through September 15 with a sub-quota of 20,000 Chinook.

## 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 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. A new 10year U.S. v Oregon management agreement for 2018-2027 is currently being finalized, and NMFS expects to issue a new Biological Opinion by March 2018.

In 2017, the fall fisheries were managed to achieve the NMFS ESA consultation standards for threatened LCR natural tule and SRW Chinook, and the 2017 URB and SRW preseason forecast run sizes were both large enough to allow a 45.0 percent harvest rate in inriver fisheries.

Within the ESA limitations there were harvestable numbers of salmon available for all major stocks in 2017. The postseason fall Chinook run reconstruction was not completed in time for this report, so estimates included here are considered very preliminary for fall Chinook. The preliminary catch estimates (adults) for the non-Indian commercial net fisheries were 18,897 spring and 47 summer, and 33,100 fall Chinook, which included 17,597 spring, 47 summer, and 15,100 fall Chinook in Select Area (terminal) fisheries. The preliminary catch estimates (adults) for the treaty Indian fisheries were 8,109 spring, 16,328 summer, and 110,200 fall Chinook. The preliminary catch estimate (adults) for the recreational fisheries included 27,600 fall Chinook in the Buoy 10 fishery, and 8,998 spring, 3,853 summer, and 18,600 fall Chinook in mainstem fisheries below Bonneville Dam, 84 spring Chinook in mainstem fisheries above Bonneville Dam, and 14,000 fall Chinook above Bonneville Dam which include the Hanford Reach fishery above McNary Dam (Appendix B, Table B-20).

## Escapement and Management Performance

Upper Columbia summer Chinook met the escapement objective, and Columbia River fall Chinook are expected to also meet the escapement objectives (Table II-5). Preliminary estimates of river mouth returns were $70,000 \mathrm{LRH} ; 10,000 \mathrm{LRW} ; 48,700 \mathrm{SCH} ; 274,900$ URB; and 42,900 MCB. The estimated 2017 total ocean escapement of the five fall stocks was 446,500 fall Chinook (Appendix B, Table B-20; Figure II-5). The preliminary estimated natural area escapement (Hanford Reach, Yakima River, and above Priest Rapids Dam) for URB Chinook in 2017 was 96,000 , exceeding the MSY spawner escapement level of 39,625 adults established under FMP Amendment 16. The 2017 upper Columbia summer Chinook return totaled 68,044 adults. The estimated escapement (Rock Island Dam count) for summer Chinook in 2017 was 56,265 , exceeding the MSY spawner escapement objective of 12,143 adults established under FMP Amendment 16.

The preliminary 2017 URB inriver harvest rate estimate was 42 percent. The total adult SRW, hatchery, and supplementation fall Chinook count at Lower Granite Dam in 2017 was 26,431, less than the count of 34,714 in 2016. Estimates of SRW and supplementation fall Chinook spawning escapement in 2017 were not available.

Table II-7 provides conservation objective and fishery impacts for Lower Columbia River (LCR) Natural tule fall Chinook, recent year estimates are preliminary. Postseason estimates of the exploitation rate on 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 upper Columbia summer Chinook adult escapement in 2015, 2016, and 2017 was 73,403 , which exceeded the MSST threshold ( 6,072 ); therefore, upper Columbia summer Chinook should not be considered overfished (Table II-6). Estimates of combined ocean and inriver exploitation rates were not available for 2016 or 2017, but the 2015 exploitation rate of 0.89 was higher than the MFMT ( 0.75 ); therefore, upper Columbia summer Chinook experienced overfishing in 2015 (Table II-6).

The geometric mean of Columbia URB fall Chinook adult escapement in 2015, 2016, and 2017 was 167,496, 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 2016 or 2017, but 2015 exploitation rate of 0.40 was lower than the MFMT ( 0.86 ); therefore, Columbia URB fall Chinook did not experience overfishing in 2015 (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 a 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. As provided for in Amendment 14, and pursuant to rules and procedures established under U.S. v. Washington, WDFW and the Quinault Indian Nation (QIN) presented new management objectives for Grays Harbor fall Chinook salmon. These objectives were reviewed by the Chinook Technical Committee of the Pacific Salmon Commission in February, 2014, and adopted in November, 2014. The new objectives are based on spawner-recruit relationships using estimates of production resulting from naturally spawning fish in the Chehalis and Humptulips river basins from brood years 1986 through 2005. It is the intent of WDFW and QIN to use for management purposes an aggregate natural spawning escapement goal of 13,500 for Grays Harbor fall Chinook salmon. No agreements on annual spawning targets for Washington coastal Chinook, other than those in the FMP, were made in 2017.

## 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 and August 2017. Beginning in 2015, the Willapa Bay Salmon Management Policy (C-3622) prohibits Chinook directed non-Indian gillnet fisheries until after Labor Day.

The 2017 preseason forecast of Chinook returning to Willapa Bay was 36,806 fish ( 4,131 natural and 32,675 hatchery). There were 23 12-hour Chinook and coho directed non-Indian gillnet fishery openings from September 5 through October 13, 2017. Retention of unmarked Chinook was prohibited. Total Chinook harvest in the non-Indian gillnet fisheries during 2017 was 2,942 fish, based on preliminary data. Nondirected openings were scheduled October 31 through December 1, 2017.

Recreational fisheries in the marine waters of Willapa Bay were open from July 1 through July 31, 2017 concurrent with the Ocean Marine Area 2 (ocean rules applied). From August 1, 2017 through January 31, 2018, Willapa Bay was open to recreational fishing with a daily-bag-limit of 6 salmon, no more than 3 adults allowed to be harvested daily; anglers required to release unmarked Chinook. Beginning January 1, 2018, the daily bag limit was reduced to one adult salmon, anglers required to release unmarked Chinook and unmarked coho. Barbless hooks were required when fishing for salmon. 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 as early as August 1, 2017, through January 31, 2018. Retention of unmarked Chinook was prohibited. Singlepoint, barbless hooks were required in all areas except Naselle, South Fork Willapa, and Bear rivers where only barbless hooks were required. Recreational harvest estimates for 2017 were not available.

## Escapement and Management Performance

During 2016, hatchery-origin Chinook returning to the Willapa Bay watershed totaled 12,898 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 2017.

The 2016 natural escapement was 1,887 Chinook, below the FMP objective of 3,393 . An escapement estimate was unavailable for 2017.

The geometric mean of Willapa fall Chinook adult escapement in 2014, 2015, and 2016 was 2,228, 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 2016 and 2017. 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 2013, 2014, and 2015, the Willapa Bay fall Chinook exploitation rates, using Queets stock as a surrogate, were $0.59,0.49$, and 0.57 respectively; therefore, Willapa Bay fall Chinook were not subject to overfishing during the most recent three years of available data (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 B25.

The Quinault Indian Nation conducted a spring/summer commercial gillnet fishery on the Chehalis River and in Grays Harbor commercial fishing Areas 2A, 2A-1, C, and D in 2017. One spring Chinook was reported in the harvest during these fisheries.

There were no non-Indian recreational fisheries allowing the retention of spring Chinook in the Chehalis River during the spring Chinook management period. Preliminary data indicate that 19 Chinook were harvested during this fishery scheduled in 2016. The 2017 report on harvest of spring Chinook by the Chehalis Tribe fishery was six fish. No summer non-Indian gillnet fishery directed at non-local Chinook stocks occurred in 2017.

The Quinault Indian Nation conducted a 2017 fall gillnet fishery harvesting a total of 3,578 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 and excluded the area known as the "South Channel" 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 2017 fishery was scheduled on the Chehalis side to run from week 41 to week 47, beginning the week of October 8 to the week beginning November 19 at weekly schedules of $2,4,2$, then closed weeks 43 and 44 , then reopened, 2,3 days per week respectively, during weeks 45 and 46 , with a $61 / 2$-inch maximum mesh size restriction. During the latter two weeks, the co-managers agreed to a regulation mesh size change that would allow additional chum catch while not increasing wild coho or Chinook impacts. The Chehalis side fall fishery then remained closed until steelhead season. The Chehalis area treaty Indian fishery caught 1,672 Chinook, which was about 70 fish more than predicted. The Humptulips area treaty Indian fishery schedule was also set with a $61 / 2$-inch maximum mesh restriction through the fall period. The schedule ran from weeks 39 to week 47, at weekly schedules of $2,4,4,4,2$ days per week, then closed weeks 44 and 45 , then reopened weeks 46 and 47 at 3 days per week, and then open 3 days each following week. The Humptulips reported harvest was 1,906 Chinook, this is about 500 fish or 35 percent more than the predicted 1,412. The combined Grays Harbor treaty Indian Chinook catch was 18.8 percent more than what was predicted.

The non-Indian gillnet fishery in Humptulips commercial Area 2-C was scheduled for four 12-hour days from late October to early November. Timing of this fishery was designed to avoid Chinook and concentrate effort when coho and chum are more abundant. Retention of all fall Chinook, coho, and chum was allowed. Total catch of Chinook in Area 2C was 15 fish, about 5 percent of predicted. The non-Indian gillnet fishery in the Chehalis River commercial Areas 2A and 2D was scheduled for eight 12-hour days from late October through mid-November. During these fisheries, all areas of 2D were open. Timing of this fishery was designed to avoid Chinook and concentrated effort when coho and chum are more abundant. During all fisheries live boxes were required, and wild Chinook could not be retained. A total of 16 hatchery-origin Chinook were harvested during this fishery, 27 percent less than predicted. There were 71 estimated wild Chinook mortalities associated with release requirements during the non-Indian gillnet fishery.

A recreational mark-selective fishery in the northern portion of Marine Area 2-2 and Commercial Area 2C was open from August 1 through September 15. During this time, 2 adult salmon could be retained, however, wild Chinook and wild coho must be released. The portion of Marine Area 2-2 east of a line from
the mouth of Johns River to Brackenridge Bluff Tripod was scheduled from September 16 through November 30 for the retention of two adult salmon per day. During this time wild Chinook were required to be released and only one wild coho per day could be retained.

A recreational mark-selective Chinook fishery was scheduled on the mainstem Humptulips River from the mouth to the confluence of the East and West forks that opened September 1 through October 31. The daily limit was 2 adults. After October 15, only one hatchery Chinook could be retained. 2017 recreational harvest estimates were not available.

## Escapement and Management Performance

Chehalis River spring Chinook are of natural origin and managed for an escapement goal of 1,092 adults. The 2016 terminal run forecast for spring Chinook was 2,700 adult fish. The final 2016 escapement estimate was 926 and a terminal run of $1,078,40$ percent lower than forecast. The 2017 terminal run forecast for spring Chinook was 1,277 . This run size forecast is 123 fish below the escapement goal. The 2017 preliminary natural spawning escapement estimate was not available.

Grays Harbor fall Chinook were managed for a natural spawning escapement goal of 13,326 adults. The 2016 Grays Harbor fall Chinook run size forecast was for 27,800 natural and 7,430 hatchery adults. The total 2016 Grays Harbor fall Chinook run size was 13,408 natural and 3,283 hatchery. The 2016 natural spawning escapement estimate was 11,248 . Both components were about half of the forecast.

The 2017 Grays Harbor fall Chinook run size forecast was 16,192 natural and 5,632 hatchery adults. The return of hatchery-origin fall Chinook to Grays Harbor hatchery programs were sufficient to provide for 2018 fall Chinook production goals. The preliminary natural spawning escapement estimate for 2017 was not available. The final 2017 spawning ground escapement estimate for the Grays Harbor is in development by QIN and WDFW.

## 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 59 spring/summer Chinook in 2017 primarily during its sockeye directed fishery.

The treaty Indian gillnet fishery harvested 6,813 fall Chinook. The commercial schedule in 2017 was similar to the 2016 schedule, providing harvest opportunity in the months of August through November. The Quinault River Fall gillnet fishery is designed to maximize harvest opportunity during hatchery coho and Chinook entry while reducing the scheduled fishing days later in the season during primarily wild Chinook and wild coho entry.

## Escapement and Management Performance

Quinault fall Chinook were managed for hatchery production. The 2017 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 2017 treaty Indian gillnet harvest of spring/summer Chinook remained closed through the summer months until mid-August, when the treaty commercial fishery was opened to target early entering hatchery coho. There were 90 Chinook and 841 coho taken in the Queets treaty commercial August opening during 3-day openings in week 35 . The non-Indian in-river recreational fishery was restricted to open only during the month of September to minimize impacts on wild coho. Anglers in the Clearwater River were allowed one salmon and were required to release all wild coho. Anglers in the Queets could retain two adult salmon, but required to release wild Chinook and wild coho. In the Salmon River, anglers could keep 2 adult salmon, of which only 1 could be a Chinook, and were required to release wild coho.

Fall Chinook were harvested in the treaty gillnet fishery from Week 35 (beginning August 27), when only four Chinook within that week's total were determined to be fall fish. The fishery then continued through Week 40 (the week of October 4), set at, $3,5,5,5,5$, and 3 days per week in the respective weeks, with a $61 / 2$-inch maximum mesh size. The fishery closed during weeks 41 and 42 , then re-opened to finish the season with weeks 43 through 45 at 2,3,2 days per week with $8 \frac{1}{2}$-inch mesh in order to take remaining available Chinook while avoiding wild coho. The treaty Indian gillnet fishery harvested 1,568 fall Chinook during this schedule compared to a preseason expected catch of 1,364 . The Chinook catch peaked during week 40. Catch estimates for 2017 recreational salmon fisheries are not yet available.

## Escapement and Management Performance

The 2017 escapement estimate for Queets River spring/summer Chinook is not available. The 2016 spawning escapement estimate for Queets River spring/summer Chinook was 704 adults. The 2015 escapement was 532 adults, which is 24 percent below the MSY spawner escapement goal of 700 .

The geometric mean of Queets River spring/summer Chinook adult spawning escapement in 2014, 2015, and 2016 is 521, which is above the MSST (350); therefore, Queets River spring/summer Chinook should not be considered overfished (Table II-6).

The 2017 Queets River fall Chinook spawner survey estimate is not available. The indicator Chinook originate from wild brood stock taken each year in the river. The 2016 spawning escapement estimate for Queets River fall Chinook was 2,915 with an additional 94 wild and eight Indicator Chinook taken for broodstock.

The geometric mean of Queets River fall Chinook adult spawning escapement in 2014, 2015, and 2016 was 3,897, which exceeded the MSST $(1,250)$; therefore, Queets River fall Chinook should not be considered overfished (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 2017 Hoh River spring/summer Chinook terminal abundance forecast was 1,018 fish. The treaty Indian gillnet fishery was open two days per week during weeks 19 and 20 , and one day per week during weeks

21 through 24. The Indian gillnet fishery was closed week 25 through week 38 as a response to chronic low-abundance as per an agreement with WDFW co-managers. There were seven wild spring/summer Chinook and 39 hatchery spring/summer Chinook harvested. An additional 12 hatchery and eight wild spring/summer Chinook were harvested by the Hoh Tribe for Ceremonial and Subsistence purposes.

The non-Indian recreational salmon fishery was closed from April 16 to September 11 to protect spring/summer Chinook.

Hoh River fisheries for fall Chinook were based on an expected terminal run size of 2,725 adults, allowing for a terminal harvest rate of 40 percent. The spawning escapement was expected to be 1,889 adults.
The treaty Indian fishery targeted 22.9 percent of the terminal run. The treaty Indian gillnet fishery was closed during weeks 36 and 37, one day per week during weeks 38 and 39 , two days per week during weeks 40 through 45 , and one day per week during weeks 46 through 49 . The Hoh treaty commercial fishery caught approximately 496 wild Chinook and 22 hatchery Chinook; an estimated 20 Chinook were harvested for ceremonial and subsistence purposes.

The non-Indian recreational fishery opened on September 11 with the river below Willoughby Creek open and a daily-bag-limit of 6 salmon, only 1 of which could be an adult. The non-Indian recreational fishery remained open throughout the rest of 2017.

## Escapement and Management Performance

The 2017 preliminary spawning escapement for Hoh River spring/summer Chinook is 1,364. The geometric mean of Hoh River spring/summer Chinook spawner escapement in 2015, 2016, and 2017 was 1,186, which exceeded the MSST (450); therefore, Hoh River summer Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates were not available for Washington coastal spring/summer Chinook stocks, but based on the limited in river 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 preliminary 2017 spawning escapement estimate for Hoh River fall Chinook is 1,808 . The geometric mean of Hoh River fall Chinook adult spawning escapement in 2015, 2016, and 2017 was 2,094, 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 can be used as a proxy. Exploitation rate estimates were not available for 2016 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 Indian gill net (IGN) catch for 2017 was 985 spring and 254 summer Chinook. Ceremonial and subsistence catch for 2017 was 49 spring
and 11 summer Chinook. WDFW required the release of unmarked (adipose fin intact) Chinook from February through August to reduce impacts of the recreational fishery on the natural summer Chinook stock. An estimate of 2017 recreational spring Chinook harvest was 506.

The total 2017 Quileute IGN harvest of fall natural Chinook was 3,957. Fall hatchery Chinook catch was 42. Catch for ceremonial and subsistence use is included in the Indian gillnet harvest numbers. An estimate of the 2017 recreational catch was 425 fish (natural).

The fall recreational fishery in the Quillayute system was greatly reduced to protect wild fall coho and Chinook. Chinook and coho retention was curtailed October 16 and reopened mid-November for hatchery coho retention on the Sol Duc River. The Calawah River (Hwy. 101) downstream to Wilsons boat ramp on the Bogachiel rivers remained opened for hatchery steelhead only. An estimate of the 2017 recreational fall Chinook catch was 425. The Quileute Tribe closed their fall fishery from October 16 through November 5 for stock conservation reasons.

## Escapement and Management Performance

The 2017 management agreement called for an escapement goal of 200 hatchery spring Chinook. The actual hatchery rack return was 521 plus 88 jacks, 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 2017 preliminary natural spawning summer Chinook escapement estimate was 1,146 , which includes 37 brood stock fish.

The geometric mean of Quillayute River summer Chinook spawner escapement in 2015, 2016, and 2017 is 936, 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 in-river 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 are managed for a target 40 percent in-river harvest rate, equating to an escapement of 60 percent of the terminal return or 3,000 adults, whichever is greater. The preliminary 2017 escapement estimate of 3,391 fall Chinook was over the escapement floor but, under the targeted escapement of 60 percent of the return ( 60 percent of the estimated preliminary return of fall Chinook is about 4,700).

The geometric mean of the Quillayute River fall Chinook adult spawning escapement in 2015, 2016 and 2017 was 3,493 , 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 2017, 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. There have been no tribal or recreational fisheries in the Hoko River for Chinook salmon since the early 1980s, although some catch is occasionally reported by anglers on WDFW Catch Record Cards.

## Escapement and Management Performance

The 2017 escapement estimate for Hoko Chinook is 913 spawning in the river (natural origin and hatchery strays combined) and 275 returning to the hatchery for a terminal runsize of 1,188 . (Appendix B, Table B38).

The geometric mean of Hoko River summer/fall Chinook spawner escapement from 2015 through 2017 is 1,654, which exceeds the MSST threshold (425); therefore, Hoko River summer/fall Chinook should not be considered overfished (Table II-6). Estimates of exploitation rates are not yet available for 2016 and 2017, but estimates from 2012 through 2015 averaged 0.32 , and in those years the rates 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 ESAlisted 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 2017 was 148,079 Chinook, compared to 79,820 Chinook caught in 2016. The 2017 non-Indian net catch was 12,065 Chinook, compared to 6,599 Chinook caught in 2016. The 2017 treaty Indian net and troll harvest was 136,014 Chinook, compared to 73,221 Chinook caught in 2016.

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 2017 Puget Sound recreational fishery were unavailable.

## Escapement and Management Performance

Puget Sound Chinook management goals for fishery planning processes in 2017 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, Tables B-41. Recreational salmon catch estimates are summarized in Appendix B, Table B-40. Historical spring Chinook escapement data are presented in Appendix B, Table B-44. 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 2017. Preliminary data suggest no Puget Sound spring Chinook natural stocks met their escapement goals. Preliminary information on 2017 natural spawning escapements for summer/fall Chinook stocks indicate escapement goals were met in some areas, but not in many others. Escapement estimates for 2017 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

Spawning escapements were below FMP objectives in 2017 for Sacramento River fall Chinook, Klamath River fall Chinook, and Southern Oregon Chinook. Information to assess compliance with FMP conservation objectives and ESA consultation standards in 2017 was unavailable for LCR natural tule Chinook, SRW fall Chinook, several Washington coast Chinook stocks, and all Puget Sound natural Chinook 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 since December 2011, are:

- Overfishing occurs when a single year exploitation rate exceeds the MFMT ( $\mathrm{F}_{\mathrm{MSY}}$ );
- 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 3-year geometric mean spawning escapement is greater than the MSST but less than $\mathrm{S}_{\mathrm{MSY}}$;
- A stock is rebuilt when the most recent 3-year geometric mean spawning escapement exceeds $\mathrm{S}_{\mathrm{MSY}}$.

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, Sacramento River fall Chinook and Klamath River fall Chinook met the criteria for overfished status, and upper Columbia summer Chinook met the criteria for subject to overfishing in 2015, the most recent year with data available.

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

| Year or Average | Upper River ${ }^{\text {a/ }}$ |  |  | Low er River |  |  | Total |  | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hatchery | Natural ${ }^{\text {b/ }}$ | Subtotal | Hatchery | Natural ${ }^{\text {b/ }}$ | Subtotal | Hatchery | Natural ${ }^{\text {b/ }}$ |  |
| 1981-85 | 11,557 | 57,913 | 69,470 | 17,388 | 81,409 | 98,797 | 28,945 | 139,322 | 168,268 |
| 1986-90 | 11,507 | 87,396 | 98,903 | 12,764 | 72,390 | 85,154 | 24,271 | 159,787 | 184,057 |
| 1991-95 | 11,948 | 60,151 | 72,099 | 18,207 | 69,436 | 87,642 | 30,154 | 129,587 | 159,741 |
| 1996-00 | 29,965 | 153,777 | 183,742 | 24,435 | 133,772 | 158,207 | 54,400 | 287,550 | 341,949 |
| 2001-05 | 72,122 | 197,215 ${ }^{\text {d }}$ | 269,337 | 32,841 | 212,331 | 245,172 | 104,963 | 409,546 | 514,510 |
| 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 | 67,822 | 89,409 | 157,231 | 36,858 | 212,111 | 248,969 | 104,680 | 301,520 | 406,200 |
| 2014 | 18,280 | 80,056 | 98,336 | 26,469 | 87,663 | 114,132 | 44,749 | 167,719 | 212,468 |
| 2015 | 13,819 | 40,687 | 54,506 | 25,931 | 32,510 | 58,441 | 39,750 | 73,197 | 112,947 |
| 2016 | 8,306 | 10,563 | 18,869 | 27,504 | 43,301 | 70,805 | 35,810 | 53,864 | 89,674 |
| $2017{ }^{\text {d }}$ | 1,311 | 2,501 | 3,812 | 25,728 | 15,034 | 40,762 | 27,039 | 17,535 | 44,574 |
| $\mathrm{Goal}^{\text {e/ }}$ |  |  |  |  |  |  |  |  | 122,000 |
| a/ Above the Feather River; 1971-1985 estimates include Tehama-Colusa Spaw ning Channel. <br> b/ Fish spaw ning in natural areas are the result of hatchery and natural production; estimates generally based on carcass surveys. <br> c/ Estimation methodology for 2002 w as changed due to an extremely high Battle Creek escapement. <br> d/ Preliminary. <br> e/ Sacramento River fall Chinook $S_{\text {MSY }}$. |  |  |  |  |  |  |  |  |  |

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 or <br> Average | Spaw ning Escapement |  |  |  | InriverRecreational Catch |  | Indian Net Catch |  | Non-landed Fishing Mortality |  | Inriver Run Size |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hatchery | Natural | Total | Percent | Numbers | Percent | Numbers | Percent | Numbers | Percent | Numbers |
| 1981-85 | 11,746 | 27,667 | 39,413 | 63\% | 5,096 | 8\% | 17,128 | 27\% | 1,593 | 2\% | 63,230 |
| 1986-90 | 25,106 | 70,785 | 95,891 | 63\% | 15,145 | 10\% | 36,669 | 25\% | 3,498 | 2\% | 151,203 |
| 1991-95 | 18,084 | 47,932 | 66,016 | 74\% | 3,094 | 5\% | 10,574 | 19\% | 983 | 2\% | 80,666 |
| 1996-00 | 35,970 | 54,229 | 90,199 | 72\% | 6,817 | 6\% | 24,565 | 20\% | 2,275 | 2\% | 123,856 |
| 2001-05 ${ }^{\text {a }}$ | 38,952 | 56,346 | 95,298 | 70\% | 7,659 | 5\% | 25,414 | 19\% | 2,366 | 2\% | 136,848 |
| 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 | 121,543 | 177,482 | 60\% | 13,876 | 5\% | 95,386 | 32\% | 8,578 | 3\% | 295,322 |
| 2013 | 17,148 | 59,156 | 76,304 | 46\% | 19,800 | 12\% | 63,036 | 38\% | 5,885 | 4\% | 165,025 |
| 2014 | 31,276 | 95,104 | 126,380 | 79\% | 5,386 | 3\% | 25,967 | 16\% | 2,392 | 1\% | 160,396 ${ }^{\text {b/ }}$ |
| 2015 | 11,085 | 28,112 | 39,197 | 50\% | 7,842 | 10\% | 28,048 | 36\% | 2,611 | 3\% | 77,821 ${ }^{\text {b/ }}$ |
| 2016 | 3,578 | 13,937 | 17,515 | 71\% | 1,310 | 5\% | 5,160 | 21\% | 486 | 2\% | 24,582 ${ }^{\text {b/ }}$ |
| 2017 ${ }^{\text {c/ }}$ | 11,213 | 18,514 | 29,727 | 93\% | 71 | 0\% | 1,876 | 6\% | 164 | 1\% | 31,838 |
| Goal |  | $\geq 40,700^{\text {d/ }}$ |  |  |  |  |  |  |  |  |  |

a/ Inriver run size includes a USFWS estimate of 30,550 fish (19\% of the run) that died prior to spaw ning in September 2002.
b/ Total inriver run includes fish collected from the Klamath and Trinity rivers by the Yurok and Hoopa Valley tribes, respectively, to test for the presence of the parasite Ichthyophthirius multifiliis during the follow ing years: 2014-272 adults; 2015-123 adults; 2016-111 adults
c/ Preliminary.
d/ In December 2011, Amendment 16 to the Salmon Fishery Management Plan w as approved, which replaced the 35,000 spaw ning escapement floor with a S ${ }_{\text {MSY }}$ management objective of 40,700 natural area adult spaw ners. The 35,000 spaw ner floor was in effect from 1989-2007 and in 2011. In 2008-2010, fisheries were managed for a natural area spaw ning escapement of 40,700 adults under requirements of a rebuilding plan.
e/ Annual escapement goals may be more or less than $S_{M S Y}$ in some years due to meeting $S_{A C L}$ 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 or Average | Return to Facilities |  |  | Estuary and Freshw ater Harvest ${ }^{\text {b/ }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Public Hatchery ${ }^{\text {a/ }}$ |  | Private |  |  |
|  | Spring | Fall | All | Spring | Fall |
| THOUSANDS OF CHINOOK |  |  |  |  |  |
| 1976-80 | 4.9 | 2.0 | 1.9 | 13.7 | 31.1 |
| 1981-85 | 5.0 | 3.0 | 12.8 | 8.2 | 26.8 |
| 1986-90 | 22.9 | 5.4 | 31.4 | 21.1 | 49.3 |
| 1991-95 | 15.7 | 3.3 | 4.1 | 15.2 | 49.6 |
| 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 | 26.1 |
| 2010 | 10.9 | 5.0 | - | 15.6 | 44.1 |
| 2011 | 7.8 | 4.0 | - | 16.1 | 63.0 |
| 2012 | 13.5 | 6.0 | - | 18.7 | 51.4 |
| 2013 | 13.1 | 7.2 | - | 16.3 | 83.3 |
| 2014 | 11.5 | 7.9 | - | 16.1 | 75.0 |
| 2015 | 10.7 | 9.6 | - | 18.3 | 117.3 |
| 2016 | 4.2 | 5.8 | - | NA | NA |
| $2017{ }^{\text {c/ }}$ | 4.9 | 3.1 | - | NA | NA |
| a/ Adults on b/ Freshwa fish larger th c/ Preliminar | sts are hes (i.e | ODFW <br> udes | ead angler and natu | cord card | nd repres |

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

| Year or Average | Fall Chinook Spaw ner Indices |  | South/local Migrating Spring Chinook Spaw ner Indices (1000's of fish) |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Rogue River |  |  |
|  | North Migrating Peak Count Adults Per Mile | (South/local migrating) Adult Carcass Counts | Rogue River Gold Ray Dam Counts ${ }^{\text {b/ }}$ | Umpqua River Winchester Dam Counts |
| 1976-80 | 72 | 5,256 | 26 | 6 |
| 1981-85 | 89 | 3,906 | 16 | 5 |
| 1986-90 | 141 | 16,797 | 29 | 8 |
| 1991-95 | 116 | 4,387 | 10 | 4 |
| 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 ${ }^{\text {c/ }}$ | 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 | 9 |
| 2012 | 146 | d/ | 14 | 8 |
| 2013 | 189 | d/ | 12 | 7 |
| 2014 | 157 | d/ | 6 | 6 |
| 2015 | 247 | d/ | 15 | 5 |
| 2016 | 118 | d/ | 10 | 4 |
| $2017{ }^{\text {e/ }}$ | 114 | d/ | 10 | 4 |

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/ Gold Ray Dam removed October, 2010. Natural estimates after 2010 derived using relationship of 2004-2010 spaw ning ground surveys to Gold Ray Dam passage. Estimate includes an unknow n number of jacks.
c/ In 2004 one of the standard survey sections was not sampled. In the previous tw o years this section accounted for $33 \%$ of the total adult carcass counts.
d/ Surveys w ere not conducted.
e/ Preliminary.

TABLE II-5. Performance of Chinook salmon stocks in relation to 2017 preseason conservation objectives (preliminary data). (Page 1 of 2)

| System and Stock | 2017 Conservation/Management Objective(s) | Achievement |
| :---: | :---: | :---: |
| Sacramento River Chinook |  |  |
| Fall | Minimum escapement of 122,000 natural area and hatchery adults. | Preliminary estimate of 44,574 natural and hatchery adult fall Chinook is below 2017 management objective. |
| Winter (Endangered) | Age-3 impact rate for the area south of Point Arena, CA no greater than 15.8\% (NMFS ESA consultation standard). | Preseason projection of 12.2\%; no postseason estimate $w$ as available at time of printing. |
| Spring (Threatened) | No management objective | No management objective |
| California North Coast Chinook |  |  |
| Klamath River Fall | Minimum escapement of 11,379 natural area adult spaw ners. | Preliminary estimate of 18,514 is above the 2017 management objective. |
| California Coastal (Threatened) | No greater than 16.0\% ocean harvest rate on age-4 Klamath River fall Chinook. | Preseason projection of $3.1 \%$; no postseason estimate $w$ as available at time of printing. |
| Oregon Coast Chinook |  |  |
| North Migrating Stocks | 150,000-200,000 natural adult spaw ners (equivalent to peak spaw ner index counts of 60-90 adults per mile). | 114 natural adult spaw ners per mile, above the upper bound of the aggregate stock index range. |
| South/Local Migrating Stocks | 34,992 natural adult passage estimate at Huntley Park in the low er Rogue River. | 90,674 natural adult passage estimate at Huntley Park, above the conservation objective. |
| Columbia River Basin Fall Chinook |  |  |
| LRW (Component of threatened low er Columbia River Chinook ESU) | MSY objective of 5,700 natural North Lew is River adult spaw ners. | Preliminary estimate of 10,880 , well above the conservation objective. |
| LCR natural tules (Component of threatened low er 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 $36.9 \%$. No postseason estimate $w$ as available. |
| LRH | 12,600 adult hatchery spaw ners. | 39,910 adult hatchery spaw ners, w ell above the goal. |
| SCH | 7,000 adult hatchery spaw ners. | 17,915 adult hatchery spaw ners, above the goal. |
| MCB | No FMP objective; target of 7,750 hatchery adults. | 10,939 adult hatchery spaw ners, above the target. |
| URB | 40-45,000 natural and hatchery adults above McNary Dam, plus meet treaty Indian obligations. | 156,900 natural and hatchery adults over McNary Dam, well over the MSY target in FMP. |

TABLE II-5. Performance of Chinook salmon stocks in relation to 2017 preseason conservation objectives (preliminary data). (Page 2 of 2)

| 2017 Conservation/Management |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Columbia River Basin Fall Chinook (continued) |  |  |  |  |
| 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 0.480 . Postseason estimate w as not available. |  |  |
| Washington Coastal Chinook |  |  |  |  |
| Fall | Natural spaw ner escapement objectives as provided in state-tribal agreements; meet hatchery egg-take goals and meet treaty Indian obligations. | Based on preliminary estimates where available, goals w ere met. |  |  |
| Spring/Summer | Natural spaw ner escapement objectives as provided in state-tribal agreements; meet hatchery egg-take goals and meet treaty Indian obligations. | Preliminary estimates were above the objective for Hoh, and below the objective for Quillayute. Estimates for other spring stocks w ere not available. |  |  |
| Puget Sound Chinook |  |  |  |  |
| (Threatened) | Minor part of Washington ocean harvest; Council ocean management not directed at these stocks. Adult equivalent exploitation rate standard developed for some stocks: | Postseason estimates were not available. Preseason predictions of adult equivalent exploitation rates and spaw ner objectives were: |  |  |
|  | Exploitation Rate Spaw ner Esc. ISBM | Exploitation Rate | Spawner Esc. | ISBM |
| - Nooksack spring | 10\% SUS - $\leq 60 \%$ | 10.0\% | - | 32\% |
| - Skagit summer/fall | 50\% Total - $\leq 60 \%$ | 36.3\% | - | 59\% |
| - Skagit spring | 38\% Total - $\leq 60 \%$ | 22.9\% | - | 57\% |
| - Stillaguamish summer/fall | 15\% SUS - $\leq 60 \%$ | 11.9\% | - | 30\% |
| - Snohomish summer/fall | 15\% SUS - $\leq 60 \%$ | 7.0\% | - | 16\% |
| - Lake Wash. summer/fall | 20\% SUS - $\leq 60 \%$ | 20.0\% | - | 47\% |
| - White River spring | 22\% Total | 17.7\% | - | - |
| - Green River summer/fall | 12\% pre-term SUS 1,800 $\leq 60 \%$ | 9.9\% | 5,800 | 59\% |
| - Puyallup summer/fall | 50\% Total | 49.5\% | - | - |
| - Nisqually summer/fall | 47\% Total | 47.0\% | - | - |
| - Skokomish summer/fall | 50\% Total | 47.5\% | - | - |
| - Mid-Hood Canal fall | 12\% pre-term SUS | 11.1\% | - | - |
| - Dungeness spring | 6\% SUS | 6.0\% | - | - |
| - Ew ha summer/fall | 10\% SUS | 6.3\% | - | - |

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 | Spaw ning Escapement |  |  |  |  |  |  |  |  | Exploitation Rate |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 3-yr Geo |  |  |  |  |  |  |  |  |  |  |  |
|  | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | Mean | MSST | $\mathrm{S}_{\text {MSY }}$ | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | MFMT |
| Sacramento Fall | 285,429 | 406,200 | 212,468 | 112,947 | 89,674 | 44,574 | 76,714 | 91,500 | 122,000 | 0.54 | 0.53 | 0.62 | 0.56 | 0.57 | NA | 0.78 |
| Klamath River Fall | 121,543 | 59,156 | 95,104 | 28,112 | 13,937 | 18,514 | 19,358 | 30,525 | 40,700 | 0.45 | 0.64 | 0.36 | 0.59 | 0.37 | NA | 0.71 |
| Southern Oregon | 69,060 | 81,655 | 53,546 | 30,462 | 27,278 | 90,674 | 42,236 | 20,500 | 34,992 | NA | NA | NA | NA | NA | NA | 0.78 |
| Central and Northern OR ${ }^{\text {a/ }}$ | 146 | 189 | 157 | 247 | 118 | 114 | 149 | 30 fish/mile | 150k-200k | 0.64 | 0.46 | 0.43 | NA | NA | NA | 0.78 |
| Upper River Bright - Falll ${ }^{\text {d }}$ | 94,925 | 305,445 | 233,934 | 323,276 | 151,373 | 96,026 | 167,496 | 19,182 | 39,625 | 0.49 | 0.52 | 0.53 | 0.40 | NA | NA | 0.86 |
| Upper River - Summer ${ }^{\text {a/ }}$ | 52,184 | 68,380 | 77,982 | 88,691 | 79,253 | 56,265 | 73,403 | 6,072 | 12,143 | 0.78 | 0.58 | 0.74 | 0.89 | NA | NA | 0.75 |
| Willapa Bay - Fall ${ }^{\text {d/ }}$ | 2,677 | 1,904 | 2,075 | 2,824 | 1,887 | NA | 2,228 | 1,696 | 3,393 | 0.71 | 0.59 | 0.49 | 0.57 | NA | NA | 0.78 |
| Grays Harbor Fall ${ }^{\text {/ }}$ | 14,032 | 12,582 | 11,821 | 22,200 | 11,248 | NA | 14,345 | 5,694 | 11,388 | 0.71 | 0.59 | 0.49 | 0.57 | NA | NA | 0.78 |
| Grays Harbor Spring | 878 | 2,459 | 1,583 | 1,841 | 926 | NA | 1,392 | 546 | 1,092 | NA | NA | NA | NA | NA | NA | 0.78 |
| Queets - Fall ${ }^{\text {a }}$ | 3,707 | 2,582 | 3,820 | 5,313 | 2,915 | NA | 3,897 | 1,250 | 2,500 | 0.71 | 0.59 | 0.49 | 0.57 | NA | NA | 0.87 |
| Queets - Sp/Su | 760 | 520 | 377 | 532 | 704 | NA | 521 | 350 | 700 | NA | NA | NA | NA | NA | NA | 0.78 |
| Hoh - Fall ${ }^{\text {/ }}$ | 1,937 | 1,269 | 1,933 | 1,795 | 2,831 | 1,808 | 2,094 | 600 | 1,200 | 0.71 | 0.59 | 0.49 | 0.57 | NA | NA | 0.90 |
| Hoh Sp/Su | 915 | 750 | 744 | 1,070 | 1,144 | 1,364 | 1,186 | 450 | 900 | NA | NA | NA | NA | NA | NA | 0.78 |
| Quillayute - Fall ${ }^{\text {b/ }}$ | 3,518 | 3,901 | 2,782 | 3,440 | 3,654 | 3,391 | 3,493 | 1,500 | 3,000 | 0.71 | 0.59 | 0.49 | 0.57 | NA | NA | 0.87 |
| Quillayute - Sp/Su | 729 | 957 | 608 | 794 | 900 | 1,146 | 936 | 600 | 1,200 | NA | NA | NA | NA | NA | NA | 0.78 |
| Hoko - $\mathrm{Su}^{\text {/ }} \mathrm{Fa}^{\text {a }}$ | 663 | 1,406 | 1,760 | 2,877 | 1,324 | 1,188 | 1,654 | 425 | 850 | 0.33 | 0.23 | 0.42 | 0.29 | NA | NA | 0.78 |

a/ CWT based exploitation rates from PSC-CTC 2017 Exploitation Rate Analysis and Model Calibration.
b/ Queets River fall Chinook coded-w ire-tag (CWT) exploitation rates used as a proxy. Exploitation rates in the terminal fisheries will differ from those calculated for Queets fall CWTs.

TABLE II-7. Conservation objective and fishery impacts for Lower Columbia River Natural Tule Chinook. LCR Natural Tule Fishery Impact (Total Marine and Freshw ater Exploitation Rate)

| Year | Conservation Objective | Preseason Projection | Postseason Estimate ${ }^{a /}$ |
| :---: | :---: | :---: | :---: |
| 2002 | $\leq 0.49$ | 0.45 | - |
| 2003 | $\leq 0.49$ | 0.47 | 0.43 |
| 2004 | $\leq 0.49$ | 0.46 | 0.46 |
| 2005 | $\leq 0.49$ | 0.44 | 0.51 |
| 2006 | $\leq 0.49$ | 0.47 | 0.45 |
| 2007 | $\leq 0.42$ | 0.42 | 0.47 |
| 2008 | $\leq 0.41$ | 0.36 | 0.38 |
| 2009 | $\leq 0.38$ | 0.38 | 0.38 |
| 2010 | $\leq 0.38$ | 0.38 | 0.37 |
| 2011 | $\leq 0.37$ | 0.37 | 0.42 |
| 2012 | $\leq 0.41$ | 0.41 | 0.43 |
| 2013 | $\leq 0.41$ | 0.41 | 0.33 |
| 2014 | $\leq 0.41$ | 0.41 | 0.46 |
| $2015^{b /}$ | $\leq 0.41$ | 0.40 | 0.37 |
| $2016^{b /}$ | $\leq 0.41$ | 0.38 | 0.36 |
| $2017^{\text {c/ }}$ | $\leq 0.41$ | 0.37 | NA |

a/ Post season estimates for 2003-14 use 2017 FRAM base period data set. b/ Postseason estimates preliminary.
c/ Preliminary.


Figure II-1. Sacramento River adult fall Chinook spawning escapement, 1970-2017.


Figure II-2. Klamath River adult fall Chinook returns and spawning escapement, 1978-2017.


Figure II-3. Spawner indices for naturally produced Oregon coastal fall Chinook, 1961-2017.

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Figure II-4. Escapement indices for naturally produced Oregon coastal south/local migrating spring Chinook, 1942-2017.


Figure II-5. Columbia River mouth adult returns of the five major fall Chinook stock groups, 1976-2017.

## 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 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. Lower Columbia River natural (LCN) 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 2017 NMFS ESA guidance letter for LCN 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 18.0 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 the marine survival, the total allowable OCN coho exploitation rate for 2017 fisheries was no greater than 30.0 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. A modification to the marine survival index in the matrix was adopted by the Council in 2013.

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 3.3 percent for RK coho in marine fisheries, 9.3 percent for OCN coho in marine and freshwater fisheries combined, and 7.8 percent for LCN coho in marine fisheries.

Total allowable harvest set preseason for the north of Cape Falcon recreational fisheries for coho in 2017 was 42,000 , an increase from the 18,900 quota in 2016. For the non-Indian commercial and treaty Indian fisheries the allowable harvest set preseason was 5,600 and 12,500 , respectively, compared to no allowable harvest in 2016. 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, 2009, and 2014.

Non-Indian commercial troll fisheries from Cape Falcon to the U.S./Canada border in 2017 had an overall quota of 5,600 coho (Table I-1). The fisheries were restricted to mark-selective retention of coho.

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 12,500 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 since 2011 between Cape Falcon and Humbug Mountain. In 2012, 2013, and 2015 non-mark-selective fisheries occurred between the Queets River and Cape Falcon, and in 2014, non-mark-selective fisheries occurred in all areas from the U.S.-Canada border to 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 2017, the recreational coho fisheries north of Cape Falcon operated with a quota of 42,000 (Table I-3). The recreational fishery between Cape Falcon and Humbug Mountain operated with a mark-selective quota of 18,000 . After inseason adjustments, a non-mark-selective fishery with a quota of 7,900 occurred in September between Cape Falcon and Humbug Mountain (Table I-3).

## Inside Harvest

Coho retention in all California fisheries was prohibited.
The 2017 inside recreational harvest of coho in Oregon coastal basins, as in recent years, was very restricted and generally limited to areas where abundant naturally-produced or hatchery coho returns were expected. Estimates of the 2017 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 three lake systems in 2017. The preliminary total catch estimate for these fisheries was 70 coho.

The 2017 Columbia River non-Indian commercial net fishery harvested 37,800 adult coho. Select Area fisheries in both Oregon and Washington accounted for 36,900 of the total 2017 Columbia River commercial coho catch. The Columbia River treaty Indian mainstem commercial gillnet coho catch was approximately 5,900 fish, compared to the 2016 catch of 5,000 coho. Columbia River commercial coho fisheries were non-mark-selective in 2017. 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 18,800 adult coho compared to 9,200 adult coho in 2016. All Columbia River recreational fisheries in 2017 were markselective for coho. In 2017, Columbia River managers opened the Buoy 10 fishery August 1 for marked coho, with the daily-bag-limit of two adult salmon, only one of which may be a Chinook. From September 5 through 30 retention of Chinook was prohibited. Beginning October 1, the daily-bag-limit was 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 2017 Buoy 10 effort totaled 93,547 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 downstream of Bonneville Dam are included with mainstem harvest in Appendix B, Table B-21.

## Escapement and Management Performance

The overall abundance estimate for OPI area stocks in 2017 was 352,100 compared to 334,800 in 2016, and to the recent ten-year average of 762,000 (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. In 2017, 83 redds were counted and are reported in Table B-7. However, the spawning season for this watershed may not be complete and the final redd count will likely change. Estimates were available for escapement to Klamath River Basin hatcheries, but not for coho spawning in natural areas. In 2017, a total of 252 adult coho returned to Trinity River Hatchery and 95 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 2017 to Oregon coastal river and lake systems from the Sixes River north (Oregon Coast ESU) was 58,100 adult coho. This compares to 75,900 adults in 2016. Historical spawner escapement estimates of naturally produced coho are reported in Table III-1.

Preliminary information indicates the total natural spawning population on the Oregon Coast was the second lowest since 1999. The total estimate of the natural spawning population in 2017 was 62,600 , 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 is 11.6 percent, which is greater than the preseason projection of 9.3 percent, and less than the 30.0 percent maximum allowed under the OCN work group matrix.

Preliminary postseason estimates of marine exploitation on RK coho is 4.2 percent, which is greater than the preseason projection of 3.3 percent, and less than 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 2,300 adults (Table III-1).

## Columbia River Coho

The 2017 ocean escapement of adult early and late Columbia River coho stocks was 235,700 fish, compared to 204,900 adults in 2016 (Appendix B, Table B-21).

Preliminary postseason estimates of marine exploitation on LCN coho was 7.3 percent, which is slightly less than the preseason projected 7.8 percent. The total exploitation rate was estimated at 10.8 percent, well within the 18.0 percent allowed (Table III-5).

## 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, Quinault (hatchery), Queets, Hoh, and Quillayute coho. Those stocks contribute primarily to ocean fisheries off Washington and B.C.

## Management Objectives

Preseason Management goals in 2017 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. In 2017, the co-managers agreed to a spawning escapement objective of 5,130 for Queets River coho, resulting in an exploitation rate exceeding that allowed under the PST for management units in the low abundance category. The Pacific Salmon Commission's Southern Panel concurred with an exception to this limit under Chapter 5, Paragraph 11(c) of the PST. No other agreements on annual spawning targets for Washington coastal coho other than those in the FMP in place during the preseason process were made in 2017.

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

## Regulations to Achieve Objectives

Washington coastal coho stocks played a primary role in 2017 Council-area ocean fishery management, particularly north of Cape Falcon, due to low run size predictions. Overall harvest quotas were limited to levels well below those of the late 1980s and early 1990s. All ocean coho fisheries both north and south of

Cape Falcon were mark-selective except for a September recreational coho fishery south of Cape Falcon. 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 2017 gillnet coho harvest in Willapa Bay totaled 4,615 fish. Based on the preseason forecast for a terminal run of 80,664 fish, the scheduled commercial fisheries were expected to harvest approximately 19,668 total coho. There were 2312 -hour Chinook and coho directed non-Indian gillnet fishery openings September 5 through October 13. Retention of both marked and unmarked coho was allowed. Unmarked Chinook retention was prohibited. Non-directed openings were scheduled October 31 through December 1.

From July 1, 2017, through July 31, 2017, Willapa Bay (Marine Area 2-1) was open for recreational fishing concurrent with the Ocean Marine Area 2 (ocean rules applied). From August 1, 2017, through January 31, 2018, Willapa Bay was open to recreational fishing with a daily-bag-limit of 6 salmon, no more than 3 adults allowed to be harvested each day; anglers required to release unmarked Chinook. Beginning January 1,2018, the daily bag limit was reduced to one adult salmon, anglers required to release unmarked Chinook and unmarked coho. Barbless hooks were required when fishing for salmon. Anglers were allowed to fish with two poles if they had a Two-Pole Endorsement. Expected harvest in all recreational fisheries based on preseason forecast abundance was 11,459 hatchery and wild coho. Marine and freshwater recreational harvest estimates were unavailable for 2017, but for 2016, Marine Area 2-1 and freshwater recreational harvest estimates totaled 5,243 fish.

Freshwater recreational fisheries in the Willapa Bay watersheds varied in duration, but were generally open for salmon fishing as early as August 1, 2017, through January 31, 2018 with a daily-bag-limit of 6 salmon and no more than 4 adults (modified to a total of 1 adult salmon with unmarked coho retention prohibited beginning January 1, 2018) . Unmarked Chinook retention was prohibited. Single-point barbless hooks were required in all areas except Naselle, South Fork Willapa, and Bear rivers, where only barbless hooks were required.

## Escapement and Management Performance

Willapa Bay coho were managed primarily for natural production. Estimates of natural spawning escapement for 2017 were unavailable. The most recent but still preliminary natural escapement estimate available was 25,290 in 2016, which met the FMP escapement objective of 17,200 natural spawners. Escapement to Willapa Bay hatcheries in 2016 was estimated at 21,849 coho, which met the WDFW escapement objective of 6,100 spawners.

The geometric mean of Willapa Bay coho natural spawning escapements in 2014, 2015, and 2016 is 23,433 which was above the MSST of 8,600; therefore, Willapa Bay coho should not be considered overfished. Estimates of Willapa Bay coho exploitation rates were not available for 2016 or 2017; however, fisheries in earlier years resulted in exploitation rates well below the MFMT ( 0.74 ); therefore, Willapa Bay coho should not be considered subject to overfishing (Table III-7).

## 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 2016 terminal run size estimate for Grays Harbor coho, after execution of the ocean
fishery, was 69,367 fish, ( 33,383 natural and 35,984 hatchery). Treaty Indian gillnet and non-Treaty fisheries (gillnet and sport) reported a harvest of 7,054 coho (natural, hatchery, and net-pen origin) in 2016. The Chehalis Tribe reported its gillnet fishery harvest to be 891 coho in 2016. 2017 pre-terminal and Grays Harbor terminal fisheries were conducted with regulations designed to restrict coho harvest impacts. Treaty Indian and non-Indian gillnet coho harvest for 2016 was reported as 2,295 compared to 2017 gillnet harvest of 11,734 under increased terminal fishery restrictions in 2017. Recreational harvest estimates for 2017 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 preseason expected coho fishery impacts were limited by the expected abundance and harvest of coho in the Lower Chehalis side of the fishery. In 2017, the Chehalis area Treaty fishery harvested 6,631 coho, while the Humptulips area Treaty fishery catch was 3,923 coho. The combined Grays Harbor Treaty coho harvest was 10,554 approximately 82 percent of the expected harvest after accounting for the in-season net restrictions changes during later chum salmon entry and the preseason terminal prediction.

The non-Indian gillnet fishery in Humptulips commercial Area 2C was scheduled to open for four 12-hour days in mid-October and early November. Retention of all fall Chinook, coho, and chum was allowed. Total catch of coho in Area 2C was 31 fish, 11 percent of the expected harvest. The non-Indian gillnet fishery in the Chehalis River, commercial Areas 2A and 2D, was scheduled to open for eight 12-hour days in mid-October and early 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 1,180 coho, about 59 percent of the predicted harvest estimate.

Chehalis Tribe Chehalis River upper mainstem fisheries occurred in the fall of 2017. Harvest data shows a catch of 927 coho.

Estimates of catch in recreational fisheries for 2017 were unavailable; however, fisheries were conducted in three general areas: Marine Area 2.2, the Chehalis River and its tributaries, and the Humptulips River.

A recreational fishery in the northern portion of Marine Area 2-2, Commercial Area 2C, was open from August 1 through September 15. During this time 2 adult salmon could be retained, and wild coho must be released. From September 16 through November 30, the portion of Marine Area 2-2 east of a line from the mouth of Johns River to Brackenridge Bluff Tripod was open for the retention of 2 adult salmon per day. During this time wild Chinook must be released and only 1 wild coho was allowed per day.

The Chehalis River and its tributaries were scheduled to 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 January 31, 2017 with a daily limit of 6 salmon, two adults may be retained, release wild Chinook, and only one wild coho allowed per day.

The Humptulips River recreational fishery was scheduled to open for coho fishing on the following dates and areas, with a bag limit of 2 adult salmon daily.

- From the mouth to the confluence of the East and West forks: September 1 through October 15: a daily limit of 6 salmon, up to 2 adults may be retained; release wild Chinook and wild coho. From October 16 through October 31: a daily limit of 6 salmon, up to 2 adults may be retained; only 1 may be a Chinook, release wild Chinook and wild coho. From November 1, 2016 through January 31, 2018: a daily limit of 6 salmon, up to 2 adults may be retained, release Chinook and wild coho.


## Escapement and Management Performance

Grays Harbor coho are managed for natural production with a spawning escapement goal of 35,400 . A preliminary escapement estimate for 2016 is 37,849 natural spawning coho. An estimate for 2017 Grays Harbor coho was not available. The 2016 forecast for the terminal runsize of natural spawning coho was 47,872 adult fish and 33,274 hatchery-origin coho. The preliminary 2016 terminal runsize is estimated at 33,383 natural coho and 35,984 hatchery-origin coho. The returns of hatchery-origin coho to Grays Harbor hatchery programs were sufficient to provide for 2017 coho production goals. For the last three returns, natural origin escapement (natural spawning or taken for broodstock or killed when sampled) was 105,039, 21,278 , and 37,849 during 2014,2015 , and 2016 respectively. The 2017 escapement has not been determined, but 771 natural origin fish were taken for hatchery broodstock.

The geometric mean of Grays Harbor coho natural origin escapements in 2014, 2015, and 2016 is 43,898 which is 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 2016 or 2017; 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-7).

## 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 33,838 coho were harvested by the gillnet fishery during the 2017 season.

## Escapement and Management Performance

Quinault River coho were managed for hatchery production. Escapement estimates for Quinault River coho in 2017 were unavailable. The Quinault National Fish Hatchery egg take objectives for 2017 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 2017 fishery was structured to target returning hatchery coho while limiting incidental impacts on natural coho, which were also limiting to marine harvest coast-wide, and limiting total freshwater Chinook harvest to a maximum rate of 40 percent. The schedule and mesh size restrictions fished in 2017 are depicted in the discussion of the Chinook directed fishery. The total harvest of coho in the Treaty Indian gillnet fishery was 7,568 commercially-landed fish, which was more than the preseason modeled catch of 6,561 . The gillnet harvest was comprised of a mix of early-timed hatchery fish and normal/late-timed natural fish. A final estimate of the hatchery/natural mix in the catch is currently unavailable.

The recreational fishery within the Quinault Reservation was conducted from August 27 through December 1 with a restriction on the harvest of unmarked coho. Only coho with an adipose clip were permitted to be retained in the Queets and Salmon River fisheries on the Reservation.

Recreational fisheries outside of reservation lands were restricted. The Queets, Clearwater, and Salmon rivers outside the Quinault reservation were open only in September for salmon fishing to focus the fishery on early timed hatchery coho. Anglers were required to release wild coho.

## Escapement and Management Performance

A preliminary 2017 spawning escapement estimate for coho in the Queets River is not available. The preseason expected natural coho escapement in 2017 was 5,136 . Actual escapement is anticipated to be above the preseason expectation. For 2017, the comanagers agreed to a spawning escapement objective of 5,130 which is slightly below the range of $5,800-14,500$ natural adult spawners in the FMP. For the most recent year available, the 2016 natural escapement estimate was 5,156. The Quinault Indian Nation closed their fisheries as planned during weeks 41 and 42 as well as weeks 46 and 47 of the 2017 fishery, and established large mesh restriction during weeks 43,44 and 45 due to the low expected return of wild coho. Off reservation non-treaty sport fisheries were limited to only take place in September as planned, due to the low expected return of wild coho.

The geometric mean of Queets River coho escapement in 2014, 2015, and 2016 was 4,291, which was below the MSST of 4,350; therefore, Queets River coho should be considered overfished. Estimates of Queets River coho exploitation rates were not available for 2016 or 2017; 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-7).

## 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 2017 terminal run size of Hoh River natural coho was projected to be 5,481. The tribal fishery targeted 32.8 percent of the terminal run. The treaty Indian gillnet fishery occurred from the week of September 11 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 total was 1,640 wild coho and 126 hatchery-origin coho, with 20 coho retained for ceremonial and subsistence purposes. The non-Indian recreational fishery was open September 11 with a daily-baglimit of 6 salmon, only 1 of which could be an adult. A catch estimate for the 2017 recreational fishery of wild coho was not available.

## Escapement and Management Performance

The preliminary 2017 spawning escapement estimate for coho in the Hoh River is 4,478 . The escapement goal range established for this stock is 2,000 to 5,000 .

The geometric mean of Hoh River coho escapement in 2015, 2016, and 2017 was 3,427, which was above the MSST of 1,890, therefore Hoh River coho should not be considered overfished. Estimates of Hoh River coho exploitation rates were not available for 2016 or 2017. However, fisheries in 2015 resulted in an exploitation rate well below the MFMT ( 0.65 ), therefore, Hoh River coho should not be considered subject to overfishing (Table III-7).

## 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 4,443 summer coho were harvested in the Quileute Tribe's commercial, ceremonial, and subsistence fisheries (hatchery $=3,522$, wild $=921$ ). An estimate of the 2017 recreational, summer coho catch was 316 hatchery fish.

Tribal harvest of fall coho in 2017 was 15,629 (hatchery $=10,710$, wild $=4,919$ ). Fall coho taken in the ceremonial and subsistence fishery is included in IGN catch. The fall recreational fishery in the Quillayute system was greatly reduced to protect wild salmon due to unusually low flows. From the end of September to mid-November sport fishing was limited to salmon catch and release only on parts of the Bogachiel and Calawah Rivers (Rm. 5.0-8.6 on the Bogachiel and 0.0-6.6 on the Calawah Rivers). The Quileute Tribe closed their fall fishery from October 16 through November 5 for the same stock conservation reasons. An estimate of the 2017 recreational fall coho catch was 164 (est. 16 natural from non-harvest mortality).

## 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 2017 summer coho hatchery rack return was 7,245 , well above the goal of 300. The 2017 wild summer coho escapement estimate was 650.

The preliminary 2017 escapement estimate for natural fall coho was 8,745 , which includes 76 brood stock fish. This was above the MSY spawner escapement objective of 6,300 for this stock. Sol Duc Hatchery rack return for fall coho was 18,299.

The MFMT for Quillayute River Coho is 0.59 . In 2013, 2014 and 2015, the Quillayute River coho exploitation rates were $0.55,0.50$ and 0.45 , respectively; therefore, in 2015 Quillayute River coho was not subject to overfishing. Estimates of Quillayute River coho exploitation rates were not available for 2016 or 2017. (Table III-7).

## 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. v. Washington and subsequent U.S. District Court orders (see "Memorandum Adopting Salmon Management Plan"; U.S. v. 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 2017. 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 2014, 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 2017, the objectives were as follows:

- Strait of Juan de Fuca (East and West): Moderate status
- Hood Canal:
- Skagit:
- Stillaguamish:
- Snohomish:

Abundant status
Critical status
Critical status
Moderate status

40 percent maximum exploitation rate 65 percent maximum exploitation rate 20 percent maximum exploitation rate 20 percent maximum exploitation rate
40 percent maximum exploitation rate

## Regulations to Achieve Objectives

Puget Sound coho stocks did not play a primary role in 2017 ocean fishery management considerations, since management of impacts to Washington coastal natural coho and LCN coho were more constraining. Inside fisheries, primarily in Puget Sound, were constrained to meet objectives for Puget Sound 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 Washington Coast coho, Puget Sound coho, LCN coho, OCN coho, and Interior Fraser coho. Season and size limit details are presented in Tables I-1, $\mathrm{I}-2$, 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 nonIndian) for all coho stocks combined is presented in Appendix B, Table B-39. The 2017 total Puget Sound commercial catch of coho was 203,489 fish, compared to a catch of 274,416 coho in 2016. Non-Indian harvest was 11,763 coho, compared to 14,486 coho in 2016. Treaty Indian net and troll fisheries harvested 191,726 coho, compared to 259,930 coho in 2016.

Historical coho catches in the Puget Sound recreational fishery beginning in 1971 are listed in Appendix B, Table B-40. Catch estimates for the 2017 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 2016 postseason estimates were available for SUS harvest impacts on Puget Sound coho stocks; therefore, the 2016 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 2017 escapement information was not available for natural Puget Sound coho.

The geometric mean of Strait of Juan de Fuca coho escapement (combined Western and Eastern; the current stock designation) in 2014, 2015, and 2016 was 6,842 , which was below the MSST of 7,000 identified in FMP Amendment 16 and below the $\mathrm{S}_{\text {MSY }}$ estimate of 11,000; therefore, Strait of Juan de Fuca coho should be considered overfished. Estimates of Strait of Juan de Fuca coho exploitation rates were not available for 2016 or 2017; however, fisheries in earlier years resulted in exploitation rates well below the MFMT ( 0.60 ); therefore, Strait of Juan de Fuca coho should not be considered subject to overfishing (Table III-7).

The geometric mean of Hood Canal coho escapement in 2014, 2015, and 2016, was 25,977, 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 2016 or 2017; however, fisheries in 2012 and 2014 resulted in exploitation rates above the MFMT (0.65); therefore, Hood Canal coho were subject to overfishing in those years (Table III-7).

The geometric mean of Skagit coho escapement in 2014, 2015, and 2016 was 17,271 , 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 2016 or 2017; however, fisheries in earlier years resulted in exploitation rates 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 2014, 2015, and 2016 was 11,040, 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 2016 or 2017; however, fisheries in earlier years resulted in exploitation rates at or 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 2014, 2015, and 2016 was 29,677 , which was below the MSST of 31,000 ; therefore, Snohomish coho should be considered overfished. Estimates of Snohomish coho exploitation rates were not available for 2016 or 2017; however, fisheries in earlier years resulted in exploitation rates 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 the 2017 management process, Interior Fraser coho were designated to be in the "low" status category, which required the total exploitation rate in SUS fisheries not to exceed 10.0 percent. This requirement was not a constraint for Council area and inside fisheries. The preseason expectation was that the total SUS fishery exploitation rate on Interior Fraser coho would not exceed 10.0 percent ( 1.9 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.

## 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 2017 were met for Rogue/Klamath, OCN and LCN coho stocks (Table III-6). Quillayute fall coho and Hoh coho met their FMP conservation objectives. Information to assess compliance with FMP conservation objectives and ESA consultation standards in 2017 was unavailable for most other Washington coastal, and Puget Sound coho stocks.

## Stock Status Determinations

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 ( $\mathrm{F}_{\mathrm{msy}}$ );
- 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 3-year geometric mean spawning escapement is greater than the MSST but less than $\mathrm{S}_{\text {MSY }}$;
- A stock is rebuilt when the most recent 3-year geometric mean spawning escapement exceeds $\mathrm{S}_{\text {MSY }}$.

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-7.

Based on these SDC, Queets coho, Strait of Juan de Fuca coho, and Snohomish coho meet the criteria for overfished status (using the most recent data for these stocks from 2014, 2015, and 2016). Exploitation rate estimates for these stocks are not available for 2017. The most recent year where exploitation rates are available is 2015 , and no stocks were subject to overfishing.

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

| Year | Winchester Dam |  |  |  |  |  |  | Inside Harvest Impacts ${ }^{\text {d/ }}$ | Ocean Escapement to Oregon Coast ${ }^{a /}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Returns to Hatcheries |  |  | Count ${ }^{\text {/ }}$ | Numbe | OCN S | ners $^{\text {a/ }}$ |  |  |
|  | Private | Public | STEP ${ }^{\text {P/ }}$ | (North Umpqua) | Lakes | Rivers | Total |  |  |
| 1970-75 | - | - | - | - | - | - | - | - | - |
| 1976-80 | 26.1 | 19.0 | - | 0.4 | 4.0 | 26.6 | 30.6 | 9.1 | 79.9 |
| 1981-85 | 176.8 | 18.0 | - | 2.2 | 7.2 | 46.1 | 53.3 | 12.9 | 263.2 |
| 1986-90 | 154.3 | 26.9 | 1.3 | 3.6 | 6.2 | 37.1 | 43.3 | 15.2 | 244.6 |
| 1991 | 35.1 | 39.6 | 4.9 | 3.9 | 7.1 | 33.8 | 40.9 | 31.5 | 155.8 |
| 1992 | - | 23.3 | 0.6 | 5.0 | 2.0 | 44.7 | 46.6 | 18.7 | 94.3 |
| 1993 | - | 20.2 | 2.0 | 2.3 | 10.1 | 49.2 | 59.2 | 13.3 | 97.1 |
| 1994 | - | 23.4 | 1.8 | 2.0 | 5.7 | 41.7 | 47.4 | 2.5 | 77.1 |
| 1995 | - | 25.2 | 0.4 | 2.7 | 11.1 | 50.1 | 61.2 | 3.7 | 93.2 |
| 1996 | - | 23.4 | 1.0 | 5.1 | 13.4 | 69.2 | 82.7 | 4.1 | 116.4 |
| 1997 | - | 17.7 | 0.2 | 3.1 | 8.6 | 15.2 | 23.8 | 4.3 | 49.2 |
| 1998 | - | 15.3 | 0.2 | 6.3 | 11.1 | 21.5 | 32.6 | 5.2 | 59.7 |
| 1999 | - | 13.3 | 0.4 | 4.1 | 12.5 | 34.7 | 47.2 | 2.8 | 67.9 |
| 2000 | - | 15.0 | 0.5 | 13.4 | 12.7 | 61.0 | 73.8 | 4.4 | 107.1 |
| 2001 | - | 37.4 | 1.4 | 16.0 | 19.6 | 143.1 | 162.7 | 10.0 | 227.6 |
| 2002 | - | 30.9 | 2.6 | 7.4 | 22.0 | 236.4 | 258.4 | 8.0 | 307.3 |
| 2003 | - | 15.9 | 3.6 | 10.4 | 16.1 | 213.3 | 229.4 | 6.8 | 266.2 |
| 2004 | - | 13.2 | 0.8 | 7.2 | 18.6 | 154.1 | 172.8 | 6.3 | 200.3 |
| 2005 | - | 10.0 | 0.3 | 8.9 | 14.7 | 139.9 | 154.6 | 6.1 | 179.9 |
| 2006 | - | 9.8 | 0.1 | 7.0 | 24.1 | 104.7 | 128.8 | 2.6 | 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 | 189.9 |
| 2009 | - | 6.1 | 0.0 | 0.6 | 17.3 | 245.4 | 262.7 | 7.3 | 276.8 |
| 2010 | - | 7.9 | 0.0 | 0.7 | 38.7 | 244.7 | 283.4 | 5.7 | 297.6 |
| 2011 | - | 4.6 | 0.0 | 0.2 | 20.3 | 336.0 | 356.2 | 12.8 | 373.8 |
| 2012 | - | 2.2 | 0.0 | 0.7 | 18.9 | 80.2 | 99.2 | 8.1 | 110.1 |
| 2013 | - | 6.5 | 0.0 | 0.6 | 13.7 | 110.8 | 124.4 | 12.0 | 143.5 |
| 2014 | - | 16.0 | 0.0 | 0.1 | 22.0 | 337.6 | 359.6 | 23.5 | 399.2 |
| 2015 | - | 4.7 | 0.0 | 0.2 | 4.7 | 52.4 | 57.1 | 4.2 | 66.2 |
| 2016 | - | 8.9 | 0.0 | 0.1 | 8.0 | 67.9 | 75.9 | 1.8 | 86.7 |
| 2017 ${ }^{\text {/ }}$ | - | 2.3 | 0.0 | 0.2 | 1.3 | 56.8 | 58.1 | 1.5 | 62.1 |

a/ Does not include estimates for the Rogue River (SONCC ESU). Spaw ner escapements to rivers prior to 1990 w ere estimated by a nonrandom standard index of streams north of the Rogue River. A total coastwide spaw ner escapement methodology based on stratified random sampling (SRS) w as 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 spaw ner 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/ Freshw ater 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 2017 Buoy 10 recreational fisheries (all data are preliminary). ${ }^{\text {a }}$

|  | Ending Date of |  | Catch $^{\text {b/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Week Number | Period | Angler Trips | Chinook | Coho | Catch Per Trip |
| 32 | Aug.-6 | 6,938 | 1,608 | 64 | 0.24 |
| 33 | Aug.-13 | 8,750 | 2,840 | 459 | 0.38 |
| 34 | Aug.-20 | 21,244 | 6,978 | 1,567 | 0.40 |
| 35 | Aug.-27 | 23,340 | 7,913 | 2,768 | 0.46 |
| 36 | Sept.-3 | 19,835 | 8,089 | 5,848 | 0.70 |
| 37 | Sept.-10 | 6,588 | 944 | 4,260 | 0.79 |
| 38 | Sept.-17 | 4,470 | 0 | 3,283 | 0.73 |
| 39 | Sept.-24 | 1,227 | 4 | 315 | 0.26 |
| 40 | Oct.-1 | 907 | 4 | 258 | 0.29 |
| $41-44$ | Oct.-31 | 248 | 18 | 12 | 0.12 |
| Total |  | 93,547 | 28,398 | 18,834 | 0.50 |

a/ Includes boat-based and shore-based fisheries from the upstream boundary at the Tongue Point/Rocky Point line (2000), dow nstream to the Buoy 10 line including Clatsop Spit, the South Jetty of the Columbia River, and the North Jetty of the Columbia River after the ocean closed. Youngs Bay bubble closure in effect August 1 through September 15. Fishery opened August 1 for marked coho, with the daily-bag-limit of two adult salmon, only one of which may be a Chinook. From September 5 through 30 retention of Chinook was prohibited. Beginning October 1 the daily-bag-limit was tw o adult salmon.
b/ Includes adults and jacks as determined by CWT analysis.

| Year or Avg. |  |  | Oregon and California Coastal Returns |  |  | Columbia River Returns | Abundance ${ }^{\text {e/ }}$ | Ocean Exploitation Rate Based on OPI Abundance ${ }^{\text {f/ }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ocean Fisheries ${ }^{\text {b/ }}$ |  | Hatcheries and Freshw ater | OCN | Private |  |  |  |
|  | Troll | Sport | Harvest ${ }^{\text {c/ }}$ | Spaw ners ${ }^{\text {d/ }}$ | Hatcheries |  |  |  |
| 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 |
| 1986-1990 | 574.6 | 339.3 | 55.1 | 45.5 | 154.3 | 705.0 | 1,602.2 | 0.70 |
| 1991-1995 | 107.4 | 182.7 | 46.6 | 53.2 | 35.1 | 315.1 | 668.4 | 0.35 |
| 1996 | 7.0 | 31.8 | 45.8 | 87.5 | - | 117.1 | 260.3 | 0.15 |
| 1997 | 5.5 | 22.4 | 27.9 | 31.6 | - | 156.4 | 230.5 | 0.12 |
| 1998 | 3.5 | 12.8 | 31.2 | 34.9 | - | 175.9 | 270.8 | 0.06 |
| 1999 | 3.6 | 36.5 | 23.4 | 48.6 | - | 289.1 | 432.0 | 0.09 |
| 2000 | 25.2 | 74.6 | 37.0 | 84.8 | - | 558.3 | 762.4 | 0.13 |
| 2001 | 38.1 | 216.8 | 75.7 | 174.7 | - | 1,128.3 | 1,673.2 | 0.15 |
| 2002 | 15.0 | 118.7 | 53.9 | 266.9 | - | 535.8 | 972.2 | 0.14 |
| 2003 | 28.8 | 252.4 | 44.9 | 236.2 | - | 713.2 | 1,266.9 | 0.22 |
| 2004 | 26.2 | 159.3 | 38.1 | 197.3 | - | 463.5 | 904.5 | 0.21 |
| 2005 | 10.5 | 58.2 | 42.7 | 164.6 | - | 354.7 | 629.9 | 0.11 |
| 2006 | 4.5 | 47.5 | 29.5 | 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 | 16.0 | 180.1 | - | 520.8 | 769.8 | 0.04 |
| 2009 | 27.7 | 201.2 | 16.5 | 265.3 | - | 760.2 | 1,341.3 | 0.17 |
| 2010 | 5.8 | 48.8 | 18.5 | 287.1 | - | 466.5 | 848.4 | 0.06 |
| 2011 | 4.2 | 54.7 | 20.0 | 360.8 | - | 378.1 | 836.4 | 0.07 |
| 2012 | 4.7 | 45.5 | 18.5 | 104.6 | - | 152.4 | 311.3 | 0.16 |
| 2013 | 8.4 | 48.3 | 26.5 | 135.6 | - | 252.8 | 494.1 | 0.11 |
| 2014 | 35.6 | 197.4 | 42.0 | 362.1 | - | 1,020.5 | 1,724.8 | 0.14 |
| 2015 | 11.7 | 84.4 | 11.8 | 61.2 | - | 169.6 | 336.3 | 0.29 |
| 2016 | 0.0 | 31.7 | 11.4 | 82.2 | - | 204.9 | 334.8 | 0.09 |
| $2017^{9 /}$ | 0.8 | 49.6 | 4.4 | 62.6 | - | 235.7 | 352.1 | 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 w as terminated.
d/ Includes Rogue River.
e/ FRAM post season runs used after 1985 and includes OPl origin stock catches in all fisheries.
f/ Private hatchery stocks are excluded in calculating the OPl 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 Spaw ner Population Estimates in Thousands of Spaw ners by Stock Component ${ }^{\text {a/ }}$ |  |  |  |  | Adult Coho Spaw ners Per Spaw ner Habitat Mile |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Northern ${ }^{\text {b/ }}$ | North Central ${ }^{\text {c }}$ | South Central ${ }^{\text {d }}$ | Southern ${ }^{\text {e/ }}$ | Coast-w ide | Northern ${ }^{\text {b/ }}$ | North Central ${ }^{\text {c }}$ | South Central ${ }^{d /}$ | Southern ${ }^{\text {e/ }}$ | Coast-w ide ave. |
| 1990 | 2.2 | 5.6 | 13.5 | 1.2 | 22.5 | 2 | 5 | 8 | 3 | 6 |
| 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 | $0.8 \mathrm{f}^{\prime}$ | 55.7 | 5 | 7 | 27 | $1^{\text {t/ }}$ | 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 | 12.0 | 184.6 | 37 | 22 | 70 | 29 | 45 |
| 2002 | 52.5 | 104.0 | 104.1 | 8.5 | 269.0 | 58 | 89 | 64 | 21 | 66 |
| 2003 | 59.6 | 68.9 | 100.1 | 6.8 | 235.4 | 66 | 59 | 62 | 17 | 57 |
| 2004 | 28.8 | 42.1 | 101.9 | 24.5 | 197.3 | 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 | 132.7 | 27 | 18 | 51 | 10 | 32 |
| 2007 | 17.5 | 12.3 | 36.5 | 5.1 | 71.4 | 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 | 3.7 | 287.1 | 61 | 49 | 106 | 9 | 70 |
| 2011 | 45.9 | 119.1 | 191.3 | 4.5 | 360.8 | 51 | 102 | 118 | 11 | 88 |
| 2012 | 7.5 | 33.8 | 57.8 | 5.5 | 104.6 | 8 | 29 | 36 | 13 | 26 |
| 2013 | 11.0 | 39.7 | 73.7 | 11.2 | 135.6 | 12 | 34 | 45 | 27 | 33 |
| 2014 | 67.4 | 122.0 | 170.4 | 2.4 | 362.1 | 75 | 105 | 105 | 6 | 88 |
| 2015 | 6.7 | 22.7 | 27.7 | 4.1 | 61.2 | 7 | 19 | 17 | 10 | 15 |
| 2016 | 18.7 | 26.5 | 30.7 | 6.3 | 82.2 | 21 | 23 | 19 | 15 | 20 |
| $2017{ }^{\text {g/ }}$ | 13.4 | 22.7 | 22.0 | 4.5 | 62.6 | 15 | 19 | 14 | 11 | 15 |

a/ A spaw ner 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. Spaw ner population estimates include an adjustment for observation error
b/ Estimate based on 899 miles of spaw ner habitat w ithin Nehalem, Tillamook, and Nestucca Rivers and other direct ocean tributaries from Necanicum River through Neskow in Creek.
c/ Estimate based on 1,163 miles of spaw ner habitat within Siletz, Yaquina, Alsea, and Siuslaw Rivers and other direct ocean tributaries from the Salmon through Siuslaw Rivers.
d/ Estimate based on 1,622 miles of spaw ner habitat within Umpqua, Coos, and Coquille Rivers. Also includes spaw ners using
tributaries to Siltcoos, Tahkenitch, and Tenmile Lakes.
e/ Estimate based on a mark-recapture methodology and 410 miles of spaw ner 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 Freshw ater Exploitation Rate) |  |  | LCN Fishery Impact (Total Marine and Freshw ater Exploitation Rate) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Conservation Objective ${ }^{\text {a/ }}$ | Preseason Projection | Postseason Estimate ${ }^{\mathrm{b} /}$ | Conservation Objective ${ }^{\text {c/ }}$ | Preseason Projection | Postseason Estimate ${ }^{\text {b/ }}$ |
| 1990 | - | - | - | - | - | - |
| 1991 | - | 0.460 | 0.639 | - | - | - |
| 1992 | - | 0.420 | 0.626 | - | - | - |
| 1993 | - | 0.260 | 0.396 | - | - | - |
| 1994 | $\leq 0.20$ | 0.111 | 0.064 | - | - | - |
| 1995 | $\leq 0.20$ | 0.118 | 0.106 | - | - | - |
| 1996 | $\leq 0.20$ | 0.125 | 0.062 | - | - | - |
| 1997 | $\leq 0.20$ | 0.110 | 0.091 | - | - | - |
| 1998 | $\leq 0.13$ | 0.119 | 0.076 | - | - | - |
| 1999 | $\leq 0.15$ | 0.087 | 0.073 | - | - | - |
| 2000 | $\leq 0.15$ | 0.082 | 0.042 | - | - | - |
| 2001 | $\leq 0.08$ | 0.074 | 0.035 | - | - | - |
| 2002 | $\leq 0.15$ | 0.123 | 0.049 | - | - | - |
| 2003 | $\leq 0.15$ | 0.144 | 0.080 | - | - | - |
| 2004 | $\leq 0.15$ | 0.147 | 0.077 | - | - | - |
| 2005 | $\leq 0.15$ | 0.111 | 0.044 | $\leq 0.15$ | $0.10^{\text {d/ }}$ | 0.179 |
| 2006 | $\leq 0.15$ | 0.096 | 0.076 | $\leq 0.15$ | $0.10^{\text {d/ }}$ | 0.146 |
| 2007 | $\leq 0.20$ | 0.113 | 0.118 | $\leq 0.20$ | $0.13{ }^{\text {d/ }}$ | 0.208 |
| 2008 | $\leq 0.08$ | 0.069 | 0.019 | $\leq 0.08$ | 0.08 | 0.073 |
| 2009 | $\leq 0.15$ | 0.130 | 0.067 | $\leq 0.20$ | 0.20 | 0.187 |
| 2010 | $\leq 0.15$ | 0.112 | 0.045 | $\leq 0.15$ | 0.15 | 0.107 |
| 2011 | $\leq 0.15$ | 0.132 | 0.059 | $\leq 0.15$ | 0.15 | 0.111 |
| 2012 | $\leq 0.15$ | 0.150 | 0.183 | $\leq 0.15$ | 0.15 | 0.140 |
| 2013 | $\leq 0.30$ | 0.231 | 0.149 | $\leq 0.15$ | 0.15 | 0.143 |
| 2014 | $\leq 0.30$ | 0.253 | 0.141 | $\leq 0.225$ | 0.225 | 0.164 |
| 2015 | $\leq 0.15$ | 0.149 | 0.198 | $\leq 0.23$ | 0.23 | 0.244 |
| 2016 | $\leq 0.20$ | 0.131 | 0.087 | $\leq 0.18$ | 0.13 | 0.089 |
| $2017{ }^{\text {e/ }}$ | $\leq 0.30$ | 0.093 | 0.116 | $\leq 0.18$ | 0.114 | 0.108 |

a/ Prior to 1994, the conservation objective w as expressed in terms of the total escapement of OCN spaw ners 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 w hich 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.
$\mathrm{d} /$ The preseason projection $w$ as in terms of a marine exploitation rate.
e/ Preliminary.

TABLE III-6. Performance of coho salmon stocks in relation to 2017 preseason conservation objectives (preliminary data). (Page 1 of 2)

| System and Stock | 2017 FMP Conservation/Management |
| :--- | :--- | :--- |
| Objectives |  |$\quad$| Achievement |
| :--- |

TABLE III-6. Performance of coho salmon stocks in relation to 2017 preseason conservation objectives (preliminary data). Page (2 of 2)

| System and Stock | 2017 FMP Conservation/Management Objectives | Achievement |
| :---: | :---: | :---: |
| Puget Sound Coho | 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 2017 natural spaw ner escapements. Hatchery egg-take goals w ill be met. |
| Strait of Juan de Fuca | $\leq 40 \%$ total exploitation rate. | Preseason expectation of a 4.9\% total exploitation rate; postseason estimate unavailable. |
| Hood Canal | $\leq 65 \%$ total exploitation rate. | Preseason expectation of a $40.4 \%$ total exploitation rate; postseason estimate unavailable. |
| Skagit | $\leq 20 \%$ total exploitation rate. | Preseason expectation of a $11.1 \%$ total exploitation rate; postseason estimate unavailable. |
| Stillaguamish | $\leq 20 \%$ total exploitation rate. | Preseason expectation of a $8.5 \%$ total exploitation rate; postseason estimate unavailable. |
| Snohomish | $\leq 40 \%$ total exploitation rate. | Preseason expectation of a $15.2 \%$ total exploitation rate; postseason estimate unavailable. |

ABLE 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

| Spaw ning Escapement |  |  |  |  |  |  |  |  |  | Total Exploitation Rate |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 3-yr Geo |  |  |  |  |  |  |  |  |  |  |  |
| Coho Stock | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | Mean | MSST | $\mathrm{S}_{\text {MSY }}$ | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | MFMT |
| Willapa Bay | 18,880 | 22,638 | 47,154 | 10,790 | 25,290 | NA | 23,433 | 8,600 | 17,200 | 0.50 | 0.23 | 0.50 | 0.49 | NA | NA | 0.74 |
| Grays Harbor | 66,836 | 56,785 | 105,039 | 21,278 | 37,849 | NA | 43,898 | 18,320 | 24,426 | 0.44 | 0.44 | 0.46 | 0.50 | NA | NA | 0.65 |
| Queets | 4,285 | 5,684 | 7,557 | 2,028 | 5,156 | NA | 4,291 | 4,350 | 5,800 | 0.30 | 0.39 | 0.44 | 0.33 | NA | NA | 0.65 |
| Hoh | 4,072 | 2,899 | 4,565 | 1,794 | 5,009 | 4,478 | 3,427 | 1,890 | 2,520 | 0.46 | 0.70 | 0.43 | 0.30 | NA | NA | 0.65 |
| Quillayute Fall | 5,846 | 7,072 | 7,425 | 2,571 | 9,630 | 8,745 | 6,005 | 4,725 | 6,300 | 0.53 | 0.55 | 0.50 | 0.45 | NA | NA | 0.59 |
| Juan de Fuca | 11,021 | 8,461 | 11,002 | 3,779 | 7,704 | NA | 6,842 | 7,000 | 11,000 | 0.12 | 0.13 | 0.17 | 0.18 | NA | NA | 0.60 |
| Hood Canal | 45,921 | 16,064 | 26,776 | 26,926 | 24,313 | NA | 25,977 | 10,750 | 14,350 | 0.70 | 0.58 | 0.66 | 0.59 | NA | NA | 0.65 |
| Skagit | 92,687 | 85,751 | 24,820 | 5,794 | 35,823 | NA | 17,271 | 14,875 | 25,000 | 0.31 | 0.44 | 0.50 | 0.58 | NA | NA | 0.60 |
| Stillaguamish | 45,156 | 60,387 | 35,763 | 2,909 | 12,933 | NA | 11,040 | 6,100 | 10,000 | 0.29 | 0.33 | 0.40 | 0.50 | NA | NA | 0.50 |
| Snohomish | 130,637 | 125,870 | 46,244 | 12,804 | 44,141 | NA | 29,677 | 31,000 | 50,000 | 0.31 | 0.39 | 0.43 | 0.58 | NA | NA | 0.60 |



Figure III-1. Oregon Production Index (OPI) area coho abundance estimates by stratified random surveys (SRS) accounting methods, 1970-2017.


Figure III-2. Oregon coastal natural (OCN) adult coho spawners per habitat mile by coastal region based on SRS accounting methods, $1990-2017$.


Figure III-3. Washington Coast adult coho natural spawning escapement, 1976-2017.


Figure III-4. Puget Sound adult coho natural spawning escapement, 1981-2016.

## CHAPTER IV

## SOCIOECONOMIC ASSESSMENT OF THE 2017 OCEAN SALMON FISHERIES

SUMMARY: Total 2017 exvessel value of the Council-managed non-Indian troll commercial salmon fishery was $\$ 10.0$ million. This was 12 percent below last year's inflation-adjusted $\$ 11.4$ million and 49 percent below the inflation-adjusted total of $\$ 19.7$ million in 2015. The exvessel value of the coastwide commercial fishery in 2017 was 59 percent below the 2012-2016 inflation-adjusted average of $\$ 24.0$ million, and 83 percent below the 1979-1990 inflation-adjusted average of $\$ 60.4$ million. The coastwide average exvessel price for Chinook in 2017 was $\$ 9.07$ per pound, six percent above last year's inflationadjusted average of $\$ 8.52$ and the highest coastwide average price on record. Approximately $\$ 32$ thousand of coho were landed in the ocean commercial troll fishery in 2017. There were no commercial coho landings in 2016. The coastwide average exvessel price for coho was $\$ 2.69$, the highest in inflationadjusted terms since $\$ 2.92$ in 2008.

The preliminary number of vessel-based ocean salmon recreational angler trips taken on the West Coast in 2017 was 174,500 , an increase of 11 percent from last year, but 27 percent below the number of angler trips taken in 2015, 35 percent below the 2012-2016 average of 270,400, and 71 percent below the 1979-1990 average of 599,700 angler-trips per year.

Total West Coast income impacts associated with commercial and recreational ocean salmon fisheries in 2017 for Washington, Oregon, and California combined were an estimated $\$ 50.9$ million, 3 percent above last year's inflation-adjusted total of $\$ 49.5$ million (which was the lowest level since 2010), but 45 percent below the 2012-2016 inflation-adjusted average of $\$ 92.0$ million. ${ }^{1}$

## 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 somewhat less volatile 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.

[^0]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 relatively higher rate in that area. 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 that shaped the 2017 season is provided in Chapter I, and an assessment of success in meeting the objectives is provided in Chapters II and III for Chinook and coho, respectively.

## COMMERCIAL SALMON FISHERIES

## West Coast Non-Indian Commercial Ocean Fishery

## In-season Price Trends

The coastwide weighted-average exvessel prices in 2017 for salmon caught in the ocean commercial troll fishery were $\$ 9.07$ per dressed pound for Chinook and $\$ 2.69$ per dressed pound for coho. 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 June, averaging $\$ 10.86$ and $\$ 10.87$ per pound, respectively. Chinook prices in Oregon were highest in April and May at $\$ 11.31$ and $\$ 10.33$ per pound, respectively. In Washington, prices were highest in May at $\$ 10.06$ per pound. Average Chinook exvessel prices in California were lowest in August at $\$ 9.28$, while average Chinook exvessel prices in Oregon and Washington were lowest in July at $\$ 6.99$ and $\$ 5.95$, respectively. Over the entire 2017 season, exvessel Chinook prices in California, Oregon, and Washington averaged $\$ 9.90$, $\$ 8.98$ and $\$ 8.66$ 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 and inflation-adjusted terms, 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). Landing 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 focus on the non-Indian commercial troll fishery in Council management areas and associated state territorial ocean-area waters.

Total 2017 coastwide exvessel value of the Council-managed non-Indian commercial troll salmon fishery was $\$ 10.0$ million, 12 percent below last year's $\$ 11.4$ million, 49 percent below the inflation-adjusted level in 2015 of $\$ 19.7$ million, and 59 percent below the 2012-2016 inflation-adjusted average of $\$ 24$ million (Figure IV-4). Coastwide exvessel value in 2017 was the lowest level since $\$ 10.1$ million landed in 2011 (including pinks, adjusted for inflation). More than 99 percent of total coastwide exvessel value in 2017 was from Chinook landings. Exvessel revenues from coho landings in 2017 were $\$ 32$ thousand. Although an improvement on the total absence of coho landings from the prior year's ocean commercial troll fishery, with the exception of 2016, the 2017 total was lower than any other year's total exvessel revenues from coho landings since 2002 and 60 percent below the 2012-2016 average.

In 2017, California achieved $\$ 4.9$ million in commercial troll exvessel landings of Chinook, nine percent below the prior year's level of $\$ 5.4$ million, and 43 percent below the level of two years ago ( $\$ 8.6$ million) (all values adjusted for inflation). 2017 total landings revenues in California were 85 percent below the 1979-1990 inflation-adjusted average of $\$ 31.8$ million (which include coho landings during that period) and the lowest recorded since $\$ 1.4$ million in 2010.

The 2017 exvessel value of the Oregon commercial troll harvest ( $\$ 2.1$ million) was 51 percent below last year's level of $\$ 4.3$ million, 72 percent below the $\$ 7.6$ million recorded in 2015 , and 73 percent below the 2012-2016 average of $\$ 8$ million (all values adjusted for inflation). Oregon's 2017 commercial troll harvest value was 89 percent below the $1979-1990$ average of $\$ 19.1$ million, and the lowest recorded since $\$ 0.4$ million in 2009.

The $\$ 2.9$ million exvessel value of Washington's 2017 non-Indian troll harvest was 79 percent above last year's inflation-adjusted value of $\$ 1.6$ million, 18 percent below the 2015 value of $\$ 3.6$ million, and eight percent above the 2012-2016 average value of $\$ 2.7$ million. The 2017 value was 66 percent below the 1979-1990 inflation-adjusted average of $\$ 8.6$ million.

The 2017 average West Coast ocean harvest Chinook price of $\$ 9.07$ per pound was six percent above last year's inflation-adjusted value of $\$ 8.52$ per pound, and the highest value in inflation-adjusted terms on record since at least 1979 (the earliest year of price data included in this review). Adjusted for inflation, the coastwide average Chinook price over the last 12 years (2006-2017) was $\$ 6.76$ per pound, a period which also includes the second and third highest inflation-adjusted average prices of $\$ 8.52$ in 2016 and $\$ 7.95$ recorded in 2008. Part of the reason exvessel prices have been relatively high in recent years may be due to relatively restricted fishing opportunities and low harvests (see Chapter I and Appendix C for details).

In terms of numbers of fish, the 2017 coastwide, non-Indian commercial troll harvest of 97,000 Chinook was 16 percent below last year's level of 114,900 , 64 percent below the 270,100 Chinook harvested in 2015, 69 percent below the 2012-2016 recent five-year average of 315,200 fish, and 84 percent below the 1976-2016 long-term average of 615,400 fish (Figure IV-1). The 2017 coastwide average weight per Chinook ( 11.3 pounds) was three percent below last year's average ( 11.6 pounds), one percent above the average in 2015 ( 11.1 pounds), and five percent below the previous five-year (2012-2016) average of 11.8 pounds per fish (Appendix D Tables D-1, D-2, and D-3).

The coastwide non-Indian commercial fishery landed 1,800 coho in 2017 . With the exception of zero harvest in 2016, this was the fewest coho harvested in the commercial troll fishery since 1,700 in 2002.

West Coast port areas with the highest shares of coastwide commercial Chinook landings (by weight) in 2017 were San Francisco ( 29 percent), Westport ( 22 percent), Newport ( 16 percent), Monterey ( 13 percent), and Neah Bay ( 6 percent). In 2016, the leading ports were Newport ( 25 percent), San Francisco (23 percent), Fort Bragg (12 percent), Monterey (10 percent), and Westport and Coos Bay ( 9 percent each). In 2015, the leading ports were Fort Bragg (21 percent), Newport and Coos Bay (14 percent each), Westport (13 percent), and San Francisco (12 percent). In 2017, the ports north of Cape Falcon accounted for about 33 percent of the aggregate coastwide Chinook harvest by weight. By comparison, ports north of Cape Falcon accounted for 17 percent of coastwide Chinook landings in 2016, 25 percent in 2015 , 12 percent in 2014, 9 percent in 2013, and 14 percent in 2012. From the year 2008 to 2010, ports north of Cape Falcon accounted for an average of 77 percent of coastwide Chinook landings by weight and from the year 2000 to 2007 , about 9 percent.

Compared with 2016, commercial Chinook harvest by weight in 2017 was down by 19 percent in California and by 49 percent in Oregon, but up 67 percent in Washington. Ocean commercial troll coho harvest in 2017 was only 11,000 pounds, 82 percent of which were landed 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 604 vessels participated in the West Coast commercial salmon fishery in 2017. This is 22 percent fewer vessels than participated in

2016 (773), 43 percent fewer than participated in $2015(1,063)$, and 46 percent fewer vessels than participated in $2014(1,126)$. Note that these coastwide vessel counts are lower than totals derived by summing values in the three state-level tables (Appendix D, tables D-4, D-5 and D-6) due to an uncertain degree of completeness at the time data were extracted for this report, and because certain vessels may be counted more than once if they landed in more than one state.

In 2017, 398 commercial vessels made salmon landings in California, the fewest since 215 vessels in 2010 (no vessels landed salmon in California in 2008 or 2009 due to complete season closures). In Oregon, the active fleet decreased to 177 vessels in 2017 from 313 vessels the prior year. The 2017 total was the fewest recorded in Oregon since 138 vessels participated in 2008. The number of active vessels in Washington in 2017 totaled 108, an increase of one vessel from the 2016 total. 2016 had the fewest number of vessels landing salmon in Washington since 105 vessels in 2012. Coastwide, the number of limited entry salmon permits issued in 2017 by the three states decreased by 34 over the previous year from 2,228 to 2,194 , the lowest number on record. Landings were made on only 31 percent of all permits in 2017, the lowest ratio since 29 percent in 2010. Note that years 2008 ( 9 percent) and 2009 ( 13 percent) are the two lowest vessel participation years on record (1982-2017). 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. See Appendix D, tables D-4, D-5, and D-6 for details.

In 2017, coastwide average inflation-adjusted exvessel value of salmon landings per vessel increased 10 percent compared with 2016 to approximately $\$ 14,600$ per vessel. Compared to 2016, average 2017 statelevel exvessel revenue per vessel was up 77 percent to $\$ 27,000$ in Washington, down 13 percent to $\$ 12,000$ in Oregon, and unchanged at $\$ 12,300$ in California. Note that some caution needs to be exercised in interpreting average exvessel revenue per vessel. The averages may be influenced as much by disproportionate changes in the number of particularly small or large harvesters participating from one year to the next as by any real change in the average revenues of vessels that have consistently participated 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 2017, the treaty Indian ocean troll fishery harvested 25,800 Chinook ( 208,400 pounds) and 13,300 coho ( 79,400 pounds), compared with 23,800 Chinook ( 221,200 pounds) and 46 coho ( 400 pounds) in 2016, 62,400 Chinook ( 619,800 pounds) and 4,400 coho ( 22,100 pounds) in 2015, and 65,400 Chinook ( 660,200 pounds) and 56,100 coho ( 314,800 pounds) in 2014. The preliminary exvessel value of Chinook and coho landed in the treaty Indian ocean troll fishery in 2017 was $\$ 0.7$ million, compared with inflationadjusted values of $\$ 1.3$ million in 2016, $\$ 2.5$ million in 2015 and $\$ 3.7$ million in $2014^{2}$.

[^1]
## Columbia River Commercial Fishery

Harvest in the ocean salmon fisheries affects the number of fish available for harvest in inside and in-river 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 dollar values in the table and the following discussion are reported in inflation-adjusted dollars. Exvessel prices for in-river commercial salmon landings vary 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 2017 was $\$ 9.5$ million. This was 26 percent below the 2016 level of $\$ 12.9$ million, and 40 percent below the 2015 level of $\$ 15.8$ million (adjusted for inflation). Of these amounts, the total exvessel value of salmon harvested in the non-Indian portion of the Columbia River commercial fishery in 2017 was $\$ 3.4$ million, compared with $\$ 5.5$ million in 2016 and $\$ 5.3$ million in 2015 (adjusted for inflation) (Table IV-9).

Total exvessel value of treaty Indian salmon harvested in the Columbia River and sold on fish tickets was $\$ 6.1$ million in 2017. This is 18 percent below the inflation-adjusted level of $\$ 7.4$ million in 2016, and 42 percent below the inflation-adjusted level of $\$ 10.5$ million in 2015. Note that these values include only sales made to licensed fish buyers. Treaty Indian fishers' 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 2017 Puget Sound and Washington coastal inside fisheries below is preliminary. In previous years, substantial revisions to these numbers have occurred after publication of this review. Based on PacFIN data (as of January 19, 2018), 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 2017 was $\$ 7.7$ million. This was 74 percent greater than last year's inflation-adjusted value of $\$ 4.4$ million, and nearly double the $\$ 4.0$ million harvest value in 2015. Of the total Puget Sound and Washington coastal inside fisheries non-Indian commercial landings in 2017, $\$ 0.8$ million were Chinook and coho, compared with $\$ 0.9$ million in 2016 and $\$ 0.3$ million in 2015 (note that the 2015 value was the lowest since at least 1981). The 1981-2016 inflation-adjusted average annual exvessel value from Puget Sound and Washington coastal inside non-Indian commercial fisheries salmon landings was $\$ 16.1$ million, of which approximately $\$ 3.9$ million on average were landings of Chinook and coho. It is interesting to note that all years with recorded values higher than those averages occurred prior to 1994.

The preliminary 2017 exvessel value reported to PacFIN (as of January 19, 2018) for all salmon species taken in Puget Sound and Washington coastal inside commercial treaty Indian fisheries (excluding the Columbia River) was $\$ 1.8$ million, of which $\$ 1.4$ million were Chinook and coho. These are lowest values recorded for these fisheries going back to 1981. The (revised) inflation-adjusted value for the 2016 commercial treaty Indian harvest in Puget Sound and Washington coastal inside fisheries was $\$ 11.1$ million for all salmon species, of which $\$ 6.9$ million were Chinook and coho. The inflation-adjusted exvessel value of the 2015 commercial treaty Indian harvest in Puget Sound and Washington coastal inside fisheries was $\$ 7.7$ million for all salmon species, of which $\$ 3.2$ million were Chinook and coho. From 1981 through 2016, the inflation-adjusted average annual exvessel value of commercial treaty Indian fisheries in Puget Sound and Washington coastal inside areas was $\$ 21.1$ million, of which on average $\$ 8.1$ million were Chinook and coho.

## Klamath River Fisheries

Commercial sales from the Yurok and Hoopa Valley tribal spring and fall gillnet fisheries on the Klamath and Trinity rivers occur periodically, although 2017 was the second consecutive year these commercial fisheries were cancelled. Sales from the fall Chinook fishery occurred in 1987-1989, 1996, 1999-2004, and 2007-2015. Commercial sales from the spring Chinook fishery occurred in 1989, 1996, 2000-2004, and 2007-2013. The average annual commercial catch of fall Chinook during years that the fishery was open was approximately 22,200 fish, most of which were taken in the estuary. The 1989 total harvest of 25,500 fall Chinook reportedly had an average weight of 15.4 pounds per fish and sold for $\$ 852,000$ ( $\$ 1.4$ million in inflation-adjusted 2017 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 combined value at first sale of an estimated $\$ 525,000$ ( $\$ 0.7$ million in inflation-adjusted 2017 dollars). Records are not available for the weight and value of harvests for years after 1996, as each Indian fisher markets their fish independently. In 2015, approximately 17,100 commercial fall Chinook were harvested. No commercial sales in the spring Chinook gillnet fishery have occurred since 2013 when 971 spring Chinook were sold. Spring Chinook sales have averaged about 1,100 fish sold per year (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, Table B-5. 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 2017 was 174,500 , an increase of 11 percent from last year, but 27 percent below the number taken in 2015, 35 percent below the 2012-2016 average of 270,400, and 71 percent below the 1979-1990 average of 599,700 angler-trips per year. Compared with last year, preliminary estimates of the number of trips taken in 2017 increased by five percent in California, by nine percent in Oregon, and by 23 percent in Washington. Note that Washington effort estimates shown in Tables IV-10 and IV-13 may differ from those in Table I4 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 2017 ( 31 percent) was slightly above last year ( 30 percent), but slightly lower than in 2015 ( 32 percent). Underlying the coastwide values were an increase of seven percent compared with last year in the proportion of charter trips in California, a decrease of 10 percent in the proportion of charter trips in Oregon, and a decrease of three percent in the proportion of charter trips in Washington. Figure IV-5 and Tables IV-10, IV-11, IV-12, and IV-13 display recreational effort and catch statistics by port area and mode for each state.

## California

The number of ocean recreational salmon trips in California in $2017(73,600)$ reversed a downward trend over the prior four years. The 2017 total was five percent above $2016(70,100)$ but 10 percent lower than in $2015(81,800)$. Regionally, there were no recreational salmon trips originating in 2017 from Crescent City or Eureka due to the complete closure of the California KMZ. The number of trips was 51 percent
lower than last year in Fort Bragg, but 23 percent greater in San Francisco, and nearly double the 2016 level in Monterey. A total of 61,600 Chinook were caught in California on the total of 73,600 trips, for an average success rate of 0.84 fish per trip. The charter industry's share of California recreational salmon trips in 2017 was 47 percent, seven percent above last year's share, and the highest proportion of charter trips recorded since 48 percent in 1984 (Table IV-10, Table IV-11 and Figure IV-5).

## Oregon

The 42,300 ocean recreational salmon trips in Oregon in 2017 were up nine percent compared with 38,900 angler trips in 2016, but 36 percent below the 66,000 angler trips in 2015 , and 44 percent below the most recent five-year (2012-2016) average of 76,000 (Tables IV-10 and IV-12). Compared with last year, regional effort was lower by 21 percent in Tillamook and by 52 percent in Brookings; but up by nearly double in Astoria, by 25 percent in Newport, and by 15 percent in Coos Bay. The charter industry's share of Oregon recreational salmon trips in 2017 was 5.6 percent, 10 percent lower than in 2016, 42 percent below the recent five-year (2012-2016) average share of 10 percent, and the lowest charter trip share since 5.5 percent in 1994 (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. Salmon retention rates increased with the opportunity to retain coho in mark-selective fisheries south of Cape Falcon beginning in 1999. From 2002 through 2015, retention rates ranged between 0.44 and 1.08 salmon per angler-day. The 2017 Oregon salmon retention rate of 0.61 falls within this range, and is 90 percent higher than last year's historically low value of 0.32 . In 2017, coho contributed 82 percent of total Oregon recreational ocean salmon catch, the highest share since 84 percent in 2014.

## Washington

In 2017, 58,600 ocean angler trips were taken on vessels on the Washington coast, an increase of 23 percent from the 47,700 trips taken in 2016, but 27 percent below the recent five-year (2012-2016) average of 80,900. About 28 percent of Washington angler trips in 2017 were taken on charter vessels, down 3 percent from 2016, and 12 percent below the recent five-year average charter trip share of 32 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 0.95 in 2017, up 39 percent from last year, but 6 percent below the recent five-year (2012-2016) average success rate of 1.02 . 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. Beginning in 1996, Sunday through Thursday salmon openings were generally used in the two southern areas (Westport and Columbia River), and seven-day per week seasons were common in the two northern areas (Neah Bay and La Push). Starting in 1999, seven-day per week openings began to be used in the later part of the summer in the Columbia River area and, initially to a lesser extent, in Westport. In the same year, partial week openings were instituted for much of the season in both northern areas. Since then, seven-day per week openings have been increasingly used in the Westport and Columbia River areas. Beginning in 2011, seven-day openings became common for all areas.

In 2017, there were 52,700 bottomfish trips north of Cape Falcon, 9 percent fewer than in 2016 (which had the highest number of groundfish angler trips since at least 1984), and reversing an overall upward trend exhibited since the 2009 low point of 37,200 . Compared with 2016, total bottomfish effort decreased in all
four Washington coast areas: Columbia River-Buoy 10, Westport, La Push and Neah Bay-Area 4B regions (Table IV-14).

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

Salmon anglers fishing from private and charter boats originating from Oregon and Washington ports made a total of approximately 88,100 trips in the Buoy 10 fishery in 2017. This effort level is slightly less than the 88,700 trips recorded in 2016, approximately 13 percent below the 101,700 trips made in 2015, and 15 percent below the 103,500 trips recorded in 2014, continuing a downward trend since that time. However the 88,100 Buoy 10 fishery trips in 2017 were still approximately four percent above the recent five-year (2012-2016) average of 84,300 trips. The success/retention rate for anglers fishing from boats in the Buoy 10 fishery in 2017 was 0.52 salmon per angler day, 80 percent higher than the 0.29 success rate in 2016, and slightly below the average success rate of 0.53 salmon per angler day in the Buoy 10 fishery during 2012-2016 (Table IV-15).

As in previous years, there was no Area 4B add-on fishery in 2017. In 2000, approximately 3,400 trips were made in the late-season Area 4B add-on fishery. Since then there have been no late season Area 4B add-on fisheries, with the exception of 2008, when there were an estimated 782 private trips and no charter trips (Table IV-15).

There were numerous other inside recreational salmon fishing opportunities in Puget Sound, coastal streams, and estuaries that are not enumerated 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 annual salmon harvest on local economies and small businesses. Income impacts are based on commercial landings and recreational fishing days (angler-trips), and were estimated using the IO-PAC fisheries economic impact model. Prior to the Review of 2014 Ocean Salmon Fisheries document income impacts were estimated using the Fisheries Economic Assessment Model (FEAM). When IO-PAC was adopted it was applied retrospectively back to 2010. The change in methodology means that income impacts estimated using IOPAC for years beginning with 2010 are not comparable with historical values for years prior to 2010, which were estimated using FEAM. Consequently, any comparisons of income impacts in this document are confined to describing trends appearing over 2010-2017, during which period the IO-PAC-based models and multipliers were applied. Appendix E to the Review of 2014 Ocean Salmon Fisheries contains a more detailed explanation of the change in income modeling methodology, including comparisons of IO-PAC with FEAM-based estimates for overlapping years.

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. Income impacts are most relevant to those dependent on an income stream from the fishery, including individuals, businesses, and state and local governments. These impacts represent estimates of total personal income associated with harvesting and processing activities in the commercial salmon fisheries and trip-related expenditures made by recreational salmon anglers, expressed at the local community (county) and state levels. ${ }^{3}$ The income impacts reported in this chapter consist of personal income earned by those directly participating in the fishery (e.g. vessel owners, crew members, processing workers, recreational charter

[^2]operators), plus income indirectly associated with the fishery that is earned by those providing inputs to harvesting, processing and recreational sectors (e.g. fuel, gear, packaging, bait, and ice suppliers; and hotel, restaurant, and campground operators), and income earned by those whose goods and services are purchased when direct and indirect income is re-spent in the community (e.g. grocery store owners and employees, local manufacturers, auto mechanics, restaurants, health care, and legal professionals). This latter category is sometimes called 'induced income'.

When the commercial or recreational fishery is reduced or absent, the net impact on local communities will depend on the economic base of the community and on how people respond to the reduced fishery. For example, if a recreational angler is unable to make a coastal salmon trip and instead travels inland to fish in-river or at a mountain lake, then the impact associated with the lost salmon trip represents a net loss to the members of the coastal community. On the other hand, if the recreational fisher instead took part in another form of recreational activity in the same coastal community, then there may be little or no net loss to the community as a whole. However, at least some of those whose livelihood involves the salmon fishery would experience an income reduction, as if the angler's money had been spent elsewhere (or not at all). Similarly, for those involved in the commercial fishery, whether or not reduced income impacts associated with a reduction in salmon harvest represents a net loss to the community depends on to what degree opportunities exist in the community to take up some other economic activity to compensate for the loss of income from commercial salmon harvesting and processing.

Income impacts are presented at the local and state levels. When assessing local income impacts but changing the area of consideration from a local-level economy to a larger state or national economy, it is likely that an indicated change in local income impacts increasingly represents a disruption due to redistribution of activity within the economy and decreasingly represents a net loss to the greater economy under consideration.

Income impacts are estimated based on several data components, including: reported commercial landings and exvessel prices by port or area, an inventory of local harvesters and processors, estimates of expenditures by harvesters and processors, data on the expenditure patterns of recreational anglers, and local and state-level total income impact coefficients generated by IMPLAN ${ }^{\circledR}$ models constructed for each port or area. Commercial ocean harvests that are landed outside of coastal areas (e.g., ocean troll caught salmon landed in Puget Sound ports) are not included in these estimates of coastal community impacts, but may be 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 fishing-dependent and non-fishing sectors. As such, they represent likely upper bounds on the local community and state-level income impacts generated by West Coast salmon fisheries. All income impact estimates reported in this document are in terms of inflationadjusted 2017 dollars.

## West Coast Ocean Fishery Commercial and Recreational Income Impacts

Total state-level income impacts associated with recreational and non-Indian commercial ocean salmon fisheries for all three states combined in 2017 were $\$ 50.9$ million, 3 percent above the 2016 inflationadjusted level of $\$ 49.5$ million, but the third lowest estimated total over the 2010-2017 period (Tables IV16, IV-17 and IV-18). Total West Coast income impacts associated with the 2017 non-Indian commercial ocean fishery were $\$ 15.7$ million, 13 percent below the estimate for 2016 ( $\$ 18.0$ million), and 50 percent below 2015's inflation-adjusted level of $\$ 31.2$ million. ${ }^{4}$ Income impacts generated by the three states' combined 2017 ocean recreational fisheries totaled $\$ 35.2$ million, 12 percent above the 2016 level of $\$ 31.5$

[^3]million, but 27 percent below 2015's inflation-adjusted level of $\$ 48.5$ 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 income impacts estimated for 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 Oregon and Washington communities on the Columbia River. In 2017, income impacts associated with the Columbia River commercial catch (combined non-Indian and treaty Indian) were estimated at $\$ 13.9$ million, 26 percent below the annual estimate for 2016 of $\$ 18.8$ million. Additionally, the 2017 estimated value was approximately 40 percent below the 2015 and 2014 levels of $\$ 22.9$ million and $\$ 22.7$ million, respectively, and 25 percent below the recent five-year average of $\$ 18.6$ million for the 2012-2016 period (Table IV-19).

## Buoy 10 and Area 4B Add-On

Estimated local community income impacts associated with the 2017 Buoy 10 recreational salmon fishery were $\$ 6.9$ million, almost unchanged from last year, but approximately 12 percent below the estimates for the 2015 and 2014 fisheries of $\$ 7.9$ million and $\$ 7.8$ million, respectively. The 2017 value was also six percent above the recent five-year average of $\$ 6.5$ million for the 2012-2016 period. There was no lateseason Area 4B add-on fishery in 2017. The most recent Area 4B add-on fishery, the first since 2000, occurred in 2008. Local community income impacts associated with the 2008 area 4B add-on fishery were estimated to be $\$ 33,700$ (adjusted for inflation) (Table IV-20).

TABLE IV-1. Average monthly exvessel troll salmon price in dollars per dressed pound for California, Oregon, and Washington in 2017.

| Species/Grade | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season ${ }^{\text {b/ }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CALIFORNIA |  |  |  |  |  |  |  |  |  |  |  |
| Chinook ${ }^{\text {a/ }}$ | - | - | 10.86 | 10.87 | - | 9.28 | 9.77 | 10.32 | - | - | 9.90 |
| Coho | - | - | - | - | - | - | - | - | - | - | - |


| OREGON |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Chinook |  |  |  |  |  |  |  |  |  |  |  |
| Large (>11 Pounds) | - | 11.57 | 10.58 | 9.38 | 7.11 | 7.30 | 8.10 | 9.11 | 9.14 | - | 9.04 |
| Medium (7-11 Pounds) | - | 11.76 | 9.75 | 9.40 | 6.94 | 6.93 | 7.71 | 9.03 | 9.00 | - | 8.82 |
| Small (<7 Pounds) | - | - | 8.00 | 8.09 | 8.49 | 8.00 | - | 8.70 | 9.37 |  | 8.44 |
| Ungraded Chinook | - | 11.21 | 10.37 | 9.73 | 6.95 | 7.80 | 7.78 | 8.43 | 8.94 | - | 8.90 |
| Weighted Average | - | 11.31 | 10.33 | 9.65 | 6.99 | 7.71 | 7.84 | 8.91 | 9.08 | - | 8.98 |
| Mixed Coho | - | - | - | - | - | - | - | - | - | - | - |
| WASHINGTON ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |  |  |  |  |
| Chinook |  |  |  |  |  |  |  |  |  |  |  |
| Large (>11 Pounds) | - | - | 10.37 | 9.18 | 6.06 | 7.03 | 6.89 | - | - | - | 8.36 |
| Medium (8-11 Pounds) | - | - | 10.04 | 9.18 | 5.82 | 6.77 | 6.90 | - | - | - | 8.31 |
| Small (<8 Pounds) | - | - | 7.22 | 7.22 | 4.46 | 5.95 | 3.25 | - | - | - | 6.79 |
| Ungraded Chinook | - | - | - | - | - | - | - | - | - | - | - |
| Weighted Average | - | - | 10.06 | 9.25 | 5.95 | 7.00 | 6.99 | - | - | - | 8.66 |
| Mixed Coho | - | - | - | - | 2.02 | 2.56 | 2.83 | - | - | - | 2.59 |

a/ Chinook salmon typically sold in tw o size categories. Prices paid in these categories are not extracted from dealer ticket information.
b/ The "Season" numbers show n for California and Washington in this table are w eighted average values per dressed pound of salmon caught each month during the season, whereas the "Season" numbers for Oregon represent simple averages of the monthly prices per dressed pound.
c/ 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, 2017) dollars. ${ }^{\text {a/ }}$

|  | Chinook |  |  |  | Coho |  |  |  | Total ${ }^{\text {b/ }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year or Avg | $\begin{gathered} \hline \text { Nominal } \\ \text { Value } \\ (\$ 1,000) \\ \hline \end{gathered}$ | Real Value $(\$ 1,000)$ | Nominal <br> Price Per <br> Pound (\$) | Real <br> Price Per Pound (\$) | Nominal Value $(\$ * 1,000)$ |  | Nominal Price Per Pound (\$) | Real Price Per Pound (\$) | Nominal Value $(\$ 1,000)$ | Real Value $(\$ * 1,000)$ |
| 1979 | 17,356 | 44,948 | 2.53 | 6.55 | 2,303 | 5,964 | 2.19 | 5.67 | 19,659 | 50,912 |
| 1980 | 12,741 | 30,239 | 2.27 | 5.39 | 408 | 968 | 1.36 | 3.23 | 13,149 | 31,207 |
| 1981-1985 | 10,945 | 21,982 | 2.42 | 4.80 | 554 | 1,125 | 1.62 | 3.22 | 11,499 | 23,107 |
| 1986-1990 | 21,151 | 35,958 | 2.56 | 4.31 | 490 | 820 | 1.81 | 3.05 | 21,641 | 36,778 |
| 1991-1995 | 7,335 | 10,592 | 2.28 | 3.32 | 143 | 216 | 0.63 | 0.94 | 7,478 | 10,808 |
| 1996 | 5,984 | 8,162 | 1.44 | 1.96 | - | - | - | - | 5,984 | 8,162 |
| 1997 | 7,288 | 9,768 | 1.38 | 1.85 | - | - | - | - | 7,288 | 9,768 |
| 1998 | 3,060 | 4,055 | 1.66 | 2.20 | - | - | - | - | 3,060 | 4,055 |
| 1999 | 7,429 | 9,703 | 1.93 | 2.52 | - | - | - | - | 7,429 | 9,703 |
| 2000 | 10,304 | 13,173 | 2.01 | 2.57 | - | - | - | - | 10,304 | 13,173 |
| 2001 | 4,773 | 6,458 | 1.98 | 2.68 | - | - | - | - | 4,773 | 6,458 |
| 2002 | 7,776 | 10,362 | 1.55 | 2.07 | - | - | - | - | 7,776 | 10,362 |
| 2003 | 12,181 | 15,916 | 1.91 | 2.50 | - | - | - | - | 12,181 | 15,916 |
| 2004 | 17,895 | 22,756 | 2.87 | 3.65 | - | - | - | - | 17,895 | 22,756 |
| 2005 | 12,913 | 15,909 | 2.97 | 3.66 | - | - | - | - | 12,913 | 15,909 |
| 2006 | 5,350 | 6,395 | 5.13 | 6.13 | - | - | - | - | 5,350 | 6,395 |
| 2007 | 7,902 | 9,201 | 5.18 | 6.03 | - | - | - | - | 7,902 | 9,201 |
| 2008 | - | - | - | - | - | - | - | - | - | - |
| 2009 | - | - | - | - | - | - | - | - | - | - |
| 2010 | 1,246 | 1,395 | 5.47 | 6.12 | - | - | - | - | 1,246 | 1,395 |
| 2011 | 5,133 | 5,631 | 5.18 | 5.68 | - | - | - | - | 5,133 | 5,631 |
| 2012 | 13,521 | 14,564 | 5.34 | 5.75 | - | - | - | - | 13,521 | 14,564 |
| 2013 | 23,632 | 25,051 | 6.23 | 6.60 | - | - | - | - | 23,632 | 25,051 |
| 2014 | 12,521 | 13,039 | 5.56 | 5.79 | - | - | - | - | 12,521 | 13,039 |
| 2015 | 8,347 | 8,598 | 7.03 | 7.24 | - | - | - | - | 8,347 | 8,598 |
| 2016 | 5,312 | 5,404 | 8.63 | 8.78 | - | - | - | - | 5,312 | 5,404 |
| $2017{ }^{\text {c/ }}$ | 4,915 | 4,915 | 9.90 | 9.90 | - | - | - | - | 4,915 | 4,915 |

a/ These exvessel values do not include the postseason settlement payments some fishers may have received frombuyers, and therefore may underestimate the true payments received by fishers for their landings. Beginning circa 1999, these postseason settlements are believed to have grow n 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, 2017) dollars.

| Year or Avg. $\begin{gathered}\text { Nominal } \\ \text { Value } \\ (\$ 1,000)\end{gathered}$ |  | Chinook |  |  | Coho |  |  |  | Total ${ }^{\text {a/ }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \hline \text { Real } \\ \text { Value } \\ \left(\${ }^{*} 1,000\right) \end{gathered}$ | Nominal <br> Price Per <br> Pound (\$) | Real <br> Price Per Pound (\$) | $\begin{aligned} & \hline \text { Nominal } \\ & \text { Value } \\ & (\$ * 1,000) \\ & \hline \end{aligned}$ | Real Value $\left(\${ }^{*} 1,000\right)$ | Nominal Price Per Pound (\$) | Real <br> Price Per Pound (\$) | $\begin{gathered} \hline \text { Nominal } \\ \text { Value } \\ (\$ * 1,000) \\ \hline \end{gathered}$ | Real <br> Value <br> $(\$ * 1,000)$ |
| 1971-1975 | 2,036 | 7,788 | 0.89 | 3.46 | 3,658 | 14,332 | 0.64 | 2.46 | 5,694 | 22,120 |
| 1976-1980 | 5,290 | 14,659 | 2.17 | 5.99 | 6,389 | 18,246 | 1.51 | 4.17 | 11,679 | 32,904 |
| 1981-1985 | 3,582 | 7,156 | 2.46 | 4.88 | 2,248 | 4,686 | 1.45 | 2.89 | 5,830 | 11,842 |
| 1986-1990 | 9,381 | 15,922 | 2.47 | 4.16 | 3,203 | 5,449 | 1.54 | 2.60 | 12,584 | 21,371 |
| 1991-1995 | 1,971 | 2,852 | 2.24 | 3.26 | 326 | 493 | 0.64 | 0.95 | 2,297 | 3,345 |
| 1996 | 3,007 | 4,101 | 1.56 | 2.13 | - | - | - | - | 3,007 | 4,101 |
| 1997 | 2,469 | 3,309 | 1.60 | 2.14 | - | - | - | - | 2,469 | 3,309 |
| 1998 | 2,297 | 3,045 | 1.64 | 2.17 | - | - | - | - | 2,297 | 3,045 |
| 1999 | 1,400 | 1,829 | 1.94 | 2.53 | 1 | 1 | 1.03 | 1.35 | 1,401 | 1,830 |
| 2000 | 2,988 | 3,820 | 2.02 | 2.58 | 75 | 96 | 1.06 | 1.36 | 3,063 | 3,916 |
| 2001 | 4,680 | 6,333 | 1.61 | 2.18 | 41 | 56 | 0.79 | 1.07 | 4,721 | 6,388 |
| 2002 | 5,383 | 7,174 | 1.54 | 2.05 | 8 | 11 | 0.75 | 1.00 | 5,391 | 7,185 |
| 2003 | 7,186 | 9,389 | 1.97 | 2.57 | 36 | 47 | 0.85 | 1.11 | 7,222 | 9,437 |
| 2004 | 9,832 | 12,503 | 3.45 | 4.39 | 86 | 110 | 1.24 | 1.58 | 9,919 | 12,613 |
| 2005 | 8,466 | 10,430 | 3.17 | 3.91 | 37 | 46 | 1.87 | 2.30 | 8,503 | 10,476 |
| 2006 | 2,663 | 3,183 | 5.48 | 6.55 | 38 | 46 | 2.90 | 3.47 | 2,701 | 3,228 |
| 2007 | 2,630 | 3,062 | 5.66 | 6.59 | 193 | 224 | 1.90 | 2.21 | 2,822 | 3,286 |
| 2008 | 484 | 552 | 7.31 | 8.35 | 10 | 12 | 2.82 | 3.22 | 494 | 564 |
| 2009 | 77 | 88 | 5.06 | 5.73 | 267 | 303 | 2.04 | 2.31 | 345 | 390 |
| 2010 | 2,775 | 3,107 | 5.49 | 6.15 | 16 | 17 | 2.23 | 2.50 | 2,791 | 3,125 |
| 2011 | 2,396 | 2,629 | 5.96 | 6.54 | 5 | 6 | 2.01 | 2.20 | 2,401 | 2,634 |
| 2012 | 4,263 | 4,592 | 5.75 | 6.19 | 8 | 9 | 2.20 | 2.37 | 4,271 | 4,601 |
| 2013 | 7,604 | 8,061 | 5.88 | 6.23 | 7 | 7 | 2.56 | 2.71 | 7,611 | 8,068 |
| 2014 | 14,692 | 15,299 | 5.71 | 5.95 | 67 | 70 | 2.00 | 2.08 | 14,760 | 15,370 |
| 2015 | 7,313 | 7,534 | 6.15 | 6.34 | 21 | 21 | 1.88 | 1.94 | 7,334 | 7,555 |
| 2016 | 4,261 | 4,334 | 8.23 | 8.37 | - | - | - | - | 4,261 | 4,334 |
| $2017^{\text {b/ }}$ | 2,121 | 2,121 | 8.03 | 8.03 | 8 | 8 | 3.03 | 3.03 | 2,129 | 2,129 |

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, 2017) dollars. ${ }^{\text {a/ }}$

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 $w$ as 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, 2017) dollars.

| Year or Avg. ${ }^{\text {a/ }}$ | Oregon |  |  |  | Washington |  |  |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Nominal } \\ \text { Value } \\ (\$ 1,000) \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Real } \\ \text { Value } \\ \left(\${ }^{*} 1,000\right) \\ \hline \end{gathered}$ | Nominal Price Per Pound (\$) | Real <br> Price Per <br> Pound (\$) | $\begin{gathered} \hline \text { Nominal } \\ \text { Value } \\ (\$ 1,000) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Real Value } \\ (\$ 1,000) \\ \hline \end{gathered}$ | Nominal Price Per Pound (\$) | Real <br> Price Per <br> Pound (\$) | $\begin{aligned} & \hline \text { Nominal } \\ & \text { Value } \\ & \left(\$^{*} 1,000\right) \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Real Value } \\ (\$ 1,000) \\ \hline \end{gathered}$ |
| 1976-1980 | 167 | 484 | 0.75 | 2.06 | 1,200 | 3,279 | 0.54 | 1.50 | 1,367 | 3,763 |
| 1981-1985 | 129 | 261 | 0.74 | 1.47 | 287 | 589 | 0.41 | 0.82 | 416 | 851 |
| 1986-1990 | 41 | 72 | 0.77 | 1.30 | 57 | 93 | 0.66 | 1.12 | 98 | 165 |
| 1991-1995 | 1 | 2 | 0.88 | 1.27 | 38 | 56 | 0.64 | 0.93 | 39 | 58 |
| 1997 | b/ | b/ | 0.56 | 0.75 | b/ | b/ | 0.20 | 0.27 | b/ | b/ |
| 1999 | b/ | b/ | 0.67 | 0.88 | b/ | b/ | 0.38 | 0.50 | b/ | b/ |
| 2001 | 1 | 1 | 0.58 | 0.78 | b/ | b/ | 0.22 | 0.30 | 1 | 1 |
| 2003 | b/ | b/ | 0.85 | 1.11 | b/ | b/ | 0.30 | 0.39 | b/ | b/ |
| 2005 | b/ | b/ | 1.25 | 1.54 | b/ | b/ | 0.52 | 0.64 | b/ | b/ |
| 2007 | b/ | b/ | 1.11 | 1.29 | b/ | b/ | 0.33 | 0.38 | b/ | b/ |
| 2009 | b/ | b/ | 0.51 | 0.58 | b/ | b/ | 0.33 | 0.37 | b/ | b/ |
| 2011 | b/ | b/ | 1.31 | 1.44 | 1 | 1 | 0.83 | 0.91 | 1 | 1 |
| 2013 | b/ | b/ | 1.35 | 1.43 | b/ | b/ | 0.61 | 0.65 | b/ | b/ |
| 2015 | b/ | b/ | 1.60 | 1.65 | b/ | b/ | 0.77 | 0.79 | b/ | b/ |
| 2017 | - | - | - | - | b/ | b/ | 0.24 | 0.24 | b/ | b/ |

a/ Odd year averages.
b/ Less than $\$ 500$.

TABLE IV-6. Pounds of salmon landed by the commercial troll ocean fishery for major California port areas. ${ }^{\text {ab/ }}$

| Year or Avg. | Crescent City | Eureka | Fort Bragg | San Francisco | Monterey | State Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHINOOK (thousands of dressed pounds) |  |  |  |  |  |  |
| 1976-1980 | 393 | 1,403 | 1,449 | 1,733 | 889 | 5,867 |
| 1981-1985 | 350 | 428 | 1,128 | 1,806 | 742 | 4,454 |
| 1986-1990 | 155 | 405 | 2,299 | 3,648 | 1,592 | 8,097 |
| 1991-1995 | 2 | 25 | 183 | 1,893 | 1,326 | 3,429 |
| 1996-2000 | 2 | 35 | 146 | 2,155 | 1,699 | 4,037 |
| 2001-2005 | 86 | 64 | 1,268 | 2,704 | 756 | 4,877 |
| 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 | 24 | 200 | 1,427 | 1,776 | 367 | 3,793 |
| 2014 | 27 | 110 | 1,038 | 970 | 108 | 2,253 |
| 2015 | 6 | 48 | 617 | 363 | 154 | 1,188 |
| 2016 | c/ | 6 | 165 | 313 | 131 | 615 |
| $2017{ }^{\text {d/ }}$ | - | 3 | 37 | 316 | 141 | 496 |
| COHO (thousands of dressed pounds) |  |  |  |  |  |  |
| 1976-1980 | 360 | 391 | 277 | 109 | 48 | 1,184 |
| 1981-1985 | 89 | 104 | 89 | 54 | 9 | 345 |
| 1986-1990 | 22 | 43 | 136 | 53 | 9 | 262 |
| 1991-1995 | c/ | 4 | 11 | 56 | 23 | 94 |
| 1996-2000 | - | - | - | - | - | - |
| 2001-2005 | - | - | - | - | - | - |
| 2006 | - | - | - | - | - | - |
| 2007 | - | - | - | - | - | - |
| 2008 | - | - | - | - | - | - |
| 2009 | - | - | - | - | - | - |
| 2010 | - | - | - | - | - | - |
| 2011 | - | - | - | - | - | - |
| 2012 | - | - | - | - | - | - |
| 2013 | - | - | - | - | - | - |
| 2014 | - | - | - | - | - | - |
| 2015 | - | - | - | - | - | - |
| 2016 | - | - | - | - | - | - |
| 2017 | - | - | - | - | - | - |

a/ The major port areas listed may include smaller ports as follow s: 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 w ere based on catch area, not port of landing.
c/ Less than 500 pounds.
d/ Preliminary.

TABLE IV-7. Pounds of salmon landed by the commercial troll ocean fishery for major Oregon port areas. ${ }^{\text {a }}$

| CHINOOK (thousands of dressed pounds) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1976-1980 | 170.7 | 118.3 | 530.4 | 907.7 | 699.9 | 2,426.9 |
| 1981-1985 | 92.5 | 44.6 | 270.7 | 638.3 | 385.8 | 1,431.8 |
| 1986-1990 | 52.1 | 264.2 | 828.7 | 2,118.1 | 467.5 | 3,730.6 |
| 1991-1995 | 7.4 | 85.8 | 579.5 | 235.5 | 31.0 | 939.6 |
| 1996-2000 | 25.2 | 70.4 | 790.3 | 435.0 | 92.2 | 1,413.6 |
| 2001-2005 | 186.5 | 213.8 | 1,380.7 | 1,124.0 | 203.6 | 3,108.9 |
| 2006 | 99.0 | 67.5 | 218.1 | 56.2 | 45.0 | 485.8 |
| 2007 | 21.7 | 36.5 | 75.8 | 231.9 | 98.3 | 464.3 |
| 2008 | 39.2 | 19.0 | - | - | 7.9 | 66.2 |
| 2009 | 6.7 | 4.1 | - | - | 4.6 | 15.3 |
| 2010 | 116.4 | 40.0 | 184.5 | 122.2 | 42.6 | 505.7 |
| 2011 | 30.4 | 13.7 | 67.9 | 231.2 | 58.8 | 401.9 |
| 2012 | 84.4 | 64.0 | 275.0 | 221.0 | 97.1 | 741.5 |
| 2013 | 34.0 | 76.0 | 232.0 | 783.0 | 166.0 | 1,291.0 |
| 2014 | 172.1 | 149.0 | 927.0 | 1,025.0 | 298.0 | 2,571.1 |
| 2015 | 115.0 | 89.0 | 429.0 | 429.0 | 127.0 | 1,189.0 |
| 2016 | 24.0 | 16.0 | 338.0 | 116.0 | 24.0 | 518.0 |
| $2017{ }^{\text {c/ }}$ | 22.0 | 15.0 | 180.0 | 34.0 | 14.0 | 265.0 |
| COHO (thousands of dressed pounds) |  |  |  |  |  |  |
| 1976-1980 | 384.6 | 659.7 | 1,189.8 | 1,660.5 | 357.2 | 4,251.8 |
| 1981-1985 | 132.9 | 293.1 | 450.5 | 549.9 | 110.7 | 1,537.1 |
| 1986-1990 | 73.4 | 473.2 | 693.0 | 648.4 | 69.2 | 1,957.2 |
| 1991-1995 | 16.5 | 92.9 | 110.3 | 103.9 | 1.5 | 325.1 |
| 1996-2000 | 14.4 | - | - | - | - | 14.4 |
| 2001-2005 | 28.7 | 9.8 | 1.0 | - | - | 39.1 |
| 2006 | 7.6 | 5.5 | - | - | - | 13.1 |
| 2007 | 36.5 | 34.3 | 13.5 | 14.3 | 2.5 | 101.1 |
| 2008 | 2.9 | 0.7 | - | - | - | 3.7 |
| 2009 | 47.7 | 43.4 | 35.0 | 4.6 | b/ | 130.8 |
| 2010 | 6.3 | 0.7 | - | - | - | 7.0 |
| 2011 | 2.0 | 0.6 | - | - | - | 2.6 |
| 2012 | 2.5 | 1.3 | - | - | - | 3.8 |
| 2013 | 2.0 | - | - | - | - | 2.0 |
| 2014 | 32.7 | 17.8 | 9.2 | 6.5 | 1.3 | 67.5 |
| 2015 | 10.0 | 1.0 | - | - | - | 11.0 |
| 2016 | - | - | - | - | - | - |
| $2017{ }^{\text {c/ }}$ | 1.0 | 1.0 | - | - | - | 2.0 |

a/ The major port areas listed include smaller ports as follow s: Astoria also includes Gearhart/Seaside and Cannon Beach; Tillamook also includes Garibaldi, Netarts, Pacific City, and Nehalem Bay; New port 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. ${ }^{\text {a/b/ }}$

| Year or Avg. | Neah Bay | La Push | Westport | llw aco | Coastal Community Total | Puget Sound | State Total ${ }^{\text {c/ }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHINOOK (thousands of dressed pounds) |  |  |  |  |  |  |  |
| 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 ${ }^{\text {d/ }}$ | 137 | 29 | 123 | 9 | 204 | 30 | 234 |
| 1996-2000 ${ }^{\text {d/ }}$ | 49 | 1 | 37 | 3 | 80 | 22 | 102 |
| 2001-2005 | 250 | 55 | 208 | 26 | 539 | 4 | 543 |
| 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 |
| 2014 | 77 | 93 | 182 | 112 | 463 | e/ | 463 |
| 2015 | 61 | 133 | 383 | 43 | 621 | 4 | 625 |
| 2016 | 28 | 32 | 118 | 19 | 197 | 3 | 201 |
| 2017 | 69 | 22 | 237 | 6 | 334 | - | 334 |
| COHO (thousands of dressed pounds) |  |  |  |  |  |  |  |
| 1976-1980 | 600 | 786 | 1,066 | 678 | 3,130 | 496 | 3,626 |
| 1981-1985 | 133 | 63 | 277 | 142 | 616 | 128 | 744 |
| 1986-1990 | 70 | 19 | 97 | 53 | 239 | 19 | 259 |
| 1991-1995 | 52 | 14 | 49 | 13 | 102 | 12 | 111 |
| 1996-2000 | 10 | e/ | 8 | 3 | 22 | 2 | 24 |
| 2001-2005 | 7 | 8 | 23 | 5 | 40 | 1 | 41 |
| 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 |
| 2014 | 7 | 22 | 47 | 12 | 87 | - | 87 |
| 2015 | e/ | 1 | 10 | 4 | 15 | e/ | 15 |
| 2016 | e/ | - | - | - | - | e/ | e/ |
| 2017 | 2 | 1 | 5 | 1 | 9 | - | 9 |

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 follow s: 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; llw aco 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 w as no ocean commercial fishery for Chinook north of Cape Falcon in 1994-1996; how ever, Chinook w ere caught off Oregon and landed in Washington.
e/ Less than 500 pounds.

TABLE IV-9. Landings, exvessel values and average prices (inflation adjusted, 2017 dollars) of inriver commercial harvest of Columbia River salmon. ${ }^{\text {a/ }}$ (Page 1 of 2)

| $\underline{\text { Year or Avg. }}$ | Non-Indian Gillnet ${ }^{\text {b/ }}$ |  |  |  |  |  | Treaty Indian ${ }^{\text {c/ }}$ - All Gears |  |  |  |  |  | Col. R. <br> Total By <br> State |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  |  | Coho | Chum ${ }^{\text {e/ }}$ | TOTAL | Chinook |  |  | Coho | Chum ${ }^{\text {a/ }}$ | TOTAL |  |
|  |  | Fall |  |  |  |  | Spring | Fall |  |  |  |  |  |
|  | Spring | Brights ${ }^{\text {d }}$ | Tules |  |  |  |  | Brights ${ }^{\text {d }}$ | Tules |  |  |  |  |
|  |  |  |  | Oregon |  |  |  |  |  |  |  |  |  |
| Average Price Per Landed Pound ${ }^{\text {d/ }}$ (dollars) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987-2005 | 4.38 | 1.53 | 0.40 | 1.29 | 0.54 |  | 4.37 | 1.41 | 0.34 | 0.98 | - |  |  |
| 2006 | 5.59 | 2.56 | 0.33 | 1.57 | 0.31 |  | 3.59 | 1.83 | 0.31 | 1.49 |  |  |  |
| 2007 | 6.28 | 3.29 | 0.06 | 1.89 | 0.87 |  | 4.37 | 3.04 | 0.03 | 1.25 | - |  |  |
| 2008 | 7.05 | 2.85 | 0.65 | 1.50 | 0.74 |  | 5.30 | 2.92 | 0.51 | 1.32 | 1.03 |  |  |
| 2009 | 5.11 | 2.33 | 0.61 | 1.37 | 0.59 |  | 3.87 | 1.59 | 0.41 | 1.04 | - |  |  |
| 2010 | 5.52 | 2.37 | 0.67 | 1.56 | 0.75 |  | 4.72 | 2.26 | 0.71 | 2.12 | - |  |  |
| 2011 | 5.57 | 2.50 | 0.64 | 1.81 | 0.84 |  | 3.92 | 2.59 | 0.78 | 1.68 | - |  |  |
| 2012 | 6.27 | 2.38 | 0.58 | 1.73 | 0.53 |  | 5.95 | 2.76 | 0.80 | 1.99 | - |  |  |
| 2013 | 6.84 | 2.66 | 0.60 | 1.95 | 0.53 |  | 5.50 | 2.18 | 0.68 | 1.42 | - |  |  |
| 2014 | 5.60 | 1.91 | 0.59 | 1.22 | 0.52 |  | 5.24 | 1.79 | 0.59 | 0.95 | - |  |  |
| 2015 | 5.94 | 2.49 | 0.52 | 1.57 | 0.31 |  | 4.31 | 2.57 | 0.47 | 1.50 | - |  |  |
| 2016 | 7.21 | 3.27 | 0.64 | 1.87 | - |  | 6.10 | 2.95 | 0.61 | 1.58 | - |  |  |
| $2017^{\text {h/ }}$ | 7.49 | 3.18 | 0.62 | 2.03 | 0.50 |  | 7.17 | 4.90 | 0.60 | 1.96 | - |  |  |
| Exvessel Value (thousands of dollars) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987-2005 | 564 | 1,659 | 99 | 1,127 | 1 | 3,450 | 16 | 702 | 20 | 7 | - | 743 | 4,194 |
| 2006 | 734 | 762 | 22 | 749 | g/ | 2,267 | g/ | 377 | 3 | 17 | - | 398 | 2,665 |
| 2007 | 890 | 411 | 2 | 358 | g/ | 1,661 | 74 | 421 | 1 | 17 | - | 513 | 2,173 |
| 2008 | 816 | 1,178 | 73 | 765 | g/ | 2,832 | 368 | 1,071 | 66 | 58 | g/ | 1,563 | 4,395 |
| 2009 | 495 | 1,018 | 103 | 1,160 | g/ | 2,777 | 161 | 638 | 41 | 27 | . | 868 | 3,644 |
| 2010 | 2,113 | 1,009 | 172 | 872 | 1 | 4,166 | 661 | 512 | 99 | 36 | - | 1,309 | 5,475 |
| 2011 | 1,280 | 1,587 | 149 | 794 | g/ | 3,811 | 201 | 655 | 34 | 33 | - | 923 | 4,734 |
| 2012 | 1,138 | 969 | 118 | 160 | g/ | 2,386 | 79 | 377 | 5 | 12 | - | 474 | 2,860 |
| 2013 | 981 | 2,250 | 112 | 521 | g/ | 3,864 | 95 | 1,099 | 24 | 7 | - | 1,224 | 5,089 |
| 2014 | 654 | 1,688 | 147 | 1,729 | g/ | 4,217 | 290 | 924 | 14 | 36 | - | 1,265 | 5,482 |
| 2015 | 1,282 | 1,498 | 99 | 266 | g/ | 3,145 | 439 | 1,014 | 31 | 2 | - | 1,486 | 4,631 |
| 2016 | 1,270 | 1,345 | 61 | 395 | . | 3,070 | 143 | 857 | 2 | 8 | - | 1,011 | 4,081 |
| $2017^{\text {h/ }}$ | 1,467 | 552 | 30 | 438 | - | 2,488 | 161 | 726 | 3 | 15 | - | 905 | 3,393 |
| Pounds (thousands) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987-2005 | 123 | 706 | 158 | 783 | 2 | 1,772 | 7 | 337 | 75 | 6 | - | 425 | 2,196 |
| 2006 | 131 | 298 | 65 | 478 | g/ | 971 | g/ | 206 | 11 | 12 | - | 229 | 1,200 |
| 2007 | 142 | 135 | g/ | 189 | g/ | 466 | 17 | 138 | 25 | 14 | - | 194 | 660 |
| 2008 | 116 | 413 | 112 | 512 | g/ | 1,152 | 70 | 366 | 129 | 44 | g/ | 609 | 1,761 |
| 2009 | 97 | 436 | 168 | 846 | g/ | 1,547 | 42 | 403 | 100 | 26 | . | 571 | 2,118 |
| 2010 | 382 | 426 | 257 | 560 | , | 1,626 | 140 | 226 | 140 | 17 | - | 524 | 2,150 |
| 2011 | 230 | 635 | 234 | 439 | g/ | 1,537 | 51 | 253 | 43 | 20 | - | 367 | 1,905 |
| 2012 | 181 | 407 | 204 | 92 | g/ | 885 | 13 | 137 | 7 | 6 | - | 163 | 1,048 |
| 2013 | 144 | 846 | 186 | 267 | g/ | 1,442 | 17 | 503 | 35 | 5 | - | 560 | 2,002 |
| 2014 | 117 | 886 | 247 | 1,419 | g/ | 2,669 | 55 | 516 | 24 | 38 | - | 634 | 3,302 |
| 2015 | 216 | 599 | 186 | 170 | g/ | 1,171 | 102 | 395 | 64 | 1 | - | 563 | 1,734 |
| 2016 | 176 | 412 | 95 | 211 | g/ | 895 | 24 | 290 | 3 | 5 | - | 322 | 1,217 |
| $2017^{\mathrm{h} /}$ | 196 | 174 | 48 | 215 | g/ | 633 | 22 | 178 | 4 | 8 | - | 212 | 846 |

TABLE IV-9. Landings, exvessel values and average prices (inflation adjusted, 2017 dollars) of inriver commercial harvest of Columbia River salmon. ${ }^{\text {a/ }}$ (Page 2 of 2)

| Year or Avg. | Non-Indian Gillnet ${ }^{\text {b/ }}$ |  |  |  |  |  | Treaty Indian ${ }^{\text {c/ }}$ - All Gears |  |  |  |  |  | Col. R. <br> Total By <br> State |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  |  | Coho | Chum ${ }^{\text {e/ }}$ | TOTAL | Chinook |  |  | Coho | Chum ${ }^{\text {e/ }}$ | TOTAL |  |
|  | Spring | Fall |  |  |  |  |  | Fall |  |  |  |  |  |
|  |  | Brights ${ }^{\text {d/ }}$ | Tules |  |  |  | Spring | Brights ${ }^{\text {d/ }}$ | Tules |  |  |  |  |
| Washington ${ }^{\text {hijij }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Average Price Per Landed Pound ${ }^{\text {t/ }}$ (dollars) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987-2005 | 5.29 | 1.41 |  | 1.29 | 0.51 |  | 3.62 | 0.94 |  | 0.85 | - |  |  |
| 2006 | 4.39 | 2.31 |  | 1.59 | - |  | 2.81 | 1.67 |  | 0.67 | 0.60 |  |  |
| 2007 | 7.81 | 2.97 |  | 1.47 | 1.13 |  | 5.18 | 1.58 |  | 0.93 | 1.05 |  |  |
| 2008 | 7.66 | 2.91 |  | 1.44 | 1.11 |  | 5.08 | 1.55 |  | 0.91 | 1.03 |  |  |
| 2009 | 6.00 | 2.02 |  | 1.28 | 0.67 |  | 3.41 | 1.05 |  | 0.65 | - |  |  |
| 2010 | 5.60 | 2.18 |  | 1.47 | 0.67 |  | 4.22 | 1.28 |  | 0.99 | - |  |  |
| 2011 | 4.93 | 2.10 |  | 1.66 | 0.64 |  | 3.85 | 2.00 |  | 1.57 | 3.43 |  |  |
| 2012 | 6.75 | 2.20 |  | 1.76 | 0.46 |  | 5.12 | 1.86 |  | 1.36 | - |  |  |
| 2013 | 6.50 | 2.27 |  | 1.94 | - |  | 4.84 | 2.00 |  | 1.24 | - |  |  |
| 2014 | 5.58 | 1.69 |  | 1.18 | 0.48 |  | 4.90 | 1.51 |  | 1.02 | 1.12 |  |  |
| 2015 | 5.71 | 2.07 |  | 1.68 | - |  | 4.11 | 1.92 |  | 1.33 | - |  |  |
| 2016 | 7.57 | 2.95 |  | 1.90 | - |  | 5.47 | 2.44 |  | 1.41 | - |  |  |
| 2017 | 9.75 | 2.95 |  | 2.06 | - |  | 5.37 | 0.84 |  | 1.33 | 0.84 |  |  |
| Exvessel Value (thousands of dollars) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987-2005 | 257 | 667 |  | 463 | 1 | 1,374 | 75 | 1,079 |  | 16 | - | 1,166 | 2,540 |
| 2006 | 382 | 502 |  | 329 | - | 1,213 | 506 | 1,514 |  | 30 | g/ | 2,050 | 3,264 |
| 2007 | 147 | 268 |  | 291 | g/ | 707 | g/ | 1,444 |  | 60 | g/ | 1,505 | 2,212 |
| 2008 | 359 | 581 |  | 316 | g/ | 1,255 | 1,108 | 1,821 |  | 168 | g/ | 3,096 | 4,352 |
| 2009 | 356 | 609 |  | 336 | g/ | 1,301 | 699 | 927 |  | 28 | - | 1,655 | 2,956 |
| 2010 | 607 | 572 |  | 363 | 2 | 1,544 | 2,219 | 1,942 |  | 25 | - | 4,186 | 5,730 |
| 2011 | 387 | 818 |  | 261 | 1 | 1,467 | 1,828 | 3,187 |  | 255 | 1 | 5,271 | 6,738 |
| 2012 | 355 | 783 |  | 67 | g/ | 1,205 | 993 | 1,836 |  | 38 | - | 2,867 | 4,073 |
| 2013 | 206 | 1,433 |  | 231 | - | 1,870 | 927 | 4,505 |  | 115 | - | 5,547 | 7,417 |
| 2014 | 257 | 1,425 |  | 619 | g/ | 2,301 | 2,061 | 5,338 |  | 376 | 2 | 7,778 | 10,079 |
| 2015 | 520 | 1,531 |  | 82 | - | 2,133 | 2,732 | 6,238 |  | 28 | - | 8,998 | 11,131 |
| 2016 | 425 | 1,859 |  | 112 | - | 2,396 | 1,919 | 4,400 |  | 87 | - | 6,406 | 8,801 |
| 2017 | 94 | 649 |  | 157 | - | 899 | 1,110 | 3,971 |  | 103 | 11 | 5,195 | 6,094 |
| Pounds (thousands) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987-2005 | 48 | 328 |  | 360 | 1 | 735 | 42 | 934 |  | 20 | - | 994 | 1,729 |
| 2006 | 87 | 218 |  | 207 | - | 512 | 180 | 905 |  | 45 | g/ | 1,130 | 1,642 |
| 2007 | 18 | 91 |  | 154 | g/ | 263 | g/ | 638 |  | 66 | g/ | 705 | 968 |
| 2008 | 47 | 199 |  | 219 | g/ | 466 | 218 | 1,172 |  | 184 | g/ | 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 | g/ | 2,234 | 2,862 |
| 2012 | 53 | 355 |  | 38 | g/ | 446 | 194 | 980 |  | 28 | - | 1,202 | 1,648 |
| 2013 | 32 | 630 |  | 119 | - | 781 | 191 | 2,244 |  | 93 | - | 2,528 | 3,309 |
| 2014 | 46 | 846 |  | 524 | g/ | 1,416 | 421 | 3,540 |  | 369 | 2 | 4,332 | 5,748 |
| 2015 | 91 | 738 |  | 49 | - | 878 | 666 | 3,254 |  | 21 | - | 3,940 | 4,818 |
| 2016 | 56 | 629 |  | 59 | - | 744 | 350 | 1,803 |  | 62 | - | 2,216 | 2,960 |
| 2017 | 10 | 220 |  | 76 | - | 306 | 207 | 1,325 |  | 77 | 12 | 1,621 | 1,927 |

a/ Excluding pink, sockeye, and steelhead.
b/ Mainstem below Bonneville and Select Areas (Youngs Bay, Tongue Point, Blind Slough, and Deep River). Gear type may also include purse seine, beach seine and tanglenet gear after 2013.
c/ Treaty Indian landings and values do not include direct sales to consumers ('Over-the-bank' sales).
$\mathrm{d} /$ 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/ Sale and possession of chum salmon prohibited beginning October 2013 in Columbia R. commercial fisheries. Reported sales are likely mis-identified fish at time of landing.
f/ Gillnet exvessel salmon prices are recorded in round w eight and therefore are not strictly comparable to exvessel troll prices.
g/ Less than \$500 or 500 pounds
$\mathrm{h} /$ Preliminary. (All Washington values in this table are based on preliminary information available when each year's Salmon Review is drafted.)
i/ Washington prices for years prior to 2000 are based on a combination of Washington and Oregon value information.
j/ Treaty Indian values are primarily mainstem Columbia 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 ${ }^{\text {a/ }}$ |  | Coho Catch ${ }^{\text {a/ }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Charter | Private | Charter | Private | Charter | Private |
| CALIFORNIA |  |  |  |  |  |  |
| 1981-1985 | 68.9 | 78.1 | 74.6 | 34.4 | 1.5 | 18.3 |
| 1986-1990 | 95.9 | 144.8 | 100.1 | 66.3 | 5.3 | 35.1 |
| 1991-1995 | 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 |
| 2001-2005 | 76.5 | 103.6 | 72.5 | 75.5 | 0.1 | 0.9 |
| 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 | - | 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 | 55.0 | 92.3 | 49.2 | 66.9 | b/ | 0.3 |
| 2014 | 48.3 | 72.0 | 33.8 | 41.1 | - | 0.5 |
| 2015 | 37.7 | 44.1 | 23.4 | 14.1 | b/ | b/ |
| 2016 | 31.2 | 38.9 | 22.9 | 15.1 | - | 0.1 |
| $2017{ }^{\text {c/ }}$ | 34.9 | 38.7 | 38.2 | 23.4 | b/ | 0.4 |
| OREGON ${ }^{\text {de/ } /}$ |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 17.6 | 101.2 | 8.5 | 31.5 | 13.6 | 52.4 |
| 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 | 7.4 | 78.9 | 1.8 | 28.6 | 3.5 | 11.1 |
| 2014 | 14.5 | 107.0 | 1.3 | 17.2 | 19.0 | 80.5 |
| 2015 | 7.8 | 58.2 | 0.8 | 8.7 | 5.3 | 23.0 |
| 2016 | 2.4 | 36.4 | 0.3 | 3.8 | 1.2 | 7.2 |
| $2017{ }^{\text {c/ }}$ | 2.4 | 39.9 | 0.3 | 4.3 | 1.7 | 19.6 |

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 ${ }^{\text {a }}$ |  | Coho Catch ${ }^{\text {a/ }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Charter | Private | Charter | Private | Charter | Private |
| WASHINGTON ${ }^{\text {t/g }}$ |  |  |  |  |  |  |
| 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 |
| 1996-2000 | 13.6 | 20.6 | 2.7 | 2.2 | 17.4 | 20.8 |
| 2001-2005 | 38.2 | 67.5 | 17.0 | 18.2 | 41.4 | 66.9 |
| 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 | 24.7 | 52.3 | 9.2 | 19.6 | 17.9 | 27.9 |
| 2014 | 34.6 | 78.1 | 12.1 | 27.7 | 46.0 | 73.3 |
| 2015 | 30.6 | 61.3 | 12.0 | 26.9 | 27.6 | 39.5 |
| 2016 | 13.7 | 34.0 | 4.5 | 12.3 | 5.8 | 10.1 |
| $2017{ }^{\text {c/ }}$ | 16.3 | 42.4 | 4.2 | 15.7 | 11.5 | 24.5 |

a/ Catch numbers may include some illegal harvest.
b/ Few er than 50 fish.
c/ Preliminary.
d/ Salmon data from surveyed ports only. These generally include Astoria, Garibaldi, Depoe Bay, New port, 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 w as not included in 1994.
e/ Numbers do not include angling from the Columbia River jetty.
$\mathrm{f} /$ 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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHARTER TRIPS |  |  |  |  |  |  |
| 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 |
| 2001-2005 | a/ | 1.4 | 9.6 | 49.2 | 16.3 | 76.5 |
| 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 | a/ | 4.1 | 5.5 | 40.4 | 4.9 | 55.0 |
| 2014 | 0.1 | 3.2 | 5.4 | 34.0 | 5.5 | 48.3 |
| 2015 | a/ | 1.9 | 3.4 | 30.1 | 2.2 | 37.7 |
| 2016 | a/ | 1.6 | 2.3 | 26.2 | 1.1 | 31.2 |
| $2017{ }^{\text {b/ }}$ | - | - | 0.8 | 32.9 | 1.1 | 34.9 |
| PRIVATE TRIPS |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 4.1 | 15.5 | 18.6 | 34.3 | 31.1 | 103.6 |
| 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 | 7.0 | 18.6 | 11.7 | 29.2 | 25.7 | 92.3 |
| 2014 | 4.3 | 13.0 | 12.1 | 20.7 | 22.0 | 72.0 |
| 2015 | 0.6 | 6.4 | 8.4 | 15.8 | 13.0 | 44.1 |
| 2016 | 0.6 | 6.8 | 7.3 | 17.6 | 6.7 | 38.9 |
| $2017{ }^{\text {b/ }}$ | - | - | 3.8 | 20.9 | 13.9 | 38.7 |
| TOTAL TRIPS |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 4.1 | 16.9 | 28.2 | 83.5 | 47.4 | 180.1 |
| 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 | 7.0 | 22.8 | 17.3 | 69.5 | 30.7 | 147.3 |
| 2014 | 4.4 | 16.2 | 17.5 | 54.7 | 27.5 | 120.3 |
| 2015 | 0.6 | 8.3 | 11.8 | 45.9 | 15.2 | 81.8 |
| 2016 | 0.6 | 8.4 | 9.6 | 43.8 | 7.8 | 70.1 |
| $2017{ }^{\text {b/ }}$ | - | - | 4.7 | 53.8 | 15.1 | 73.6 |

a/ Few er 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 | New port | Coos Bay | Brookings | State Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHARTER TRIPS |  |  |  |  |  |  |
| 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 ${ }^{\text {a }}$ | 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 |
| 2001-2005 | 3.3 | 1.7 | 8.8 | 3.4 | 0.5 | 17.6 |
| 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 | 1.7 | 0.6 | 4.2 | 0.3 | 0.6 | 7.4 |
| 2014 | 2.6 | 1.0 | 10.2 | 0.3 | 0.4 | 14.5 |
| 2015 | 2.0 | 0.6 | 5.1 | c/ | 0.1 | 7.8 |
| 2016 | 0.4 | 0.1 | 1.9 | - | c/ | 2.4 |
| $2017{ }^{\text {b/ }}$ | 0.6 | 0.2 | 1.5 | c/ | c/ | 2.4 |
| PRIV ATE TRIPS |  |  |  |  |  |  |
| 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 ${ }^{\text {a }}$ | 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 |
| 2001-2005 | 14.0 | 20.3 | 18.0 | 31.1 | 17.8 | 101.2 |
| 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 | 4.4 | 13.5 | 11.1 | 29.5 | 19.5 | 78.1 |
| 2014 | 9.7 | 24.2 | 27.0 | 29.5 | 16.7 | 107.0 |
| 2015 | 6.6 | 14.9 | 13.1 | 14.7 | 8.9 | 58.2 |
| 2016 | 4.0 | 10.9 | 6.3 | 11.2 | 4.2 | 36.4 |
| $2017{ }^{\text {b/ }}$ | 7.9 | 8.4 | 8.8 | 12.8 | 2.0 | 39.9 |
| TOTAL TRIPS |  |  |  |  |  |  |
| 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 ${ }^{\text {a }}$ | 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 |
| 2001-2005 | 17.3 | 22.1 | 26.7 | 34.5 | 18.3 | 118.9 |
| 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 | 6.1 | 14.1 | 15.3 | 29.8 | 20.1 | 85.5 |
| 2014 | 12.3 | 25.2 | 37.2 | 29.8 | 17.1 | 121.5 |
| 2015 | 8.6 | 15.5 | 18.2 | 14.7 | 9.0 | 66.0 |
| 2016 | 4.3 | 11.0 | 8.2 | 11.2 | 4.2 | 38.9 |
| $2017{ }^{\text {b/ }}$ | 8.6 | 8.6 | 10.3 | 12.8 | 2.0 | 42.3 |

a/ The fishery north of Cape Falcon w as closed in 1994, and it is assumed that no trips w ere taken out of Astoria into the south of Cape Falcon area. No samplers w ere stationed in Astoria.
b/ Preliminary.
c/ Less than 50 trips.

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

| Year or Avg. | Neah Bay ${ }^{\text {a }}$ | La Push | Westport | llw aco ${ }^{\text {b/ }}$ | State Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CHARTER TRIPS |  |  |  |  |  |
| 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 |
| 2001-2005 | 1.6 | 0.6 | 24.1 | 11.9 | 38.2 |
| 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 | 0.9 | 0.7 | 15.9 | 7.1 | 24.7 |
| 2014 | 1.1 | 1.1 | 22.7 | 9.7 | 34.6 |
| 2015 | 1.0 | 0.8 | 20.2 | 8.6 | 30.6 |
| 2016 | 0.6 | 0.3 | 7.5 | 5.3 | 13.7 |
| $2017{ }^{\text {d/ }}$ | 0.7 | 0.4 | 10.5 | 4.7 | 16.3 |
| PRIV ATE TRIPS |  |  |  |  |  |
| 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 |
| 2001-2005 | 17.7 | 3.6 | 18.4 | 27.8 | 67.5 |
| 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 | 14.4 | 3.6 | 20.0 | 14.4 | 52.3 |
| 2014 | 15.4 | 3.9 | 31.2 | 27.6 | 78.1 |
| 2015 | 13.8 | 2.7 | 25.2 | 19.6 | 61.3 |
| 2016 | 7.7 | 0.8 | 10.4 | 15.1 | 34.0 |
| $2017{ }^{\text {d/ }}$ | 10.0 | 1.5 | 15.5 | 15.4 | 42.4 |
| TOTAL TRIPS |  |  |  |  |  |
| 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 |
| 2001-2005 | 19.3 | 4.1 | 42.5 | 39.7 | 105.6 |
| 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 | 15.4 | 4.3 | 35.9 | 21.5 | 77.0 |
| 2014 | 16.5 | 5.1 | 53.9 | 37.2 | 112.7 |
| 2015 | 14.8 | 3.5 | 45.5 | 28.2 | 91.9 |
| 2016 | 8.3 | 1.1 | 17.8 | 20.5 | 47.7 |
| $2017{ }^{\text {d/ }}$ | 10.7 | 1.9 | 26.0 | 20.0 | 58.6 |

a/ Does not include effort from the late-season state w ater 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.


TABLEIV-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 |
| BOTTOMFISH EFFORT ${ }^{\text {d/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1984-90 | 1.7 | 0.3 | 2.0 | 1.3 | 3.3 | 19.1 | 0.9 | 20.0 | 0.0 | 0.4 | 0.4 | 4.7 | 14.2 | 18.9 |
| 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 |
| $1996{ }^{\text {e/f/ }}$ | 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 | b/ | 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 | b/ | 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 | 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 |
| 2014 | 3.0 | 1.5 | 4.5 | 0.8 | 5.3 | 13.8 | 2.7 | 16.5 | 0.4 | 5.0 | 5.4 | 0.8 | 17.6 | 18.4 |
| 2015 | 3.0 | 1.6 | 4.6 | b/ | 4.6 | 16.4 | 3.6 | 19.9 | 0.5 | 5.3 | 5.8 | 0.9 | 15.3 | 16.2 |
| 2016 | 4.6 | 3.0 | 7.5 | 1.6 | 7.5 | 18.8 | 5.5 | 24.3 | 0.8 | 6.4 | 7.2 | 1.3 | 17.7 | 19.0 |
| $2017{ }^{\text {/ }}$ | 3.6 | 3.2 | 6.8 | 2.1 | 6.8 | 17.1 | 5.8 | 22.9 | 0.7 | 5.0 | 5.6 | 1.3 | 16.2 | 17.5 |

TABLEIV-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 )

|  | Columbia River and Buoy 10 |  |  |  |  | Westport |  |  | La Push |  |  | Neah Bay and Area 4B Add-On |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Charter | Private | Subtotal | Jetty | Total | Charter | Private | Total | Charter | Private | Total | Charter | Private | Total |
|  |  |  |  |  |  | STURGEON EFFORT ${ }^{\text {a/ }}$ |  |  |  |  |  |  |  |  |
| 1984-90 | 4.7 | 31.6 | 36.2 | - | 36.2 | - | - | - | - | - | - | - | - | - |
| 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 | 1.5 | 14.8 | 16.3 | - | 16.3 | - | - | - | - | - | - | - | - | - |
| 2014 | 0.1 | 1.5 | 1.7 | - | 1.7 | - | - | - | - | - | - | - | - | - |
| 2015 | a/ | 1.0 | 1.0 | - | 1.0 | - | - | - | - | - | - | - | - | - |
| 2016 | a/ | 2.5 | 2.5 | - | 2.5 | - | - | - | - | - | - | - | - | - |
| $2017{ }^{\text {c/ }}$ | 0.5 | 13.7 | 14.2 | - | 14.2 | - | - | - | - | - | - | - | - | - |

a/ Few er than 50 angler trips.
b/ Columbia River north jetty w as not sampled in 2005 and 2007 due to construction limiting access; the outer jetty w as not sampled in 2015 due to construction limiting access to near-beach areas.
c/ Preliminary.
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: Ilw aco-9 charter, 14 private; Westport - 784 charter, 0 private.
g/ Annual sturgeon angler trips for the low er Columbia River from the w estern tip of Puget island to mouth.

| $\leq$ |  | Angler Trips |  |  | Chinook Catch |  |  | Coho Catch |  |  | Pink Catch |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{\circ}$ | Year or Avg. | Charter | Private | Jetty | Charter | Private | Jetty | Charter | Private | Jetty | Charter | Private |
| 응 |  |  |  |  |  | ORE | JOY 10 |  |  |  |  |  |
| N | 1987-1990 | 4,002 | 38,619 | 4,029 | 793 | 6,415 | 29 | 3,292 | 18,348 | 690 | 0 | 0 |
| $\xrightarrow{-}$ | 1991-1995 | 1,528 | 21,547 | 4,555 | 122 | 1,318 | 30 | 1,625 | 14,520 | 1,389 | 0 | 0 |
| $\checkmark$ | 1996-2000 | 626 | 15,760 | 1,832 | 126 | 2,712 | 3 | 206 | 3,764 | 353 | 0 | 0 |
| $\bigcirc$ | 2001-2005 | 664 | 41,198 | 2,025 | 32 | 8,055 | 3 | 435 | 20,070 | 237 | 0 | 0 |
| (1) | 2006 | 37 | 24,194 | 1,457 | 1 | 1,350 | - | - | 2,800 | - | 0 | 0 |
| c | 2007 | 156 | 19,983 | 793 | 6 | 2,511 | - | 38 | 4,841 | 97 | 0 | 0 |
| 0 | 2008 | 198 | 19,020 | - | 43 | 5,608 | - | 69 | 4,487 | - | 0 | 0 |
| 3 | 2009 | 182 | 39,425 | 1,684 | 1 | 3,550 | 16 | 164 | 27,000 | 466 | 0 | 0 |
| $\bigcirc$ | 2010 | 82 | 30,159 | 710 | 2 | 4,537 | 11 | 8 | 5,171 | 22 | 0 | 0 |
| $\cdots$ | 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 |
| $\frac{\square}{\square}$. | 2013 | 459 | 40,648 | 1,754 | 81 | 15,448 | 41 | 50 | 4,638 | 148 | 0 | 0 |
| $\infty$ | 2014 | 237 | 70,402 | 3,696 | 13 | 19,033 | 41 | 385 | 39,873 | 2,295 | 0 | 0 |
|  | 2015 | 150 | 67,883 | 6,081 | 43 | 25,227 | 246 | 88 | 22,067 | 3,442 | 0 | 0 |
|  | 2016 | 96 | 59,778 | 4,114 | 5 | 13,551 | 404 | 13 | 5,560 | 582 | 0 | 0 |
|  | 2017 ${ }^{\text {/ }}$ | 73 | 59,382 | 2,443 | 2 | 21,368 | 160 | 30 | 11,469 | 475 | 0 | 0 |
| $\underset{\square}{\square}$ | WASHINGTON BUOY 10 |  |  |  |  |  |  |  |  |  |  |  |
| $\cdots$ | 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 |
|  | 2001-2005 | 970 | 39,680 | 97 | 61 | 6,547 | 5 | 738 | 21,472 | - | 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 | 93 | 22,813 | - | 6 | 7,018 | - | 27 | 2,757 | - | 0 | 0 |
|  | 2014 | 179 | 32,675 | 333 | - | 7,701 | - | 179 | 14,673 | 339 | 0 | 0 |
|  | 2015 | 316 | 33,386 | - | 30 | 10,947 | - | 337 | 10,918 | - | 0 | 0 |
|  | 2016 | 149 | 28,668 | 2,145 | 7 | 3,797 | 16 | 62 | 2,691 | 274 | 0 | 0 |
|  | 2017 ${ }^{\text {/ }}$ | 471 | 28,162 | 3,016 | 79 | 6,721 | 68 | 252 | 5,933 | 675 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLEN-15. Buoy $10^{\mathrm{abl} /}$ and Area 4B add-on recreational salmon angler trips and catch by boat type. (Page 2 of 2 )

|  | Angler Trips |  |  | Chinook Catch |  |  | Coho Catch |  |  | Pink Catch |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year or Avg. | Charter | Private | Jetty | Charter | Private | Jetty | Charter | Private | Jetty | Charter | Private |
| TOTAL BUOY 10 |  |  |  |  |  |  |  |  |  |  |  |
| 1987-1990 | 14,680 | 110,547 | 10,596 | 2,700 | 20,812 | 98 | 11,645 | 58,763 | 2,317 | 1 | 11 |
| 1991-1995 | 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 |
| 2001-2005 | 1,634 | 80,878 | 2,122 | 93 | 14,602 | 8 | 1,173 | 41,541 | 237 | 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 | 552 | 63,461 | 1,754 | 87 | 22,466 | 41 | 77 | 7,395 | 148 | 0 | 0 |
| 2014 | 416 | 103,077 | 4,029 | 13 | 26,734 | 41 | 564 | 54,546 | 2,634 | 0 | 0 |
| 2015 | 466 | 101,269 | 6,081 | 73 | 36,174 | 246 | 425 | 32,985 | 3,442 | 0 | 0 |
| 2016 | 245 | 88,446 | 6,259 | 12 | 17,348 | 420 | 75 | 8,251 | 856 | 0 | 0 |
| $2017{ }^{\text {c/ }}$ | 544 | 87,544 | 5,459 | 81 | 28,089 | 228 | 282 | 17,402 | 1,150 | 0 | 0 |
| TOTAL AREA 4B ADD-ON ${ }^{\text {d/ }}$ |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 1996-2000 ${ }^{\text {e/ }}$ | 123 | 2,528 | - | 1 | 23 | - | 173 | 3,086 | - | 28 | 83 |
| 2001-2005 | - | - | - | - | - | - | - | - | - | 0 | 0 |
| $2006{ }^{\text {e/ }}$ | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 2007 | - | - | - | - | - | - | - | - | - | 0 | 0 |
| 2008 | - | 782 | - | - | 11 | - | - | 137 | - | 0 | 0 |
| 2009 ${ }^{\text {/ }}$ | - | - | - | - | - | - | - | - | - | 0 | 0 |

a/ From 2000, catch dow nstream of boundary line from Tongue Pt., OR to Rocky Pt., WA. Prior to 2000, only catch dow nstream of Astoria-Megler Br.
b/ Prior to 1987, data on charter and private anglers w ere combined. Total Buoy 10 catch and effort data prior to 1987 are provided in Table B-21.
c/ Preliminary.
d/ There w as no Area 4B add-on fishery prior to 1989.
e/ There w as no Area 4B add-on fishery opening in 1999 and 2006 as the Area 4 ocean quota w as not attained.
f/ There has been no Area 4B add-on fishery planned since 2008.

TABLE IV-16. Estimates of California coastal community and state personal income impacts in thousands of real (inflation adjusted, 2017) dollars of the troll and recreational ocean salmon fishery for major port areas. ${ }^{\text {a }}$

| Year or <br> Avg. | Crescent City | Eureka | Fort Bragg | San Francisco | Monterey | Coastal Community Total ${ }^{\text {b/ }}$ | State-Level Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OCEANTROLL ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |
| 1976-1980 | 6,791 | 17,250 | 16,915 | 22,189 | 9,524 | 72,670 | 93,426 |
| 1981-1985 | 3,440 | 4,149 | 9,712 | 18,333 | 6,247 | 41,880 | 52,142 |
| 1986-1990 | 1,293 | 3,202 | 17,034 | 33,075 | 12,370 | 66,973 | 82,194 |
| 1991-1995 | 10 | 152 | 1,070 | 12,447 | 7,091 | 20,771 | 25,031 |
| 1996-2000 | 11 | 181 | 756 | 13,030 | 7,901 | 21,879 | 23,149 |
| 2001-2005 | 553 | 371 | 6,976 | 16,817 | 4,534 | 29,251 | 30,808 |
| 2006 | - | - | 2,629 | 6,798 | 1,048 | 10,475 | 10,800 |
| 2007 | 354 | 877 | 3,625 | 8,651 | 1,764 | 15,269 | 15,541 |
| 2008 | - | - | - | - | - | - | - |
| 2009 | - | - | - | - | - | - | - |
| $2010{ }^{\text {d }}$ | - | 34 | 1,510 | 161 | 103 | 1,809 | 2,457 |
| 2011 | 36 | 442 | 4,247 | 2,690 | 655 | 8,069 | 10,071 |
| 2012 | 21 | 711 | 4,101 | 12,921 | 3,837 | 21,592 | 25,454 |
| 2013 | 111 | 1,746 | 10,203 | 19,792 | 2,008 | 33,859 | 39,571 |
| 2014 | 106 | 765 | 6,527 | 9,670 | 569 | 17,638 | 20,538 |
| 2015 | 27 | 440 | 5,175 | 4,409 | 836 | 10,887 | 13,556 |
| 2016 | d/ | 68 | 1,792 | 4,141 | 922 | 6,923 | 8,520 |
| $2017{ }^{\text {effl }}$ | - | 43 | 414 | 4,798 | 1,124 | 6,380 | 7,752 |


|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1976-1980 | 1,317 | 1,527 | 890 | 13,370 | 896 | 18,000 | 20,191 |
| 1981-1985 | 1,443 | 1,487 | 713 | 11,840 | 945 | 16,429 | 18,493 |
| 1986-1990 | 2,445 | 2,548 | 1,243 | 14,471 | 3,888 | 24,595 | 28,663 |
| 1991-1995 | 887 | 955 | 1,442 | 12,240 | 5,862 | 21,385 | 25,108 |
| 1996-2000 | 411 | 756 | 1,472 | 12,271 | 5,390 | 20,301 | 23,618 |
| 2001-2005 | 181 | 868 | 2,114 | 9,403 | 3,787 | 16,353 | 17,339 |
| 2006 | 65 | 726 | 1,543 | 6,184 | 2,072 | 10,590 | 11,241 |
| 2007 | 92 | 948 | 1,245 | 4,383 | 1,518 | 8,186 | 8,758 |
| 2008 | - | - | 28 | - | - | 28 | 33 |
| 2009 | 49 | 245 | - | - | - | 293 | 343 |
| 2010 | 21 | 449 | 927 | 3,757 | 2,344 | 7,499 | 10,731 |
| 2011 | 80 | 1,625 | 2,107 | 7,151 | 3,618 | 14,580 | 20,849 |
| 2012 | 827 | 2,816 | 2,123 | 12,602 | 5,914 | 24,282 | 34,514 |
| 2013 | 735 | 2,793 | 2,554 | 15,172 | 3,754 | 25,009 | 34,787 |
| 2014 | 473 | 2,015 | 2,561 | 12,258 | 3,505 | 20,811 | 28,972 |
| 2015 | 68 | 1,061 | 1,698 | 10,505 | 1,831 | 15,162 | 20,510 |
| 2016 | 59 | 1,038 | 1,319 | 9,669 | 926 | 13,010 | 17,392 |
| 2017/ | - | - | 609 | 11,978 | 1,679 | 14,266 | 18,610 |

a/ Estimates of income impacts are provided from output of the Fishery Economic Assessment Model (FEAM) and IOPAC. These are the income impacts associated with expenditures in the troll and/or recreational sectors. There is no differentiation betw een money that may be new to the area versus money that may otherw ise have been expended in other sectors. 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. Values from 2001 through 2009 are based on a run of the FEAM using 2000 PacFIN landings and 1998 IMPLAN data. Beginning with the 2010 data year, income impact estimates are based on the NWFSC's IOPAC model, which uses updated IMPLAN and landings data, and survey-based industry cost data. A description of the transition from FEAM-based to IOPACbased impact multipliers and comparisons of results from the two models are found in Appendix E of the Review of 2014 Ocean Salmon Fisheries:
http://w w w .pcouncil.org/salmon/stock-assessment-and-fishery-evaluation-safe-documents/review -of-2014-ocean-salmon-fisheries/
b/ Total personal income impacts on coastal areas. Totals do not include impacts of one coastal area on another.
c/ Excluding pink salmon.
d/ Less than 500 dollars.
e/ Eureka impacts are from fish caught in the Fort Bragg area fishery and landed in Eureka.
$f /$ Preliminary.

TABLE IV-17. Estimates of Oregon coastal community and state personal income impacts in thousands of real (inflation adjusted, 2017) dollars of the troll and recreational ocean salmon fishery for major port areas. ${ }^{2 /}$

| Year or Avg. | Astoria | Tillamook | New port | Coos Bay | Brookings | Coastal Community Total ${ }^{\text {b/ }}$ | State-Level Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OCEAN TROLL ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |
| 1976-1980 | 4,360 | 5,612 | 13,165 | 20,259 | 8,422 | 51,818 | 70,257 |
| 1981-1985 | 1,412 | 1,817 | 4,261 | 7,515 | 3,262 | 18,267 | 24,825 |
| 1986-1990 | 652 | 3,801 | 8,460 | 16,309 | 3,091 | 32,313 | 43,640 |
| 1991-1995 | 91 | 709 | 2,904 | 1,411 | 144 | 5,258 | 7,089 |
| 1996-2000 | 151 | 297 | 3,073 | 1,774 | 428 | 5,723 | 6,974 |
| 2001-2005 | 901 | 996 | 6,229 | 5,494 | 1,043 | 14,662 | 16,920 |
| 2006 | 1,050 | 653 | 1,717 | 463 | 403 | 4,285 | 4,597 |
| 2007 | 310 | 439 | 715 | 2,085 | 830 | 4,379 | 4,700 |
| 2008 | 442 | 216 | - | - | 77 | 734 | 774 |
| 2009 | 180 | 169 | 149 | 20 | 45 | 564 | 602 |
| 2010 | 972 | 160 | 1,298 | 1,137 | 192 | 3,759 | 5,296 |
| 2011 | 244 | 59 | 531 | 2,366 | 264 | 3,465 | 4,557 |
| 2012 | 723 | 288 | 1,995 | 2,313 | 359 | 5,677 | 8,077 |
| 2013 | 354 | 496 | 1,570 | 6,675 | 625 | 9,720 | 13,104 |
| 2014 | 1,840 | 975 | 5,512 | 8,180 | 1,214 | 17,722 | 24,976 |
| 2015 | 1,171 | 650 | 2,633 | 3,810 | 515 | 8,779 | 12,251 |
| 2016 | 305 | 150 | 2,908 | 1,257 | 127 | 4,748 | 7,032 |
| $2017{ }^{\text {d/ }}$ | 324 | 146 | 1,424 | 352 | 79 | 2,324 | 3,465 |


| RECREATIONAL |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979-1980 | 4,034 | 1,553 | 5,847 | 5,762 | 2,670 | 19,866 | 25,598 |
| 1981-1985 | 2,154 | 1,737 | 4,149 | 4,231 | 2,944 | 15,216 | 19,754 |
| 1986-1990 | 1,475 | 1,845 | 5,741 | 4,182 | 3,065 | 16,309 | 21,232 |
| 1991-1995 | 1,001 | 806 | 1,826 | 1,630 | 1,151 | 6,415 | 8,318 |
| 1996-2000 | 388 | 445 | 438 | 483 | 929 | 2,682 | 3,536 |
| 2001-2005 | 1,130 | 1,067 | 2,036 | 1,786 | 785 | 6,805 | 8,363 |
| 2006 | 600 | 703 | 744 | 923 | 454 | 3,424 | 4,207 |
| 2007 | 842 | 955 | 1,444 | 1,155 | 465 | 4,860 | 5,974 |
| 2008 | 242 | 376 | 313 | 314 | 201 | 1,446 | 1,779 |
| 2009 | 848 | 1,029 | 2,082 | 621 | 256 | 4,837 | 5,955 |
| 2010 | 976 | 745 | 1,309 | 333 | 339 | 3,702 | 5,544 |
| 2011 | 756 | 726 | 1,245 | 407 | 356 | 3,491 | 5,317 |
| 2012 | 606 | 688 | 1,434 | 679 | 1,080 | 4,487 | 7,039 |
| 2013 | 687 | 806 | 1,533 | 1,163 | 1,197 | 5,386 | 8,766 |
| 2014 | 1,242 | 1,432 | 3,723 | 1,154 | 1,003 | 8,554 | 13,192 |
| 2015 | 909 | 876 | 1,830 | 563 | 513 | 4,690 | 7,165 |
| 2016 | 352 | 585 | 771 | 422 | 238 | 2,368 | 3,812 |
| $2017{ }^{\text {d/ }}$ | 681 | 477 | 837 | 484 | 114 | 2,593 | 4,099 |

a/ Estimates of income impacts are provided from output of the Fishery Economic Assessment Model (FEAM) and IOPAC. These are the income impacts associated $w$ ith expenditures in the troll and/or recreational sectors. There is no differentiation betw een money that may be new to the area versus money that may otherw ise have been expended in other sectors. 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. Values from 2001 through 2009 are based on a run of the FEAM using 2000 PacFIN landings and 1998 IMPLAN data. Beginning with the 2010 data year, income impact estimates are based on the NWFSC's IOPAC model, which uses updated IMPLAN and landings data, and survey-based industry cost data. A description of the transition from FEAM-based to IOPAC-based impact multipliers and comparisons of results from the two models are found in Appendix E of the Review of 2014 Ocean Salmon Fisheries:
http://w w w .pcouncil.org/salmon/stock-assessment-and-fishery-evaluation-safe-documents/review -of-2014-ocean-salmon-fisheries 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, 2017) dollars of the troll and recreational ocean salmon fishery for major port areas. ${ }^{a /}$

| Year or Avg. | Neah Bay | La Push | Westport | llw aco ${ }^{\text {b/ }}$ | Coastal Community Total ${ }^{\mathrm{c} / \mathrm{d} /}$ | Puget Sound | State-Level Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OCEAN TROLL ${ }^{\text {e/f/ }}$ |  |  |  |  |  |  |  |
| 1976-1980 | 6,296 | 8,597 | 17,043 | 6,103 | 38,039 | 8,472 | 60,683 |
| 1981-1985 | 1,237 | 501 | 4,669 | 1,117 | 7,526 | 1,808 | 11,829 |
| 1986-1990 | 684 | 180 | 2,145 | 467 | 3,477 | 1,047 | 5,696 |
| 1991-1995 ${ }^{\text {/ }}$ | 504 | 111 | 717 | 51 | 1,385 | 202 | 2,039 |
| 1996-2000 | 170 | 3 | 205 | 20 | 397 | 104 | 546 |
| 2001-2005 | 796 | 210 | 1,056 | 132 | 2,193 | 16 | 2,484 |
| 2006 | 566 | 459 | 440 | 295 | 1,761 | 38 | 2,084 |
| 2007 | 250 | 254 | 1,038 | 129 | 1,671 | 22 | 1,858 |
| 2008 | 163 | 216 | 616 | 164 | 1,159 | 13 | 1,306 |
| 2009 | 331 | 342 | 1,192 | 83 | 1,948 | 38 | 2,221 |
| 2010 | 251 | 403 | 3,843 | 95 | 4,591 | 24 | 5,509 |
| 2011 | 575 | 228 | 1,407 | 96 | 2,307 | 7 | 3,028 |
| 2012 | 862 | 501 | 1,467 | 234 | 3,065 | 9 | 4,206 |
| 2013 | 485 | 448 | 2,674 | 74 | 3,680 | 7 | 4,583 |
| 2014 | 385 | 445 | 1,528 | 1,108 | 3,466 | 88 | 4,287 |
| 2015 | 315 | 641 | 3,021 | 420 | 4,397 | 51 | 5,398 |
| 2016 | 206 | 204 | 1,386 | 219 | 2,015 | 36 | 2,481 |
| 2017 | 422 | 132 | 3,150 | 79 | 3,782 | 4 | 4,438 |
| RECREATIONAL |  |  |  |  |  |  |  |
| 1976-1980 | 2,320 | 1,151 | 23,073 | 11,294 | 37,837 | - | 51,149 |
| 1981-1985 | 1,403 | 143 | 9,078 | 4,666 | 15,290 | - | 20,692 |
| 1986-1990 | 1,077 | 123 | 5,152 | 2,777 | 9,128 | - | 12,364 |
| 1991-1995 | 572 | 112 | 3,180 | 1,613 | 5,476 | - | 7,405 |
| 1996-2000 | 303 | 82 | 1,489 | 728 | 2,602 | - | 3,508 |
| 2001-2005 | 937 | 235 | 5,767 | 3,545 | 10,484 | - | 12,265 |
| 2006 | 552 | 231 | 3,593 | 2,200 | 6,576 | - | 7,698 |
| 2007 | 563 | 180 | 3,687 | 2,875 | 7,304 | - | 8,540 |
| 2008 | 244 | 108 | 2,425 | 1,024 | 3,801 | - | 4,441 |
| 2009 | 657 | 288 | 4,626 | 3,166 | 8,738 | - | 10,220 |
| 2010 | 777 | 332 | 6,312 | 3,422 | 10,843 | - | 18,184 |
| 2011 | 758 | 363 | 5,180 | 3,033 | 9,333 | - | 15,789 |
| 2012 | 944 | 343 | 5,848 | 2,853 | 9,988 | - | 16,873 |
| 2013 | 1,088 | 368 | 5,679 | 2,987 | 10,122 | - | 17,202 |
| 2014 | 1,190 | 484 | 8,315 | 4,731 | 14,720 | - | 24,844 |
| 2015 | 1,059 | 334 | 7,203 | 3,793 | 12,389 | - | 20,790 |
| 2016 | 595 | 112 | 2,746 | 2,604 | 6,057 | - | 10,286 |
| 2017 | 768 | 177 | 3,937 | 2,452 | 7,334 | - | 12,532 |

a/ Estimates of income impacts are provided from output of the Fishery Economic Assessment Model (FEAM) and IOPAC. These are the income impacts associated with expenditures in the troll and/or recreational sectors. There is no differentiation betw een money that may be new to the area versus money that may otherw ise have been expended in other sectors. 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. Values from 2001 through 2009 are based on a run of the FEAM using 2000 PacFIN landings and 1998 IMPLAN data. Beginning w ith the 2010 data year, income impact estimates are based on the NWFSC's IOPAC model, w hich uses updated IMPLAN and landings data, and survey-based industry cost data. A description of the transition from FEAM-based to IOPACbased impact multipliers and comparisons of results from the two models are found in Appendix E of the Review of 2014 Ocean Salmon Fisheries:
http://w w w .pcouncil.org/salmon/stock-assessment-and-fishery-evaluation-safe-documents/review -of-2014-ocean-salmon-fisheries/
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.
$\mathrm{f} / \mathrm{All}$ commercial values in this table are based on preliminary information available at the start of each year's Salmon Review . $\mathrm{g} /$ The non-Indian commercial and recreational fisheries were closed north of Cape Falcon in 1994. Some commercial catch taken south of Cape Falcon w as landed in the Puget Sound area.

TABLE IV-19. Local personal income impacts in real (inflation adjusted, 2017) dollars of the inriver commercial salmon fishery on Oregon and Washington Columbia River communities. ${ }^{a}$ (page 1 of 2)


| Oregon |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1984-1985 | 3,762 | e/ | e/ | 3,966 | e/ | 7,728 | e/ | 2,147 | 7 | 30 | e/ | 2,185 | 9,913 |
| 1986-1990 | 1,908 | 8,576 | 726 | 6,166 | 10 | 17,386 | 8 | 3,663 | 90 | 42 | e/ | 3,804 | 21,190 |
| 1991-1995 | 565 | 497 | 61 | 1,337 | 1 | 2,461 | 1 | 494 | 121 | 16 | e/ | 632 | 3,093 |
| 1996-2000 | 249 | 243 | 68 | 881 | 1 | 1,443 | 1 | 203 | 82 | 6 | e/ | 292 | 1,735 |
| 2001-2005 | 1,633 | 1,128 | 256 | 2,318 | e/ | 5,336 | 116 | 465 | 97 | 13 | e/ | 691 | 6,026 |
| 2006 | 1,302 | 1,497 | 98 | 1,414 | e/ | 4,312 | 1 | 811 | 16 | 33 | - | 861 | 5,173 |
| 2007 | 1,553 | 822 | e/ | 625 | e/ | 3,001 | 135 | 790 | e/ | 34 | - | 959 | 3,960 |
| 2008 | 1,403 | 2,236 | 210 | 1,447 | e/ | 5,296 | 654 | 2,021 | 219 | 115 | - | 3,010 | 8,306 |
| 2009 | 883 | 2,020 | 304 | 2,266 | e/ | 5,473 | 300 | 1,412 | 156 | 61 | - | 1,928 | 7,401 |
| 2010 | 2,750 | 1,313 | 224 | 1,135 | 1 | 5,424 | 861 | 667 | 129 | 47 | e/ | 1,703 | 7,127 |
| 2011 | 1,692 | 2,098 | 197 | 1,049 | e/ | 5,036 | 266 | 866 | 45 | 44 | e/ | 1,220 | 6,256 |
| 2012 | 1,521 | 1,296 | 158 | 214 | e/ | 3,190 | 106 | 504 | 7 | 16 | e/ | 634 | 3,824 |
| 2013 | 1,526 | 3,500 | 174 | 810 | e/ | 6,010 | 148 | 1,709 | 37 | 11 | e/ | 1,904 | 7,914 |
| 2014 | 1,013 | 2,615 | 228 | 2,679 | e/ | 6,534 | 450 | 1,432 | 22 | 56 | e/ | 1,960 | 8,494 |
| 2015 | 1,987 | 2,322 | 153 | 412 | e/ | 4,874 | 681 | 1,571 | 47 | 3 | e/ | 2,302 | 7,176 |
| 2016 | 1,968 | 2,084 | 94 | 612 | e/ | 4,758 | 222 | 1,329 | 3 | 12 | e/ | 1,566 | 6,324 |
| 2017 " | 2,274 | 856 | 46 | 679 | e/ | 3,855 | 249 | 1,125 | 4 | 24 | e/ | 1,403 | 5,258 |


| Washington ${ }^{\text {tigh/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1984-1985 | 2,616 | e/ |  | 1,192 | e/ | 3,808 | e/ | 740 |  | e/ | e/ | 740 | 4,548 |
| 1986-1990 | 1,158 | 3,761 |  | 2,728 | 3 | 7,650 | 32 | 5,031 |  | 142 | e/ | 5,206 | 12,856 |
| 1991-1995 | 303 | 205 |  | 550 | 2 | 1,060 | 1 | 704 |  | 19 | e/ | 724 | 1,784 |
| 1996-2000 | 8 | 185 |  | 316 | 1 | 510 | 28 | 1,268 |  | 18 | e/ | 1,313 | 1,823 |
| 2001-2005 | 471 | 806 |  | 1,146 | e/ | 2,423 | 569 | 2,531 |  | 57 | e/ | 3,157 | 5,580 |
| 2006 | 702 | 1,012 | - | 619 | - | 2,333 | 1,012 | 3,349 | - | 87 | e/ | 4,448 | 6,781 |
| 2007 | 250 | 508 | - | 509 | e/ | 1,267 | 1 | 2,906 | - | 144 | e/ | 3,051 | 4,318 |
| 2008 | 612 | 1,097 | - | 606 | 1 | 2,316 | 1,979 | 4,066 | - | 397 | e/ | 6,441 | 8,758 |
| 2009 | 622 | 1,254 | - | 675 | 1 | 2,552 | 1,328 | 2,431 | - | 81 |  | 3,840 | 6,392 |
| 2010 | 871 | 821 | e/ | 520 | 2 | 2,215 | 3,184 | 2,786 | e/ | 36 | e/ | 6,006 | 8,221 |
| 2011 | 569 | 1,204 | e/ | 385 | 1 | 2,159 | 2,691 | 4,690 | e/ | 376 | 1 | 7,756 | 9,915 |
| 2012 | 530 | 1,170 | e/ | 100 | e/ | 1,801 | 1,483 | 2,742 | e/ | 58 | e/ | 4,283 | 6,084 |
| 2013 | 293 | 2,033 | e/ | 327 | e/ | 2,653 | 1,315 | 6,391 | e/ | 164 | e/ | 7,870 | 10,523 |
| 2014 | 364 | 2,014 | e/ | 875 | e/ | 3,253 | 2,914 | 7,545 | e/ | 532 | 3 | 10,991 | 14,244 |
| 2015 | 735 | 2,164 | e/ | 116 | e/ | 3,015 | 3,862 | 8,817 | e/ | 39 | e/ | 12,719 | 15,734 |
| 2016 | 601 | 2,627 | e/ | 158 | e/ | 3,386 | 2,712 | 6,219 | e/ | 124 | e/ | 9,055 | 12,441 |
| 2017 | 133 | 917 | e/ | 222 | e/ | 1,271 | 1,570 | 5,613 | e/ | 145 | 15 | 7,328 | 8,599 |

TABLE IV-19. Local personal income impacts in thousands of real (inflation adjusted, 2017) dollars of the inriver commercial salmon fishery on Oregon and Washington Columbia River communities. ${ }^{\text {a/ }}$ (page 2 of 2 )

| Year or Avg. | Non-Indian - Gillnet ${ }^{\text {b/ }}$ |  |  |  |  |  | Treaty Indian - All Gears ${ }^{\text {c/ }}$ |  |  |  |  |  | Columbia <br> River Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  |  | Coho | Chum | TOTAL | Chinook |  |  | Coho | Chum | TOTAL |  |
|  | Spring | Fall |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Brights ${ }^{\text {d }}$ | Tules |  |  |  | Spring | Brights ${ }^{\text {d/ }}$ | Tules |  |  |  |  |
|  |  |  |  |  |  | Columbia | er (Com | bined) |  |  |  |  |  |
| 1984-1985 | 6,378 | e/ | e/ | 5,158 | e/ | 11,536 | e/ | 2,887 | 7 | 30 | e/ | 2,925 | 14,460 |
| 1986-1990 | 3,066 | 12,337 | 726 | 8,894 | 14 | 25,036 | 40 | 8,694 | 90 | 185 | e/ | 9,010 | 34,046 |
| 1991-1995 | 869 | 702 | 61 | 1,886 | 3 | 3,521 | 2 | 1,198 | 121 | 35 | e/ | 1,356 | 4,878 |
| 1996-2000 | 258 | 428 | 68 | 1,197 | 3 | 1,953 | 29 | 1,470 | 82 | 24 | e/ | 1,605 | 3,558 |
| 2001-2005 | 2,104 | 1,934 | 256 | 3,464 | 1 | 7,759 | 685 | 2,996 | 97 | 70 | e/ | 3,848 | 11,607 |
| 2006 | 2,004 | 2,607 |  | 2,033 | - | 6,645 | 1,013 | 4,176 |  | 120 | - | 5,309 | 11,954 |
| 2007 | 1,803 | 1,330 |  | 1,134 | e/ | 4,268 | 136 | 3,696 |  | 179 | - | 4,010 | 8,278 |
| 2008 | 2,015 | 3,543 |  | 2,053 | 1 | 7,612 | 2,633 | 6,307 |  | 512 | - | 9,451 | 17,064 |
| 2009 | 1,505 | 3,578 |  | 2,941 | 1 | 8,026 | 1,628 | 3,999 |  | 141 | - | 5,768 | 13,794 |
| 2010 | 3,621 | 2,359 |  | 1,655 | 4 | 7,639 | 4,045 | 3,581 |  | 83 | e/ | 7,709 | 15,348 |
| 2011 | 2,261 | 3,499 |  | 1,434 | 1 | 7,195 | 2,956 | 5,600 |  | 420 | 1 | 8,976 | 16,171 |
| 2012 | 2,052 | 2,625 |  | 314 | e/ | 4,991 | 1,590 | 3,253 |  | 74 | e/ | 4,917 | 9,908 |
| 2013 | 1,819 | 5,707 |  | 1,137 | e/ | 8,663 | 1,463 | 8,137 |  | 174 | e/ | 9,774 | 18,437 |
| 2014 | 1,377 | 4,857 |  | 3,554 | e/ | 9,787 | 3,364 | 9,000 |  | 588 | 3 | 12,951 | 22,739 |
| 2015 | 2,721 | 4,639 |  | 529 | e/ | 7,889 | 4,543 | 10,436 |  | 43 | e/ | 15,021 | 22,910 |
| 2016 | 2,569 | 4,805 |  | 770 | e/ | 8,144 | 2,934 | 7,551 |  | 136 | e/ | 10,621 | 18,765 |
| 2017 ${ }^{\text {/ }}$ | 2,406 | 1,819 |  | 901 | e/ | 5,126 | 1,819 | 6,742 |  | 169 | 15 | 8,730 | 13,856 |

a/ Estimates of income impacts are provided from output of the Fishery Economic Assessment Model (FEAM) and IOPAC. These are the income impacts associated with expenditures in the troll and/or recreational sectors. There is no differentiation betw een money that may be new to the area versus money that may otherw ise have been expended in other sectors. 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. Values from 2001 through 2009 are based on a run of the FEAM using 2000 PacFIN landings and 1998 IMPLAN data. Beginning w ith the 2010 data year, income impact estimates are based on the NWFSC's IOPAC model, which uses updated IMPLAN and landings data, and survey-based industry cost data. A description of the transition from FEAM-based to IOPAC-based impact multipliers and comparisons of results from the tw o models are found in Appendix E of the Review of 2014 Ocean Salmon Fisheries:
http://w w w .pcouncil.org/salmon/stock-assessment-and-fishery-evaluation-safe-documents/review -of-2014-ocean-salmon-fisheries/
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 $\$ 500$.
$\mathrm{f} /$ Preliminary. (All Washington values in this table are based on preliminary information available w hen each year's Salmon Review is drafted.)
$\mathrm{g} /$ 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, 2017) 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 |
| BUOY 10 (including bank fishing) |  |  |  |  |
| 1987-1990 | 136 | 2,726 | 4,752 | 7,478 |
| 1991-1995 | 79 | 1,550 | 2,638 | 4,188 |
| 1996-2000 | 45 | 993 | 1,359 | 2,352 |
| 2001-2005 | 85 | 1,964 | 1,688 | 3,652 |
| 2006 | 41 | 1,108 | 633 | 1,741 |
| 2007 | 36 | 918 | 688 | 1,606 |
| 2008 | 32 | 849 | 634 | 1,483 |
| 2009 | 73 | 1,796 | 1,243 | 3,039 |
| 2010 | 52 | 2,097 | 1,789 | 3,886 |
| 2011 | 49 | 2,155 | 1,520 | 3,676 |
| 2012 | 65 | 2,875 | 2,024 | 4,899 |
| 2013 | 66 | 2,959 | 1,917 | 4,876 |
| 2014 | 108 | 5,043 | 2,784 | 7,827 |
| 2015 | 108 | 5,014 | 2,850 | 7,864 |
| 2016 | 95 | 4,323 | 2,595 | 6,918 |
| $2017{ }^{\text {b/ }}$ | 94 | 4,179 | 2,706 | 6,885 |
| AREA 4B ADD-ON ${ }^{\text {c/de/ }}$ |  |  |  |  |
| 1989-1990 | 12 | - | 673 | 673 |
| 1991-1995 | 6 | - | 392 | 392 |
| 1996-2000 | 3 | - | 141 | 141 |
| 2001-2005 | - | - | - | - |
| 2006 | - | - | - | - |
| 2007 | - | - | - | - |
| 2008 | 1 | - | 34 | 34 |
| 2009 | - | - | - | - |

a/ Estimates of income impacts are provided from output of the Fishery Economic Assessment Model (FEAM) and IOPAC. These are the income impacts associated with expenditures in the troll and/or recreational sectors. There is no differentiation betw een money that may be new to the area versus money that may otherw ise have been expended in other sectors. 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. Values from 2001 through 2009 are based on a run of the FEAM using 2000 PacFIN landings and 1998 IMPLAN data. Beginning with the 2010 data year, income impact estimates are based on the NWFSC's IOPAC model, which uses updated IMPLAN and landings data, and survey-based industry cost data. A description of the transition from FEAM-based to IOPAC-based impact multipliers and comparisons of results from the two models are found in Appendix E of the Review of 2014 Ocean Salmon Fisheries:
http://w w w .pcouncil.org/salmon/stock-assessment-and-fishery-evaluation-safe-documents/review-of-2014-ocean-salmon-fisheries/
b/ Preliminary
c/ There were no Area 4B add-on fisheries prior to 1989.
d/ There w as no Area 4B add-on fishery opening in 1999 and 2006 as the Area 4 ocean quota $w$ as not attained.
e/ There has been no Area 4B add-on fishery planned since 2008.


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, 2017 dollars).


Figure IV-4. Exvessel value of West Coast non-Indian ocean commercial Chinook and coho landings by state of landing (inflation adjusted, 2017 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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TABLE A-1. California commercial troll salmon fishing effort in days fished and landings in numbers of fish by catch area.

| Year or Avg. | Crescent City ${ }^{\text {a/ }}$ | Eureka | Fort Bragg | San Francisco | Monterey | Oregon | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DAYS FISHED |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 66 | 261 | 3,255 | 8,878 | 4,674 | 87 | 17,187 |
| 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 | 98 | 563 | 5,341 | 8,327 | 2,964 | - | 17,293 |
| 2014 | 7 | 92 | 4,261 | 8,441 | 1,593 | - | 14,394 |
| 2015 | 10 | 22 | 4,971 | 5,466 | 2,542 | - | 13,011 |
| 2016 | 7 | 52 | 1,486 | 4,093 | 1,560 | - | 7,198 |
| $2017{ }^{\text {b/ }}$ | - | - | 267 | 4,332 | 2,080 | - | 6,679 |
| CHINOOK LANDINGS |  |  |  |  |  |  |  |
| 1981-1985 | 48,548 | 61,130 | 109,258 | 181,548 | 84,103 | 0 | 462,652 |
| 1986-1990 | 13,997 | 32,329 | 252,416 | 351,115 | 144,846 | 1,064 | 794,703 |
| 1991-1995 | - | 4,700 | 17,354 | 200,588 | 126,517 | 0 | 341,928 |
| 1996-2000 | 126 | 3,379 | 12,529 | 195,662 | 156,305 | 0 | 368,001 |
| 2001-2005 | 1,412 | 5,298 | 96,466 | 210,228 | 64,827 | 9,484 | 383,921 |
| 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 | 1,225 | 8,953 | 116,158 | 143,654 | 27,637 | - | 297,627 |
| 2014 | 21 | 599 | 76,931 | 82,424 | 8,308 | - | 168,283 |
| 2015 | 36 | 10 | 60,052 | 35,696 | 14,713 | - | 110,507 |
| 2016 | 6 | 190 | 15,380 | 26,363 | 13,246 | - | 55,185 |
| $2017{ }^{\text {b/ }}$ | - | - | 1,941 | 27,848 | 12,472 | - | 42,261 |
| COHO LANDINGS |  |  |  |  |  |  |  |
| 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 | - | - | - | - | - | - | - |
| 2001-2005 | - | - | - | - | - | - | - |
| 2006 | - | - | - | - | - | - | - |
| 2007 | - | - | - | - | - | - | - |
| 2008 | - | - | - | - | - | - | - |
| 2009 | - | - | - | - | - | - | - |
| 2010 | - | - | - | - | - | - | - |
| 2011 | - | - | - | - | - | - | - |
| 2012 | - | - | - | - | - | - | - |
| 2013 | - | - | - | - | - | - | - |
| 2014 | - | - | - | - | - | - | - |
| 2015 | - | - | - | - | - | - | - |
| 2016 | - | - | - | - | - | - | - |
| 2017 | - | - | - | - | - | - | - |

[^4]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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Crescent City ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 ${ }^{\text {b/ }}$ | 18 | 2 | 3 | 36 | 97 | 61 | 6 | 119 |
| 2006 | - | - | - | - | - | - | - |  |
| 2007 | - | - | - | - | - | 87 | - | 87 |
| 2008 | - | - | - | - | - | - | - |  |
| 2009 | - | - | - | - | - | - | - |  |
| 2010 | - | - | - | - | - | - | - |  |
| 2011 | - | - | - | 4 | 16 | - | - | 20 |
| 2012 | - | - | - | - | - | 45 | - | 45 |
| 2013 | - | 8 | 31 | 46 | 10 | 3 | - | 98 |
| 2014 | - | - | - | - | - | 7 | - | 7 |
| 2015 | - | - | - | - | - | 10 | - | 10 |
| 2016 | - | - | - | - | - | 7 | - | 7 |
| 2017 |  |  |  |  |  |  |  |  |


| Eureka |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $1981-1985$ | - | 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 |
| $2001-2005$ | - | - | - | - | 94 | 242 | - | 261 |
| 2006 | - | - | - | - | - | - | - | - |
| 2007 | - | - | - | - | - | 270 | - | 270 |
| 2008 | - | - | - | - | - | - | - | - |
| 2009 | - | - | - | - | - | - | - | - |
| 2010 | - | - | - | - | - | - | - | - |
| 2011 | - | - | - | 148 | 33 | - | - | 181 |
| 2012 | - | - | - | - | - | 260 | - | 260 |
| 2013 | - | - | - | - | 111 | 103 | 46 | - |
| 2014 | - | - | - | - | 92 | - | 563 |  |
| 2015 | - | - | - | - | 22 | - | 92 |  |
| 2016 | - | - | - | - | 52 | - | 22 |  |
| 2017 | - | - | - | - | - | - | 52 |  |
|  | - | - |  |  |  |  | - |  |


| Fort Bragg |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $1981-1985$ | - | 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 |
| $2001-2005$ | - | 614 | - | 1,380 | 1,926 | 1,026 | - | 3,255 |
| 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 | - | 277 | 1,032 | 2,221 | 1,251 | 288 | - | 2,221 |
| 2013 | - | - | 1,129 | 2,208 | 825 | 560 | - | 5,341 |
| 2014 | - | 2,376 | 987 | 768 | 623 | 217 | - | 4,261 |
| 2015 | - | 663 | - | 618 | 205 | - | 4,971 |  |
| 2016 | - | - | - | - | 267 | - | 1,486 |  |
| $2017^{c /}$ |  | - | - |  |  |  | 267 |  |

TABLE A-2. Calif ornia 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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| San Francisco |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | - | 2,106 | 1,894 | 2,643 | 1,493 | 1,249 | 293 | 8,878 |
| 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 | - | 2,401 | 2,062 | 1,358 | 1,269 | 1,014 | 223 | 8,327 |
| 2014 | - | 2,187 | 1,200 | 761 | 2,058 | 1,660 | 575 | 8,441 |
| 2015 | - | 839 | 745 | 639 | 1,250 | 1,478 | 515 | 5,466 |
| 2016 | - | 581 | 148 | - | 1,832 | 1,358 | 174 | 4,093 |
| 2017 ${ }^{\text {c/ }}$ | - | - | - | - | 2,588 | 1,530 | 214 | 4,332 |
| Monterey |  |  |  |  |  |  |  |  |
| 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 | 178 | 94 | - | 7,740 |
| 2001-2005 | - | 2,318 | 852 | 1,069 | 315 | 120 | - | 4,674 |
| 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 | - | 1,590 | 810 | 400 | 118 | 46 | - | 2,964 |
| 2014 | - | 824 | 353 | 312 | 104 | - | - | 1,593 |
| 2015 | - | 1,219 | 660 | 536 | 127 | - | - | 2,542 |
| 2016 | - | 1,081 | 479 | - | - | - | - | 1,560 |
| 2017 ${ }^{\text {c/ }}$ | - | 874 | 1,206 | - | - | - | - | 2,080 |
| Total Statewide ${ }^{\text {a/ }}$ |  |  |  |  |  |  |  |  |
| 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 | 2,346 | 2,424 | - | 18,299 |
| 2001-2005 | 18 | 4,249 | 2,368 | 4,547 | 3,021 | 2,700 | 296 | 17,187 |
| 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 | - | 4,450 | 4,064 | 4,136 | 2,751 | 1,669 | 223 | 17,293 |
| 2014 | - | 3,011 | 2,682 | 3,281 | 2,987 | 1,858 | 575 | 14,394 |
| 2015 | - | 4,434 | 2,392 | 1,943 | 2,000 | 1,727 | 515 | 13,011 |
| 2016 | - | 1,662 | 1,290 | - | 2,450 | 1,622 | 174 | 7,198 |
| $2017{ }^{\text {c/ }}$ | - | 874 | 1,206 | - | 2,588 | 1,797 | 214 | 6,679 |

a/ Includes minor effort off Oregon for fish landed in California.
b/ Commercial fishery closed in all months except August 2002 (27 days fished) and September 2001-2005
(quota fisheries); all other harvest occurred in Oregon w aters but w as landed in Crescent City.
c/ Preliminary.




[^5]b/ Commercial fishery closed all months except Aug. 2002 ( 681 Chinook) and Sept. 2001-2005; all other harvest occurred in Oregon w aters but w as landed in Crescent City.
c/ Preliminary.

| $\stackrel{1}{\square}$ | Year or Avg. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\stackrel{\text { ® }}{ }$ | Crescent City |  |  |  |  |  |  |  |  |  |  |  |
| $\bigcirc$ | 1981-1985 | -- | -- | 0 | 572 | 3,912 | 11,525 | 6,620 | 504 | 0 | 0 | 23,133 |
| $\xrightarrow{N}$ | 1986-1990 | -- | -- | - | 1,417 | 11,087 | 19,316 | 6,758 | 981 | - | - | 39,560 |
| $\bigcirc$ | 1991-1995 | - | - | - | 2,376 | 4,333 | 9,250 | 2,319 | 1,563 | - | - | 14,334 |
| $\checkmark$ | 1996-2000 | - | - | - | 555 | 2,320 | 1,460 | 2,184 | 331 | - | - | 6,849 |
| $\bigcirc$ | 2001-2005 | - | - | - | 594 | 1,038 | 969 | 1,182 | 289 | - | - | 4,072 |
| $\stackrel{\otimes}{1}$ | 2006 | - | - | - | 325 | 754 | 312 | - | 87 | - | - | 1,478 |
|  | 2007 | - | - | - | 277 | 484 | 1,027 | 225 | 69 | - | - | 2,082 |
| 0 | 2008 | - | - | - | - | - | - | - | - | - | - | - |
| \% | 2009 | - | - | - | - | - | - | 498 | 607 | - | - | 1,105 |
| $\bigcirc$ | 2010 | - | - | - | 72 | 38 | 48 | 33 | 15 | - | - | 206 |
| $\cdots$ | 2011 | - | - | - | 187 | 104 | 245 | 185 | 45 | - | - | 766 |
| $\stackrel{\text { ® }}{ }$ | 2012 | - | - | - | 455 | 1,018 | 4,134 | 1,702 | 502 | - | - | 7,811 |
| $\stackrel{\rightharpoonup}{\square}$. | 2013 | - | - | - | 456 | 2,538 | 3,228 | 816 | 0 | - | - | 7,038 |
|  | 2014 | - | - | - | 1,441 | 786 | 1,996 | 172 | 10 | - | - | 4,405 |
|  | 2015 | - | - | - | 210 | 89 | 161 | 137 | 44 | - | - | 641 |
|  | 2016 | - | - | - | 59 | 222 | 176 | 56 | 50 | - | - | 563 |
|  | 2017 | - | - | - | - | - | - | - | - | - | - | - |
| 山్ద | Eureka |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |
|  | 2001-2005 | - | - | - | 2,309 | 4,388 | 2,651 | 5,749 | 1,819 | - | - | 16,915 |
|  | 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 | - | - | - | 2,756 | 5,976 | 6,028 | 7,416 | 614 | - | - | 22,790 |
|  | 2014 | - | - | - | 2,710 | 4,157 | 5,170 | 3,580 | 612 | - | - | 16,229 |
|  | 2015 | - | - | - | 2,431 | 1,166 | 2,321 | 2,216 | 164 | - | - | 8,298 |
|  | 2016 | - | - | - | 1,579 | 1,933 | 2,380 | 1,888 | 610 | - | - | 8,390 |
| $\begin{aligned} & \frac{\rightharpoonup}{0} \\ & \frac{D}{2} \\ & \frac{2}{x} \\ & \gg \end{aligned}$ | 2017 | - | - | - | - | - | - | - | - | - | - | - |


| Year or Avg. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fort Bragg |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 463 | 878 | 1,309 | 3,054 | 6,649 | 8,885 | 6,013 | 996 | 75 | 8 | 28,239 |
| 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 | - | - | 934 | 1,666 | 3,519 | 7,136 | 3,076 | 667 | 220 | 47 | 17,265 |
| 2014 | - | - | 1,049 | 1,371 | 2,538 | 9,435 | 2,554 | 373 | 102 | 48 | 17,470 |
| 2015 | - | - | 1,051 | 1,321 | 1,615 | 5,002 | 2,278 | 423 | 94 | 5 | 11,789 |
| 2016 | - | - | 706 | 934 | 1,003 | 4,817 | 1,751 | 295 | 68 | 0 | 9,574 |
| $2017{ }^{\text {a }}$ | - | - | 412 | 1,101 | - | - | 1,869 | 1,279 | 17 | 0 | 4,678 |
| San Francisco |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 666 | 5,891 | 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 |
| 2001-2005 | - | - | 6,252 | 10,800 | 11,324 | 24,675 | 16,469 | 8,815 | 4,073 | 1,140 | 83,548 |
| 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 | - | - | 6,406 | 7,823 | 11,183 | 22,814 | 14,354 | 4,572 | 2,003 | 379 | 69,534 |
| 2014 | - | - | 3,433 | 3,406 | 2,163 | 11,779 | 18,604 | 9,589 | 5,046 | 675 | 54,695 |
| 2015 | - | - | 2,380 | 2,708 | 5,176 | 9,851 | 12,523 | 9,838 | 3,389 | - | 45,865 |
| 2016 | - | - | 2,797 | 4,723 | 2,797 | 11,554 | 11,437 | 8,205 | 2,298 | - | 43,811 |
| $2017{ }^{\text {a }}$ | - | - | 1,470 | 1,629 | 5,429 | 18,945 | 17,356 | 7,154 | 1,816 | - | 53,799 |


| Year or Avg. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Monterey |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 792 | 8,912 | 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 |
| 2001-2005 | - | 2,946 | 20,318 | 9,402 | 6,396 | 7,846 | 1,366 | 322 | -- | - | 47,353 |
| 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 | - | - | 12,262 | 5,698 | 3,613 | 6,210 | 2,582 | 282 | 22 | - | 30,669 |
| 2014 | - | - | 15,744 | 3,745 | 2,974 | 2,678 | 1,841 | 481 | 45 | - | 27,508 |
| 2015 | - | - | 7,654 | 3,372 | 2,419 | 1,391 | 317 | 32 | - | - | 15,185 |
| 2016 | - | - | 4,503 | 2,624 | 484 | 150 | - | - | - | - | 7,761 |
| $2017{ }^{\text {a }}$ | - | - | 8,237 | 2,234 | 1,145 | 3,459 | - | - | - | - | 15,075 |
| Total Statew ide |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 1,263 | 15,054 | 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 |
| 2001-2005 | 463 | 2,645 | 27,879 | 26,158 | 29,796 | 45,026 | 30,779 | 12,176 | 4,148 | 1,148 | 180,127 |
| 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 | - | - | 19,602 | 18,399 | 26,829 | 45,416 | 28,244 | 6,135 | 2,245 | 426 | 147,296 |
| 2014 | - | - | 20,226 | 12,673 | 12,618 | 31,058 | 26,751 | 11,065 | 5,193 | 723 | 120,307 |
| 2015 | - | - | 11,085 | 10,042 | 10,465 | 18,726 | 17,471 | 10,501 | 3,483 | 5 | 81,778 |
| 2016 | - | - | 8,006 | 9,919 | 6,439 | 19,077 | 15,132 | 9,160 | 2,366 | 0 | 70,099 |
| $2017{ }^{\text {a }}$ | - | - | 10,119 | 4,964 | 6,574 | 22,404 | 19,225 | 8,433 | 1,833 | 0 | 73,552 |

a/ Preliminary.




| Year or Ave. | Astoria | Tillamook | New port | Coos Bay | Brookings | Oregon Subtotal | Alaska | Washington | California | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DAYS FISHED |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 390 | 1,591 | 4,664 | 4,935 | 439 | 12,019 | 0 | 125 | 8 | 12,153 |
| 2006 | 984 | 751 | 2,216 | 367 | 184 | 4,502 | 0 | 0 | 0 | 4,502 |
| 2007 | 330 | 698 | 1,104 | 2,620 | 465 | 5,217 | 0 | 0 | 0 | 5,217 |
| 2008 | 655 | 49 | - | 48 | 51 | 803 | 0 | 0 | - | 803 |
| 2009 | 540 | 271 | 286 | 137 | - | 1,234 | 0 | 0 | - | 1,234 |
| 2010 | 632 | 404 | 1,524 | 1,555 | 181 | 4,296 | 0 | 0 | - | 4,296 |
| 2011 | 289 | 220 | 748 | 2,206 | 289 | 3,752 | 0 | 0 | - | 3,752 |
| 2012 | 416 | 635 | 2,112 | 2,711 | 382 | 6,256 | 0 | 0 | - | 6,256 |
| 2013 | 287 | 830 | 1,722 | 5,440 | 707 | 8,986 | 0 | 0 | - | 8,986 |
| 2014 | 816 | 556 | 3,697 | 4,864 | 770 | 10,703 | 0 | 0 | - | 10,703 |
| 2015 | 818 | 866 | 2,752 | 3,773 | 520 | 8,729 | 0 | 0 | - | 8,729 |
| 2016 | 225 | 237 | 2,756 | 1,047 | 127 | 4,392 | 0 | 0 | - | 4,392 |
| $2017{ }^{\text {b/ }}$ | 342 | 182 | 1,264 | 155 | 109 | 2,052 | 0 | 0 | - | 2,052 |
| CHINOOK LANDINGS |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 8,095 | 25,572 | 126,126 | 117,529 | 5,245 | 282,567 | 0 | 5,574 | 311 | 288,452 |
| 2006 | 10,489 | 2,756 | 18,895 | 1,979 | 738 | 34,857 | 0 | 0 | 0 | 34,857 |
| 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 | 7,397 | 26,612 | 25,204 | 5,444 | 73,101 | 0 | 0 | - | 73,101 |
| 2013 | 1,945 | 8,880 | 15,700 | 79,416 | 6,816 | 112,757 | 0 | 0 | - | 112,757 |
| 2014 | 16,182 | 7,009 | 83,122 | 85,637 | 16,146 | 208,096 | 0 | 0 | - | 208,096 |
| 2015 | 10,882 | 8,845 | 36,858 | 43,451 | 4,223 | 104,259 | 0 | 0 | - | 104,259 |
| 2016 | 2,058 | 1,067 | 31,281 | 7,543 | 398 | 42,347 | 0 | 0 | - | 42,347 |
| $2017{ }^{\text {b/ }}$ | 2,627 | 717 | 17,438 | 731 | 329 | 21,842 | 0 | 0 | - | 21,842 |


| Year or Ave. | Astoria | Tillamook | New port | Coos Bay | Brookings | Oregon Subtotal | Alaska | Washington | California | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | HO LANDIN |  |  |  |  |  |
| 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 |
| 2001-2005 | 5,749 | - | - | - | - | 5,749 | 0 | 189 | - | 5,938 |
| 2006 | 1,414 | - | - | - | - | 1,414 | 0 | 0 | - | 1,414 |
| 2007 | 11,554 | 1,279 | 1,883 | 2,393 | - | 17,109 | 0 | 0 | - | 17,109 |
| 2008 | 434 | - | - | - | - | 434 | 0 | 0 | - | 434 |
| 2009 | 12,684 | 3,490 | 5,105 | 683 | - | 21,962 | 0 | 0 | - | 21,962 |
| 2010 | 1,040 | - | - | - | - | 1,040 | 0 | 0 | - | 1,040 |
| 2011 | 464 | - | - | - | - | 464 | 0 | 0 | - | 464 |
| 2012 | 624 | - | - | - | - | 624 | 0 | 0 | - | 624 |
| 2013 | 452 | - | - | - | - | 452 | 0 | 0 | - | 452 |
| 2014 | 7,702 | 1,104 | 1,222 | 970 | - | 10,998 | 0 | 0 | - | 10,998 |
| 2015 | 2,213 | - | - | - | - | 2,213 | 0 | 0 | - | 2,213 |
| 2016 | - | - | - | - | - | - | 0 | 0 | - | 0 |
| $2017{ }^{\text {b/ }}$ | 470 | - | - | - | - | 470 | 0 | 0 | - | 470 |

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 follow ing port areas: Astoria area includes Oregon ports from Astoria through Cannon Beach; Tillamook area includes Nehalem through Pacific City; New port 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-w aters only terminal area fisheries.
b/ Preliminary.

| Average | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Astoria |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | - | - | 78 | 28 | 89 | 152 | 72 | - | - | - | 390 |
| 2006 | - | - | 516 | 296 | - | 79 | 93 | - | - | - | 984 |
| 2007 | - | - | 77 | 46 | 40 | 153 | 14 | - | - | - | 330 |
| 2008 | - | - | 272 | 282 | 33 | 58 | 10 | - | - | - | 655 |
| 2009 | - | - | 72 | 85 | 239 | 135 | 9 | - | - | - | 540 |
| 2010 | - | - | 68 | 288 | 141 | 119 | 16 | - | - | - | 632 |
| 2011 | - | - | 85 | 124 | 41 | 24 | 15 | - | - | - | 289 |
| 2012 | - | - | 58 | 223 | 37 | 25 | 73 | - | - | - | 416 |
| 2013 | - | - | 64 | 119 | 32 | 46 | 26 | - | - | - | 287 |
| 2014 | - | - | 455 | 79 | 161 | 65 | 56 | - | - | - | 816 |
| 2015 | - | - | 531 | 88 | 48 | 61 | 90 | - | - | - | 818 |
| 2016 | - | - | 71 | 82 | 21 | 51 | - | - | - | - | 225 |
| $2017{ }^{\text {b/ }}$ | - | - | 82 | 92 | 11 | 104 | 53 | - | - | - | 342 |
| Tillamook |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 71 | 64 | 268 | 354 | 174 | 225 | 301 | 218 | 10 | - | 1,591 |
| 2006 | - | - | - | 179 | 12 | 34 | 178 | 317 | 31 | - | 751 |
| 2007 | - | 8 | 280 | 100 | 4 | 86 | 95 | 95 | 30 | - | 698 |
| 2008 | - | - | - | - | - | - | 37 | 12 | -- | - | 49 |
| 2009 | - | - | - | - | - | - | 247 | 24 | - | - | 271 |
| 2010 | - | - | 33 | 177 | 109 | 39 | 37 | 9 | - | - | 404 |
| 2011 | - | - | 25 | 96 | 21 | 23 | 42 | 13 | - | - | 220 |
| 2012 | - | 52 | 175 | 91 | 36 | 22 | 102 | 157 | - | - | 635 |
| 2013 | - | 189 | 87 | 52 | 40 | 196 | 192 | 74 | - | - | 830 |
| 2014 | - | 10 | 96 | 159 | 60 | 40 | 177 | 14 | - | - | 556 |
| 2015 | - | 50 | 321 | 249 | 9 | 26 | 140 | 71 | - | - | 866 |
| 2016 | - | 44 | 38 | 66 | 8 | 12 | 55 | 14 | - | - | 237 |
| $2017{ }^{\text {b/ }}$ | - | 7 | 34 | 46 | 8 | - | 70 | 17 | - | - | 182 |


| Year or Average | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New port |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 252 | 452 | 954 | 923 | 407 | 631 | 753 | 551 | - |  | 4,664 |
| 2006 | - | - | - | 838 | 471 | 151 | 413 | 250 | 93 | - | 2,216 |
| 2007 | - | 81 | 347 | 286 | 94 | 170 | 91 | 29 | 6 | - | 1,104 |
| 2008 | - | - | - | - | - | - | - | - | - | - | - |
| 2009 | - | - | - | - | - | - | 286 | - | - |  | 286 |
| 2010 | - | - | 477 | 411 | 290 | 346 |  | - | - |  | 1,524 |
| 2011 | - | 60 | 325 | 229 | 22 | 101 | - | 11 | - |  | 748 |
| 2012 | - | 155 | 475 | 335 | 114 | 312 | 465 | 256 | - |  | 2,112 |
| 2013 | - | 334 | 484 | 263 | 141 | 325 | 98 | 77 | - |  | 1,722 |
| 2014 | - | 469 | 1,076 | 507 | 354 | 932 | 255 | 104 | - |  | 3,697 |
| 2015 | - | 738 | 317 | 230 | 782 | 530 | 155 | - | - | - | 2,752 |
| 2016 | - | 666 | 625 | 309 | 388 | 547 | 217 | 4 | - |  | 2,756 |
| $2017{ }^{\text {b/ }}$ | - | 99 | 149 | 345 | 647 | - | 18 | 6 | - | - | 1,264 |
| Coos Bay |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 364 | 692 | 1,088 | 897 | 361 | 776 | 619 | 443 | 151 | 25 | 4,935 |
| 2006 | - | - | - | - | - | - | 30 | 156 | 155 | 26 | 367 |
| 2007 | - | 253 | 554 | 388 | 167 | 895 | 117 | 120 | 126 | - | 2,620 |
| 2008 | - | - | - | - | - | - | - | - | 48 | - | 48 |
| 2009 | - | - | - | - | - | - | 101 | 36 | - |  | 137 |
| 2010 | - | - | 505 | 399 | 169 | 334 | - | 148 | - | - | 1,555 |
| 2011 | - | 256 | 538 | 755 | 57 | 83 | 80 | 202 | 235 |  | 2,206 |
| 2012 | - | 315 | 784 | 510 | 96 | 298 | 320 | 267 | 121 |  | 2,711 |
| 2013 | - | 506 | 563 | 456 | 337 | 1,626 | 1,055 | 742 | 155 | - | 5,440 |
| 2014 | - | 473 | 929 | 1,052 | 648 | 1,183 | 310 | 171 | 98 | - | 4,864 |
| 2015 | - | 967 | 924 | 770 | 484 | 232 | 72 | 166 | 158 |  | 3,773 |
| 2016 | - | 178 | 170 | 260 | 146 | 75 | 58 | 119 | 41 |  | 1,047 |
| $2017{ }^{\text {b/ }}$ | - | - | - | - | - | - | - | 114 | 41 | - | 155 |


| Year or Average | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brookings |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 3 | 8 | 40 | 81 | 98 | 94 | 84 | 108 | 13 | - | 439 |
| 2006 | - | - | - | - | - | - | 6 | 151 | 27 | - | 184 |
| 2007 | - | 6 | 8 | 138 | 99 | 95 | 60 | 47 | 12 | - | 465 |
| 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 | - | 13 | 3 | 107 | 284 | 208 | 40 | 52 | - | - | 707 |
| 2014 | - | 10 | 471 | 82 | 38 | 70 | 21 | 78 | - | - | 770 |
| 2015 | - | 12 | 150 | 100 | 90 | 24 | - | 144 | - | - | 520 |
| 2016 | - | 7 | 13 | 47 | 8 | - | - | 52 | - | - | 127 |
| $2017{ }^{\text {b/ }}$ | - | - | - | - | - | - | - | 109 | - | - | 109 |
| South of C |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 689 | 1,215 | 2,342 | 2,058 | 1,015 | 1,725 | 1,757 | 1,321 | 168 | 25 | 11,629 |
| 2006 | - | - | - | 1,017 | 483 | 185 | 627 | 874 | 306 | 26 | 3,518 |
| 2007 | - | 348 | 1,189 | 912 | 364 | 1,246 | 363 | 291 | 174 | - | 4,887 |
| 2008 | - | - | - | - | - | - | 37 | 63 | 48 | - | 148 |
| 2009 | - | - | - | - | - | - | 634 | 60 | - | - | 694 |
| 2010 | - | - | 1,058 | 987 | 594 | 759 | 37 | 229 | - | - | 3,664 |
| 2011 | - | 316 | 948 | 1,140 | 108 | 293 | 122 | 301 | 235 | - | 3,463 |
| 2012 | - | 522 | 1,457 | 1,054 | 336 | 699 | 930 | 721 | 121 | - | 5,840 |
| 2013 | - | 1,042 | 1,137 | 878 | 802 | 2,355 | 1,385 | 945 | 155 | - | 8,699 |
| 2014 | - | 962 | 2,572 | 1,800 | 1,100 | 2,225 | 763 | 367 | 98 | - | 9,887 |
| 2015 | - | 1,767 | 1,712 | 1,349 | 1,365 | 812 | 367 | 381 | 158 | - | 7,911 |
| 2016 | - | 895 | 846 | 682 | 550 | 634 | 330 | 189 | 41 | - | 4,167 |
| $2017{ }^{\text {b/ }}$ | - | 106 | 183 | 391 | 655 | - | 88 | 246 | 41 | - | 1,710 |



ㄹ $\quad$ a/ Summary of ODFW fish receiving ticket information. Beginning in 1979, monthly totals are the sum of statistical w eeks 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 follow ing port areas: Astoria area includes Oregon ports from Astoria through Cannon Beach; Tillamook area includes Nehalem through Pacific City; New port 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-w aters only terminal area fisheries.
b/ Preliminary.

| $\begin{aligned} & \text { D } \\ & \stackrel{\text { D }}{\Sigma} \\ & \stackrel{\text { DiD }}{~} \end{aligned}$ | TABLE A-8. Oregon commercial troll Chinook and coho salmon landings in numbers of fish by catch area and month. ${ }^{\text {a/ }}$ (Page 1 of 4) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year or Avg. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season | June | July | Aug. | Sept. | Oct. | Season |
|  |  | CHINOOK |  |  |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |
|  | Astoria |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{\bigcirc}{+}$ | 1981-1985 | - | - | 4,738 | 0 | 499 | 293 | 23 | 2 | - | - | 5,556 | - | 18,828 | 11,874 | 2,543 | - | 21,305 |
| O | 1986-1990 | - | - | 1,791 | 363 | 2,225 | 1,172 | 765 | 71 | - | - | 3,477 | - | 7,390 | 21,733 | 6,281 | 304 | 21,364 |
| $\checkmark$ | 1991-1995 | - | - | 318 | 322 | 78 | 187 | 88 | - | - | - | 937 | - | 435 | 7,655 | 3,007 | - | 9,949 |
| $\bigcirc$ | 1996-2000 | - | - | 9 | 64 | - | 1,951 | 49 | - | - | - | 572 | - | - | 11,600 | 658 | - | 12,258 |
| (\%) | 2001-2005 | - | - | 2,633 | 1,402 | 1,445 | 2,329 | 478 | - | - | - | 8,095 | - | 1,524 | 2,472 | 3,430 | - | 5,749 |
| ) | 2006 | - | - | 7,167 | 3,168 | 1 | 61 | 92 | - | - | - | 10,489 | - | 10 | 915 | 489 | - | 1,414 |
| 0 | 2007 | - | - | 777 | 374 | 115 | 163 | 14 | - | - | - | 1,443 | - | 1,062 | 10,335 | 157 | - | 11,554 |
| $\frac{0}{3}$ | 2008 | - | - | 2,616 | 2,508 | 129 | 161 | 20 | - | - | - | 5,434 | - | 49 | 356 | 29 | - | 434 |
| $\bigcirc$ | 2009 | - | - | 119 | 232 | 240 | 117 | 4 | - | - | - | 712 | - | 9,061 | 3,458 | 165 | - | 12,684 |
| $\bigcirc$ | 2010 | - | - | 580 | 6,652 | 2,121 | 1,657 | 110 | - | - | - | 11,120 | - | 637 | 368 | 35 | - | 1,040 |
| $\cdots$ | 2011 | - | - | 1,057 | 1,400 | 114 | 239 | 26 | - | - | - | 2,836 | - | 234 | 147 | 83 | - | 464 |
| $\stackrel{\rightharpoonup}{\text { (1) }}$ | 2012 | - | - | 1,034 | 5,366 | 210 | 149 | 1,685 | - | - | - | 8,444 | - | 38 | 35 | 551 | - | 624 |
| $\stackrel{\rightharpoonup}{0}$. | 2013 | - | - | 432 | 704 | 136 | 279 | 394 | - | - | - | 1,945 | - | 39 | 295 | 118 | - | 452 |
| $\propto$ | 2014 | - | - | 12,804 | 725 | 2,282 | 175 | 196 | - | - | - | 16,182 | - | 2,428 | 1,570 | 3,704 | - | 7,702 |
|  | 2015 | - | - | 6,806 | 1,527 | 1,293 | 700 | 556 | - | - | - | 10,882 | - | 328 | 411 | 1,474 | - | 2,213 |
|  | 2016 | - | - | 519 | 743 | 169 | 627 | - | - | - | - | 2,058 | - | - | - | - | - | - |
|  | $2017{ }^{\text {b/ }}$ | - | - | 1,080 | 652 | 50 | 611 | 234 | - | - | - | 2,627 | - | 16 | 305 | 149 | - | 470 |
| $\stackrel{\rightharpoonup}{\infty}$ | Tillamook |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 | - | - | - | - | - | - |
|  | 2001-2005 | 1,881 | 888 | 5,198 | 6,484 | 2,709 | 3,511 | 3,416 | 3,074 | 31 | - | 25,572 | - | - | - | - | - | - |
|  | 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 | - | - | - | 3,490 | - | 3,490 |
|  | 2010 | - | - | 108 | 2,466 | 931 | 72 | 56 | 15 | - | - | 3,648 | - | - | - | - | - | - |
|  | 2011 | - | 1 | 130 | 615 | 174 | 52 | 114 | 20 | - | - | 1,106 | - | - | - | - | - | - |
|  | 2012 | - | 440 | 1,492 | 441 | 178 | 55 | 1,146 | 3,645 | - | - | 7,397 | - | - | - | - | - | - |
|  | 2013 | - | 1,391 | 349 | 144 | 380 | 2,869 | 3,461 | 286 | - | - | 8,880 | - | - | - | - | - | - |
|  | 2014 | - | 20 | 1,133 | 2,640 | 593 | 246 | 2,355 | 22 | - | - | 7,009 | - | - | - | 1,104 | - | 1,104 |
|  | 2015 | - | 205 | 4,114 | 3,118 | 96 | 186 | 807 | 319 | - | - | 8,845 | - | - | - | - | - | - |
|  | 2016 | - | 167 | 185 | 515 | 16 | 23 | 135 | 26 | - | - | 1,067 | - | - | - | - | - | - |
|  | $2017{ }^{\text {b/ }}$ | - | 6 | 325 | 224 | 17 | - | 112 | 33 | - | - | 717 | - | - | - | - | - | - |
| $\begin{aligned} & D \\ & \frac{D}{O} \\ & \frac{D}{D} \\ & \frac{2}{\bar{x}} \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $D$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| $\stackrel{(1)}{\square}$ | Year or Avg. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| © |  | CHINOOK |  |  |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |
| $\bigcirc$ | New port |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N | 1981-1985 | - | - | 6,292 | 2,256 | 11,737 | 5,174 | 959 | 1,476 | 111 | - | 27,917 | - | 75,337 | 66,674 | 4,161 | - | 109,715 |
| $\bigcirc$ | 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 |
| $\checkmark$ | 1991-1995 | - | - | 11,091 | 14,000 | 14,613 | 29,112 | 11,702 | 10,884 | - | - | 76,934 | 58,218 | 24,704 | 7,972 | - | - | 41,190 |
| $\bigcirc$ | 1996-2000 | - | - | 17,947 | 16,800 | 3,786 | 24,729 | 12,138 | 4,150 | - | - | 81,290 | - | - | - | - | - | - |
| (1) | 2001-2005 | 5,438 | 7,253 | 23,241 | 18,832 | 10,415 | 20,541 | 26,687 | 20,998 | - | - | 126,126 | - | - | - | - | - | - |
| $\stackrel{1}{J}$ | 2006 | - | - | - | 8,397 | 3,556 | 923 | 3,852 | 1,528 | 639 | - | 18,895 | - | - | - | - | - | - |
| $\bigcirc$ | 2007 | - | 279 | 1,553 | 1,427 | 323 | 338 | 88 | 54 | 2 | - | 4,064 | - | - | 1,607 | 276 | - | 1,883 |
| $\frac{0}{3}$ | 2008 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 윽 | 2009 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5,105 | - | 5,105 |
| 7 | 2010 | - | - | 3,950 | 3,513 | 2,505 | 2,409 | - | - | - | - | 12,377 | - | - | - | - | - | - |
| $\bar{\sigma}$ | 2011 | - | 378 | 2,357 | 1,477 | 192 | 561 | - | 15 | - | - | 4,980 | - | - | - | - | - | - |
| $\stackrel{\rightharpoonup}{\text { © }}$ | 2012 | - | 1,090 | 4,408 | 2,578 | 998 | 5,819 | 8,550 | 3,169 | - | - | 26,612 | - | - | - | - | - | - |
| $\stackrel{7}{\text { ® }}$ | 2013 | - | 2,186 | 3,436 | 1,740 | 1,443 | 5,569 | 865 | 461 | - | - | 15,700 | - | - | - | - | - | - |
| の | 2014 | - | 9,078 | 18,829 | 8,108 | 6,348 | 36,167 | 3,658 | 934 | - | - | 83,122 | - | - | - | 1,222 | - | 1,222 |
|  | 2015 | - | 7,286 | 2,240 | 2,503 | 18,472 | 5,544 | 813 | - | - | - | 36,858 | - | - | - | - | - | - |
|  | 2016 | - | 5,610 | 5,044 | 1,948 | 9,188 | 8,063 | 1,426 | 2 | - | - | 31,281 | - | - | - | - | - | - |
|  | $2017{ }^{\text {b/ }}$ | - | 547 | 904 | 2,950 | 13,002 | - | 25 | 10 | - | - | 17,438 | - | - | - | - | - | - |
| $\vec{\rightharpoonup}$ | Coos Bay |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |
|  | 2001-2005 | 7,479 | 17,217 | 21,669 | 20,217 | 7,753 | 26,693 | 18,998 | 8,507 | 1,276 | 148 | 117,529 | - | - | - | - | - | - |
|  | 2006 | - | - | - | - | - | - | 65 | 962 | 821 | 131 | 1,979 | - | - | - | - | - | - |
|  | 2007 | - | 1,563 | 3,018 | 2,114 | 1,430 | 11,963 | 489 | 504 | 621 | 3 | 21,705 | - | - | 2,234 | 159 | - | 2,393 |
|  | 2008 | - | - | - | - | - | - | - | - | 208 | - | 208 | - | - | - | - | - | - |
|  | 2009 | - | - | - | - | - | - | - | 293 | - | - | 293 | - | - | - | 683 | - | 683 |
|  | 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 | 8,633 | 4,338 | 609 | 2,897 | 3,981 | 1,942 | 701 | - | 25,204 | - | - | - | - | - | - |
|  | 2013 | - | 3,796 | 5,308 | 4,103 | 3,508 | 30,097 | 23,925 | 7,677 | 1,002 | - | 79,416 | - | - | - | - | - | - |
|  | 2014 | - | 6,403 | 15,427 | 17,812 | 11,385 | 30,187 | 2,838 | 1,116 | 469 | - | 85,637 | - | - | - | 970 | - | 970 |
|  | 2015 | - | 8,890 | 6,786 | 14,182 | 8,682 | 1,727 | 386 | 1,635 | 1,163 | - | 43,451 | - | - | - | - | - | - |
|  | 2016 | - | 808 | 760 | 2,273 | 2,039 | 541 | 251 | 689 | 182 | - | 7,543 | - | - | - | - | - | - |
|  | $2017{ }^{\text {b/ }}$ | - | - | - | 2,273 | - | - | - | 635 | 96 | - | 731 | - | - | - | - | - | - |
| $\begin{aligned} & \frac{D}{0} \\ & \frac{0}{0} \\ & \frac{D}{2} \\ & \frac{2}{x} \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| > |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| (1) | Year or Avg. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| © |  | CHINOOK |  |  |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |
| $\bigcirc$ | Brookings |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\cdots$ | 1981-1985 | - | - | 1,782 | 1,845 | 10,357 | 20,079 | 3,952 | 3,495 | 1,113 | - | 42,623 | - | 15,830 | 35,594 | - | - | 24,728 |
| $\bigcirc$ | 1986-1990 | - | - | 5,087 | 16,802 | 9,562 | 8,706 | 2,844 | 963 | 1,460 | - | 28,825 | 4,594 | 7,121 | - | - | - | 6,375 |
| $\checkmark$ | 1991-1995 | - | - | 265 | - | 1,682 | 234 | 210 | 1,191 | - | - | 1,679 | - | - | - | - | - | - |
| $\bigcirc$ | 1996-2000 | - | - | 1,064 | - | - | 1,049 | 665 | 696 | - | - | 3,542 | - | - | - | - | - | - |
| (1) | 2001-2005 | 25 | 63 | 425 | 1,156 | 1,615 | 1,434 | 1,211 | 543 | 66 | - | 5,245 | - | - | - | - | - | - |
| $\stackrel{1}{3}$ | 2006 | - | - | - | - | - | - | 12 | 590 | 136 | - | 738 | - | - | - | - | - | - |
| $\propto$ | 2007 | - | 15 | 25 | 727 | 1,150 | 1,524 | 400 | 209 | 47 | - | 4,097 | - | - | - | - | - | - |
| $\frac{1}{3}$ | 2008 | - | - | - | - | - | - | - | 236 | - | - | 236 | - | - | - | - | - | - |
| 윽 | 2009 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 | 2010 | - | - | 164 | - | 51 | 125 | - | 529 | - | - | 869 | - | - | - | - | - | - |
| $\bar{\sigma}$ | 2011 | - | - | 601 | 254 | 27 | 337 | - | 107 | - | - | 1,326 | - | - | - | - | - | - |
| $\stackrel{\rightharpoonup}{\text { D }}$ | 2012 | - | - | 371 | 1,287 | 1,456 | 1,328 | 884 | 118 | - | - | 5,444 | - | - | - | - | - | - |
| $\stackrel{7}{\square}$ | 2013 | - | 50 | 7 | 1,450 | 3,171 | 1,848 | 135 | 155 | - | - | 6,816 | - | - | - | - | - | - |
| の | 2014 | - | 53 | 13,352 | 1,349 | 492 | 403 | 54 | 443 | - | - | 16,146 | - | - | - | - | - | - |
|  | 2015 | - | 39 | 1,146 | 1,528 | 779 | 92 | - | 639 | - | - | 4,223 | - | - | - | - | - | - |
|  | 2016 | - | 12 | 34 | 179 | 21 | - | - | 152 | - | - | 398 | - | - | - | - | - | - |
|  | $2017{ }^{\text {b/ }}$ | - | - | - | - | - | - | - | 329 | - | - | 329 | - | - | - | - | - | - |
| $\cdots$ | South of Cape Falcon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |
|  | 2001-2005 | 14,823 | 25,409 | 50,447 | 42,413 | 22,088 | 52,179 | 50,313 | 33,123 | 1,347 | 148 | 274,472 | - | - | - | - | - | - |
|  | 2006 | - | - | - | 9,550 | 3,616 | 962 | 4,379 | 4,039 | 1,691 | 131 | 24,368 | - | - | - | - | - | - |
|  | 2007 | - | 1,871 | 7,353 | 5,190 | 2,909 | 13,884 | 1,113 | 1,004 | 717 | 3 | 34,044 | - | - | 5,036 | 519 | - | 5,555 |
|  | 2008 | - | - | - | - | - | - | 64 | 248 | 208 | - | 520 | - | - | - | - | - | - |
|  | 2009 | - | - | - | - | - | - | 105 | 332 | - | - | 437 | - | - | - | 9,278 | - | 9,278 |
|  | 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 | 8,644 | 3,241 | 10,099 | 14,561 | 8,874 | 701 | - | 64,657 | - | - | - | - | - | - |
|  | 2013 | - | 7,423 | 9,100 | 7,437 | 8,502 | 40,383 | 28,386 | 8,579 | 1,002 | - | 110,812 | - | - | - | - | - | - |
|  | 2014 | - | 15,554 | 48,741 | 29,909 | 18,818 | 67,003 | 8,905 | 2,515 | 469 | - | 191,914 | - | - | - | 3,296 | - | 3,296 |
|  | 2015 | - | 16,420 | 14,286 | 21,331 | 28,029 | 7,549 | 2,006 | 2,593 | 1,163 | - | 93,377 | - | - | - | - | - | - |
|  | 2016 | - | 6,597 | 6,023 | 4,915 | 11,264 | 8,627 | 1,812 | 869 | 182 | - | 40,289 | - | - | - | - | - | - |
|  | $2017{ }^{\text {b/ }}$ | - | 553 | 1,229 | 3,174 | 13,019 | - | 137 | 1,007 | 96 | - | 19,215 | - | - | - | - | - | - |
| $\begin{aligned} & \frac{D}{0} \\ & \frac{0}{D} \\ & \frac{D}{\partial} \\ & \frac{2}{x} \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| > |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Year or Avg. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHINOOK |  |  |  |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |
| Statewide Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 14,823 | 25,409 | 53,080 | 43,815 | 19,115 | 44,072 | 50,600 | 33,123 | 1,347 | 148 | 282,567 | - | 1,524 | 2,472 | 3,430 | - | 5,749 |
| 2006 | - | - | 7,167 | 12,718 | 3,617 | 1,023 | 4,471 | 4,039 | 1,691 | 131 | 34,857 | - | 10 | 915 | 489 | - | 1,414 |
| 2007 | - | 1,871 | 8,130 | 5,564 | 3,024 | 14,047 | 1,127 | 1,004 | 717 | 3 | 35,487 |  | 1,062 | 15,371 | 676 |  | 17,109 |
| 2008 | - | - | 2,616 | 2,508 | 129 | 161 | 84 | 248 | 208 | - | 5,954 | - | 49 | 356 | 29 | - | 434 |
| 2009 | - | - | 119 | 232 | 240 | 117 | 109 | 332 | - |  | 1,149 | - | 9,061 | 3,458 | 9,443 | - | 21,962 |
| 2010 | - | - | 9,763 | 15,618 | 6,448 | 5,579 | 166 | 1,859 | - | - | 39,433 | - | 637 | 368 | 35 | - | 1,040 |
| 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 | 14,010 | 3,451 | 10,248 | 16,246 | 8,874 | 701 | - | 73,101 | - | 38 | 35 | 551 | - | 624 |
| 2013 | - | 7,423 | 9,532 | 8,141 | 8,638 | 40,662 | 28,780 | 8,579 | 1,002 | - | 112,757 | - | 39 | 295 | 118 | - | 452 |
| 2014 | - | 15,554 | 61,545 | 30,634 | 21,100 | 67,178 | 9,101 | 2,515 | 469 | - | 208,096 | - | 2,428 | 1,570 | 7,000 | - | 10,998 |
| 2015 | - | 16,420 | 21,092 | 22,858 | 29,322 | 8,249 | 2,562 | 2,593 | 1,163 | - | 104,259 | - | 328 | 411 | 1,474 | - | 2,213 |
| 2016 | - | 6,597 | 6,542 | 5,658 | 11,433 | 9,254 | 1,812 | 869 | 182 | - | 42,347 | - | - | - | - | - |  |
| $2017^{\text {b/ }}$ | - | 553 | 2,309 | 3,826 | 13,069 | 611 | 371 | 1,007 | 96 | - | 21,842 | - | 16 | 305 | 149 | - | 470 |

$\mathrm{a} /$ 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 area of catch beginning in 1979. Catch and landing areas include the follow ing port areas: Astoria area includes Oregon ports from Astoria through Cannon Beach; Tillamook area includes Nehalem through Pacific City; New port 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-w aters only terminal area fisheries.
b/ Preliminary.

| $\stackrel{1}{\square}$ | Year or Average | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\stackrel{\text { ® }}{ }$ | Astoria |  |  |  |  |  |  |  |  |  |  |
| $\bigcirc$ | 1981-1985 | - | - | 977 | 3,269 | 11,837 | 9,897 | 4,192 | - | - | 26,221 |
| $\xrightarrow{\sim}$ | 1986-1990 | - | - | 146 | 1,110 | 8,890 | 9,559 | 1,423 | - | - | 17,740 |
| $\bigcirc$ | 1991-1995 | - | - | - | 1,496 | 6,681 | 6,695 | 2,084 | - | - | 15,833 |
| $\checkmark$ | 1996-2000 | - | - | - | - | 2,457 | 2,909 | 946 | - | - | 5,442 |
| $\bigcirc$ | 2001-2005 | - | - | 155 | 260 | 4,788 | 10,258 | 2,041 | - | - | 17,275 |
| $\stackrel{1}{1}$ | 2006 | - | - | - | - | 1,711 | 5,769 | 762 | - | - | 8,242 |
| $\bigcirc$ | 2007 | - | - | - | - | 2,548 | 8,849 | 989 | - | - | 12,386 |
| 0 | 2008 | - | - | 66 | 498 | 1,875 | 1,215 | - | - | - | 3,654 |
| \% | 2009 | - | - | - | 85 | 5,698 | 6,097 | 370 | - | - | 12,250 |
| $\bigcirc$ | 2010 | - | - | - | 306 | 2,211 | 6,996 | 741 | - | - | 10,254 |
| T | 2011 | - | - | - | 459 | 1,402 | 4,645 | 877 | - | - | 7,383 |
| $\stackrel{\text { ® }}{ }$ | 2012 | - | - | - | 681 | 1,792 | 1,954 | 411 | - | - | 4,838 |
| $\stackrel{\text { ¢ }}{\text { ¢ }}$ | 2013 | - | - | - | 1,593 | 1,329 | 2,912 | 302 | - | - | 6,136 |
|  | 2014 | - | - | 42 | 708 | 3,579 | 6,279 | 1,647 | - | - | 12,255 |
|  | 2015 | - | - | 62 | 699 | 2,723 | 3,092 | 2,053 | - | - | 8,629 |
|  | 2016 | - | - | - | - | 1,920 | 2,412 | - | - | - | 4,332 |
|  | $2017{ }^{\text {b/ }}$ | - | - | - | 587 | 2,697 | 5,284 | - | - | - | 8,568 |
| ज | Tillamook |  |  |  |  |  |  |  |  |  |  |
|  | 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 |
|  | 2001-2005 | 19 | 35 | 441 | 2,043 | 8,269 | 3,897 | 4,170 | 3,017 | 182 | 22,064 |
|  | 2006 | 2 | 16 | 385 | 1,334 | 3,299 | 497 | 5,292 | 4,988 | 98 | 15,911 |
|  | 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 | 2 | 78 | 369 | 647 | 3,166 | 2,605 | 3,326 | 3,942 | - | 14,135 |
|  | 2014 | 0 | 7 | 1,052 | 1,110 | 9,027 | 4,657 | 8,066 | 1,305 | - | 25,224 |
|  | 2015 | 0 | 42 | 919 | 485 | 3,259 | 2,097 | 6,463 | 2,217 | - | 15,482 |
|  | 2016 | 14 | 4 | 838 | 1,578 | 1,657 | 855 | 5,505 | 530 | - | 10,981 |
| $\begin{aligned} & \frac{0}{0} \\ & \frac{D}{2} \\ & \frac{2}{x} \\ & \gg \end{aligned}$ | $2017{ }^{\text {b/ }}$ | 0 | 12 | 335 | 692 | 2,161 | 2,039 | 3,100 | 292 | - | 8,631 |


| Year or Average | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New port |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 20 | 77 | 235 | 3,896 | 13,532 | 6,509 | 2,064 | 397 | - | 26,723 |
| 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 | 354 | 441 | 204 | 425 | 5,037 | 4,073 | 4,606 | 188 | - | 15,328 |
| 2014 | 87 | 83 | 492 | 2,235 | 15,116 | 9,307 | 9,804 | 63 | - | 37,187 |
| 2015 | 48 | 76 | 136 | 716 | 9,102 | 2,369 | 5,680 | 75 | - | 18,202 |
| 2016 | 50 | 9 | 41 | 647 | 2,448 | 1,037 | 3,886 | 75 | - | 8,193 |
| $2017{ }^{\text {b/ }}$ | 0 | 0 | 12 | 299 | 4,528 | 2,751 | 2,603 | 89 | - | 10,282 |
| Coos Bay |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 24 | 100 | 783 | 6,477 | 16,186 | 8,250 | 2,564 | 117 | -- | 34,491 |
| 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 | 123 | 174 | 338 | 2,898 | 3,011 | 19,299 | 3,901 | 84 | -- | 29,828 |
| 2014 | 0 | 46 | 691 | 1,906 | 8,659 | 11,899 | 6,518 | 53 | -- | 29,772 |
| 2015 | 12 | 34 | 327 | 1,149 | 5,664 | 3,060 | 4,443 | 82 | -- | 14,771 |
| 2016 | 18 | 5 | 158 | 574 | 2,277 | 2,943 | 5,188 | 7 | -- | 11,170 |
| $2017{ }^{\text {b/ }}$ | 17 | 48 | 153 | 925 | 3,368 | 4,593 | 3,640 | 72 | -- | 12,816 |


| Year or Average | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brookings |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | - | - | 1,595 | 3,138 | 3,059 | 7,048 | 2,192 | 3,145 | - | 20,177 |
| 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 | - | - | 289 | 2,259 | 6,658 | 7,147 | 208 | 3,547 | - | 20,108 |
| 2014 | - | - | 1,437 | 1,466 | 5,557 | 3,723 | 246 | 4,639 | - | 17,068 |
| 2015 | - | - | 305 | 424 | 1,492 | 574 | 1,120 | 5,040 | - | 8,955 |
| 2016 | - | - | 44 | 467 | 717 | 190 | 898 | 1,872 | - | 4,188 |
| $2017{ }^{\text {b/ }}$ | - | - | - | - | - | - | - | 2,012 | - | 2,012 |
| South of Cape Falcon |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 63 | 212 | 3,123 | 15,737 | 40,575 | 23,882 | 11,307 | 6,514 | 182 | 101,571 |
| 2006 | 24 | 92 | 1,414 | 7,575 | 19,050 | 3,817 | 13,560 | 8,449 | 98 | 54,079 |
| 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 | 479 | 693 | 1,200 | 6,229 | 17,872 | 33,124 | 12,041 | 7,761 | -- | 79,399 |
| 2014 | 87 | 136 | 3,672 | 6,717 | 38,359 | 29,586 | 24,634 | 6,060 | -- | 109,251 |
| 2015 | 60 | 152 | 1,687 | 2,774 | 19,517 | 8,100 | 17,706 | 7,414 | -- | 57,410 |
| 2016 | 82 | 18 | 1,081 | 3,266 | 7,099 | 5,025 | 15,477 | 2,484 | -- | 34,532 |
| $2017{ }^{\text {b/ }}$ | 17 | 60 | 500 | 1,916 | 10,057 | 9,383 | 9,343 | 2,465 | -- | 33,741 |


| Year or Average | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total All Areas |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 63 | 212 | 3,154 | 15,893 | 45,363 | 34,140 | 13,348 | 6,515 | 182 | 118,845 |
| 2006 | 24 | 92 | 1,414 | 7,575 | 20,761 | 9,586 | 14,322 | 8,449 | 98 | 62,321 |
| 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 | 479 | 693 | 1,200 | 7,822 | 19,201 | 36,036 | 12,343 | 7,761 | -- | 85,535 |
| 2014 | 87 | 136 | 3,714 | 7,425 | 41,938 | 35,865 | 26,281 | 6,060 | -- | 121,506 |
| 2015 | 60 | 152 | 1,749 | 3,473 | 22,240 | 11,192 | 19,759 | 7,414 | -- | 66,039 |
| 2016 | 82 | 18 | 1,081 | 3,266 | 9,019 | 7,437 | 15,477 | 2,484 | -- | 38,864 |
| $2017{ }^{\text {b/ }}$ | 17 | 60 | 500 | 2,503 | 12,754 | 14,667 | 9,343 | 2,465 | -- | 42,309 |

$\stackrel{\rightharpoonup}{\sim} \quad$ a/ Monthly totals are the sum of statistical w eeks with closest fit to the calendar month. Since 1981, data from sampled ports only. Effort consists of salmon angler trips only, Astoria area includes Astoria, Warrenton, and Hammond; Tillamook area includes Garibaldi and Pacific City; New port area includes Depoe Bay and New port; Coos Bay area includes Florence, Winchester Bay, and Coos Bay; Brookings area includes Gold Beach and Brookings. Values include state-w aters only terminal area fisheries.
b/ Preliminary.

| (1) | Year or Average | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| © | CHINOOK |  |  |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |
| $\Sigma$ | Astoria |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 은 | 1981-1985 | - | - | 29 | 922 | 2,427 | 1,902 | 729 | - | - | 5,364 | 1,699 | 4,463 | 16,455 | 11,211 | 5,509 | - | 33,780 |
| N | 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 |
| $\bigcirc$ | 2001-2005 | - | - | 33 | 127 | 774 | 1,605 | 241 | 3 | - | 2,704 | - | 212 | 6,991 | 14,070 | 2,020 | - | 23,165 |
| 1 | 2006 | - | - | - | - | 81 | 370 | 58 | - | - | 509 | - | - | 1,616 | 3,560 | 235 | - | 5,411 |
| $\checkmark$ | 2007 | - | - | - | - | 81 | 457 | 56 | - | - | 594 | - | - | 3,812 | 13,807 | 778 | - | 18,397 |
| 0 | 2008 | - | - | 17 | 152 | 343 | 305 | - | - | - | 817 | - | 101 | 1,108 | 982 | - | - | 2,191 |
| $\overline{3}$ | 2009 | - | - | - | 4 | 422 | 543 | 11 | - | - | 980 | - | 138 | 9,593 | 9,330 | 358 | - | 19,419 |
| 을 | 2010 | - | - | - | 37 | 388 | 1,321 | 66 | - | - | 1,812 | - | 12 | 1,479 | 4,404 | 213 | - | 6,108 |
| 7 | 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 |
| $\stackrel{\square}{\text { ¢ }}$ | 2013 | - | - | - | 731 | 323 | 792 | 72 | - | - | 1,918 | - | 1,143 | 991 | 1,706 | 173 | - | 4,013 |
| $\stackrel{7}{\square}$. | 2014 | - | - | 21 | 150 | 628 | 1,402 | 105 | - | - | 2,306 | - | 391 | 5,030 | 8,503 | 2,816 | - | 16,740 |
| $\omega$ | 2015 | - | - | 28 | 259 | 434 | 1,030 | 1,006 | - | - | 2,757 | - | 732 | 3,764 | 2,872 | 1,472 | - | 8,840 |
|  | 2016 | - | - | - | - | 653 | 387 | - | - | - | 1,040 | - | - | 915 | 1,739 | - | - | 2,654 |
|  | $2017{ }^{\text {b/ }}$ | - | - | - | 330 | 567 | 1,011 | - | - | - | 1,908 | - | 13 | 2,249 | 4,308 | - | - | 6,570 |
|  | Tillamook |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{\square}{7}$ | 1981-1985 | - | 0 | 18 | 28 | 790 | 582 | 117 | 42 | - | 1,533 | 89 | 855 | 10,321 | 8,671 | 766 | 3 | 20,171 |
| ヲ | 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 |
|  | 1996-2000 | - | - | 70 | 10 | 65 | 31 | 502 | 494 | -- | 1,188 | - | - | 976 | 6 | 9 | - | 602 |
|  | 2001-2005 | 6 | 4 | 51 | 331 | 1,890 | 1,240 | 1,181 | 939 | 31 | 5,668 | 2 | 1,663 | 7,354 | 2,212 | 66 | 20 | 10,979 |
|  | 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 | 0 | 21 | 28 | 82 | 189 | 156 | 709 | 712 | - | 1,897 | - | - | 2,034 | 777 | 812 | 12 | 3,635 |
|  | 2014 | 0 | 0 | 84 | 16 | 385 | 236 | 703 | 111 | - | 1,535 | - | 641 | 10,479 | 5,817 | 9,692 | 49 | 26,678 |
|  | 2015 | 0 | 2 | 88 | 26 | 63 | 140 | 1,677 | 1,437 | - | 3,433 | - | 37 | 2,453 | 1,465 | 1,000 | 19 | 4,974 |
|  | 2016 | 0 | 0 | 124 | 179 | 30 | 131 | 687 | 70 | - | 1,221 | - | 158 | 188 | 2 | 1,426 | 22 | 1,796 |
|  | $2017{ }^{\text {b/ }}$ | 0 | 0 | 76 | 80 | 89 | 141 | 424 | 35 | - | 845 | - | 86 | 901 | 1,440 | 1,252 | - | 3,679 |


| $\stackrel{(1)}{ }$ | Year or Average | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| © |  | CHINOOK |  |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |
| $\bigcirc$ | New port |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\xrightarrow{+}$ | 1981-1985 | - | - | 18 | 344 | 1,462 | 942 | 89 | -- | - | 2,706 | 126 | 3,484 | 22,849 | 19,232 | 2,241 | - | 46,040 |
| $\bigcirc$ | 1986-1990 | - | - | 68 | 497 | 1,687 | 1,029 | 601 | - | - | 3,649 | 662 | 9,013 | 46,079 | 23,917 | 3,429 | - | 82,281 |
| $\checkmark$ | 1991-1995 | - | - | 44 | 143 | 1,155 | 507 | 65 | 28 | - | 1,113 | 31 | 8,315 | 36,626 | 11,925 | 1,119 | - | 40,251 |
| $\bigcirc$ | 1996-2000 | - | - | 26 | 44 | 262 | 408 | 95 | 3 | - | 837 | - | - | 8,151 | 30 | 7 | - | 3,286 |
| (\%) | 2001-2005 | 0 | 25 | 79 | 475 | 3,829 | 3,126 | 1,445 | 375 | - | 9,354 | 2 | 3,466 | 12,245 | 4,402 | 79 | 2 | 19,484 |
| $\bigcirc$ | 2006 | 2 | 1 | 17 | 77 | 326 | 41 | 128 | 80 | - | 672 | - | 101 | 3,970 | 10 | 473 | - | 4,554 |
| $\cdots$ | 2007 | 1 | 0 | 13 | 82 | 150 | 163 | 28 | 0 | 16 | 453 | - | 2,715 | 6,516 | 5,982 | 175 | - | 15,388 |
| 0 | 2008 | - | - | - | - | 3 | - | - | - | - | 3 | - | 106 | 865 | 1,820 | - | - | 2,791 |
| 3 | 2009 | - | - | - | 2 | 6 | 25 | - | - | - | 33 | - | 2,564 | 17,733 | 14,694 | 447 | - | 35,438 |
| 윽 | 2010 | - | - | 55 | 52 | 135 | 474 | 88 | - | - | 804 | - | 27 | 551 | 6,283 | 966 | - | 7,827 |
| 끈 | 2011 | 0 | 6 | 21 | 44 | 111 | 52 | 234 | - | - | 468 | - | 179 | 1,703 | 385 | 3,680 | - | 5,947 |
| $\stackrel{\square}{\square}$ | 2012 | 21 | 95 | 60 | 56 | 223 | 481 | 1,034 | 27 | - | 1,997 | - | 11 | 1,046 | 2,796 | 4,727 | - | 8,580 |
| © | 2013 | 231 | 123 | 28 | 126 | 498 | 251 | 305 | 76 | - | 1,638 | - | - | 2,648 | 1,779 | 1,517 | 7 | 5,951 |
| © | 2014 | 10 | 23 | 113 | 43 | 723 | 606 | 431 | 20 | - | 1,969 | - | 2,269 | 18,001 | 11,786 | 13,547 | - | 45,603 |
|  | 2015 | 30 | 3 | 45 | 32 | 151 | 39 | 393 | 14 | - | 707 | - | 213 | 6,755 | 1,011 | 1,695 | 3 | 9,677 |
|  | 2016 | 28 | 5 | 2 | 14 | 117 | 348 | 135 | 6 | - | 655 | - | 29 | 582 | 18 | 1,793 | - | 2,422 |
|  | $2017{ }^{\text {b/ }}$ | 0 | 0 | 6 | 31 | 207 | 467 | 47 | 4 | - | 762 | - | 36 | 3,419 | 1,943 | 2,192 | - | 7,590 |
|  | Coos Bay |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\vec{\top}$ | 1981-1985 | - | - | 37 | 921 | 4,075 | 1,994 | 436 | -- | -- | 7,087 | 2,106 | 13,671 | 29,455 | 13,020 | 1,699 | -- | 53,301 |
| $\checkmark$ | 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 |
|  | 2001-2005 | 1 | 33 | 136 | 2,738 | 7,334 | 3,467 | 1,458 | 24 | -- | 15,190 | 11 | 2,357 | 8,406 | 1,264 | 34 | - | 12,066 |
|  | 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 | 26 | 52 | 135 | 1,189 | 790 | 11,479 | 657 | 4 | -- | 14,332 | - | 9 | 66 | 94 | 329 | - | 498 |
|  | 2014 | 0 | 9 | 69 | 767 | 1,865 | 2,399 | 736 | 6 | -- | 5,851 | 1 | 620 | 4,371 | 1,672 | 3,255 | - | 9,919 |
|  | 2015 | 0 | 3 | 18 | 209 | 187 | 197 | 744 | 3 | -- | 1,361 | - | 208 | 2,633 | 81 | 1,731 | - | 4,653 |
|  | 2016 | 4 | 4 | 2 | 44 | 91 | 213 | 318 | 0 | -- | 676 | - | 58 | 410 | 59 | 959 | - | 1,486 |
|  | $2017{ }^{\text {b/ }}$ | 0 | 6 | 7 | 28 | 212 | 199 | 121 | 0 | -- | 573 | - | 228 | 1,452 | 557 | 1,146 | - | 3,383 |


| (1) | Year or Average | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| © | CHINOOK |  |  |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |
| 오 | Brookings |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\bigcirc$ | 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 |
| $\bigcirc$ | 1991-1995 | - | - | 816 | 1,506 | 1,489 | 533 | 819 | 870 | - | 4,517 | 97 | 3,448 | 5,118 | 994 | 386 | 3 | 6,341 |
| $\bigcirc$ | 1996-2000 | - | - | 327 | 861 | 924 | 2,899 | 389 | 702 | - | 6,102 | 17 | 11 | 21 | 32 | 11 | 9 | 75 |
| (1) | 2001-2005 | - | - | 494 | 1,815 | 807 | 1,931 | 1,510 | 469 | - | 7,027 | - | 100 | 143 | 62 | 18 | 8 | 323 |
| $\checkmark$ | 2006 | - | - | 52 | 513 | 186 | - | 644 | 397 | - | 1,792 | 2 | 474 | 117 | - | 81 | 7 | 681 |
| 0 | 2007 | - | - | 14 | 42 | 116 | 2,000 | 343 | 535 | - | 3,050 | - | 132 | 606 | 809 | 19 | 3 | 1,569 |
| $\overline{3}$ | 2008 | - | - | - | - | - | - | - | 280 | - | 280 | - | 449 | 1,273 | 409 | - | 3 | 2,134 |
| 응 | 2009 | - | - | - | - | 9 | 23 | 163 | - | - | 195 | - | 6 | 1,123 | 59 | 9 | - | 1,197 |
| 7 | 2010 | - | - | 7 | 2 | 3 | 24 | 247 | 541 | - | 824 | - | - | 19 | 25 | 16 | - | 60 |
| $\bar{\omega}$ | 2011 | - | - | 148 | 24 | 7 | 328 | 196 | 233 | - | 936 | - | - | 12 | 8 | 8 | - | 28 |
| $\stackrel{\rightharpoonup}{\text { © }}$ | 2012 | - | - | 334 | 904 | 2,329 | 4,014 | 1,208 | 534 | - | 9,323 | - | 15 | 144 | 48 | - | 2 | 209 |
| $\stackrel{\text { ¢ }}{ }$. | 2013 | - | - | 22 | 1,815 | 4,942 | 2,836 | 20 | 814 | - | 10,449 | - | 8 | 302 | 123 | - | 6 | 439 |
| $\omega$ | 2014 | - | - | 817 | 477 | 3,341 | 1,053 | 16 | 1,115 | - | 6,819 | 3 | 31 | 528 | 5 | - | - | 567 |
|  | 2015 | - | - | 30 | 97 | 149 | 47 | 69 | 792 | - | 1,184 | - | 5 | 118 | 5 | 4 | 6 | 138 |
|  | 2016 | - | - | 0 | 82 | 72 | 3 | 59 | 287 | - | 503 | - | 11 | 36 | 3 | 2 | - | 52 |
|  | $2017{ }^{\text {b/ }}$ | - | - | - | - | - | - | - | 506 | - | 506 | - | - | - | - | - | - | - |
|  | South of Cape Falcon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\bigcirc$ | 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 |
|  | 2001-2005 | 3 | 61 | 761 | 5,358 | 13,860 | 9,764 | 5,595 | 1,807 | 31 | 37,238 | 9 | 6,560 | 28,149 | 7,940 | 177 | 25 | 42,851 |
|  | 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 | 257 | 196 | 213 | 3,212 | 6,419 | 14,722 | 1,691 | 1,606 | -- | 28,316 | - | 17 | 5,050 | 2,773 | 2,658 | 25 | 10,523 |
|  | 2014 | 10 | 32 | 1,083 | 1,303 | 6,314 | 4,294 | 1,886 | 1,252 | -- | 16,174 | 4 | 3,561 | 33,379 | 19,280 | 26,494 | 49 | 82,767 |
|  | 2015 | 30 | 8 | 181 | 364 | 550 | 423 | 2,883 | 2,246 | -- | 6,685 | - | 463 | 11,959 | 2,562 | 4,430 | 28 | 19,442 |
|  | 2016 | 32 | 9 | 128 | 319 | 310 | 695 | 1,199 | 363 | -- | 3,055 | - | 256 | 1,216 | 82 | 4,180 | 22 | 5,756 |
|  | $2017{ }^{\text {b/ }}$ | 0 | 6 | 89 | 139 | 508 | 807 | 592 | 545 | -- | 2,686 | - | 350 | 5,772 | 3,940 | 4,590 | - | 14,652 |


| $\stackrel{1}{\square}$ | Year or Average | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| © | CHINOOK |  |  |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |
| $\bigcirc$ | Total All Areas |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\xrightarrow{3}$ | 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 |
| $\bigcirc$ | 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 |
| $\checkmark$ | 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 |
| $\bigcirc$ | 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 |
| (\%) | 2001-2005 | 3 | 61 | 767 | 5,434 | 14,634 | 11,369 | 5,836 | 1,808 | 31 | 39,942 | 9 | 6,645 | 35,139 | 22,010 | 2,198 | 25 | 66,017 |
| $\stackrel{1}{3}$ | 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 |
| 0 | 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 |
| 0 | 2008 | - | - | 17 | 161 | 349 | 308 | 262 | 481 | -- | 1,578 | - | 1,320 | 5,192 | 5,522 | 45 | 6 | 12,085 |
| З | 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 |
| ㄲ․ | 2011 | 0 | 7 | 204 | 314 | 647 | 2,215 | 1,331 | 440 | 6 | 5,164 | - | 734 | 4,561 | 6,151 | 7,386 | - | 18,832 |
| $\bigcirc$ | 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 |
| (1) | 2013 | 257 | 196 | 213 | 3,943 | 6,742 | 15,514 | 1,763 | 1,606 | -- | 30,234 | - | 1,160 | 6,041 | 4,479 | 2,831 | 25 | 14,536 |
| $\bar{\infty}$ | 2014 | 10 | 32 | 1,104 | 1,453 | 6,942 | 5,696 | 1,991 | 1,252 | -- | 18,480 | 4 | 3,952 | 38,409 | 27,783 | 29,310 | 49 | 99,507 |
|  | 2015 | 30 | 8 | 209 | 623 | 984 | 1,453 | 3,889 | 2,246 | -- | 9,442 | - | 1,195 | 15,723 | 5,434 | 5,902 | 28 | 28,282 |
|  | 2016 | 32 | 9 | 128 | 319 | 963 | 1,082 | 1,199 | 363 | -- | 4,095 | - | 256 | 2,131 | 1,821 | 4,180 | 22 | 8,410 |
|  | $2017^{\text {b/ }}$ | 0 | 6 | 89 | 469 | 1,075 | 1,818 | 592 | 545 | -- | 4,594 | - | 363 | 8,021 | 8,248 | 4,590 | - | 21,222 |

a/ Monthly totals are the sum of statistical w eeks w ith closest fit to the calendar month and may include illegal catch. Data is from sampled ports only. Astoria area includes Astoria, Warrenton, and
Hammond; Tillamook area includes Garibaldi and Pacific City; New port area includes Depoe Bay and New port; Coos Bay area includes Florence, Winchester Bay, and Coos Bay; Brookings area includes
Gold Beach and Brookings. Values include state-w aters only, terminal area fisheries.
b/ 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 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | llw aco | Westport | La Push | Neah Bay ${ }^{\text {a/ }}$ | Subtotal | Oregon | California | Alaska | Total |
| DAYS FISHED |  |  |  |  |  |  |  |  |  |
| 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 | 3,475 | 100 | 0 | 3 | 3,578 |
| 1996-2000 | 20 | 128 | 55 | 235 | 431 | 30 | 0 | 0 | 460 |
| 2001-2005 | 82 | 593 | 195 | 454 | 1,324 | 30 | 0 | 0 | 1,354 |
| 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 | 130 | 1,498 | 435 | 245 | 2,308 | - | - | 0 | 2,308 |
| 2014 | 394 | 791 | 716 | 121 | 2,022 | - | - | 0 | 2,022 |
| 2015 | 275 | 1,447 | 657 | 266 | 2,645 | - | - | 0 | 2,645 |
| 2016 | 188 | 881 | 411 | 148 | 1,628 | - | - | 0 | 1,628 |
| $2017{ }^{\text {b/ }}$ | 93 | 1,411 | 502 | 367 | 2,373 | - | - | 0 | 2,373 |


|  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $1981-1985$ | 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 |
| $2001-2005$ | 1,293 | 17,254 | 4,481 | 17,310 | 40,338 | 812 | 0 | 0 | 41,149 |
| 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 | 560 | 25,171 | 8,388 | 5,971 | 40,090 | - | - | 0 | 40,090 |
| 2014 | 8,980 | 12,550 | 13,851 | 3,326 | 38,707 | - | - | 0 | 38,707 |
| 2015 | 4,025 | 33,410 | 13,180 | 4,698 | 55,313 | - | - | 0 | 55,313 |
| 2016 | 1,659 | 9,724 | 4,173 | 1,788 | 17,344 | - | - | 0 | 17,344 |
| $2017^{b / 3}$ | 574 | 21,177 | 4,831 | 6,351 | 32,933 | - | - | 0 | 32,933 |

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 <br> or Avg. |  |  |  |  | Washington |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ilw aco | Westport | La Push | Neah Bay ${ }^{\text {a/ }}$ | Subtotal | Oregon | California | Alaska | Total |
| COHO LANDINGS |  |  |  |  |  |  |  |  |  |
| 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 |
| 1996-2000 | 1,413 | 2,387 | 851 | 7,478 | 8,881 | 0 | - | 103 | 8,984 |
| 2001-2005 | 929 | 3,240 | 1,555 | 1,231 | 6,397 | 0 | - | 103 | 6,500 |
| 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 | 127 | 3,759 | 1,846 | 309 | 6,041 | - | - | 0 | 6,041 |
| 2014 | 2,239 | 8,525 | 4,602 | 41 | 15,407 | - | - | 0 | 15,407 |
| 2015 | 690 | 1,839 | 309 | 34 | 2,872 | - | - | 0 | 2,872 |
| 2016 | - | - | - | - | - | - | - | - | - |
| $2017{ }^{\text {b/ }}$ | 131 | 524 | 402 | 311 | 1,368 | - | - | - | 1,368 |
| PINK LANDINGS ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |  |  |
| 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 |
| 1996-2000 | 0 | 2 | 7 | 21 | 29 | 19 | 0 | 0 | 48 |
| 2001-2005 | 13 | 18 | 38 | 29 | 97 | 19 | 0 | 0 | 116 |
| 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 | 0 | 15 | 99 | 27 | 141 | - | - | 0 | 141 |
| 2014 | 0 | 0 | 0 | 0 | 0 | - | - | 0 | 0 |
| 2015 | 0 | 12 | 36 | 20 | 68 | - | - | 0 | 68 |
| 2016 | 0 | 0 | 0 | 0 | 0 | - | - | 0 | 0 |
| $2017{ }^{\text {b/ }}$ | 0 | 0 | 2 | 11 | 13 | - | - | 0 | 13 |

a/ Neah Bay data include 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. ${ }^{\text {a/ }}$ (Page 1 of 2)

| Year or Avg. | May | June | July | Aug. | Sept. ${ }^{\text {// }}$ | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Neah Bay ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 165 | 56 | 129 | 119 | 24 | - | 454 |
| 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 | 151 | - | 90 | 4 | - | - | 245 |
| 2014 | 109 | 1 | 6 | 5 | - | - | 121 |
| 2015 | 180 | 66 | 14 | 3 | 3 | - | 266 |
| 2016 | 85 | 56 | 3 | 4 | - | - | 148 |
| $2017{ }^{\text {d/ }}$ | 41 | 40 | 140 | 112 | 34 | - | 367 |
| La Push |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 31 | 12 | 76 | 88 | 15 | - | 195 |
| 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 | 190 | - | 175 | 70 | - | - | 435 |
| 2014 | 291 | 84 | 169 | 140 | 32 | - | 716 |
| 2015 | 227 | - | 194 | 174 | 62 | - | 657 |
| 2016 | 213 | 56 | 111 | 31 | - | - | 411 |
| $2017{ }^{\text {d/ }}$ | 194 | 89 | 33 | 129 | 57 | - | 502 |
| Westport |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 207 | 73 | 151 | 129 | 55 | - | 593 |
| 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 | 380 | 498 | 206 | 331 | 83 | - | 1,498 |
| 2014 | 189 | 103 | 222 | 192 | 85 | - | 791 |
| 2015 | 411 | 418 | 283 | 273 | 62 | - | 1,447 |
| 2016 | 349 | 247 | 134 | 151 | - | - | 881 |
| $2017{ }^{\text {d/ }}$ | 527 | 477 | 207 | 170 | 30 | - | 1,411 |

TABLEA-12. Washington non-Indian commercial troll salmon fishing effort in days fished by catch area and month. ${ }^{\text {a/ }}$ (Page 2 of 2)

| Year or Avg. | May | June | July | Aug. | Sept. ${ }^{\text {b/ }}$ | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Iw aco |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 15 | 5 | 24 | 29 | 14 | - | 82 |
| 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 | 47 | 51 | 15 | 10 | 7 | - | 130 |
| 2014 | 250 | 49 | 42 | 35 | 18 | - | 394 |
| 2015 | 177 | 26 | 11 | 26 | 35 | - | 275 |
| 2016 | 78 | 48 | 30 | 32 | - | - | 188 |
| $2017{ }^{\text {d/ }}$ | 16 | 24 | 15 | 15 | 23 | - | 93 |
| Statewide Total |  |  |  |  |  |  |  |
| 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 | - | 3,475 |
| 1996-2000 | 221 | 124 | 158 | 145 | 10 | - | 431 |
| 2001-2005 | 417 | 146 | 381 | 324 | 94 | - | 1,324 |
| 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 | 768 | 549 | 486 | 415 | 90 | - | 2,308 |
| 2014 | 839 | 237 | 439 | 372 | 135 | - | 2,022 |
| 2015 | 995 | 510 | 502 | 476 | 162 | - | 2,645 |
| 2016 | 725 | 407 | 278 | 218 | - | - | 1,628 |
| $2017{ }^{\text {d/ }}$ | 778 | 630 | 395 | 426 | 144 | - | 2,373 |

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


| Year or Avg. | May | June | July | Aug. | Sept. ${ }^{\text {b/ }}$ | Season | May | June | July | Aug. | Sept. ${ }^{\text {b/ }}$ | Season | May | June | July | Aug. | Sept. ${ }^{\text {b/ }}$ | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | CHINOOK |  |  |  |  |  | COHO |  |  |  |  |  | PINKS |  |  |  |  |  |
| Westport |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 7,894 | 3,243 | 3,497 | 2,336 | 475 | 17,254 |  |  | 696 | 1,083 | 2,667 | 3,240 | 0 | 0 | 16 | 2 | 0 | 18 |
| 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 | 2,317 | 11,848 | 3,520 | 6,796 | 690 | 25,171 |  |  | 559 | 2,942 | 258 | 3,759 | 0 | 0 | 6 | 8 | 1 | 15 |
| 2014 | 2,160 | 1,313 | 4,722 | 3,936 | 419 | 12,550 |  |  | 1,739 | 2,959 | 3,827 | 8,525 |  |  |  |  |  |  |
| 2015 | 5,360 | 13,569 | 7,916 | 6,108 | 457 | 33,410 |  |  | 539 | 871 | 429 | 1,839 | 1 | 0 | 11 | 0 | 0 | 12 |
| 2016 | 3,258 | 2,619 | 1,981 | 1,866 | - | 9,724 |  |  | - - | - | - | - |  |  |  |  |  |  |
| $2017{ }^{\text {d/ }}$ | 10,793 | 6,092 | 2,340 | 1,852 | 100 | 21,177 |  |  | - 134 | 309 | 81 | 524 | 0 | 0 | 0 | 0 | 0 | 0 |
| llwaco |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 398 | 110 | 357 | 355 | 121 | 1,293 |  |  | 278 | 405 | 502 | 929 | 0 | 0 | 11 | 1 | 0 | 13 |
| 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 | 102 | 358 | 42 | 19 | 39 | 560 |  | - | 28 | 80 | 19 | 127 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2014 | 7,438 | 553 | 598 | 297 | 94 | 8,980 |  | - | 534 | 822 | 883 | 2,239 |  |  |  |  |  |  |
| 2015 | 2,681 | 650 | 96 | 337 | 261 | 4,025 |  |  | 41 | 171 | 478 | 690 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2016 | 656 | 346 | 259 | 398 | - | 1,659 |  |  | - - | - | - | - |  |  |  |  |  |  |
| $2017{ }^{\text {d/ }}$ | 148 | 222 | 74 | 21 | 109 | 574 |  |  | 14 | 50 | 67 | 131 | 0 | 0 | 0 | 0 | 0 | 0 |


| $\stackrel{1}{\square}$ | Year or Avg. | May | June | July | Aug. | Sept. ${ }^{\text {b/ }}$ | Season | May | June | July | Aug. | Sept. ${ }^{\text {// }}$ | Season | May | June | July | Aug. | Sept. ${ }^{\text {b/ }}$ | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{\text {D }}$ | CHINOOK |  |  |  |  |  |  | COHO |  |  |  |  |  | PINKS |  |  |  |  |  |
| $\bigcirc$ | Statewide Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N | 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 |
| $\stackrel{-}{V}$ | 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 |
| $\bigcirc$ | 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 |
| $\stackrel{1}{3}$ | 2001-2005 | 15,712 | 6,182 | 10,054 | 7,683 | 1,178 | 40,338 | - |  | 2,142 | 2,639 | 3,408 | 6,397 | 2 | 3 | 66 | 23 | 5 | 97 |
| $\infty$ | 2006 | 6,481 | 3,912 | 1,073 | 3,459 | 1,844 | 16,769 | - |  | 129 | 845 | 291 | 1,265 |  |  |  |  |  |  |
| $\frac{0}{5}$ | 2007 | 5,866 | 4,094 | 3,502 | 771 | 35 | 14,268 | - |  | 2,282 | 3,444 | 160 | 5,886 | 8 | 19 | 119 | 1 | 0 | 147 |
| $\bigcirc$ | 2008 | 1,812 | 4,197 | 1,180 | 1,185 | 262 | 8,636 | - |  | 355 | 982 | 369 | 1,706 |  |  |  |  |  |  |
| 7 | 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 |
| $\stackrel{\square}{0}$ | 2010 | 8,429 | 22,562 | 6,281 | 7,504 | 323 | 45,099 | - |  | 1,184 | 782 | 138 | 2,104 |  |  |  |  |  |  |
| (1) | 2011 | 8,154 | 9,858 | 6,016 | 2,532 | 342 | 26,902 | - |  | 1,631 | 917 | 505 | 3,053 | 0 | 3 | 118 | 93 | 1 | 215 |
| $\stackrel{\rightharpoonup}{\infty}$ | 2012 | 10,629 | 12,058 | 5,378 | 6,398 | 2,392 | 36,855 | - |  | 769 | 1,118 | 1,381 | 3,268 |  |  |  |  |  |  |
|  | 2013 | 10,589 | 12,206 | 7,858 | 8,708 | 729 | 40,090 | - |  | 1,920 | 3,844 | 277 | 6,041 | 2 | 0 | 101 | 37 | 1 | 141 |
|  | 2014 | 20,226 | 3,110 | 8,696 | 5,961 | 714 | 38,707 | - |  | 3,441 | 6,872 | 5,094 | 15,407 |  |  |  |  |  |  |
|  | 2015 | 15,603 | 15,058 | 12,706 | 10,168 | 1,778 | 55,313 | - |  | 728 | 1,169 | 975 | 2,872 | 1 | 20 | 47 | 0 | 0 | 68 |
|  | 2016 | 7,090 | 4,310 | 3,584 | 2,360 | - | 17,344 | - |  | - - | - | - | - |  |  |  |  |  |  |
| $\stackrel{\rightharpoonup}{\sigma}$ | $2017{ }^{\text {d/ }}$ | 13,504 | 7,468 | 5,780 | 5,306 | 875 | 32,933 | - |  | - 231 | 769 | 368 | 1,368 | 0 | 0 | 10 | 3 | 0 | 13 |

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 |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Area 4B |  |  |  |  |  |  |  |  |  |  |
| $1981-1985$ | 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 |
| $2001-2005$ | 34 | 15 | 18 | 27 | 27 | 10 | - | 65 | 97 | 196 |
| 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 | 303 | 68 | 51 | 7 | 1 | 0 | - | 22 | 127 | 452 |
| 2012 | 182 | 75 | 78 | 67 | 16 | 8 | - | 29 | 244 | 455 |
| 2013 | 270 | 141 | 74 | 64 | 46 | 13 | - | 124 | 338 | 732 |
| 2014 | 419 | 45 | 164 | 6 | 14 | 9 | - | 34 | 238 | 691 |
| 2015 | 384 | 255 | 173 | 16 | 60 | 32 | 1 | 7 | 536 | 928 |
| 2016 | 35 | 150 | 40 | 22 | 27 | 2 | - | 34 | 241 | 310 |
| $2017^{\text {a }}$ | 149 | 9 | 57 | 19 | 22 | 25 | - | 3 | 132 | 284 |


| Neah Bay |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $1981-1985$ | 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 |
| $2001-2005$ | 1 | 30 | 46 | 71 | 84 | 56 | - | 0 | 286 | 287 |
| 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 | 0 | 56 | 175 | 134 | 190 | 94 | - | 0 | 649 | 649 |
| 2013 | 0 | 131 | 106 | 270 | 495 | 107 | - | 0 | 1,109 | 1,109 |
| 2014 | 0 | 97 | 60 | 139 | 133 | 36 | - | 0 | 465 | 465 |
| 2015 | 0 | 22 | 166 | 139 | 84 | 22 | - | 0 | 433 | 433 |
| 2016 | 0 | 12 | 149 | 97 | 54 | 0 | - | 0 | 312 | 312 |
| $2017^{\text {a }}$ | 0 | 15 | 29 | 261 | 285 | 131 | - | 0 | 721 | 721 |

La Push ${ }^{\text {b/ }}$

|  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $1981-1985$ | 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 |
| $2001-2005$ | 0 | 0 | 0 | 1 | 1 | 1 | 10 | - | 4 | 12 |
| 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 | 0 | 8 | 3 | 5 | 12 | 2 | 4 | - | 30 | 34 |
| 2013 | 0 | 6 | 18 | 30 | 13 | 35 | 0 | - | 102 | 102 |
| 2014 | 0 | 41 | 61 | 304 | 253 | 82 | 0 | - | 741 | 741 |
| 2015 | 0 | 36 | 21 | 196 | 103 | 53 | 0 | - | 409 | 409 |
| 2016 | 0 | 19 | 12 | 4 | 5 | 9 | 7 | - | 49 | 56 |
| $2017^{a}$ | 0 | 0 | 1 | 2 | 9 | 4 | 0 | - | 16 | 16 |

TABLEA-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. | Nov.-Dec. | Total May-Sept. | Year <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Westport |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 0 | 2 | 1 | 1 | 4 | 2 | - | - | 10 | 10 |
| 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 | 8 | 23 | 41 | 1 | - | - | 73 | 73 |
| 2012 | 0 | 5 | 13 | 8 | 11 | 0 | - | - | 37 | 37 |
| 2013 | 0 | 1 | 8 | 5 | 29 | 4 | - | - | 47 | 47 |
| 2014 | 0 | 7 | 5 | 14 | 23 | 28 | - | - | 77 | 77 |
| 2015 | 0 | 7 | 11 | 37 | 21 | 0 | - | - | 76 | 76 |
| 2016 | 0 | 4 | 7 | 10 | 5 | 0 | - | - | 26 | 26 |
| $2017{ }^{\text {a }}$ | 0 | 3 | 3 | 3 | 12 | 6 | - | - | 27 | 27 |

## Statewide Total

| $1981-1985$ | 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 |
| $2001-2005$ | 35 | 47 | 66 | 100 | 116 | 69 | 10 | 65 | 397 | 505 |
| 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 | 303 | 92 | 192 | 152 | 140 | 24 | 1 | 22 | 600 | 926 |
| 2012 | 182 | 144 | 269 | 214 | 229 | 104 | 4 | 29 | 960 | 1,175 |
| 2013 | 270 | 279 | 206 | 369 | 583 | 159 | 0 | 124 | 1,596 | 1,990 |
| 2014 | 419 | 190 | 290 | 463 | 423 | 155 | 0 | 34 | 1,521 | 1,974 |
| 2015 | 384 | 320 | 371 | 388 | 268 | 107 | 1 | 7 | 1,454 | 1,846 |
| 2016 | 35 | 185 | 208 | 133 | 91 | 11 | 7 | 34 | 628 | 704 |
| $2017^{a}$ | 149 | 27 | 90 | 285 | 328 | 166 | 0 | 3 | 896 | 1,048 |

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


Appendix A



[^6]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. ${ }^{\text {a/ }}$ | Jan.-Apr. | May | June | July | Aug. | Sept. | Oct. | Nov.-Dec. | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | May-Sept. | Year |
| Area 4B |  |  |  |  |  |  |  |  |  |  |
| 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 | 0 | 0 | 0 | 39 | 0 | 0 | - | 0 | 39 | 39 |
| 2015 | 0 | 0 | 2 | 0 | 2 | 0 | - | 0 | 4 | 4 |
| $2017{ }^{\text {b/ }}$ | 0 | 0 | 0 | 1 | 1 | 0 | - | 0 | 2 | 2 |

Neah Bay

| $1981-1985$ | 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 | 659 | 310 | 16 | - | 0 | 988 | 988 |
| 2013 | 0 | 0 | 0 | 49 | 115 | 0 | - | 0 | 164 | 164 |
| 2015 | 0 | 0 | 4 | 0 | 16 | 0 | - | 0 | 20 | 20 |
| $2017^{b /}$ | 0 | 0 | 0 | 60 | 133 | 0 | - | 0 | 193 | 193 |

La Push

| $1981-1985$ | 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 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | - | 6 | 6 |
| 2015 | 0 | 0 | 0 | 98 | 0 | 0 | 0 | - | 98 | 98 |
| $2017^{b /}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 |

TABLEA-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 $^{\text {Avg. }}$ |  | Jan.-Apr. | May | June | July | Aug. | Sept. | Oct. | Nov.-Dec. May-Sept. | Year |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
| Westport |  |  |  |  |  |  |  |  |  |  |  |
| $1981-1985$ | 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 | 4 | 5 | 0 | - | - | 9 | 9 |  |
| 2013 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 | 0 |  |
| 2015 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 | 0 |  |
| $2017^{\text {b/ }}$ | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 0 | 0 |  |

Total Statewide

| $1981-1985$ | 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 | 718 | 334 | 16 | 0 | 0 | 1,074 | 1,074 |
| 2013 | 0 | 0 | 0 | 89 | 120 | 0 | 0 | 0 | 209 | 209 |
| 2015 | 0 | 0 | 6 | 98 | 18 | 0 | 0 | 0 | 122 | 122 |
| $2017^{\mathrm{b} /}$ | 0 | 0 | 0 | 61 | 134 | 0 | 0 | 0 | 195 | 195 |

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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Neah Bay |  |  |  |  |  |  |  |  |
| 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 ${ }^{\text {a }}$ | - | 1,258 | 4 | 12,553 | 9,455 | 994 | - | 20,494 |
| 1996-2000 ${ }^{\text {a/ }}$ | - | - | - | 3,462 | 5,345 | 1,098 | - | 8,301 |
| 2001-2005 | - | 576 | 1,447 | 10,063 | 7,081 | 1,199 | - | 19,326 |
| 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 | - | - | 1,204 | 7,324 | 3,641 | 1,268 | - | 13,439 |
| 2013 | - | 815 | 1,714 | 7,399 | 5,044 | 391 | - | 15,362 |
| 2014 | - | 827 | 2,334 | 8,102 | 3,547 | 1,706 | - | 16,517 |
| 2015 | - | 370 | 2,371 | 8,761 | 2,345 | 919 | - | 14,765 |
| 2016 | - | - | - | 7,504 | 751 | - | - | 8,255 |
| $2017{ }^{\text {b/ }}$ | - | - | 386 | 7,874 | 2,037 | 494 | - | 10,791 |
| La Push |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | - | 59 | 199 | 1,711 | 1,486 | 678 | 132 | 4,138 |
| 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 | - | 136 | 239 | 971 | 2,263 | 420 | 237 | 4,266 |
| 2014 | - | 36 | 352 | 1,422 | 2,007 | 883 | 365 | 5,064 |
| 2015 | - | 90 | 247 | 1,389 | 1,058 | 420 | 300 | 3,504 |
| 2016 | - | - | - | 702 | 387 | - | - | 1,089 |
| $2017{ }^{\text {b/ }}$ | - | - | 82 | 465 | 1,005 | 348 | - | 1,901 |
| Westport |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | - | 1,861 | 4,425 | 18,150 | 15,487 | 6,189 | - | 42,500 |
| 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 | - | - | 8,187 | 8,898 | 14,147 | 6,092 | - | 37,325 |
| 2013 | - | - | 7,020 | 7,641 | 16,639 | 4,589 | - | 35,889 |
| 2014 | - | 780 | 7,645 | 19,006 | 18,838 | 7,500 | - | 53,769 |
| 2015 | - | 981 | 6,356 | 18,629 | 12,162 | 7,327 | - | 45,455 |
| 2016 | - | - | - | 9,587 | 8,253 | - | - | 17,840 |
| $2017{ }^{\text {b/ }}$ | - | - | - | 13,216 | 12,780 | - | - | 25,997 |

TABLEA-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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| liw aco ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | - | 215 | 781 | 12,573 | 23,125 | 7,773 | - | 43,983 |
| 2006 | - | - | 781 | 9,502 | 21,175 | 6,351 | - | 37,539 |
| 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 | - | - | 2,843 | 4,833 | 13,381 | 3,438 | - | 24,496 |
| 2014 | - | 36 | 2,575 | 11,306 | 22,617 | 7,735 | - | 44,268 |
| 2015 | - | 207 | 2,347 | 8,520 | 15,497 | 6,819 | - | 33,389 |
| 2016 | - | - | - | 7,666 | 16,587 | - | - | 24,254 |
| $2017{ }^{\text {b/ }}$ | - | - | 388 | 8,532 | 13,844 | - | - | 22,765 |

## Total Statewide ${ }^{\text {c/ }}$

| 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 ${ }^{\text {a/ }}$ | - | 1,258 | 4,140 | 48,319 | 36,915 | 16,837 | 714 | 104,949 |
| 1996-2000 ${ }^{\text {a/ }}$ | - | - | - | 15,695 | 21,407 | 4,496 | - | 38,459 |
| 2001-2005 | - | 2,711 | 6,245 | 42,497 | 47,179 | 14,601 | 132 | 109,947 |
| 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 | - | 951 | 11,816 | 20,844 | 37,328 | 8,838 | 237 | 80,014 |
| 2014 | - | 1,678 | 12,906 | 39,834 | 47,010 | 17,824 | 365 | 119,617 |
| 2015 | - | 1,648 | 11,320 | 37,299 | 31,063 | 15,484 | 300 | 97,114 |
| 2016 | - | - | - | 25,458 | 25,978 | - | - | 51,437 |
| $2017^{\text {b/ }}$ | - | - | 857 | 30,088 | 29,666 | 842 | - | 61,453 |

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 w as open).

| $\stackrel{1}{\square}$ | Year or Avg. | Apr. | May | June | July | Aug. | Sept. | Oct. | Season | Apr. | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{\text {® }}$ |  | CHINOOK |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |  |
| $\bigcirc$ | Neah Bay |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N | 1981-1985 | 57 | 149 | 234 | 1,293 | 483 | 194 | 35 | 2,224 | 80 | 338 | 639 | 8,878 | 16,452 | 3,414 | 150 | 29,436 |
| $\bigcirc$ | 1986-1990 ${ }^{\text {a }}$ | - | 114 | 143 | 2,587 | 358 | 35 | - | 2,478 | - | - | 384 | 15,896 | 11,629 | 3,446 | - | 29,747 |
| $\checkmark$ | 1991-1995 ${ }^{\text {b/ }}$ | - | 148 | - | 1,443 | 232 | 62 | - | 1,420 | - | 40 |  | 15,654 | 13,052 | 991 | - | 25,804 |
| ¢ | 1996-2000 ${ }^{\text {b/ }}$ | - | - | - | 396 | 68 | 5 | - | 267 | - | - | - | 1,686 | 5,023 | 1,782 | - | 7,103 |
| $\stackrel{1}{3}$ | 2001-2005 | - | 234 | 683 | 2,710 | 705 | 77 | - | 3,949 | - | - | 573 | 8,391 | 7,468 | 1,039 | - | 17,128 |
| 0 | 2006 | - | - | 166 | 734 | 443 | 73 | - | 1,417 | - | - | 380 | 3,763 | 1,570 | 309 | - | 6,023 |
| $\stackrel{0}{3}$ | 2007 | - | - | - | 1,179 | 245 | 47 | - | 1,471 | - | - | - | 4,981 | 4,997 | 631 | - | 10,608 |
| $\bigcirc$ | $2008{ }^{\text {b/ }}$ | - | - | 311 | 725 | 317 | 3 | - | 1,357 | - | - | - | 679 | 1,459 | 23 | - | 2,161 |
| $\bigcirc$ | 2009 | - | - | 51 | 1,277 | 1,071 | 47 | - | 2,447 | - | - | 118 | 4,807 | 7,500 | 912 | - | 13,336 |
| $\stackrel{\square}{\square}$ | 2010 | - | - | 144 | 1,573 | 1,453 | 129 | - | 3,299 | - | - | 1 | 1,926 | 1,609 | 150 | - | 3,687 |
| ه | 2011 | - | - | 257 | 1,382 | 1,330 | 14 | - | 2,983 | - | - | 54 | 1,918 | 943 | 140 | - | 3,054 |
| $\stackrel{\text { ¢ }}{ }$ | 2012 | - | - | 812 | 3,524 | 1,173 | 42 | - | 5,552 | - | - | 27 | 3,643 | 3,094 | 784 | - | 7,548 |
|  | 2013 | - | 127 | 635 | 3,267 | 2,142 | 74 | - | 6,245 | - | - | 257 | 3,082 | 2,934 | 233 | - | 6,506 |
|  | 2014 | - | 158 | 948 | 3,975 | 806 | 48 | - | 5,935 | - | - | 188 | 1,734 | 2,244 | 1,478 | - | 5,643 |
|  | 2015 | - | 96 | 1,577 | 6,196 | 522 | 107 | - | 8,498 | - | - | 214 | 2,137 | 1,274 | 4,140 | - | 7,764 |
|  | 2016 | - | - | - | 3,011 | 255 | - | - | 3,266 | - | - | - | 30 | 23 | - | - | 53 |
|  | $2017{ }^{\text {c/ }}$ | - | - | 244 | 6,134 | 856 | 54 | - | 7,287 | - | - | 45 | 1,767 | 1,214 | 507 | - | 3,533 |
|  | La Push |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1981-1985 | - | 0 | 7 | 132 | 166 | 8 | - | 304 | - | 0 | 72 | 861 | 2,786 | 251 | - | 3,791 |
|  | 1986-1990 ${ }^{\text {a }}$ | - | 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 |
|  | 2001-2005 | - | 7 | 96 | 740 | 541 | 195 | 51 | 1,586 | - | - | - | 1,110 | 1,306 | 309 | 10 | 2,770 |
|  | 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 | - | 4 | 99 | 693 | 1,288 | 152 | 119 | 2,355 | - | - | 57 | 439 | 2,015 | 269 | 18 | 2,798 |
|  | 2014 | - | 0 | 227 | 725 | 406 | 115 | 110 | 1,584 | - | - | 102 | 922 | 2,265 | 1,121 | 199 | 4,608 |
|  | 2015 | - | 7 | 159 | 1,417 | 537 | 115 | 164 | 2,399 | - | - | 37 | 195 | 156 | 178 | 13 | 579 |
| 웅 | 2016 | - | - | - | 221 | 34 | - | - | 255 | - | - | - | 3 | 2 | - | - | 5 |
| $\stackrel{1}{\square}$ | $2017{ }^{\text {c/ }}$ | - | - | 7 | 209 | 229 | 37 | - | 482 | - | - | 13 | 159 | 1,155 | 423 | - | 1,750 |


| ${ }^{(1)}$ | Year or Avg. | Apr. | May | June | July | Aug. | Sept. | Oct. | Season | Apr. | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\stackrel{\text { ® }}{ }$ | CHINOOK |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |  |
| $\bigcirc$ | Westport |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\xrightarrow{\sim}$ | 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 |
| $\bigcirc$ | 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 |
| $\checkmark$ | 1991-1995 | - | - | 1,911 | 3,062 | 2,764 | 1,496 | 213 | 7,853 | - | - | 6,781 | 24,170 | 19,803 | 8,578 | 322 | 54,327 |
| O | 1996-2000 | - | - | - | 1,908 | 1,667 | 585 | - | 3,544 | - | - | - | 8,644 | 9,155 | 1,241 |  | 17,062 |
| $\stackrel{1}{0}$ | 2001-2005 | - | 1,020 | 3,199 | 3,886 | 5,073 | 919 | - | 11,962 | - | 4,793 | 8,346 | 21,968 | 22,230 | 7,574 | - | 55,975 |
|  | 2006 | - | - | - | 2,293 | 3,125 | 398 | - | 5,815 | - | - | - | 2,008 | 5,675 | 1,096 | - | 8,779 |
| $\stackrel{0}{0}$ | 2007 | - | - | - | 2,494 | 2,545 | 208 | - | 5,247 | - | - |  | 7,289 | 14,055 | 1,648 |  | 22,992 |
| O | 2008 | - | - | 2,145 | 4,459 | 2,735 | 305 | - | 9,644 | - | - | 30 | 2,550 | 3,383 | 1,564 | - | 7,528 |
| $\bigcirc$ | 2009 | - | - | 124 | 2,080 | 2,594 | 225 | - | 5,023 | - | - | 539 | 10,745 | 33,181 | 9,403 | - | 53,868 |
| $\frac{7}{\omega}$ | 2010 | - | - | 4,711 | 9,948 | 10,586 | 1,744 | - | 26,989 | - | - | 45 | 3,680 | 3,957 | 4,925 | - | 12,607 |
| $\stackrel{\text { ® }}{ }$ | 2011 | - | - | 2,220 | 5,579 | 10,835 | 455 | - | 19,089 | - | - | 229 | 4,499 | 6,723 | 2,392 | - | 13,843 |
| $\stackrel{\text { ® }}{ }$ | 2012 | - | - | 7,574 | 4,033 | 6,709 | 1,170 | - | 19,486 | - | - | 184 | 3,124 | 3,375 | 5,241 | - | 11,924 |
|  | 2013 | - | - | 2,192 | 3,403 | 7,021 | 1,074 | - | 13,689 | - | - | 379 | 3,097 | 12,233 | 4,668 | - | 20,377 |
|  | 2014 | - | 427 | 3,935 | 8,190 | 9,944 | 970 | - | 23,466 | - | - | 5,935 | 17,687 | 17,874 | 12,979 | - | 54,474 |
|  | 2015 | - | 431 | 3,345 | 8,048 | 4,613 | 2,682 | - | 19,120 | - | - | 2,357 | 12,753 | 7,358 | 8,216 | - | 30,684 |
|  | 2016 | - | - | - | 4,198 | 4,232 | - | - | 8,430 | - | - | - | 30 | 13 | - | - | 43 |
| V | $2017{ }^{\text {c/ }}$ | - | - | - | 4,247 | 2,358 | - | - | 6,605 | - | - | - | 6,664 | 9,086 | - | - | 15,750 |
|  | Ilwacod |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |
|  | 2001-2005 | - | 53 | 664 | 1,814 | 3,895 | 826 | - | 6,944 | - | - | 522 | 18,205 | 29,244 | 8,022 | - | 55,784 |
|  | 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 | - | - | 1,300 | 1,356 | 3,284 | 688 | - | 6,629 | - | - | 2,287 | 4,007 | 8,599 | 1,566 | - | 16,459 |
|  | 2014 | - | 44 | 917 | 2,570 | 5,019 | 491 | - | 9,041 | - | - | 2,223 | 14,833 | 30,029 | 11,247 | - | 58,332 |
|  | 2015 | - | 61 | 957 | 1,419 | 4,836 | 2,140 | - | 9,414 | - | - | 2,607 | 12,325 | 15,756 | 5,022 | - | 35,711 |
| $\bigcirc$ | 2016 | - | - | - | 2,088 | 2,868 | - | - | 4,957 | - | - | - | 4,692 | 11,266 | - | - | 15,958 |
| $\frac{8}{0}$ | $2017{ }^{\text {c/ }}$ | - | - | 319 | 2,191 | 3,153 | - |  | 5,663 | - | - | 30 | 5,724 | 9,301 | - | - | 15,055 |


| $\stackrel{\square}{8}$ | Year or Avg. | Apr. | May | June | July | Aug. | Sept. | Oct. | Season | Apr. | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\sum^{10}$ | CHINOOK |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |  |
| O | Total Statew ide ${ }^{\text {d/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |
| $\bigcirc$ | 1986-1990 ${ }^{\text {a }}$ | - | 901 | 1,886 | 14,500 | 8,674 | 1,212 | - | 25,590 | - | 19 | 5,077 | 91,015 | 62,794 | 7,165 | 45 | 165,058 |
| $\checkmark$ | 1991-1995 ${ }^{\text {b/ }}$ | - | 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 ${ }^{\text {b/ }}$ | - |  |  | 2,603 | 2,407 | 564 |  | 4,940 | - |  |  | 17,736 | 23,289 | 3,967 |  | 41,445 |
| $\stackrel{1}{0}$ | 2001-2005 | - | 2,607 | 5,200 | 14,961 | 12,700 | 2,859 | 51 | 35,251 | - | 5 | 1,795 | 40,606 | 52,131 | 15,016 | 10 | 109,200 |
| $\infty$ | 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 |
| $\bigcirc$ | $2008{ }^{\text {b/ }}$ | - | - | 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 |
| $\stackrel{\square}{0}$ | 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 |
| $\stackrel{\text { ® }}{ }$ | 2012 | - | - | 10,265 | 10,220 | 11,016 | 2,096 | 133 | 33,729 | - | - | 407 | 10,297 | 11,942 | 8,767 | 21 | 31,434 |
|  | 2013 | - | 131 | 4,226 | 8,719 | 13,734 | 1,989 | 119 | 28,918 | - |  | 2,980 | 10,626 | 25,782 | 6,735 | 18 | 46,140 |
|  | 2014 | - | 629 | 6,027 | 15,460 | 16,174 | 1,624 | 110 | 40,025 | - | - | 8,448 | 35,175 | 52,411 | 26,824 | 199 | 123,057 |
|  | 2015 | - | 595 | 6,039 | 17,081 | 10,509 | 5,043 | 164 | 39,431 | - | - | 5,215 | 27,410 | 24,544 | 17,555 | 13 | 74,737 |
|  | 2016 | - |  |  | 9,519 | 7,388 |  |  | 16,907 | - | - |  | 4,755 | 11,304 |  |  | 16,059 |
| $\pm$ | $2017{ }^{\text {c/ }}$ | - | - | 569 | 12,781 | 6,596 | 91 |  | 20,037 | - | - | 88 | 14,314 | 20,755 | 930 | - | 36,087 |
| $\infty$ | a/ Neah Bay and La Push statistics do not include estimates of 707 Chinook killed during Chinook nonretention fishery (July 19-August 20, 1987). <br> b/ Includes catch from the Washington State w aters Area 4B fishery in 1991, 1992, 1993, 1996, 1997, 1998, 2000, and 2008. <br> c/ Preliminary. <br> 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 w as closed, and Buoy 10 w as 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. ${ }^{\text {a/ }}$ | Apr. | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Neah Bay |  |  |  |  |  |  |  |  |
| 1981-1985 | - | 18 | 4 | 780 | 3,547 | 82 | 27 | 4,398 |
| 1987 | - | - | 6 | 686 | 713 | - | - | 1,405 |
| $1989{ }^{\text {b/ }}$ | - | 0 | 0 | 1,443 | 295 | 202 | - | 1,940 |
| 1991 ${ }^{\text {/ }}$ | - | - | - | 479 | 1,543 | 0 | - | 2,022 |
| $1993{ }^{\text {b/ }}$ | - | 0 | - | 609 | 1,264 | 371 | - | 2,244 |
| 1995 | - | - | - | - | 2,578 | 30 | - | 2,608 |
| $1997{ }^{\text {b/ }}$ | - | - | - | 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 | - | - | 31 | 4,088 | 1,866 | 13 | - | 5,997 |
| 2015 | - | - | 803 | 4,984 | 593 | 5 | - | 6,385 |
| $2017{ }^{\text {d/ }}$ | - | - | 1 | 368 | 299 | 7 | - | 676 |

La Push

| 1981-1985 | - | 0 | 0 | 5 | 207 | 1 | - | 213 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | - | - | 3 | 232 | 406 | 1 | 0 | 643 |
| 2015 | - | - | 24 | 113 | 5 | 0 | 0 | 142 |
| $2017{ }^{\text {d/ }}$ | - | - | 0 | 4 | 8 | 0 | 0 | 12 |


| Westport |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1981-1985 | - | 16 | 60 | 497 | 541 | 3 | - | 1,111 |
| 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 | - | - | 5 | 648 | 372 | 0 | - | 1,024 |
| 2015 | - | - | 209 | 1,829 | 60 | 3 | - | 2,101 |
| $2017{ }^{\text {d/ }}$ | - | - | 0 | 36 | 9 | - | - | 45 |

TABLEA-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. ${ }^{\text {a/ }}$ | Apr. | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ilw aco ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |  |
| 1981-1985 | - | 1 | 1 | 36 | 155 | 0 | - | 193 |
| 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 | - | - | 0 | 0 | 4 | 0 | - | 4 |
| 2015 | - | - | 0 | 3 | 1 | 0 | - | 4 |
| $2017{ }^{\text {d/ }}$ | - | - | 0 | 0 | 0 | 0 | - | 0 |


| Total Statew ide ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1981-1985 | - | 35 | 65 | 1,318 | 4,451 | 85 | 27 | 5,915 |
| 1987 | - | - | 6 | 991 | 804 | - | - | 1,801 |
| $1989{ }^{\text {b/ }}$ | - | 0 | 0 | 1,482 | 352 | 202 | - | 2,036 |
| $1991^{\text {b/ }}$ | - | - | 0 | 613 | 1,597 | 4 | - | 2,214 |
| $1993{ }^{\text {b/ }}$ | - | 0 | - | 695 | 1,344 | 377 | - | 2,416 |
| 1995 | - | - | - | 44 | 2,725 | 52 | - | 2,821 |
| $1997{ }^{\text {b/ }}$ | - | - | - | 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 | - | - | 39 | 4,967 | 2,648 | 14 | 0 | 7,668 |
| 2015 | - | - | 1,035 | 6,929 | 659 | 8 | 0 | 8,631 |
| $2017{ }^{\text {d/ }}$ | - | - | 1 | 407 | 316 | 7 | 0 | 732 |

a/ Odd year averages only.
b/ Includes catch from the Washington State $w$ aters Area 4B fishery.
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 w as closed and Buoy 10 w as open).
d/ Preliminary.

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

| Year or Avg | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cape Falcon to Humbug Mt. ${ }^{\text {a/ }}$ |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 687 | 1,208 | 2,310 | 1,994 | 942 | 1,631 | 1,673 | 1,213 | 161 | 25 | 11,190 |
| 2006 | - | - | - | 1,017 | 483 | 185 | 621 | 723 | 279 | 26 | 3,334 |
| 2007 | - | 342 | 1,181 | 774 | 265 | 1,151 | 303 | 244 | 162 | - | 4,422 |
| 2008 | - | - | - | - | - | - | 37 | 12 | 48 | - | 97 |
| 2009 | - | - | - | - | - | - | 634 | 60 | - | - | 694 |
| 2010 | - | - | 1,015 | 987 | 568 | 719 | 37 | 157 | - | - | 3,483 |
| 2011 | - | 316 | 888 | 1,080 | 100 | 207 | 122 | 226 | 235 | - | 3,174 |
| 2012 | - | 522 | 1,434 | 936 | 246 | 632 | 887 | 680 | 121 | - | 5,458 |
| 2013 | - | 1,029 | 1,134 | 771 | 518 | 2,147 | 1,345 | 893 | 155 | - | 7,992 |
| 2014 | - | 952 | 2,101 | 1,718 | 1,062 | 2,155 | 742 | 289 | 98 | - | 9,117 |
| 2015 | - | 1,755 | 1,562 | 1,249 | 1,275 | 788 | 367 | 237 | 158 | - | 7,391 |
| 2016 | - | 888 | 833 | 635 | 542 | 634 | 330 | 137 | 41 | - | 4,040 |
| $2017{ }^{\text {b/ }}$ | - | 106 | 183 | 391 | 655 | - | 88 | 137 | 41 | - | 1,601 |

Humbug Mt. to Horse Mt. (KMZ) a/c/

| $1981-1985$ | - | - | 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 | - | - | 56 | 522 | 157 | - | - | 396 |
| $1996-2000$ | - | - | 55 | - | - | 107 | 208 | 150 | - | - | 533 |
| $2001-2005$ | - | 17 | 41 | 82 | 110 | 166 | 388 | 110 | 13 | - | 819 |
| 2006 | - | - | - | - | - | - | 6 | 151 | 27 | - | 184 |
| 2007 | - | 6 | 8 | 138 | 99 | 95 | 417 | 47 | 12 | - | 822 |
| 2008 | - | - | - | - | - | - | - | 51 | - | - | 51 |
| 2009 | - | - | - | - | - | - | - | - | - | - | - |
| 2010 | - | - | 43 | - | 26 | 40 | - | 72 | - | - | 181 |
| 2011 | - | - | 60 | 60 | 160 | 135 | - | 75 | - | - | 490 |
| 2012 | - | 0 | 23 | 118 | 90 | 67 | 348 | 41 | - | - | 687 |
| 2013 | - | 13 | 185 | 267 | 441 | 321 | 89 | 52 | - | - | 1,368 |
| 2014 | - | 10 | 471 | 82 | 38 | 70 | 120 | 78 | - | - | 869 |
| 2015 | - | 12 | 150 | 100 | 90 | 24 | 32 | 144 | - | - | 552 |
| 2016 | - | 7 | 13 | 47 | 8 | - | 59 | 52 | - | - | 186 |
| $2017^{b /}$ | - | - | - | - | - | - | - | 109 | - | - | 109 |

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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Horse Mt. to U.S./Mexico Border |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 2,318 | 2,235 | - | - | - | 18,082 |
| 2001-2005 | - | - | 4,248 | 2,367 | 4,540 | 2,963 | 2,396 | 293 | - | - | 16,807 |
| 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 | - | - | 4,268 | 3,904 | 3,979 | 2,638 | 1,620 | 223 | - | - | 16,632 |
| 2014 | - | - | 3,011 | 2,682 | 3,281 | 2,987 | 1,759 | 575 | - | - | 14,295 |
| 2015 | - | - | 4,434 | 2,392 | 1,943 | 2,000 | 1,695 | 515 | - | - | 12,979 |
| 2016 | - | - | 1,662 | 1,290 | - | 2,450 | 1,563 | 174 | - | - | 7,139 |
| $2017{ }^{\text {b/ }}$ | - | - | 874 | 1,206 | - | 2,588 | 1,797 | 214 | - | - | 6,679 |

Total South of Cape Falcon ${ }^{\text {a/ }}$

| $1981-1985$ | - | 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 | 3,957 | 3,416 | 786 | 116 | - | 25,430 |
| $2001-2005$ | 689 | 1,222 | 6,590 | 4,426 | 5,359 | 4,401 | 4,457 | 1,616 | 168 | 25 | 28,816 |
| 2006 | - | - | 2,062 | 1,120 | 1,133 | 2,778 | 3,104 | 1,248 | 306 | 26 | 11,777 |
| 2007 | - | 454 | 4,321 | 941 | 3,652 | 3,905 | 1,652 | 459 | 174 | - | 15,558 |
| 2008 | - | - | - | - | - | - | 37 | 63 | 48 | - | 148 |
| 2009 | - | - | - | - | - | - | 634 | 60 | - | - | 694 |
| 2010 | - | - | 1,058 | 987 | 1,699 | 1,629 | 37 | 229 | - | - | 5,639 |
| 2011 | - | 316 | 2,827 | 1,644 | 1,997 | 2,239 | 760 | 418 | 235 | - | 10,436 |
| 2012 | - | 522 | 5,195 | 2,647 | 4,742 | 3,349 | 2,596 | 1,190 | 121 | - | 20,362 |
| 2013 | - | 1,042 | 5,587 | 4,942 | 4,938 | 5,106 | 3,054 | 1,168 | 155 | - | 25,992 |
| 2014 | - | 962 | 5,583 | 4,482 | 4,381 | 5,212 | 2,621 | 942 | 98 | - | 24,281 |
| 2015 | - | 1,767 | 6,146 | 3,741 | 3,308 | 2,812 | 2,094 | 896 | 158 | - | 20,922 |
| 2016 | - | 895 | 2,508 | 1,972 | 550 | 3,084 | 1,952 | 363 | 41 | - | 11,365 |
| $2017^{\text {b/ }}$ | - | 106 | 1,057 | 1,597 | 655 | 2,588 | 1,885 | 460 | 41 | - | 8,389 |

a/ Monthly totals for Oregon data are the sum of statistical w eeks w ith closest fit to the calendar month.
b/ Preliminary.
c/ The current commercial KMZ boundaries are Humbug Mt. to Humboldt south jetty.

| $\stackrel{1}{8}$ | Year or Avg. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ¢ | CHINOOK |  |  |  |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |  |  |  |  |
| $\sum$ | Cape Falcon to Humbug Mt. ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\bigcirc$ | 1981-1985 | - | - | 13,353 | 6,839 | 43,988 | 23,644 | 6,660 | 2,804 | 36 | - | 97,325 | - | - | - | - | 260,127 | 85,249 | 5,803 | - | - | - | 351,179 |
| N | 1986-1990 | - | - | 41,012 | 45,376 | 139,455 | 85,332 | 29,901 | 21,111 | 1,095 | - | 363,282 | - | - | - | 40 | 294,074 | 95,999 | 20,776 | - | - |  | 410,889 |
| $\bigcirc$ | 1991-1995 | - |  | 12,499 | 18,016 | 19,956 | 36,499 | 16,827 | 14,191 | 453 | - | 118,442 | - | . | - | 91,249 | 105,911 | 8,382 | - | 19 | - |  | 205,560 |
| $\checkmark$ | 1996-2000 | - | - | 21,687 | 28,657 | 13,880 | 38,164 | 17,769 | 7,339 | 1,002 | - | 128,498 | - | - | - | 8 |  | - | - | - | - |  | 8 |
| $\bigcirc$ | 2001-2005 | 14,799 | 25,358 | 50,107 | 41,488 | 20,877 | 50,745 | 49,102 | 32,580 | 1,307 | 148 | 269,227 | - | - | - | - | - | - | - | - | - | - | - |
| ¢ | 2006 | - |  |  | 9,550 | 3,616 | 962 | 4,367 | 3,449 | 1,555 | 131 | 23,630 | - | - | - | - | - | - | - | - | - | - | - |
| $\stackrel{\square}{3}$ | 2007 | - | 1,856 | 7,328 | 4,463 | 1,759 | 12,360 | 713 | 795 | 670 | 3 | 29,947 | - | - | - | - | - | 5,036 | 519 | - | - |  | 5,555 |
| $\infty$ | 2008 | - | - | - | - | - | - | 64 | 12 | 208 | - | 284 | - | - | - | - | - | - | - | - | - | - |  |
| $\stackrel{1}{7}$ | 2009 | - | - | - | - | - | - | 105 | 332 | - | - | 437 | - | - | - | - |  | - | 9,278 | - | - |  | 9,278 |
| 응 | 2010 | - | - | 9,019 | 8,966 | 4,276 | 3,797 | 56 | 1,330 | - | - | 27,444 | - | - | - | - |  | - | - | - | - | - |  |
|  | 2011 | - | 4,481 | 7,901 | 10,401 | 699 | 1,012 | 337 | 1,093 | 1,995 | - | 27,919 | - | - | - | - |  | - |  | - | - | - | - |
| $\frac{17}{6}$ | 2012 | - | 3,633 | 14,533 | 7,357 | 1,785 | 8,771 | 13,677 | 8,756 | 701 | - | 59,213 | - | - | - | - |  | - | - | - | - | - | - |
| $\stackrel{\omega}{\stackrel{\omega}{\infty}}$ | 2013 | - | 7,373 | 9,093 | 5,987 | 5,331 | 38,535 | 28,251 | 8,424 | 1,002 | - | 103,996 | - | - | - | - |  | - | - | - | - |  |  |
| $\frac{\bar{\circ}}{\bar{\infty}} .$ | 2014 | - | 15,501 | 35,389 | 28,560 | 18,326 | 66,600 | 8,851 | 2,072 | 469 | - | 175,768 | - | - | - | - |  | - | 3,296 | - | - |  | 3,296 |
| $\stackrel{\otimes}{\infty}$ | 2015 | - | 16,381 | 13,140 | 19,803 | 27,250 | 7,457 | 2,006 | 1,954 | 1,163 | - | 89,154 | - | - | - | - |  | - | - | - | - |  |  |
|  | 2016 | - | 6,585 | 5,989 | 4,736 | 11,243 | 8,627 | 1,812 | 717 | 182 | - | 39,891 | - | - | - | - |  | - | - | - | - | - |  |
|  | $2017{ }^{\text {b/ }}$ | - | 553 | 1,229 | 3,174 | 13,019 | 8,627 | 137 | 678 | 96 | - | 18,886 | - | - | - | - | - | - | - | - | - | - | - |
|  | Humbug Mt. to Horse Mt. (KMZ ${ }^{\text {aclc }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{\infty}{\infty}$ | 1981-1985 | - |  | 31,261 | 13,370 | 26,577 | 44,460 | 10,089 | 3,495 | 1,113 | - | 130,365 | - | - | 3,527 | 7,183 | 25,915 | 17,370 | 803 | 0 | - |  | 51,270 |
|  | 1986-1990 | - | - | 5,509 | 55,976 | 9,956 | 17,966 | 8,453 | 770 | 1,460 | - | 100,090 | - | - | - | 11,960 | 2,350 | 51 | 565 | 0 | - |  | 14,926 |
|  | 1991-1995 | - | - | 265 | - | 1,682 | 234 | 4,510 | 927 |  | - | 7,618 | - | - | - | - | - | - | 3 | 0 | - |  | 3 |
|  | 1996-2000 | - |  | 1,064 | - |  | 1,589 | 3,232 | 696 | - | - | 6,580 | - | - | - | - | - | - | - | - | - | - | - |
|  | 2001-2005 | 25 | 656 | 446 | 1,182 | 3,363 | 6,874 | 7,582 | 661 | 66 | - | 17,645 | - | - | - | - | - | - | - | - | - | - | - |
|  | 2006 | - | - | - | - | - | - | 12 | 590 | 136 | - | 738 | - | - | - | - |  | - | - | - | - |  |  |
|  | 2007 | - | 15 | 25 | 727 | 1,150 | 1,524 | 9,162 | 209 | 47 | - | 12,859 | - | - | - | - | - | - | - | - | - |  | - |
|  | 2008 | - | - | - | - | - | - | - | 236 | - | - | 236 | - | - | - | - | - | - | - | - | - | - | - |
|  | 2009 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 2010 | - | - | 164 | - | 51 | 125 | - | 529 | - | - | 869 | - | - | - | - | - | - | - | - | - | - | - |
|  | 2011 | - | - | 601 | 254 | 1,611 | 1,144 | - | 107 | - | - | 3,717 | - | - | - | - | - | - | - | - | - | - | - |
|  | 2012 | - | 0 | 371 | 1,287 | 1,456 | 1,328 | 6,115 | 118 | - | - | 10,675 | - | - | - | - | - | - | - | - | - | - |  |
|  | 2013 | - | 50 | 2,695 | 4,374 | 5,545 | 3,856 | 319 | 155 | - |  | 16,994 | - | - | - | - | - | - | - | - | - | - |  |
|  | 2014 | - | 53 | 13,352 | 1,349 | 492 | 403 | 674 | 443 | - | - | 16,766 | - | - | - | - | - | - | - | - | - | - | - |
|  | 2015 | - | 39 | 1,146 | 1,528 | 779 | 92 | 46 | 639 | - | - | 4,269 | - | - | - | - | - | - | - | - | - | - | - |
|  | 2016 | - | 12 | 34 | 179 | 21 | - | 196 | 152 | - | - | 594 | - | - | - | - | - | - | - | - | - | - |  |
|  | $2017{ }^{\text {b/ }}$ | - |  |  |  | - | - |  | 329 | - |  | 329 | - | - | - | - | - | - | - | - | - | - | - |


| Year or Avg. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHINOOK COHO |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Horse MIt. to U.S./Mexico Border |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | - | - | - | - | - | - | - | - | - |  | - |
| 2001-2005 | - | - | 81,370 | 73,618 | 122,399 | 52,345 | 39,885 | 1,905 | - |  | 371,521 | - | - | - | - | - | - | - | - | - | - | - |
| 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 | - | - | 74,828 | 81,625 | 95,896 | 23,249 | 10,910 | 941 | - |  | 287,449 | - | - | - | - | - | - | - | - | - |  | - |
| 2014 | - | - | 34,946 | 39,581 | 54,568 | 24,085 | 11,498 | 2,985 | - |  | 167,663 | - | - | - | - | - | - | - | - | - |  | - |
| 2015 | - | - | 53,561 | 19,489 | 12,920 | 11,467 | 10,407 | 2,617 | - | - | 110,461 | - | - | - | - | - | - | - | - | - | - | - |
| 2016 | - | - | 13,367 | 13,428 |  | 18,334 | 9,271 | 589 | - | - | 54,989 | - | - | - | - | - | - | - | - | - | - | - |
| $2017{ }^{\text {b/ }}$ | - | - | 5,588 | 6,884 | - | 18,293 | 10,221 | 1,275 | - | - | 42,261 | - | - | - | - | - | - | - | - | - | - | - |
| Total South of Cape Falcon ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 14,823 | 25,883 | 131,834 | 116,052 | 141,118 | 98,440 | 96,569 | 35,145 | 1,347 | 148 | 658,393 | - | - | - | - | - | - | - | - | - | - | - |
| 2006 | - | - | 9,911 | 9,941 | 20,399 | 19,551 | 27,361 | 5,111 | 1,691 | 131 | 94,096 | - | - | - | - | - | - | - | - | - | - | - |
| 2007 | - | 2,619 | 43,951 | 5,346 | 44,717 | 37,096 | 12,380 | 1,356 | 717 | 3 | 148,185 | - | - | - | - | - | 5,036 | 519 | - | - |  | 5,555 |
| 2008 | - | - | - | - | - | - | 64 | 248 | 208 | - | 520 | - | - | - | - | - | - | - | - | - | - | - |
| 2009 | - | - | - | - | - | - | 105 | 332 | - | - | 437 | - | - | - | - | - | - | 9,278 | - | - | - | 9,278 |
| 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 | 28,029 | 96,083 | 38,365 | 27,483 | 12,187 | 701 | - | 280,242 | - | - | - | - | - | - | - | - | - | - | - |
| 2013 | - | 7,423 | 86,616 | 91,986 | 106,772 | 65,640 | 39,480 | 9,520 | 1,002 |  | 408,439 | - | - | - | - | - | - | - | - | - | - | - |
| 2014 | - | 15,554 | 83,687 | 69,490 | 73,386 | 91,088 | 21,023 | 5,500 | 469 | - | 360,197 | - | - | - | - | - | - | 3,296 | - | - | - | 3,296 |
| 2015 | - | 16,420 | 67,847 | 40,820 | 40,949 | 19,016 | 12,459 | 5,210 | 1,163 | - | 203,884 | - | - | - | - | - | - | - | - | - |  | - |
| 2016 | - | 6,597 | 19,390 | 18,343 | 11,264 | 26,961 | 11,279 | 1,458 | 182 |  | 95,474 | - | - | - | - | - | - | - | - | - | - | - |
| $2017^{\text {b/ }}$ | - | 553 | 6,817 | 10,058 | 13,019 | 18,293 | 10,358 | 2,282 | 96 | - | 61,476 | - | - | - | - | - | - | - | - | - | - | - |

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.
(Page 1 of 2)

| Year or Avg. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cape Falcon to Humbug Mt. ${ }^{\text {a/ }}$ |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | - | 63 | 212 | 1,460 | 12,416 | 37,987 | 18,656 | 8,798 | 3,531 | 182 | 83,279 |
| 2006 | - | 24 | 92 | 803 | 4,918 | 18,334 | 3,817 | 9,995 | 5,368 | 98 | 43,449 |
| 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 | - | 479 | 693 | 911 | 3,970 | 11,214 | 25,977 | 11,833 | 4,214 | -- | 59,291 |
| 2014 | - | 87 | 136 | 2,235 | 5,251 | 32,802 | 25,863 | 24,388 | 1,421 | -- | 92,183 |
| 2015 | - | 60 | 152 | 1,382 | 2,350 | 18,025 | 7,526 | 16,586 | 2,374 | -- | 48,455 |
| 2016 | - | 82 | 18 | 1,037 | 2,799 | 6,382 | 4,835 | 14,579 | 612 | -- | 30,344 |
| $2017{ }^{\text {b/ }}$ | - | 17 | 60 | 500 | 1,916 | 10,057 | 9,383 | 9,343 | 453 | -- | 31,729 |


| Humbug Mt. to Horse Mt. (KMZ) ${ }^{\text {a/ }}$ |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| 2001-2005 | - | - | - | 4,566 | 8,748 | 6,208 | 12,157 | 4,617 | 2,983 | - | 39,279 |
| 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 | - | - | - | 3,501 | 10,773 | 15,914 | 15,379 | 822 | 3,547 | - | 49,936 |
| 2014 | - | - | - | 5,588 | 6,409 | 12,723 | 7,475 | 868 | 4,639 | - | 37,702 |
| 2015 | - | - | - | 2,946 | 1,679 | 3,974 | 2,927 | 1,328 | 5,040 | - | 17,894 |
| 2016 | - | - | - | 1,682 | 2,622 | 3,273 | 2,134 | 1,558 | 1,872 | - | 13,141 |
| $2017{ }^{\text {b/ }}$ | - | - | - | - | - | - | - | - | 2,012 | - | 2,012 |

TABLEA-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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Horse Mt. to U.S./Mexico Border |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 1,263 | 15,054 | 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 |
| 2001-2005 | 371 | 2,645 | 27,879 | 23,256 | 24,370 | 41,406 | 23,848 | 10,068 | 4,148 | 1,148 | 159,140 |
| 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 |  | - | 19,602 | 15,187 | 18,315 | 36,160 | 20,012 | 5,521 | 2,245 | 426 | 117,468 |
| 2014 | - | - | 20,226 | 8,522 | 7,675 | 23,892 | 22,999 | 10,443 | 5,193 | 723 | 99,673 |
| 2015 |  | - | 11,085 | 7,401 | 9,210 | 16,244 | 15,118 | 10,293 | 3,483 | 5 | 72,839 |
| 2016 |  | - | 8,006 | 8,281 | 4,284 | 16,521 | 13,188 | 8,500 | 2,366 | 0 | 61,146 |
| $2017{ }^{\text {b/ }}$ | - | - | 10,119 | 4,964 | 6,574 | 22,404 | 19,225 | 8,433 | 1,833 | 0 | 73,552 |
| Total South of Cape Falcon ${ }^{2 /}$ |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 1,263 | 15,054 | 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 |
| 2001-2005 | 371 | 2,683 | 28,091 | 29,281 | 45,533 | 85,601 | 54,662 | 23,483 | 10,662 | 1,330 | 281,698 |
| 2006 | 289 | 322 | 19,290 | 22,818 | 38,913 | 53,213 | 13,501 | 21,417 | 10,276 | 546 | 180,585 |
| 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 | - | 479 | 20,295 | 19,599 | 33,058 | 63,288 | 61,368 | 18,176 | 10,006 | 426 | 226,695 |
| 2014 | - | 87 | 20,362 | 16,345 | 19,335 | 69,417 | 56,337 | 35,699 | 11,253 | 723 | 229,558 |
| 2015 | - | 60 | 11,237 | 11,729 | 13,239 | 38,243 | 25,571 | 28,207 | 10,897 | 5 | 139,188 |
| 2016 | - | 82 | 8,024 | 11,000 | 9,705 | 26,176 | 20,157 | 24,637 | 4,850 | 0 | 104,631 |
| $2017^{\text {b/ }}$ | - | 17 | 10,179 | 5,464 | 8,490 | 32,461 | 28,608 | 17,776 | 4,298 | 0 | 107,293 |

a/ Monthly totals for Oregon data are the sum of statistical w eeks w ith closest fit to the calendar month.
b/ Preliminary.

| (1) | 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 |  |  |  |  |  |  |  |  |  |  |
| $\Sigma$ | Cape Falcon to Humbug Mit. ${ }^{\text {a/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\bigcirc$ | 1981-1985 | - | - | - | 55 | 787 | 6,327 | 3,518 | 642 | 42 | -- | 11,326 | - | - | - | 2,321 | 18,010 | 62,626 | 40,922 | 4,706 | - | - | 119,511 |
| $N$ | 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 |
| $\xrightarrow{*}$ | 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 |
| $\checkmark$ | 1996-2000 | - | - | - | 107 | 142 | 1,987 | 1,233 | 738 | 503 | 36 | 4,726 | - | - | - | - | - | 8,452 | 42 | 12 | 1 | - | 5,127 |
| $\bigcirc$ | 2001-2005 | - | 3 | 61 | 266 | 3,544 | 13,052 | 7,832 | 4,085 | 1,338 | 31 | 30,212 | - | - | - | 8 | 6,461 | 28,005 | 7,878 | 163 | 21 | - | 42,529 |
| (1) | 2006 | - | 2 | 4 | 68 | 540 | 3,755 | 982 | 1,863 | 2,024 | 49 | 9,287 | - | - | - | - | 469 | 8,346 | 36 | 634 | - | - | 9,485 |
| $\checkmark$ | 2007 | - | 3 | 0 | 72 | 255 | 804 | 1,076 | 597 | 474 | 16 | 3,297 | - | - | - | 2 | 4,734 | 19,223 | 16,417 | 311 | - | - | 40,687 |
| 0 | 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 |
| $\bigcirc$ | 2010 | - | - | - | 75 | 207 | 380 | 1,108 | 439 | 122 | -- | 2,331 | - | - | - | - | 368 | 2,181 | 8,336 | 1,242 | - | - | 12,127 |
| $\checkmark$ | 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 |
| $\stackrel{\text { ® }}{ }$ | 2013 | - | 257 | 196 | 191 | 1,397 | 1,477 | 11,886 | 1,671 | 792 | -- | 17,867 | - | - | - | - | 9 | 4,748 | 2,650 | 2,658 | 19 | - | 10,084 |
| $\frac{\square}{\square}$. | 2014 | - | 10 | 32 | 266 | 826 | 2,973 | 3,241 | 1,870 | 137 | -- | 9,355 | - | - | - | 1 | 3,530 | 32,851 | 19,275 | 26,494 | 49 | - | 82,200 |
| $\infty$ | 2015 | - | 30 | 8 | 151 | 267 | 401 | 376 | 2,814 | 1,454 | -- | 5,501 | - | - | - | - | 458 | 11,841 | 2,557 | 4,426 | 22 | - | 19,304 |
|  | 2016 | - | 32 | 9 | 128 | 237 | 238 | 692 | 1,140 | 76 | -- | 2,552 | - | - | - | - | 245 | 1,180 | 79 | 4,178 | 22 | - | 5,704 |
|  | $2017{ }^{\text {b/ }}$ | - | 0 | 6 | 89 | 139 | 508 | 807 | 592 | 39 | -- | 2,180 | - | - | - | - | 350 | 5,772 | 3,940 | 4,590 | - | - | 14,652 |
|  | Humbug Mt. to Horse Mt. (KMZ) ${ }^{\text {a/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{\square}{0}$ | 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 |
| $)^{\infty}$ | 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 |
|  | 2001-2005 | - | - | - | 3,369 | 5,979 | 3,107 | 6,313 | 3,409 | 469 | - | 22,646 | - | - | - | 54 | 201 | 182 | 117 | 38 | 8 | - | 588 |
|  | 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 | - | - | - | 2,585 | 12,329 | 16,247 | 11,996 | 459 | 814 | - | 44,430 | - | - | - | - | 65 | 360 | 245 | - | 6 | - | 676 |
|  | 2014 | - | - | - | 4,413 | 5,756 | 7,784 | 3,259 | 319 | 1,115 | - | 22,646 | - | - | - | 22 | 119 | 696 | 9 | 3 | - | - | 849 |
|  | 2015 | - | - | - | 930 | 376 | 1,237 | 1,454 | 85 | 792 | - | 4,874 | - | - | - | - | 13 | 122 | 5 | 4 | 6 | - | 150 |
|  | 2016 | - | - | - | 1,454 | 1,025 | 1,506 | 649 | 582 | 287 | - | 5,503 | - | - | - | - | 29 | 45 | 3 | 2 | - | - | 79 |
|  | $2017{ }^{\text {b/ }}$ | - | - | - | - | - | - | - | - | 506 | - | 506 | - | - | - | - | - | - | - | - | - | - | - |

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

| Year or Avg. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHINOOK COHO |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Horse Mt. to U.S./Mexico Border |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 484 | 11,136 | 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 |
| 2001-2005 | 196 | 1,767 | 22,222 | 17,031 | 24,567 | 41,719 | 15,500 | 6,749 | 2,248 | 395 | 132,355 | - | - | 3 | 118 | 179 | 340 | 66 | 22 | - | - | 713 |
| 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 | - | - | 13,656 | 11,337 | 15,729 | 29,204 | 8,554 | 2,167 | 1,359 | 87 | 82,093 | - | - | - | - | 34 | 86 | 4 | - | - | - | 124 |
| 2014 | - | - | 13,924 | 3,912 | 2,699 | 15,235 | 13,642 | 6,403 | 3,073 | 125 | 59,013 | - | - | - | 4 | 30 | 163 | - | - | - | - | 197 |
| 2015 | - | - | 3,024 | 1,893 | 3,154 | 8,510 | 7,435 | 8,197 | 1,577 | 0 | 33,790 | - | - | - | 5 | 4 | 15 | 5 | - | - | - | 29 |
| 2016 | - | - | 2,030 | 4,239 | 1,522 | 11,549 | 7,101 | 5,933 | 638 | 0 | 33,012 | - | - | - | - | - | 35 | 8 | - | - | - | 43 |
| $2017{ }^{\text {b/ }}$ | - | - | 4,298 | 2,278 | 5,339 | 25,978 | 18,653 | 4,228 | 842 | 0 | 61,616 | - | - | - | 3 | - | 417 | 44 | - | - | - | 464 |

Total South of Cape Falcon ${ }^{\text {a/ }}$

| 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 | 484 | 11,136 | 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 |
| 2001-2005 | 157 | 1,769 | 22,283 | 20,665 | 34,090 | 57,878 | 29,645 | 14,243 | 4,055 | 427 | 185,213 | - |  | 3 | 176 | 6,841 | 28,528 | 8,062 | 202 | 25 | - | 43,830 |
| 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 | - | 9,89 |
| 2009 | - | - | - | - | 9 | 45 | 372 | 625 | 226 | -- | 1,277 | - | - | - | - | 4,865 | 39,124 | 25,384 | 816 | 6 | - | 70,19 |
| 2010 | - | - | 5,265 | 2,507 | 997 | 2,988 | 4,432 | 1,112 | 663 | -- | 17,964 | - |  | 8 | 7 | 436 | 2,215 | 8,430 | 1,266 | - | - | 12,36 |
| 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 | - | 13,10 |
| 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 | - | 14,50 |
| 2013 | - | 257 | 13,852 | 14,113 | 29,455 | 46,928 | 32,436 | 4,297 | 2,965 | 87 | 144,390 | - | - | - | - | 108 | 5,194 | 2,899 | 2,658 | 25 | - | 10,88 |
| 2014 | - | 10 | 13,956 | 8,591 | 9,281 | 25,992 | 20,142 | 8,592 | 4,325 | 125 | 91,014 | - | - | - | 27 | 3,679 | 33,710 | 19,284 | 26,497 | 49 | - | 83,24 |
| 2015 | - | 30 | 3,032 | 2,974 | 3,797 | 10,148 | 9,265 | 11,096 | 3,823 | 0 | 44,165 | - | - | - | 5 | 475 | 11,978 | 2,567 | 4,430 | 28 | - | 19,48 |
| 2016 | - | 32 | 2,039 | 5,821 | 2,784 | 13,293 | 8,442 | 7,655 | 1,001 | 0 | 41,067 | - | - | - | - | 274 | 1,260 | 90 | 4,180 | 22 | - | 5,82 |
| $2017{ }^{\text {b/ }}$ | - | 0 | 4,304 | 2,367 | 5,478 | 26,486 | 19,460 | 4,820 | 1,387 | 0 | 64,302 | - | - | - | 3 | 350 | 6,189 | 3,984 | 4,590 | - | - | 15,116 |

/ Monthly totals for Oregon data are the sum of statistical w eeks w ith closest fit to the calendar month.
b/ Preliminary.

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

| Year or Avg. | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S./Canada Border to Leadbetter Pt. - Non-Indian |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 402 | 141 | 357 | 294 | 80 | - | 1,242 |
| 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 | 721 | 498 | 471 | 405 | 83 | - | 2,178 |
| 2014 | 589 | 188 | 397 | 337 | 117 | - | 1,628 |
| 2015 | 818 | 484 | 491 | 450 | 127 | - | 2,370 |
| 2016 | 647 | 359 | 248 | 186 | - | - | 1,440 |
| $2017{ }^{\text {b/ }}$ | 762 | 606 | 380 | 411 | 121 | - | 2,280 |

U.S./Canada Border to Leadbetter Pt. - Treaty Indian ${ }^{\text {c/ }}$

| $1981-1985$ | 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 |
| $2001-2005$ | 47 | 66 | 100 | 116 | 69 | - | 397 |
| 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 | 192 | 152 | 140 | 24 | 1 | 600 |
| 2012 | 144 | 269 | 214 | 229 | 104 | 4 | 960 |
| 2013 | 279 | 206 | 369 | 583 | 159 | 0 | 1,596 |
| 2014 | 190 | 290 | 463 | 423 | 155 | 0 | 1,521 |
| 2015 | 320 | 371 | 388 | 268 | 107 | 1 | 1,454 |
| 2016 | 185 | 208 | 90 | 133 | 985 | 328 | 11 |
| $2017^{\text {b/ }}$ | 27 |  |  | 166 | 7 | 628 |  |
|  |  |  |  |  |  |  | 0 |


| 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 |
| 2001-2005 | 449 | 207 | 457 | 411 | 117 | - | 1,639 |
| 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 | 848 | 600 | 348 | 78 | 1 | 2,572 |
| 2012 | 508 | 902 | 666 | 535 | 302 | 4 | 2,913 |
| 2013 | 1,000 | 704 | 840 | 988 | 242 | 0 | 3,774 |
| 2014 | 779 | 478 | 860 | 760 | 272 | 0 | 3,149 |
| 2015 | 1,138 | 855 | 879 | 718 | 234 |  | 3,824 |
| 2016 | 832 | 567 | 381 | 277 | 11 | 7 | 2,068 |
| $2017{ }^{\text {b/ }}$ | 789 | 696 | 665 | 739 | 287 | 0 | 3,176 |

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

| Year or Avg. | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Leadbetter Pt. to Cape Falcon - Non-Indian |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 93 | 33 | 114 | 181 | 86 | - | 472 |
| 2006 | 587 | 350 | 1 | 81 | 99 | - | 1,118 |
| 2007 | 99 | 73 | 50 | 184 | 24 | - | 430 |
| 2008 | 306 | 362 | 36 | 66 | 13 | - | 783 |
| 2009 | 79 | 98 | 259 | 178 | 13 | - | 627 |
| 2010 | 91 | 310 | 164 | 136 | 23 | - | 724 |
| 2011 | 127 | 167 | 42 | 27 | 18 | - | 381 |
| 2012 | 63 | 299 | 51 | 27 | 83 | - | 523 |
| 2013 | 111 | 170 | 47 | 56 | 33 | - | 417 |
| 2014 | 705 | 128 | 203 | 100 | 74 | - | 1,210 |
| 2015 | 708 | 114 | 59 | 87 | 125 | - | 1,093 |
| 2016 | 149 | 130 | 51 | 83 | - | - | 413 |
| $2017{ }^{\text {b/ }}$ | 98 | 116 | 26 | 119 | 76 | - | 435 |

$\frac{\text { U.S./Canada Border to Cape Falcon }- \text { Non-Indian Total }}{1981-1985}$

| $1981-1985$ | 3,669 | 305 | 5,497 |
| :--- | ---: | ---: | ---: |
| $1986-1990$ | 2,598 | 895 | 671 |
| $1991-1995$ | 1,731 | 1,106 | 888 |
| $1996-2000$ | 223 | 126 | 158 |
| $2001-2005$ | 495 | 173 | 470 |
| 2006 | 946 | 731 | 100 |
| 2007 | 544 | 326 | 404 |
| 2008 | 552 | 715 | 259 |
| 2009 | 546 | 649 | 691 |
| 2010 | 602 | 1,168 | 665 |
| 2011 | 733 | 823 | 490 |
| 2012 | 427 | 932 | 503 |
| 2013 | 832 | 668 | 518 |
| 2014 | 1,294 | 316 | 600 |
| 2015 | 1,526 | 598 | 550 |
| 2016 | 796 | 489 | 299 |
| $2017^{\text {b/ }}$ | 860 | 722 | 406 |


| 3,294 | 149 | 1 | 12,915 |
| ---: | ---: | ---: | ---: |
| 1,447 | 858 | 22 | 5,377 |
| 879 | 407 | - | 3,756 |
| 227 | 19 | - | 487 |
| 475 | 166 | - | 1,713 |
| 377 | 268 | - | 2,422 |
| 298 | 32 | - | 1,604 |
| 279 | 73 | - | 1,878 |
| 498 | 147 | - | 2,531 |
| 564 | 69 | - | 3,068 |
| 235 | 72 | - | 2,353 |
| 333 | 281 | - | 2,476 |
| 461 | 116 | - | 2,595 |
| 437 | 191 | - | 2,838 |
| 537 | 252 | - | 3,463 |
| 269 | - | - | 1,853 |
| 530 | 197 | - | 2,715 |

U.S./Canada Border to Cape Falcon - Treaty Indian Total ${ }^{\text {c }}$

| $1981-1985$ | 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 |
| $2001-2005$ | 47 | 66 | 100 | 116 | 69 | - | 397 |
| 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 | 192 | 152 | 140 | 24 | 1 | 600 |
| 2012 | 144 | 269 | 214 | 229 | 104 | 4 | 960 |
| 2013 | 279 | 206 | 369 | 583 | 159 | 0 | 1,596 |
| 2014 | 190 | 290 | 463 | 423 | 155 | 0 | 1,521 |
| 2015 | 320 | 371 | 388 | 268 | 107 | 1 | 1,454 |
| 2016 | 185 | 208 | 133 | 91 | 11 | 7 | 628 |
| $2017^{\text {b/ }}$ | 27 | 90 | 285 | 328 | 166 | 0 | 896 |

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

| Year or Avg. | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S./Canada Border to Cape Falcon - Total Treaty Indian and Non-Indian ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |
| 1981-1985 | 3,748 | 446 | 5,781 | 3,607 | 295 | 17 | 13,878 |
| 1986-1990 | 2,736 | 884 | 702 | 1,907 | 504 | 6 | 6,737 |
| 1991-1995 | 1,108 | 735 | 537 | 1,014 | 292 | 10 | 3,686 |
| 1996-2000 | 210 | 139 | 74 | 232 | 61 | - | 716 |
| 2001-2005 | 541 | 239 | 570 | 592 | 168 | 10 | 2,111 |
| 2006 | 1,042 | 1,016 | 267 | 517 | 385 | 5 | 3,227 |
| 2007 | 566 | 531 | 593 | 465 | 39 | 0 | 2,194 |
| 2008 | 582 | 840 | 361 | 510 | 165 | 1 | 2,458 |
| 2009 | 628 | 887 | 924 | 767 | 152 | 4 | 3,358 |
| 2010 | 757 | 1,503 | 820 | 714 | 131 | 4 | 3,925 |
| 2011 | 825 | 1,015 | 642 | 375 | 96 | 1 | 2,953 |
| 2012 | 571 | 1,201 | 717 | 562 | 385 | 4 | 3,436 |
| 2013 | 1,111 | 874 | 887 | 1,044 | 275 | 0 | 4,191 |
| 2014 | 1,484 | 606 | 1,063 | 860 | 346 | 0 | 4,359 |
| 2015 | 1,846 | 969 | 938 | 805 | 359 | 1 | 4,917 |
| 2016 | 981 | 697 | 432 | 360 | 11 | 7 | 2,481 |
| $2017{ }^{\text {b/ }}$ | 887 | 812 | 691 | 858 | 363 | 0 | 3,611 |

a/ Monthly totals for Oregon data are the sum of statistical w eeks w ith 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.

| $\stackrel{1}{8}$ | Year or Avg. | May | June | July | Aug. | Sept. | Oct. | Season | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| © | CHINOOK |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |
|  | U.S./Canada Border to Leadbetter Pt. - Non-Indian |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N | 1981-1985 | 25,195 | 3,442 | 24,381 | 4,671 | 31 | - | 52,131 | - | - | 117,950 | 25,994 | 100 | - | 120,394 |
| $\bigcirc$ | 1986-1990 | 27,081 | 11,294 | 8,914 | 1,811 | 11 | - | 41,133 | - | - | 18,447 | 34,981 | 16 | - | 35,367 |
| $\checkmark$ | 1991-1995 | 15,857 | 11,859 | 3,929 | 1,279 | 1,118 | - | 24,589 | - | - | 7,119 | 13,592 | 8,242 | - | 23,332 |
| $\bigcirc$ | 1996-2000 | 5,247 | 2,897 | 4,030 | 1,456 | 3 | - | 9,880 | - | - | 3,905 | 5,207 | 193 | - | 7,939 |
| $\stackrel{1}{0}$ | 2001-2005 | 15,314 | 6,072 | 9,697 | 7,328 | 1,057 | - | 39,045 | - | - | 1,864 | 2,234 | 2,906 | - | 5,468 |
| $\bigcirc$ | 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 |
| $\overline{3}$ | 2008 | 1,451 | 3,350 | 1,173 | 1,161 | 259 | - | 7,394 | - | - | 351 | 917 | 361 | - | 1,629 |
| $\bigcirc$ | 2009 | 5,545 | 4,095 | 1,615 | 680 | 120 | - | 12,055 | - | - | 4,857 | 9,281 | 3,663 | - | 17,801 |
| 7 | 2010 | 8,219 | 22,332 | 6,113 | 7,267 | 282 | - | 44,213 | - | - | 1,085 | 744 | 124 | - | 1,953 |
| $\stackrel{0}{0}$ | 2011 | 7,682 | 9,315 | 6,015 | 2,520 | 338 | - | 25,870 | - | - | 1,630 | 892 | 493 | - | 3,015 |
| $\stackrel{\text { D }}{ }$ | 2012 | 10,366 | 10,371 | 5,312 | 6,398 | 2,158 | - | 34,605 | - | - | 746 | 1,116 | 1,317 | - | 3,179 |
| ¢ | 2013 | 10,487 | 11,848 | 7,816 | 8,689 | 690 | - | 39,530 | - | - | 1,892 | 3,764 | 258 | - | 5,914 |
|  | 2014 | 12,788 | 2,557 | 8,098 | 5,664 | 620 | - | 29,727 | - | - | 2,907 | 6,050 | 4,211 | - | 13,168 |
|  | 2015 | 12,922 | 14,408 | 12,610 | 9,831 | 1,517 | - | 51,288 | - | - | 687 | 998 | 497 | - | 2,182 |
|  | 2016 | 6,434 | 3,964 | 3,325 | 1,962 | - | - | 15,685 | - | - | - | - | - | - | - |
|  | $2017{ }^{\text {b/ }}$ | 13,356 | 7,246 | 5,706 | 5,285 | 766 | - | 32,359 | - | - | 217 | 719 | 301 | - | 1,237 |
| $\begin{aligned} & \mathbf{0} \\ & \mathrm{N} \end{aligned}$ | U.S./Canada Border to Leadbetter Pt. - Treaty Indian ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |
|  | 2001-2005 | 5,461 | 14,660 | 9,462 | 6,271 | 3,260 | 23 | 39,114 | 2 | 3 | 7,259 | 17,964 | 9,381 | 66 | 34,611 |
|  | 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 | 8,817 | 14,761 | 6,708 | 418 | 0 | 31,824 | 0 | 0 | 2,062 | 4,791 | 6,711 | 0 | 13,564 |
|  | 2012 | 4,465 | 20,696 | 10,144 | 14,650 | 4,834 | 10 | 54,789 | 1 | 101 | 2,769 | 18,790 | 15,869 | 0 | 37,530 |
|  | 2013 | 11,929 | 19,103 | 9,310 | 7,916 | 2,902 | 0 | 51,160 | 0 | 7 | 7,722 | 36,163 | 4,376 | 0 | 48,268 |
|  | 2014 | 12,608 | 17,025 | 20,645 | 8,857 | 2,715 | 0 | 61,850 | 0 | 30 | 10,405 | 39,272 | 6,404 | 0 | 56,111 |
|  | 2015 | 7,315 | 23,704 | 23,222 | 4,187 | 706 | 0 | 59,134 | 0 | 3 | 2,056 | 1,598 | 707 | 0 | 4,364 |
|  | 2016 | 2,905 | 13,766 | 5,164 | 1,324 | 84 | 113 | 23,243 | 0 | 0 | 29 | 15 | 0 | 1 | 44 |
| $\frac{0}{0}$ | $2017{ }^{\text {b/ }}$ | 1,253 | 2,043 | 15,779 | 4,632 | 757 | 0 | 24,464 | 0 | 0 | 1,003 | 7,150 | 5,147 | 0 | 13,300 |


| Year or Avg. | May | June | July | Aug. | Sept. | Oct. | Season | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHINOOK |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |
| U.S./Canada Border to Leadbetter Pt. - Total ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 20,775 | 20,732 | 19,159 | 13,599 | 3,895 | 23 | 78,159 | 2 | 3 | 8,751 | 20,198 | 11,125 | 66 | 40,079 |
| 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 | 18,132 | 20,776 | 9,228 | 756 | 0 | 57,694 | 0 | 0 | 3,692 | 5,683 | 7,204 | 0 | 16,579 |
| 2012 | 14,831 | 31,067 | 15,456 | 21,048 | 6,992 | 10 | 89,394 | 1 | 101 | 3,515 | 19,906 | 17,186 | 0 | 40,709 |
| 2013 | 22,416 | 30,951 | 17,126 | 16,605 | 3,592 | 0 | 90,690 | 0 | 7 | 9,614 | 39,927 | 4,634 | 0 | 54,182 |
| 2014 | 25,396 | 19,582 | 28,743 | 14,521 | 3,335 | 0 | 91,577 | 0 | 30 | 13,312 | 45,322 | 10,615 | 0 | 69,279 |
| 2015 | 20,237 | 38,112 | 35,832 | 14,018 | 2,223 | 0 | 110,422 | 0 | 3 | 2,743 | 2,596 | 1,204 | 0 | 6,546 |
| 2016 | 9,339 | 17,730 | 8,489 | 3,286 | 84 | 113 | 38,928 | 0 | 0 | 29 | 15 | 0 | 1 | 44 |
| $2017{ }^{\text {b/ }}$ | 14,609 | 9,289 | 21,485 | 9,917 | 1,523 | 0 | 56,823 | 0 | 0 | 1,220 | 7,869 | 5,448 | 0 | 14,537 |
| Leadbetter Pt. to Cape Falcon - Non-Indian |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 3,031 | 1,512 | 1,802 | 2,684 | 599 | - | 9,388 | - | - | 1,802 | 2,877 | 3,932 | - | 6,678 |
| 2006 | 8,913 | 3,532 | 1 | 62 | 105 | - | 12,613 | - | - | 17 | 944 | 527 | - | 1,488 |
| 2007 | 950 | 600 | 158 | 213 | 22 | - | 1,943 | - | - | 1,400 | 12,736 | 283 | - | 14,419 |
| 2008 | 2,977 | 3,355 | 136 | 185 | 23 | - | 6,676 | - | - | 53 | 421 | 37 | - | 511 |
| 2009 | 265 | 281 | 260 | 163 | 4 | - | 973 | - | - | 9,648 | 5,125 | 165 | - | 14,938 |
| 2010 | 790 | 6,882 | 2,289 | 1,894 | 151 | - | 12,006 | - | - | 736 | 406 | 49 | - | 1,191 |
| 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 | - | - | 61 | 37 | 615 | - | 713 |
| 2013 | 534 | 1,062 | 178 | 298 | 433 | - | 2,505 | - | - | 67 | 375 | 137 | - | 579 |
| 2014 | 20,242 | 1,278 | 2,880 | 472 | 290 | - | 25,162 | - | - | 2,962 | 2,392 | 4,587 | - | 9,941 |
| 2015 | 9,487 | 2,177 | 1,389 | 1,037 | 817 | - | 14,907 | - | - | 369 | 582 | 1,952 | - | 2,903 |
| 2016 | 1,175 | 1,089 | 428 | 1,025 | - | - | 3,717 | - | - | - | - | - | - | - |
| $2017^{\text {b/ }}$ | 1,228 | 874 | 124 | 632 | 343 | - | 3,201 | - | - | 30 | 355 | 216 | - | 601 |


| $\stackrel{1}{1}$ | Year or Avg. | May | June | July | Aug. | Sept. | Oct. | Season | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\stackrel{\text { ® }}{ }$ | CHINOOK |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |
| $\bigcirc$ | U.S./Canada Border to Cape Falcon - Non-Indian |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\xrightarrow{\sim}$ | 1981-1985 | 36,397 | 3,511 | 21,389 | 5,446 | 113 | 2 | 66,859 | - | - | 154,422 | 47,025 | 5,372 | - | 173,785 |
| $\bigcirc$ | 1986-1990 | 31,870 | 12,242 | 10,688 | 3,829 | 1,708 | 71 | 49,699 | - | - | 27,564 | 65,822 | 19,314 | 304 | 71,470 |
| $\checkmark$ | 1991-1995 | 17,321 | 12,216 | 4,063 | 1,537 | 1,220 | - | 26,331 | - | - | 8,030 | 23,097 | 10,866 | - | 35,261 |
| O | 1996-2000 | 5,255 | 2,961 | 4,030 | 2,688 | 92 | - | 10,590 | - | - | 3,905 | 9,887 | 715 | - | 12,967 |
| $\stackrel{1}{0}$ | 2001-2005 | 18,345 | 7,584 | 11,499 | 10,012 | 1,656 | - | 48,433 | - | - | 3,666 | 5,111 | 6,838 | - | 12,146 |
|  | 2006 | 13,648 | 7,080 | 1,074 | 3,520 | 1,936 | - | 27,258 | - | - | 139 | 1,760 | 780 | - | 2,679 |
| 0 | 2007 | 6,643 | 4,468 | 3,617 | 934 | 49 | - | 15,711 | - | - | 3,344 | 13,779 | 317 | - | 17,440 |
| \% | 2008 | 4,428 | 6,705 | 1,309 | 1,346 | 282 | - | 14,070 | - | - | 404 | 1,338 | 398 | - | 2,140 |
| $\bigcirc$ | 2009 | 5,810 | 4,376 | 1,875 | 843 | 124 | - | 13,028 | - | - | 14,505 | 14,406 | 3,828 | - | 32,739 |
| $\bar{T}$ | 2010 | 9,009 | 29,214 | 8,402 | 9,161 | 433 | - | 56,219 | - | - | 1,821 | 1,150 | 173 | - | 3,144 |
| $\stackrel{\square}{0}$ | 2011 | 9,211 | 11,258 | 6,130 | 2,771 | 368 | - | 29,738 | - | - | 1,865 | 1,064 | 588 | - | 3,517 |
| $\stackrel{\text { ® }}{\sim}$ | 2012 | 11,663 | 17,424 | 5,588 | 6,547 | 4,077 | - | 45,299 | - | - | 807 | 1,153 | 1,932 | - | 3,892 |
|  | 2013 | 11,021 | 12,910 | 7,994 | 8,987 | 1,123 | - | 42,035 | - | - | 1,959 | 4,139 | 395 | - | 6,493 |
|  | 2014 | 33,030 | 3,835 | 10,978 | 6,136 | 910 | - | 54,889 | - | - | 5,869 | 8,442 | 8,798 | - | 23,109 |
|  | 2015 | 22,409 | 16,585 | 13,999 | 10,868 | 2,334 | - | 66,195 | - | - | 1,056 | 1,580 | 2,449 | - | 5,085 |
|  | 2016 | 7,609 | 5,053 | 3,753 | 2,987 | - | - | 19,402 | - | - | - | - | - | - | - |
|  | $2017{ }^{\text {b/ }}$ | 14,584 | 8,120 | 5,830 | 5,917 | 1,109 | - | 35,560 | - | - | 247 | 1,074 | 517 | - | 1,838 |
|  | U.S./Canada Border to Cape Falcon - Treaty Indian ${ }^{\text {// }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |
|  | 2001-2005 | 5,461 | 14,660 | 9,462 | 6,271 | 3,260 | - | 39,114 | 2 | 3 | 7,259 | 17,964 | 9,381 | - | 34,611 |
|  | 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 | 8,817 | 14,761 | 6,708 | 418 | 0 | 31,824 | 0 | 0 | 2,062 | 4,791 | 6,711 | 0 | 13,564 |
|  | 2012 | 4,465 | 20,696 | 10,144 | 14,650 | 4,834 | 10 | 54,789 | 1 | 101 | 2,769 | 18,790 | 15,869 | 0 | 37,530 |
|  | 2013 | 11,929 | 19,103 | 9,310 | 7,916 | 2,902 | 0 | 51,160 | 0 | 7 | 7,722 | 36,163 | 4,376 | 0 | 48,268 |
|  | 2014 | 12,608 | 17,025 | 20,645 | 8,857 | 2,715 | 0 | 61,850 | 0 | 30 | 10,405 | 39,272 | 6,404 | 0 | 56,111 |
|  | 2015 | 7,315 | 23,704 | 23,222 | 4,187 | 706 | 0 | 59,134 | 0 | 3 | 2,056 | 1,598 | 707 | 0 | 4,364 |
|  | 2016 | 2,905 | 13,766 | 5,164 | 1,324 | 84 | 113 | 23,243 | 0 | 0 | 29 | 15 | 0 | 1 | 44 |
| $\begin{aligned} & \mathbf{0} \\ & \hline \mathbf{D} \end{aligned}$ | $2017{ }^{\text {b/ }}$ | 1,253 | 2,043 | 15,779 | 4,632 | 757 | 0 | 24,464 | 0 | 0 | 1,003 | 7,150 | 5,147 | 0 | 13,300 |


| Year or Avg. | May | June | July | Aug. | Sept. | Oct. | Season | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHINOOK |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |
| U.S./Canada Border to Cape Falcon - Total Treaty Indian and Non-Indian ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 23,805 | 22,244 | 20,961 | 16,283 | 4,254 | - | 87,547 | 2 | 3 | 10,192 | 23,075 | 13,484 | - | 46,757 |
| 2006 | 16,469 | 15,421 | 8,810 | 10,210 | 6,893 | 15 | 57,803 | 16 | 102 | 10,614 | 12,394 | 11,491 | 5 | 34,617 |
| 2007 | 6,959 | 19,097 | 6,966 | 5,513 | 119 | 0 | 38,654 | 0 | 12 | 26,087 | 30,202 | 1,177 | 0 | 57,478 |
| 2008 | 4,786 | 15,569 | 3,408 | 7,353 | 3,861 | 1 | 34,977 | 0 | 18 | 1,269 | 4,899 | 10,218 | 0 | 16,404 |
| 2009 | 7,301 | 10,204 | 4,204 | 3,409 | 136 | 25 | 25,254 | 0 | 0 | 39,927 | 49,547 | 3,928 | 15 | 93,402 |
| 2010 | 10,935 | 41,364 | 15,345 | 18,854 | 2,097 | 10 | 88,595 | 2 | 63 | 3,836 | 6,208 | 4,496 | 15 | 14,605 |
| 2011 | 10,331 | 20,075 | 20,891 | 9,479 | 786 | 0 | 61,562 | 0 | 0 | 3,927 | 5,855 | 7,299 | 0 | 17,081 |
| 2012 | 16,128 | 38,120 | 15,732 | 21,197 | 8,911 | 10 | 100,088 | 1 | 101 | 3,576 | 19,943 | 17,801 | 0 | 41,422 |
| 2013 | 22,950 | 32,013 | 17,304 | 16,903 | 4,025 | 0 | 93,195 | 0 | 7 | 9,681 | 40,302 | 4,771 | 0 | 54,761 |
| 2014 | 45,638 | 20,860 | 31,623 | 14,993 | 3,625 | 0 | 116,739 | 0 | 30 | 16,274 | 47,714 | 15,202 | 0 | 79,220 |
| 2015 | 29,724 | 40,289 | 37,221 | 15,055 | 3,040 | 0 | 125,329 | 0 | 3 | 3,112 | 3,178 | 3,156 | 0 | 9,449 |
| 2016 | 10,514 | 18,819 | 8,917 | 4,311 | 84 | 113 | 42,645 | 0 | 0 | 29 | 15 | 0 | 1 | 44 |
| $2017{ }^{\text {b/ }}$ | 15,837 | 10,163 | 21,609 | 10,549 | 1,866 | 0 | 60,024 | 0 | 0 | 1,250 | 8,224 | 5,664 | 0 | 15,138 |

$\stackrel{\rightharpoonup}{\circ} \quad \frac{a}{a}$ Monthly totals for Oregon data are the sum of statistical w eeks w ith 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). ${ }^{\text {a }}$ (Page 1 of 2)

| Year or Avg. | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S./Canada Border to Leadbetter Pt. - Non-Indian |  |  |  |  |  |  |  |
| 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 |
| 1997-2001 | 1 | 4 | 26 | 11 | 0 | - | 29 |
| 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 | - | 135 |
| 2011 | 0 | 0 | 3 | 118 | 93 | - | 215 |
| 2013 | 0 | 2 | 0 | 101 | 37 | - | 141 |
| 2015 | 0 | 1 | 20 | 47 | 0 | - | 68 |
| $2017{ }^{\text {b/ }}$ | 0 | 0 | 10 | 3 | 0 | - | 13 |

U.S./Canada Border to Leadbetter Pt. - Treaty Indian ${ }^{\mathrm{c} /}$

| $1981-1985$ | 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 |
| $1997-2001$ | 4 | 0 | 232 | 1,561 | 123 | 0 | 1,919 |
| 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 | 718 | 334 | 16 | 0 | 1,074 |
| 2013 | 0 | 0 | 89 | 120 | 0 | 0 | 209 |
| 2015 | 0 | 0 | 98 | 18 | 0 | 0 | 122 |
| $2017^{\text {b/ }}$ | 0 | 0 | 134 | 0 | 0 | 195 |  |

U.S./Canada Border to Leadbetter Pt. - Total ${ }^{\mathrm{c} /}$

| 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 |
| 1997-2001 | 5 | 4 | 249 | 1,568 | 123 | 0 | 1,948 |
| 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 | 935 |
| 2011 | 0 | 6 | 721 | 452 | 109 | 1 | 1,289 |
| 2013 | 0 | 2 | 89 | 221 | 37 | 1 | 350 |
| 2015 | 0 | 7 | 118 | 65 | 0 | 0 | 190 |
| $2017{ }^{\text {b/ }}$ | 0 | 0 | 71 | 137 | 0 | 0 | 208 |
| Leadbetter Pt. to Cape Falcon - Non-Indian |  |  |  |  |  |  |  |
| 1981-1985 | 5 | 4 | 842 | 2,327 | 0 | 0 | 3,178 |
| 1986-1990 | 0 | 0 | 109 | 1 | 1 | - | 111 |
| 1991-1995 | 0 | 0 | 0 | 55 | 0 | - | 55 |
| 1997-2001 | 65 | 17 | 17 | 17 | 0 | - | 115 |
| 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 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| 2015 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| $2017{ }^{\text {b/ }}$ | 0 | 0 | 0 | 0 | 0 | - | 0 |

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). ${ }^{\text {a/ }}$ (Page 2 of 2)

| Year or Avg. | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S./Canada Border to Cape Falcon - Non-Indian |  |  |  |  |  |  |  |
| 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 |
| 1997-2001 | 66 | 21 | 34 | 24 | 0 | - | 145 |
| 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 | - | 153 |
| 2011 | 0 | 36 | 8 | 126 | 93 | 1 | 264 |
| 2013 | 0 | 2 | 0 | 101 | 37 | 1 | 141 |
| 2015 | 0 | 1 | 20 | 47 | 0 | 0 | 68 |
| $2017{ }^{\text {b/ }}$ | 0 | 0 | 10 | 3 | 0 | 0 | 13 |

U.S./Canada Border to Cape Falcon - Treaty Indian ${ }^{0 /}$

| $1981-1985$ | 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 |
| $1997-2001$ | 4 | 0 | 232 | 1,561 | 123 | 0 | 1,919 |
| 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 | 718 | 334 | 16 | 0 | 1,074 |
| 2013 | 0 | 0 | 69 | 120 | 0 | 0 | 209 |
| 2015 | 0 | 0 | 98 | 18 | 0 | 0 | 122 |
| $2017^{b /}$ | 0 | 0 | 134 | 0 | 0 | 195 |  |


| 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 |
| 1997-2001 | 70 | 21 | 266 | 1,585 | 123 | 0 | 2,064 |
| 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 | 953 |
| 2011 | 0 | 42 | 726 | 460 | 109 | 1 | 1,338 |
| 2013 | 0 | 2 | 89 | 221 | 37 | 1 | 350 |
| 2015 | 0 | 7 | 118 | 65 | 0 | 0 | 190 |
| $2017{ }^{\text {b/ }}$ | 0 | 0 | 71 | 137 | 0 | 0 | 208 |

a/ Monthly totals for Oregon data are the sum of statistical w eeks w ith 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. ${ }^{\text {a/ }}$

| Year or Avg. | Apr. | May | June | July | Aug. | Sept. | Oct. | Season ${ }^{\text {b/ }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S./Canada Border to Leadbetter Pt. ${ }^{\text {// }}$ |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | - | 2,496 | 5,660 | 29,924 | 24,054 | 6,828 | 132 | 65,964 |
| 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 | - | - | 9,627 | 17,413 | 19,168 | 8,128 | 353 | 54,689 |
| 2013 | - | 951 | 8,973 | 16,010 | 23,946 | 5,400 | 237 | 55,518 |
| 2014 | - | 1,643 | 10,331 | 28,529 | 24,393 | 10,089 | 365 | 75,349 |
| 2015 | - | 1,441 | 8,974 | 28,779 | 15,566 | 8,666 | 300 | 63,725 |
| 2016 | - | - | - | 17,792 | 9,391 | - | - | 27,183 |
| $2017{ }^{\text {d/ }}$ | - | - | 468 | 21,556 | 15,822 | 842 | - | 38,688 |
| Leadbetter Pt. to Cape Falcon |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | - | 370 | 1,040 | 17,361 | 33,383 | 9,814 | 6 | 61,257 |
| 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 | - | - | 2,645 | 7,419 | 12,108 | 5,635 | - | 27,808 |
| 2013 | - | - | 4,436 | 6,162 | 16,293 | 3,740 | - | 30,632 |
| 2014 | - | 78 | 3,283 | 14,885 | 28,896 | 9,382 | - | 56,523 |
| 2015 | - | 269 | 3,046 | 11,243 | 18,589 | 8,872 | - | 42,018 |
| 2016 | - | - |  | 9,586 | 18,999 | - | - | 28,586 |
| $2017{ }^{\text {d/ }}$ | - | - | 975 | 11,229 | 19,128 | - | - | 31,333 |
| U.S./Canada Border to Cape Falcon ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |  |
| 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 | - | 2,866 | 6,440 | 47,285 | 57,436 | 16,642 | 133 | 127,222 |
| 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 | - | - | 12,272 | 24,832 | 31,276 | 13,763 | 353 | 82,497 |
| 2013 | - | 951 | 13,409 | 22,173 | 40,240 | 9,140 | 237 | 86,150 |
| 2014 | - | 1,720 | 13,614 | 43,413 | 53,289 | 19,471 | 365 | 131,872 |
| 2015 | - | 1,710 | 12,019 | 40,022 | 34,155 | 17,537 | 300 | 105,743 |
| 2016 | - | , | , | 27,378 | 28,390 | - | - | 55,769 |
| $2017{ }^{\text {d/ }}$ | - | - | 1,444 | 32,785 | 34,950 | 842 | - | 70,021 |

$\mathrm{a} /$ Monthly totals for Oregon data are the sum of statistical w eeks w ith 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 w aters Area 4B fishery in 1991, 1992, 1993, 1996, 1997, 1998, 2000, and 2008.
d/ Preliminary.

| $\stackrel{(0)}{+}$ | Year or Avg. | April | May | June | July | Aug. | Sept. | Oct. | Season ${ }^{\text {b/ }}$ | April | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| © | CHINOOK |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |  |
| $\sum$ | U.S./Canada Border to Leadbetter Pt. ${ }^{\text {// }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N | 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 |
| $\bigcirc$ | 1986-1990 | - | 790 | 1,653 | 12,706 | 5,373 | 1,161 | - | 20,256 | - | 19 | 2,439 | 58,151 | 35,746 | 6,320 | 45 | 102,190 |
| $\checkmark$ | 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 |
| $\bigcirc$ | 1996-2000 | - | - | - | 2,246 | 1,846 | 467 | - | 4,016 | - | - | - | 10,579 | 14,909 | 2,343 | - | 25,715 |
| (1) | 2001-2005 | - | - | - | 13,147 | 8,805 | 2,033 | 51 | 28,307 | - | - | - | 22,401 | 22,887 | 6,994 | 10 | 53,416 |
| 5 | 2006 | - | - | 202 | 3,274 | 4,522 | 813 | 91 | 8,902 | - | - | 416 | 6,514 | 8,287 | 1,466 | 2 | 16,686 |
| 0 | 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 |
| 극 | 2009 | - | - | 182 | 3,551 | 3,994 | 325 | 97 | 8,149 | - | - | 823 | 17,496 | 44,998 | 10,692 | 92 | 74,101 |
| $\frac{71}{6}$ | 2010 | - | - | 4,893 | 11,814 | 12,753 | 1,960 | 45 | 31,465 | - | - | 46 | 5,817 | 6,275 | 5,297 | 37 | 17,473 |
| $\stackrel{\rightharpoonup}{\text { o }}$ | 2011 | - | - | 2,509 | 7,462 | 13,071 | 559 | 5 | 23,607 | - | - | 331 | 6,989 | 8,694 | 2,931 | 2 | 18,947 |
| $\stackrel{\square}{\square}$ | 2012 | - | - | 8,472 | 8,020 | 8,325 | 1,366 | 133 | 26,315 | - | - | 211 | 7,240 | 7,521 | 6,722 | 21 | 21,715 |
| $\infty$ | 2013 | - | 131 | 2,927 | 7,363 | 10,450 | 1,300 | 119 | 22,289 | - | - | 693 | 6,619 | 17,182 | 5,169 | 18 | 29,681 |
|  | 2014 | - | 585 | 5,110 | 12,890 | 11,155 | 1,133 | 110 | 30,984 | - | - | 6,225 | 20,342 | 22,382 | 15,578 | 199 | 64,725 |
|  | 2015 | - | 534 | 5,081 | 15,662 | 5,672 | 2,903 | 164 | 30,017 | - | - | 2,608 | 15,085 | 8,787 | 12,533 | 13 | 39,027 |
|  | 2016 | - | - | - | 7,431 | 4,520 | - | - | 11,951 | - | - | - | 63 | 38 | - | - | 101 |
|  | $2017{ }^{\text {d/ }}$ | - | - | 250 | 10,590 | 3,442 | 91 | - | 14,374 | - | - | 58 | 8,590 | 11,454 | 930 | - | 21,032 |
| $\stackrel{\rightharpoonup}{6}$ | Leadbetter Pt. to Cape Falcon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |
|  | 2001-2005 | - | - | - | 2,588 | 5,500 | 1,068 | 3 | 9,648 | - | - | 663 | 25,195 | 43,314 | 10,042 | - | 78,949 |
|  | 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 | - | - | 2,031 | 1,679 | 4,076 | 760 | - | 8,547 | - | - | 3,430 | 4,998 | 10,305 | 1,739 | - | 20,472 |
|  | 2014 | - | 65 | 1,067 | 3,198 | 6,421 | 596 | - | 11,347 | - | - | 2,614 | 19,863 | 38,532 | 14,063 | - | 75,072 |
|  | 2015 | - | 89 | 1,216 | 1,853 | 5,866 | 3,146 | - | 12,171 | - | - | 3,339 | 16,089 | 18,628 | 6,494 | - | 44,551 |
| $D$ | 2016 | - | - | - | 2,741 | 3,255 | - | - | 5,997 | - | - | - | 5,607 | 13,005 | - | - | 18,612 |
| 뭉 | $2017{ }^{\text {d/ }}$ | - | - | 649 | 2,758 | 4,164 | - | - | 7,571 | - | - | 43 | 7,973 | 13,609 | - | - | 21,625 |


| Year or Avg. | April | May | June | July | Aug. | Sept. | Oct. | eason ${ }^{\text {b/ }}$ | April | May | June | July | Aug. | Sept. | Oct. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHINOOK |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |  |  |
| U.S./Canada Border to Cape Falcon ${ }^{\text {c/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 15,453 | 9,841 | 1,241 | - | 27,836 | - | 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 |
| 2001-2005 | - | 2,640 | 5,295 | 15,735 | 14,305 | 3,100 | 51 | 37,955 | - | 5 | 1,900 | 47,596 | 66,201 | 17,036 | 10 | 132,365 |
| 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 | - | 131 | 4,957 | 9,042 | 14,526 | 2,061 | 119 | 30,836 | - | - | 4,123 | 11,617 | 27,488 | 6,908 | 18 | 50,153 |
| 2014 | - | 650 | 6,177 | 16,088 | 17,576 | 1,729 | 110 | 42,331 | - | - | 8,839 | 40,205 | 60,914 | 29,640 | 199 | 139,797 |
| 2015 | - | 623 | 6,298 | 17,515 | 11,539 | 6,049 | 164 | 42,188 | - | - | 5,947 | 31,174 | 27,416 | 19,027 | 13 | 83,577 |
| 2016 | - | - | - | 10,172 | 7,775 | - | - | 17,947 | - | - | - | 5,670 | 13,043 | - | - | 18,713 |
| $2017^{\text {d/ }}$ | - | - | 899 | 13,348 | 7,607 | 91 | - | 21,945 | - | - | 101 | 16,563 | 25,063 | 930 | - | 42,657 |

a/ Monthly totals for Oregon data are the sum of statistical w eeks w ith closest fit to the calendar month. Washington data are summarized by statistical month.
b/ Includes minor effort in November in some years.
c/ Includes catch from the Washington State w aters Area 4B fishery in 1991, 1992, 1993, 1996, 1997, 1998, 2000, and 2008.
d/ Preliminary.

## APPENDIX B <br> HISTORICAL RECORD OF ESCAPEMENTS TO INLAND FISHERIES AND SPAWNING AREAS

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TABLE B-1. Sacramento River fall Chinook salmon escapement in numbers of fish. ${ }^{\text {ab/ } /}$

| Year or <br> Average | Upper Sacramento Natural Areas ${ }^{\mathrm{cld} / \mathrm{l} / \mathrm{l}}$ |  | Low er Sacramento Natural Areas ${ }^{\text {c/ }}$ |  |  |  |  |  | Natural Area Totals ${ }^{\text {c }}$ |  | Sacramento Hatcheries |  |  |  |  |  | Hatchery Totals |  | Sacramento Totals |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Feather River |  | Yuba River |  | American River |  |  |  | Coleman |  | Feather River |  | Nimbus ${ }^{\text {// }}$ |  |  |  |  |  |
|  | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults ${ }^{\text {g }}$ | Jacks | Adults | Jacks |
| 1981-1985 | 57,913 | 22,432 | 36,252 | 5,243 | 12,825 | 5,146 | 32,332 | 4,954 | 139,322 | 37,775 | 11,557 | 3,734 | 6,845 | 884 | 10,543 | 2,444 | 30,303 | 7,877 | 169,625 | 45,651 |
| 1986-1990 | 87,396 | 17,244 | 38,709 | 6,426 | 9,261 | 2,444 | 24,420 | 3,323 | 159,787 | 29,437 | 11,507 | 2,288 | 5,837 | 1,947 | 6,927 | 1,943 | 24,271 | 6,178 | 184,057 | 35,616 |
| 1991-1995 | 60,151 | 11,496 | 32,578 | 4,355 | 8,309 | 2,131 | 28,549 | 4,151 | 129,587 | 22,134 | 11,948 | 2,295 | 10,537 | 2,762 | 7,669 | 1,664 | 30,154 | 6,721 | 159,741 | 28,855 |
| 1996-2000 | 153,777 | 8,383 | 54,225 | 6,806 | 20,233 | 4,600 | 59,315 | 8,243 | 287,550 | 28,033 | 29,965 | 3,001 | 13,342 | 1,497 | 11,093 | 3,225 | 54,400 | 7,722 | 341,949 | 35,756 |
| 2001 | 179,198 | 11,853 | 169,588 | 9,114 | 21,567 | 1,825 | 167,062 | 13,553 | 537,415 | 36,345 | 23,710 | 988 | 24,001 | 871 | 11,649 | 4,547 | 59,360 | 6,406 | 596,775 | 42,751 |
| 2002 | 474,812 ${ }^{\text {/ }}$ | 11,259 | 93,766 | 11,397 | 18,406 | 4,796 | 95,711 | 10,635 | 682,695 | 38,087 | 61,895 | 4,029 | 17,516 | 2,991 | 7,762 | 8,146 | 87,173 | 15,166 | 769,868 | 53,253 |
| 2003 | 164,802 | 4,402 | 85,578 | 4,369 | 26,820 | 1,489 | 136,238 | 9,627 | 413,438 | 19,887 | 82,882 | 5,352 | 13,615 | 1,352 | 13,081 | 7,032 | 109,578 | 13,736 | 523,016 | 33,623 |
| 2004 | 70,548 | 7,220 | 48,580 | 5,591 | 9,260 | 5,208 | 75,090 | 13,774 | 203,478 | 31,793 | 52,145 | 17,027 | 15,769 | 5,535 | 15,493 | 21,390 | 83,407 | 43,952 | 286,885 | 75,745 |
| 2005 | 96,716 | 3,267 | 43,738 | 4,848 | 16,251 | 987 | 54,001 | 2,842 | 210,706 | 11,944 | 139,979 | 2,694 | 20,597 | 1,787 | 24,723 | 3,437 | 185,299 | 7,918 | 396,005 | 19,862 |
| 2006 | 89,933 | 2,874 | 75,545 | 1,869 | 7,891 | 230 | 21,755 | 1,145 | 195,124 | 6,118 | 56,819 | 1,013 | 13,400 | 634 | 9,687 | 681 | 79,906 | 2,328 | 275,030 | 8,446 |
| 2007 | 36,079 | 978 | 21,541 | 321 | 2,523 | 81 | 9,855 | 130 | 69,998 | 1,510 | 11,543 | 201 | 5,169 | 172 | 4,664 | 21 | 21,376 | 394 | 91,374 | 1,904 |
| 2008 | 36,274 | 2,074 | 5,703 | 236 | 3,084 | 424 | 1,791 | 154 | 46,852 | 2,888 | 10,181 | 458 | 5,031 | 323 | 3,300 | 453 | 18,512 | 1,234 | 65,364 | 4,122 |
| 2009 | 12,277 | 1,624 | 3,950 | 897 | 3,992 | 803 | 3,118 | 575 | 23,337 | 3,899 | 5,433 | 719 | 6,240 | 3,723 | 5,863 | 1,126 | 17,536 | 5,568 | 40,873 | 9,467 |
| 2010 | 25,682 | 6,872 | 40,981 | 3,933 | 12,074 | 1,023 | 5,831 | 1,742 | 84,568 | 13,570 | 8,666 | 8,572 | 17,215 | 2,757 | 13,821 | 2,389 | 39,702 | 13,718 | 124,270 | 27,288 |
| 2011 | 20,466 | 15,096 | 35,656 | 11,633 | 6,917 | 2,204 | 13,432 | 7,888 | 76,471 | 36,821 | 19,312 | 23,068 | 15,925 | 16,691 | 7,634 | 8,963 | 42,871 | 48,722 | 119,342 | 85,543 |
| 2012 | 67,190 | 7,125 | 57,507 | 6,142 | 6,009 | 1,722 | 32,459 | 2,441 | 163,165 | 17,430 | 77,318 | 8,198 | 33,628 | 8,533 | 11,318 | 1,862 | 122,264 | 18,593 | 285,429 | 36,023 |
| 2013 | 89,409 | 6,228 | 145,650 | 5,559 | 13,830 | 1,050 | 52,631 | 1,628 | 301,520 | 14,465 | 67,822 | 2,199 | 25,152 | 2,470 | 11,706 | 1,339 | 104,680 | 6,008 | 406,200 | 20,473 |
| 2014 | 80,056 | 7,359 | 55,480 | 5,241 | 9,885 | 1,819 | 22,298 | 2,205 | 167,719 | 16,624 | 18,280 | 976 | 18,824 | 4,596 | 7,645 | 2,670 | 44,749 | 8,242 | 212,468 | 24,866 |
| 2015 | 40,687 | 3,350 | 18,069 | 2,497 | 2,993 | 3,514 | 11,448 | 2,345 | 73,197 | 11,706 | 13,819 | 1,895 | 18,081 | 2,707 | 7,850 | 3,918 | 39,750 | 8,520 | 112,947 | 20,226 |
| 2016 | 10,563 | 803 | 34,029 | 4,713 | 2,143 | 1,422 | 7,129 | 3,355 | 53,864 | 10,293 | 8,306 | 225 | 17,594 | 2,962 | 9,910 | 3,503 | 35,810 | 6,690 | 89,674 | 16,983 |
| 2017 ${ }^{\text {j }}$ | 2,501 | 3,645 | 8,343 | 2,221 | 1,173 ${ }^{\text {k }}$ | $461{ }^{\mathrm{k}}$ | 5,518 | 1,939 | 17,535 | 8,266 | 1,311 | 5,084 | 15,736 | 8,009 | 9,992 " | 3,016 ${ }^{\prime \prime}$ | 27,039 | 16,109 | 44,574 | 24,375 |
| GOALS | - | - | - | - | - | - | - | - | - | - | $12,000^{\text {m/ }}$ | - | 6,000 ${ }^{\text {m/ }}$ | - | 4,000 ${ }^{\text {m/ }}$ | - | 22,000 ${ }^{\text {m/ }}$ |  | 122,000 ${ }^{\text {// }}$ |  |

a/ In 2004, CDFW review ed and updated 1971-2003 escapement estimates to reflect final project reports.
b/ Chinook spaw ning during the fall; may include spring run fish in some survey areas.
c/ Most natural area estimates based on carcass surveys w ith a jack length cut-off.
d/ Upper Sacramento mainstem estimates generally based on carcass surveys w ith a jack length cut-off, how ever, 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.
e/ Upper Sacramento River escapement includes Sacramento River mainstem; Battle, Clear, Mill, Deer, Butte, Cottonw ood, and Cow creeks; and other small tributaries when surveys were conducted. Specific escapement estimates by tributary can be found at w w w .calfish.org
f/ Nimbus Fish Hatchery adult and jack counts include fish taken at Nimbus Weir, 1979-current
g/ Total adults in Sacramento hatcheries include Tehama-Colusa Fish Facility escapements, 1971-1985
h/ Survey methodology w as variable; may not be comparable to other surveys.
i/ Change in estimation methodology due to extremely high Battle Creek escapement.
Preliminary.
V/ Yuba River escapement is typically a sum of the video count above Daguerre Point Dam (DPD) and the carcass survey estimate below DPD. The 2017 value for below DPD was only a minimum count of carcasses handled.
Nimbus Fish Hatchery opened three w eeks early to collect anticipated stray Chinook originating from Coleman National Fish Hatchery. During this time, 2,886 fish w ere collected.
m Current hatchery-specific goals, not PFMC goals.
$\mathrm{n} /$ Sacramento River fall Chinook $\mathrm{S}_{\mathrm{MSY}}$.

TABLE B-2. $\quad$ San Joaquin River fall Chinook salmon escapement in numbers of fish. ${ }^{\text {a/ }}$

| Year or <br> Average | San Joaquin Natural Areas ${ }^{\text {b/ }}$ |  |  |  |  |  |  |  |  |  |  |  | San Joaquin Hatcheries |  |  |  |  |  | San Joaquin Totals |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mokelumne River |  | Stanislaus River |  | Tuolumne River |  | Merced River |  | Other Tributaries ${ }^{\text {c/d/ }}$ |  | Totals |  | Mokelumne River |  | Merced River |  | Totals |  |  |  |
|  | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks |
| 1981-1985 | 7,346 | 394 | 4,649 | 633 | 12,902 | 5,143 | 9,749 | 4,551 | 284 | 0 | 34,930 | 10,721 | 759 | 734 | 797 | 449 | 1,556 | 1,183 | 36,486 | 11,904 |
| 1986-1990 | 1,294 | 162 | 4,174 | 824 | 2,951 | 2,910 | 2,414 | 480 | 20 | 0 | 10,853 | 4,377 | 278 | 286 | 299 | 140 | 577 | 426 | 11,430 | 4,803 |
| 1991-1995 | 865 | 281 | 472 | 123 | 264 | 139 | 1,026 | 360 | 0 | 0 | 2,626 | 904 | 1,077 | 554 | 239 | 233 | 1,316 | 788 | 3,943 | 1,691 |
| 1996-2000 | 2,334 | 791 | 3,536 | 802 | 7,144 | 2,160 | 3,838 | 873 | 0 | 0 | 16,853 | 4,626 | 3,413 | 1,052 | 769 | 525 | 4,182 | 1,576 | 21,035 | 6,203 |
| 2001 | 1,755 | 467 | 6,140 | 719 | 7,852 | 1,369 | 8,084 | 1,133 | 0 | 0 | 23,831 | 3,688 | 4,467 | 1,427 | 1,137 | 523 | 5,604 | 1,950 | 29,435 | 5,638 |
| 2002 | 2,244 | 596 | 5,848 | 952 | 6,192 | 1,008 | 7,568 | 1,232 | 0 | 0 | 21,852 | 3,788 | 5,800 | 2,119 | 1,250 | 588 | 7,050 | 2,707 | 28,902 | 6,495 |
| 2003 | 1,571 | 552 | 6,707 | 889 | 2,620 | 234 | 3,621 | 489 | 0 | 0 | 14,519 | 2,164 | 5,108 | 3,009 | 392 | 157 | 5,500 | 3,166 | 20,019 | 5,330 |
| 2004 | 1,175 | 413 | 2,848 | 1,220 | 1,029 | 605 | 2,197 | 1,073 | 0 | 0 | 7,250 | 3,310 | 5,477 | 4,879 | 456 | 594 | 5,933 | 5,473 | 13,183 | 8,783 |
| 2005 | 9,574 | 832 | 2,984 | 332 | 647 | 72 | 1,900 | 211 | 738 | 130 | 15,843 | 1,577 | 5,035 | 528 | 346 | 75 | 5,381 | 603 | 21,224 | 2,180 |
| 2006 | 1,555 | 177 | 1,718 | 205 | 457 | 105 | 1,262 | 167 | 630 | 15 | 5,622 | 669 | 2,801 | 1,338 | 130 | 20 | 2,931 | 1,358 | 8,553 | 2,027 |
| 2007 | 461 | 9 | 368 | 75 | 193 | 31 | 446 | 49 | 53 | 0 | 1,521 | 164 | 1,004 | 40 | 70 | 9 | 1,074 | 49 | 2,595 | 213 |
| 2008 | 83 | 90 | 1,253 | 139 | 358 | 14 | 316 | 73 | 0 | 0 | 2,010 | 316 | 116 | 123 | 39 | 37 | 155 | 160 | 2,165 | 476 |
| 2009 | 320 | 360 | 554 | 194 | 130 | 70 | 390 | 64 | 0 | 0 | 1,394 | 688 | 730 | 823 | 109 | 137 | 839 | 960 | 2,233 | 1,648 |
| 2010 | 1,640 | 280 | 793 | 293 | 329 | 211 | 501 | 150 | 740 | 0 | 4,003 | 934 | 3,543 | 1,733 | 115 | 31 | 3,658 | 1,764 | 7,661 | 2,698 |
| 2011 | 705 | 1,962 | 433 | 630 | 231 | 647 | 640 | 975 | 518 | 0 | 2,527 | 4,214 | 2,409 | 13,513 | 99 | 338 | 2,508 | 13,851 | 5,035 | 18,065 |
| 2012 | 3,836 | 1,635 | 3,550 | 456 | 485 | 298 | 1,947 | 310 | 1,034 | 149 | 10,852 | 2,848 | 4,430 | 2,190 | 628 | 372 | 5,058 | 2,562 | 15,910 | 5,410 |
| 2013 | 5,806 | 1,265 | 2,562 | 283 | 1,798 | 128 | 2,673 | 153 | 0 | 0 | 12,839 | 1,829 | 3,698 | 1,483 | 918 | 180 | 4,616 | 1,663 | 17,455 | 3,492 |
| 2014 | 1,973 | 1,324 | 1,837 | 1,227 | 150 | 56 | 611 | 249 | 401 | 0 | 4,972 | 2,856 | 4,417 | 4,403 | 229 | 582 | 4,646 | 4,985 | 9,618 | 7,841 |
| 2015 | 3,090 | 1,514 | 4,050 | 2,086 | 42 | 71 | 860 | 387 | 180 | 0 | 8,222 | 4,058 | 5,170 | 3,128 | 556 | 642 | 5,726 | 3,770 | 13,948 | 7,828 |
| 2016 | 1,279 | 705 | 5,231 | 3,961 | 661 | 696 | 1,232 | 2,099 | 986 | 262 | 9,389 | 7,723 | 3,314 | 3,573 | 1,995 | 970 | 5,309 | 4,543 | 14,698 | 12,266 |
| $2017{ }^{\text {e/ }}$ | 4,613 | 1,025 | 3,619 | 2,036 | 674 | 422 | 2,042 | 1,149 | 575 | 95 | 11,523 | 4,727 | 4,647 | 9,666 | 602 | 1,099 | 5,249 | 10,765 | 16,772 | 15,492 |
| GOALS ${ }^{\text {f/ }}$ | - | - | - | - | - | - | - | - | - | - | - | - | $3,000^{9 /}$ | - | 1,000 | - | 4,000 | - | - |  |

a/ In 2004, CDFW review ed and updated 1971-2003 escapement estimates to reflect final project reports.
b/ Most natural area estimates based on carcass surveys with a jack length cut-off.
c/ Other San Joaquin tributary escapement includes Cosumnes and Calaveras Rivers when surveys w ere conducted. In some years no survey was conducted due to logistical or environmental limitations.
d/ Calculating jack proportions $w$ as not possible in some years due to sampling and/or environmental limitations. In those years jacks are included in the adult escapement values.
e/ Preliminary.
f/ Current hatchery-specific goals, not PFMC goals.
g/ Due to modernization of the hatchery facility and improved efficiencies, the Mokelumne Hatchery escapement goal was reduced from 5,000 to 3,000 adults in 2010 .

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

| Year or <br> Average | Upper Sacramento River |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Late-Fall ${ }^{\text {ab/c/ }}$ |  | Winter ${ }^{\text {c/d/ }}$ |  |  |  | Spring |  |  |  |  |
|  |  |  | $\mathrm{RBDD}^{\text {a/ }}$ |  | Carcass Survey |  | Tributary ${ }^{\text {e/ }}$ | Sacramento River ${ }^{\text {i }}$ |  | Feather River ${ }^{\text {g }}$ |  |
|  | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults and Jacks ${ }^{\text {h/ }}$ | Adults | Jacks | Adults | Jacks |
| 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 ${ }^{\text {i/ }}$ | $383{ }^{\text {i/ }}$ | 586 | 78 | -- | -- | 2,813 | 410 | 165 | 3,441 | 465 |
| 1996-2000 | $16,061{ }^{\text {// }}$ | 2,478 ${ }^{\text {i/ }}$ | 940 | 1,032 | -- | -- | 7,768 | 242 | 160 | 4,393 | 503 |
| 2001 | 20,614 | 1,199 | 1,696 | 3,827 | 7,443 | 781 | 21,623 ${ }^{\text {j/ }}$ | 981 | $0{ }^{\text {h/ }}$ | 4,052 | 83 |
| 2002 | 39,818 | 765 | 7,614 | 1,555 | 7,047 | 417 | 20,198 ${ }^{\text {/ }}$ | 430 | 53 | 3,982 | 207 |
| 2003 | 8,122 | 613 | 6,172 | 3,585 | 7,675 | 543 | 21,798 ${ }^{\text {j/ }}$ | 0 | 0 | 8,373 | 389 |
| 2004 | 12,458 | 1,574 | 2,588 | 4,604 | 5,786 | 2,083 | 12,556 ${ }^{\text {/ }}$ | 763 | 326 | 3,630 | 572 |
| 2005 | 14,047 | 2,141 | 3,521 | 1,778 | 14,684 | 1,155 | 21,319 ${ }^{\text {/ }}$ | 21 | 9 | 1,811 ${ }^{\text {k }}$ | $24^{k}$ |
| 2006 | 14,709 | 351 | 4,792 | 2,623 | 16,911 | 379 | 10,669 ${ }^{\text {j/ }}$ | 0 | 0 | 2,052 k | $9^{\mathrm{k}}$ |
| 2007 | 11,954 | 714 | 3,004 | 3,140 | 2,402 | 139 | 8,951 ${ }^{\mathrm{j} /}$ | 226 | 22 | 2,669 ${ }^{\text {k }}$ | $5^{\mathrm{k}}$ |
| 2008 | 9,946 | 381 | 1,504 | 2,131 | 2,623 | 207 | 11,943 ${ }^{\text {/ }}$ | 0 | 0 | 1,056 ${ }^{\text {k/ }}$ | $10{ }^{\text {k }}$ |
| 2009 | 9,515 | 460 | I/ | I/ | 4,483 | 54 | $3,517^{\mathrm{j} /}$ | I/ | I/ | $867{ }^{\mathrm{k}}$ | $122{ }^{\text {k }}$ |
| 2010 | 8,894 | 1,001 | V/ | I/ | 1,554 | 42 | 2,951 ${ }^{\text {j/ }}$ | I/ | I/ | 1,655 ${ }^{\text {k }}$ | $6{ }^{\mathrm{k}}$ |
| 2011 | 7,129 | 1,161 | I/ | // | 637 | 187 | 5,547 ${ }^{\mathrm{j} /}$ | I/ | I/ | 1,831 ${ }^{\text {k }}$ | $138{ }^{\text {k }}$ |
| 2012 | 5,153 | 909 | m | m/ | 2,527 | 144 | 18,694 ${ }^{\text {j/ }}$ | m/ | m/ | $3,510{ }^{\mathrm{k}}$ | $228{ }^{\text {k }}$ |
| 2013 | 8,355 | 642 | m/ | m/ | 5,622 ${ }^{\text {// }}$ | 462 | 18,507 ${ }^{\text {j/ }}$ | m/ | $\mathrm{m} /$ | 4,247 ${ }^{\text {k }}$ | $44^{\mathrm{k}}$ |
| 2014 | 11,359 | 1,367 | m | m/ | 2,688 | 327 | 6,895 ${ }^{\text {j/ }}$ | m | m | 2,599 k | $177{ }^{\text {k }}$ |
| 2015 | 9,118 | 193 | m | m/ | 3,382 | 57 | 1,039 ${ }^{\text {j/ }}$ | m/ | m | 3,280 k/ | $51{ }^{\mathrm{k}}$ |
| 2016 | 4,621 | 959 | m | m/ | 924 | 622 | 6,456 ${ }^{\text {j/ }}$ | m/ | m/ | 1,595 ${ }^{\text {k }}$ | $55^{\mathrm{k}}$ |
| 2017 ${ }^{\text {/ }}$ | 4,426 | 392 | m | m/ | 490 | 485 | 1,113 ${ }^{\text {j/ }}$ | m/ | m/ | $317{ }^{\text {k }}$ | $375{ }^{\mathrm{k}}$ |

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 b/ Since 1998, late-fall adult and jack estimates are based on carcass counts of natural spaw ners plus fish spaw ned at Coleman National Fish Hatchery.
c/ Estimates of late-fall and winter run includes Chinook trapped at Kesw ick Dam for use as broodstock at Coleman or Livingston Stone National Fish Hatcheries.
d/ RBDD and carcass survey estimates represent alternative methods for determining winter run Chinook escapement.
e/ Natural spaw ning 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.
$\mathrm{g} /$ Feather River spring run estimates are primarily fish returning to Feather River Hatchery. Spring run are not distinguished from fall run in the natural spaw ning surveys and are reported in the fall run natural escapement numbers.
h/ Jack proportion could not be determined.
i/ Primarily number of spaw ners at Coleman National Fish Hatchery 1991-97. No data available for natural spaw ners, RBDD gates were raised during time coinciding $w$ ith 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 in 2005. Fish arriving prior to the spring Chinook spaw ning period
w ere tagged and returned to the river. Spring Chinook escapement estimate is the number of these tagged fish that subsequently returned during the spring Chinook spaw ning period.
l/ RBDD did not go into operation until June 15, a month later than normal; thus RBDD w inter and spring run estimates are unavailable.
$\mathrm{m} /$ RBDD gates w ere permanently removed on September 1, 2012; thus RBDD winter and spring run estimates are no longer available.
$\mathrm{n} /$ Includes 47 adults that w ere transferred from the Colusa Basin Drain to Livingston Stone National Fish Hatchery for use as broodstock.
o/ Preliminary.

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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 | Spaw ning Escapement |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Klamath River | Trinity River |  |  | Total |  |  |
|  |  |  | Indian | Sport | Total |  | Hatchery | Natural | Total | Hatchery | Natural | Total | Hatchery | Natural | Total |
| 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 ${ }^{\text {a/ }}$ | 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 |
| 2001-2005 | Adults | 136,848 | 25,414 | 7,659 | 33,074 | 2,366 | 23,476 | 34,971 | 58,447 | 15,476 | 21,375 | 36,851 | 38,952 | 56,346 | 95,298 |
|  | Jacks | 7,271 | 161 | 1,391 | 1,552 | 43 | 785 | 2,000 | 2,785 | 596 | 1,894 | 2,490 | 1,381 | 3,894 | 5,275 |
| 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 | 7,798 | 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 | 295,322 | 95,386 | 13,876 | 109,262 | 8,578 | 38,478 | 72,786 | 111,264 | 17,461 | 48,757 | 66,218 | 55,939 | 121,543 | 177,482 |
|  | Jacks | 21,433 | 177 | 3,875 | 4,052 | 94 | 1,537 | 8,289 | 9,826 | 92 | 7,369 | 7,461 | 1,629 | 15,658 | 17,287 |
| 2013 | Adults | 165,025 | 63,036 | 19,800 | 82,836 | 5,885 | 13,431 | 31,711 | 45,142 | 3,717 | 27,445 | 31,162 | 17,148 | 59,156 | 76,304 |
|  | Jacks | 14,356 | 259 | 2,260 | 2,519 | 69 | 1,323 | 3,274 | 4,597 | 135 | 7,036 | 7,171 | 1,458 | 10,310 | 11,768 |
| 2014 | Adults | 160,396 ${ }^{\text {b/ }}$ | 25,967 | 5,386 | 31,353 | 2,392 | 24,300 | 70,709 | 95,009 | 6,975 | 24,395 | 31,370 | 31,276 | 95,104 | 126,380 |
|  | Jacks | 22,321 | 348 | 3,364 | 3,712 | 100 | 1,039 | 10,520 | 11,559 | 221 | 6,719 | 6,940 | 1,259 | 17,239 | 18,498 |
| 2015 | Adults | 77,821 ${ }^{\text {b/ }}$ | 28,048 | 7,842 | 35,890 | 2,611 | 7,956 | 23,273 | 31,229 | 3,129 | 4,839 | 7,968 | 11,085 | 28,112 | 39,197 |
|  | Jacks | 6,094 | 496 | 1,605 | 2,101 | 76 | 220 | 748 | 968 | 224 | 2,724 | 2,948 | 444 | 3,472 | 3,916 |
| 2016 | Adults | 24,582 ${ }^{\text {b/ }}$ | 5,160 | 1,310 | 6,470 | 486 | 2,436 | 10,376 | 12,812 | 1,142 | 3,561 | 4,703 | 3,578 | 13,937 | 17,515 |
|  | Jacks | 2,787 | 160 | 162 | 322 | 17 | 151 | 554 | 705 | 401 | 1,340 | 1,741 | 552 | 1,894 | 2,446 |
| $2017{ }^{\text {c/ }}$ | Adults | 31,838 | 1,876 | 71 | 1,947 | 164 | 7,443 | 13,832 | 21,275 | 3,770 | 4,682 | 8,452 | 11,213 | 18,514 | 29,727 |
|  | Jacks | 21,903 | 266 | 42 | 308 | 17 | 3,193 | 10,621 | 13,814 | 1,863 | 5,901 | 7,764 | 5,056 | 16,522 | 21,578 |
| GOAL | Adults |  |  |  |  |  |  |  |  |  |  |  |  | $\geq 40,700$ |  |

a/ Total inriver run includes an estimated 30,550 fish that died prior to spaw ning in September 2002.
b/ Total inriver run includes fish collected from the Klamath and Trinity rivers by the Yurok and Hoopa Valley tribes, respectively, to test for the presence of the parasite Ichthyophthirius multifiliis during the follow ing years: 2014-282 fish; 2015-124 fish; 2016-113 fish.
c/ Preliminary.
d/ In December 2011, Amendment 16 to the Salmon Fishery Management Plan was approved, which replaced the 35,000 spaw ning escapement floor with an $S_{\text {MSY }}$ management objective of 40,700 natural area adult spaw ners. The 35,000 spaw ner floor w as in effect from 1989-2007 and in 2011. In 2008-2010, fisheries were managed for a natural area spaw ning escapement of 40,700 adults under requirements of a rebuilding plan.
e/ Annual escapement goals may be more or less than $S_{M S Y}$ in some years due to meeting $S_{A C L}$ requirements and de minimis fishing provisions.

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

| Year | Area ${ }^{\text {a/ }}$ | Spring Run |  |  | Fall Run |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Jack | Adult | Total | Jack | Adult | Total |
| 2012 | Commercial:Estuary | 0 | 856 | 856 | 0 | 82,724 | 82,724 |
|  | Middle Klamath | 0 | 0 | 0 | 0 | 156 | 156 |
|  | Subsistence:Estuary | 22 | 905 | 927 | 72 | 10,792 | 10,864 |
|  | Middle Klamath | 3 | 908 | 911 | 29 | 1,719 | 1,748 |
|  | Upper Klamath | 10 | 1,104 | 1,114 | 30 | 1,940 | 1,970 |
|  | Trinity River | 21 | 2,647 | 2,668 | 55 | 4,145 | 4,200 |
|  | Total | 56 | 6,421 | 6,477 | 186 | 101,476 | 101,662 |
| 2013 | Commercial:Estuary | 0 | 962 | 962 | 0 | 52,046 | 52,046 |
|  | Middle Klamath | 0 | 9 | 9 | 0 | 64 | 64 |
|  | Subsistence:Estuary | 7 | 2,327 | 2,334 | 205 | 5,458 | 5,663 |
|  | Middle Klamath | 0 | 110 | 110 | 13 | 843 | 856 |
|  | Upper Klamath | 0 | 336 | 336 | 25 | 1,606 | 1,631 |
|  | Trinity River | 19 | 1,202 | 1,221 | 16 | 3,019 | 3,035 |
|  | Total | 26 | 4,946 | 4,972 | 259 | 63,036 | 63,295 |
| 2014 | Commercial:Estuary | 0 | 0 | 0 | 0 | 11,431 | 11,431 |
|  | Middle Klamath | 0 | 0 | 0 | 0 | 401 | 401 |
|  | Subsistence:Estuary | 7 | 2,438 | 2,445 | 153 | 8,665 | 8,818 |
|  | Middle Klamath | 0 | 64 | 64 | 72 | 1,584 | 1,656 |
|  | Upper Klamath ${ }^{\text {b/ }}$ | 10 | 658 | 668 | 68 | 1,719 | 1,787 |
|  | Trinity River | 85 | 1,733 | 1,818 | 65 | 2,440 | 2,504 |
|  | Total | 102 | 4,893 | 4,995 | 358 | 26,240 | 26,597 |
| 2015 | Commercial:Estuary | 0 | 0 | 0 | 0 | 16,899 | 16,899 |
|  | Middle Klamath | 0 | 0 | 0 | 0 | 163 | 163 |
|  | Subsistence:Estuary | 0 | 1,816 | 1,816 | 405 | 5,609 | 6,014 |
|  | Middle Klamath | 0 | 133 | 133 | 10 | 642 | 652 |
|  | Upper Klamath ${ }^{\text {// }}$ | 17 | 628 | 645 | 35 | 2,818 | 2,853 |
|  | Trinity River ${ }^{\text {c/ }}$ | 15 | 1,087 | 1,102 | 47 | 2,040 | 2,087 |
|  | Total | 32 | 3,664 | 3,696 | 497 | 28,171 | 28,668 |
| 2016 | Commercial:Estuary | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Middle Klamath | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Subsistence:Estuary | 1 | 619 | 620 | 121 | 3,185 | 3,306 |
|  | Middle Klamath | 1 | 264 | 265 | 7 | 405 | 412 |
|  | Upper Klamath ${ }^{\text {b/ }}$ | 1 | 115 | 116 | 14 | 930 | 944 |
|  | Trinity River | 14 | 679 | 693 | 20 | 751 | 771 |
|  | Total | 17 | 1,677 | 1,694 | 162 | 5,271 | 5,433 |
| $2017{ }^{\text {d/ }}$ | Commercial:Estuary | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Middle Klamath | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Subsistence:Estuary | 1 | 242 | 243 | 65 | 205 | 270 |
|  | Middle Klamath | 2 | 337 | 339 | 1 | 1 | 2 |
|  | Upper Klamath | 2 | 305 | 307 | 6 | 10 | 16 |
|  | Trinity River | 8 | 412 | 420 | 194 | 1,660 | 1,854 |
|  | Total | 13 | 1,296 | 1,309 | 266 | 1,876 | 2,142 |

a/ Klamath River tribal fishing areas are defined as follow s: Estuary: mouth to Highw ay 101 bridge; Middle Klamath: Highw ay 101 bridge to Surpur Creek; Upper Klamath: Surpur Creek to Weitchpec.
b/ Harvest includes fish collected from the Upper Klamath by the Yurok Tribe to test for the presence of the parasite Ichthyophthirius multifiliis during the follow ing years: 2014-17 spring run and 282 fall run; 2015-26 spring run and 104 fall run; 2016-113 fall run.
c/ Harvest includes 20 fall run collected from the Trinity River by the Hoopa Valley Tribe to test for the presence of the parasite Ichthyophthirius multifiliis.
d/ Preliminary.

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

| Year | Shasta River ${ }^{\text {a/ }}$ |  | Scott River ${ }^{\text {b/ }}$ |  | Salmon River ${ }^{\text {c/ }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Adults | Jacks | Adults | Jacks | Adults | Jacks |
| 1931-1940 ${ }^{\text {d/ }}$ | 31,820 | 10,457 | - | - | - | - |
| 1941-1950 | 6,191 | 1,817 | - | - | - | - |
| 1951-1960 | 3,608 | 683 | - | - | - | - |
| 1961-1970 | 12,819 | 2,899 | - | - | - | - |
| 1971-1975 | 6,297 | 2,866 | - | - | - | - |
| 1976-1980 ${ }^{\text {/ }}$ | 6,506 | 3,194 | 2,950 | 1,527 | 1,467 | 583 |
| 1981-1985 ${ }^{\text {// }}$ | 4,560 | 1,942 | 3,373 | 1,929 | 1,287 | 389 |
| 1986-1990 ${ }^{\text {/ }}$ | 2,403 | 318 | 4,010 | 1,512 | 3,361 | 537 |
| 1991-1995 | 3,751 | 539 | 4,497 | 1,032 | 2,510 | 552 |
| 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 | 1,259 | 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 | 6,925 | 1,096 | 4,036 | 588 | 2,240 | 240 |
| 2014 | 14,412 | 3,945 | 10,419 | 2,051 | 2,706 | 527 |
| 2015 | 6,612 | 133 | 2,092 | 21 | 1,978 | 92 |
| 2016 | 2,754 | 135 | 1,376 | 139 | 1,032 | 26 |
| $2017{ }^{\text {h/ }}$ | 3,287 | 6,618 | 2,269 | 307 | 1,338 | 327 |

a/ 1930-1937, 1957-1987 and 1991-present, Shasta River w eir counts w ere made near the river mouth. 19381955, w eir counts w ere made 6.5 miles upstream from the mouth; considerable spaw ning occurred dow nstream from the w eir in these years. In 1956, there w ere no w eir counts conducted. 1988-1990, escapements w ere estimated from mark-recapture data (spaw ning surveys).
b/ 1991, estimates w ere from w eir counts. 1992-2007, estimates w ere from carcass surveys. 2008-2013, estimates w ere from a combination of video weir counts and carcass surveys. 2014, estimates w ere from a combination of video w eir counts, carcass surveys, and redd counts.
c/ 1991, estimates w ere from w eir counts. 1992-2004 and 2006, estimates w ere from carcass surveys. 2005 and 2007-2010, estimates w ere generated from redd counts. 2011-present, estimates w ere from a combination of carcass surveys and redd counts.
d/ Commercial fishing in low er Klamath River closed by the state after the 1933 season.
e/ Gillnetting resumed in low er 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.
$\mathrm{h} /$ Preliminary.

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

| Year | $\begin{aligned} & \text { Cañon Creek }{ }^{\text {ablc/ }} \\ & \text { (Mad River) } \end{aligned}$ |  | Sprow I Creek ${ }^{\text {abld } /}$ (Eel River) |  | Tomki Creek ${ }^{\text {e/ }}$ (Eel River) | Russian ${ }^{\text {f/ }}$ <br> River | Lagunitas $^{g /}$ Watershed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Coho | Chinook | Coho | Chinook | Chinook | Coho Redds |
| 1990-1991 | 0 | 3 | 0 | 0 | - | - | - |
| 1991-1992 ${ }^{\text {h/ }}$ | 8 | 0 | 159 | 0 | 3 | - | - |
| 1992-1993 ${ }^{\text {h/ }}$ | 57 | 1 | 142 | 2 | 15 | - | - |
| 1993-1994 | 20 | 0 | 171 | 36 | 5 | - | - |
| 1994-1995 | 33 | 3 | 52 | 0 | 21 | - | - |
| 1995-1996 ${ }^{\text {h/ }}$ | 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 ${ }^{\text {h/ }}$ | 162 | 1 | 34 | 1 | 24 | - | 203 |
| 2000-2001 ${ }^{\text {h/ }}$ | 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 ${ }^{\text {h/ }}$ | 79 | 1 | 106 | 8 | 137 | 6,103 | 383 |
| 2004-2005 ${ }^{\text {h/ }}$ | 86 | 0 | 199 | 36 | 115 | 4,788 | 496 |
| 2005-2006 | 270 | 0 | 201 | 13 | 77 | 2,572 | 190 |
| 2006-2007 ${ }^{\text {i/ }}$ | 152 | 2 | 37 | 9 | 20 | 3,410 | 338 |
| 2007-2008 ${ }^{\text {/ }}$ | 99 | 1 | 70 | 19 | 69 | 1,963 | 148 |
| 2008-2009 ${ }^{\text {/ }}$ | 65 | 0 | 158 | 40 | 17 | 1,125 | 26 |
| 2009-2010 ${ }^{\text {i/ }}$ | 36 | 0 | 314 | 2 | 15 | 1,801 | 51 |
| 2010-2011 ${ }^{\text {// }}$ | 131 | 2 | 273 | 60 | 151 | 2,516 | 80 |
| 2011-2012 ${ }^{\text {hi/ }}$ | 108 | 1 | 60 | 221 | 101 | 3,172 | 130 |
| 2012-2013 ${ }^{\text {/ }}$ | 77 | 1 | 280 | 29 | 226 | 6,713 | 217 |
| 2013-2014 ${ }^{\text {i/j/ }}$ | 11 | 10 | 16 | 130 | 6 | 3,145 | 188 |
| 2014-2015 ${ }^{\text {/ }}$ | 161 | 5 | 174 | 24 | 82 | 1,420 k | 140 |
| 2015-2016 ${ }^{\text {/ }}$ | 124 | 4 | 81 | 31 | 0 | 4,119 k | 226 |
| 2016-2017 | V | V | m/ | m | 71 | 1,062 n/ | 158 |
| 2017-2018 ${ }^{\text {/ }}$ | V | V | m/ | m/ | 39 | 1,892 p/ | 83 |

a/ Survey frequency variable from year to year (betw een 1 and 10 surveys annually).
b/ Numbers reflect maximum annual counts of live fish and carcasses with adults and jacks combined. Counts are not show n in years w here visibility is too poor to conduct surveys.
c/ Survey area $w$ as from mouth to falls (2 miles).
d/ Survey area w as 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.
$\mathrm{f} / \mathrm{Video}$ counts of combined adults and jacks made at Mirabel Dam. Image quality may be affected by turbidity.
$\mathrm{g} /$ Numbers reported are redd counts. Olema Creek is excluded.
h/ Low flow s appeared to increase mainstem spaw ning and decrease tributary spaw ning for Cañon, Sprow l, and Tomki creeks.
i/ Cañon and Sprow I creek totals exclude fish unidentifiable to species due to poor visibility or advanced decomposition.
j/ Extremely low flows created passage barriers that precluded or severely limited salmon access to surveyed tributaries.
k/ Minimum count that is not comparable to other years. Mirabel Dam video counts w ere unavailable due to construction of a new counting facility. The number recorded is the sum of counts made at tw o facilities upstream of Mirabel Dam. // Survey discontinued due to lack of funding.
$\mathrm{m} /$ Previous survey methodology discontinued.
$\mathrm{n} /$ Minimum count that is not comparable to other years. Monitoring at the Mirabel Dam w as complicated by operational challenges associated $w$ ith implementation of a new counting facility in addition to adverse environmental conditions. Atypical sampling techniques and shortened periods of operation limited estimates of passage.
o/ Preliminary.
p / Survey incomplete at time of publication.

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 | $11^{\text {a/ }}$ | 2 | 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 | 10 | 5 | 38 | 11 | 3 | 1 | 23 | 8 |
| 2014 | 11 | 2 | 52 | 9 | 12 | 3 | 34 | 6 |
| 2015 | 34 | 1 | 77 | 7 | 22 | 2 | 60 | 5 |
| 2016 | 5 | 1 | 42 | 5 | 27 | 2 | 34 | 4 |
| $2017{ }^{\text {b/ }}$ | 9 | 3 | 34 | 7 | 15 | 2 | 26 | 5 |

a/ Pistol River w as subject to several "slope failures" in 1986 resulting in severe short-term alterations in gravel bars and spaw ning 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 ${ }^{\text {a/ }}$ |  |  |  | Winchester Dam, Umpqua River ${ }^{\text {a/ }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Natural ${ }^{\text {b/ }}$ | Hatchery | Total | Jacks ${ }^{\text {c/ }}$ | Natural | Hatchery | Total | Jacks ${ }^{\text {c/ }}$ |
| 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 | 12.1 | NA | NA | NA | 7.2 | 7.9 | 15.2 | 2.6 |
| 2014 | 5.6 | NA | NA | NA | 6.4 | 8.2 | 14.6 | 4.5 |
| 2015 | 15.3 | NA | NA | NA | 4.8 | 4.8 | 9.6 | 1.9 |
| 2016 | 9.6 | NA | NA | NA | 4.3 | 4.4 | 8.7 | 2.6 |
| $2017{ }^{\text {d/ }}$ | 10.2 | NA | NA | NA | 4.0 | 2.7 | 6.8 | 1.1 |

a/ Jacks included in natural, hatchery, and total counts.
b/ Gold Ray Dam removed October, 2010. Natural estimate derived using relationship of 2004-2010 spaw ning ground surveys to Gold Ray Dam passage. Estimate includes an unknow n 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 and Huntley Park passage of naturally produced fish.

| Year or Avg. | Carcass Counts ${ }^{\text {a/ }}$ |  |  | Huntley Park Passage |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Adults | Jacks | Total | Adults | Jacks | Total |
| 1977-1980 | 5,256 | 1,004 | 6,259 | 99,881 | 30,425 | 130,307 |
| 1981-1985 | 3,906 | 1,009 | 4,915 | 55,907 | 25,683 | 81,590 |
| 1986-1990 | 16,797 | 1,527 | 18,324 | 84,435 | 29,553 | 113,988 |
| 1990-1995 | 4,387 | 316 | 4,703 | 45,489 | 15,499 | 60,988 |
| 1996 | 2,448 | 121 | 2,569 | 48,763 | 15,682 | 64,445 |
| 1997 | 1,643 | 68 | 1,711 | 41,072 | 17,788 | 58,860 |
| 1998 | 3,601 | 40 | 3,641 | 40,939 | 6,793 | 47,732 |
| 1999 | 2,493 | 157 | 2,650 | 37,587 | 18,763 | 56,350 |
| 2000 | 3,366 | 226 | 3,592 | 87,783 | 12,918 | 100,701 |
| 2001 | 6,380 | 772 | 7,152 | 76,376 | 26,650 | 103,026 |
| 2002 | 11,836 | 905 | 12,741 | 154,143 | 42,806 | 196,948 |
| 2003 | 14,620 | 983 | 15,603 | 204,793 | 19,347 | 224,139 |
| 2004 | 5,326 ${ }^{\text {b/ }}$ | 250 | 5,576 | 132,296 | 19,785 | 152,081 |
| 2005 | - | - | - | 56,474 | 4,849 | 61,323 |
| 2006 | - | - | - | 35,075 | 6,770 | 41,845 |
| 2007 | - | - | - | 43,493 | 3,284 | 46,778 |
| 2008 | - | - | - | 24,309 | 15,186 | 39,495 |
| 2009 | - | - | - | 60,223 | 13,660 | 73,883 |
| 2010 | - | - | - | 49,390 | 14,459 | 63,849 |
| 2011 | - | - | - | 67,750 | 30,125 | 97,875 |
| 2012 | - | - | - | 69,060 | 10,400 | 79,460 |
| 2013 | - | - | - | 81,655 | 23,027 | 104,682 |
| 2014 | - | - | - | 53,546 | 11,901 | 65,447 |
| 2015 | - | - | - | 30,462 | 7,841 | 38,303 |
| 2016 | - | - | - | 27,278 | 16,762 | 44,040 |
| $\underline{2017}{ }^{\text {c/ }}$ | - | - | - | 90,674 | 23,726 | 114,400 |

a/ Surveys w ere discontinued in 2005.
b/ In 2004, one of the standard survey sections was not sampled. In the previous tw o years, this section accounted for 33 percent of the total adult carcass counts.
c/ Preliminary.

| River Tributaries |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Index Fish Per Mile |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year or | Humbug <br> (Nehalem) <br> (1.0 mile) |  | $\begin{aligned} & \text { Tillamook } \\ & \text { (1.8 mile) } \end{aligned}$ |  | Niagara (Nestucca) (0.4 mile) |  | Sunshine (Siletz) <br> (1.2 mile) |  | Grant (Yaquina) (1.7 mile) |  | Buck (Alsea) <br> (1.0 mile) |  | Siuslaw (Lake) (0.8 mile) |  | W.F. Millicoma (Coos) (0.5 mile) |  | Salmon <br> (Coquille) <br> (0.8 mile) |  |  |  |
| Average | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks | Adults | Jacks |
| 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 | 384 | 10 | 89 | 2 | 78 | 3 | 47 | 2 | 166 | 9 | 41 | 3 | 625 | 6 | 156 | 20 | a/ | a/ | 189 | 7 |
| 2014 | 176 | 2 | 55 | 0 | 54 | 2 | 109 | 1 | 216 | 40 | 60 | 7 | 556 | 21 | 92 | 6 | a/ | a/ | 157 | 9 |
| 2015 | 237 | 1 | a/ | a/ | 31 | 1 | 122 | 1 | 391 | 3 | 130 | 2 | 625 | 2 | 93 | 3 | a/ | a/ | 247 | 3 |
| 2016 | 154 | 2 | a/ | a/ | 24 | 0 | 162 | 3 | 159 | 9 | 39 | 1 | 224 | 1 | 19 | 0 | a/ | a/ | 118 | 2 |
| $2017{ }^{\text {b/ }}$ | 132 | 1 | a/ | a/ | 39 | 1 | 109 | 1 | 126 | 5 | 47 | 4 | 282 | 3 | 20 | 1 | a/ | a/ | 114 | 2 |

a/ Surveys w ere 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. Tributary Runs

| Year or Average | Minimum Inriver Run Size | Low er River Catch ${ }^{\text {a/ }}$ |  | Tributary Runs |  |  |  |  |  |  | Hatchery Escapement ${ }^{d /}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Willamette |  |  | Sandy | Cow litz ${ }^{\text {c/ }}$ | Lew is ${ }^{\text {c/ }}$ | Kalama |  |
|  |  |  |  | Run Size | L. Willamette Sport Catch | Will. Falls Escapement ${ }^{b}$ |  |  |  |  |  |
|  |  | Commercial | Sport |  |  |  |  |  |  |  |  |
| 1981-1985 | 93,220 | 6,680 | 1,840 | 67,700 | 15,620 | 35,580 | 1,940 | 19,960 | 4,220 | 3,740 | 28,840 |
| 1986-1990 | 123,834 | 11,980 | 4,330 | 103,100 | 21,140 | 58,760 | 2,425 | 10,691 | 11,340 | 1,877 | 32,460 |
| 1991-1995 | 85,837 | 3,680 | 2,300 | 66,039 | 18,180 | 32,580 | 4,920 | 6,801 | 5,870 | 1,976 | 23,700 |
| 1996-2000 | 54,552 | 409 | 60 | 43,953 | 5,060 | 31,239 | 3,803 | 1,797 | 1,961 | 787 | 21,380 |
| 2001-2005 | 137,416 | 5,080 | 6,040 | 104,933 | 9,940 | 70,811 | 7,439 | 9,721 | 4,664 | 3,383 | 48,866 |
| 2006 | 90,417 | 3,000 | 2,900 | 59,311 | 7,200 | 36,851 | 4,382 | 6,963 | 7,301 | 5,458 | 38,623 |
| 2007 | 68,796 | 1,900 | 2,600 | 39,943 | 5,700 | 22,818 | 2,813 | 3,975 | 7,596 | 8,030 | 27,756 |
| 2008 | 42,740 | 100 | 700 | 26,615 | 4,600 | 14,151 | 5,994 | 2,986 | 2,215 | 1,623 | 18,407 |
| 2009 | 48,907 | 349 | 2,000 | 35,432 | 4,500 | 25,795 | 2,429 | 6,034 | 1,493 | 404 | 22,496 |
| 2010 | 150,374 | 3,349 | 6,200 | 107,675 | 22,700 | 65,293 | 7,652 | 8,887 | 2,347 | 977 | 42,646 |
| 2011 | 98,605 | 2,349 | 2,500 | 76,549 | 22,800 | 43,748 | 5,721 | 5,860 | 1,310 | 776 | 31,030 |
| 2012 | 92,142 | 2,349 | 3,700 | 63,037 | 15,800 | 35,899 | 5,038 | 12,645 | 1,895 | 889 | 32,106 |
| 2013 | 66,729 | 1,800 | 1,798 | 44,880 | 7,400 | 27,897 | 5,700 | 8,656 | 1,574 | 1,014 | 26,892 |
| 2014 | 69,006 | 1,300 | 2,700 | 49,765 | 7,900 | 30,071 | 5,971 | 8,957 | 1,482 | 1,013 | 27,783 |
| 2015 | 131,394 | 2,649 | 4,266 | 84,532 | 13,552 | 53,088 | 4,000 | 23,933 | 1,006 | 3,149 | 52,237 |
| 2016 | 87,976 | 1,200 | 2,600 | 47,225 | 6,000 | 30,317 | 4,179 | 22,478 | 473 | 3,980 | 31,303 |
| $\underline{2017}{ }^{\text {/ }}$ | 94,370 | 1,300 | 1,800 | 50,774 | 7,400 | 34,186 | 8,124 | 14,026 | 2,394 | 2,503 | 25,359 |

a/ Includes some upriver origin spring Chinook through 1980. Beginning in 1981, the low er river catch of low er 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. Low er Willamette sport catch may include small numbers of jacks.
c/ Includes hatchery escapement, tributary recreational catch, and natural spaw ning escapement for 1975 to present. The years 1971-1973 are based on using the 1975-1976 Cow litz 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 ${ }^{a / 2}$ (Includes Snake River summer Chinook.)

| Year or <br> Avg. | Inriver Run Size | Low er River Catch ${ }^{\text {b/ }}$ |  | Bonneville Dam Count | Zone 6 Sport | Mainstem Treaty Indian Catch |  | Snake River Escapement ${ }^{\text {e }}$ |  | Rock Island Dam Count |  | Hatchery Escapement |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Ceremonial/ |  |  |  |  |  |
|  |  | Commercial | Sport |  |  | Commercial ${ }^{1 / d /}$ | Subsistence | Hatchery | Wild | Hatchery | Wild |  |
| 1981-1985 | 70,440 | 1,706 | 393 |  | 68,342 | 925 | 3,255 | 3,947 | 7,508 | 10,787 | 4,853 | 3,217 | 11,599 |
| 1986-1990 | 108,167 | 2,378 | 1,356 | 104,433 | 3,366 | 6,011 | 10,269 | 19,648 | 10,192 | 5,928 | 3,042 | 19,384 |
| 1991-1995 | 63,404 | 511 | 710 | 62,183 | 1,227 | 2,550 | 8,628 | 7,097 | 7,015 | 5,750 | 1,422 | 11,522 |
| 1996-2000 | 90,793 | 81 | 36 | 90,676 | 4,163 | 3,298 | 10,408 | 16,577 | 5,500 | 4,995 | 504 | 13,725 |
| 2001-2005 | 269,346 | 4,941 | 14,594 | 249,812 | 28,474 | 23,638 | 21,831 | 68,988 | 27,895 | 16,928 | 2,341 | 31,273 |
| 2006 | 132,583 | 2,238 | 4,187 | 126,158 | 5,256 | 5,081 | 18,303 | 20,248 | 9,483 | 10,461 | 1,120 | 16,998 |
| 2007 | 86,247 | 1,491 | 3,927 | 80,829 | 6,925 | 4,127 | 11,347 | 23,308 | 7,100 | 10,170 | 782 | 15,858 |
| 2008 | 178,629 | 6,292 | 19,612 | 151,895 | 22,145 | 19,681 | 14,951 | 55,587 | 17,587 | 19,737 | 1,127 | 35,468 |
| 2009 | 169,296 | 4,543 | 15,246 | 147,489 | 18,608 | 8,523 | 27,414 | 49,836 | 14,957 | 17,000 | 1,620 | 31,064 |
| 2010 | 315,345 | 9,281 | 23,535 | 277,389 | 43,398 | 34,375 | 38,282 | 97,770 | 26,643 | 23,134 | 2,105 | 52,647 |
| 2011 | 221,158 | 3,930 | 9,506 | 205,431 | 28,526 | 8,925 | 29,482 | 72,262 | 24,562 | 15,400 | 3,055 | 29,808 |
| 2012 | 203,090 | 4,821 | 10,422 | 186,448 | 24,936 | 10,512 | 28,858 | 54,701 | 25,681 | 11,573 | 3,294 | 23,152 |
| 2013 | 123,136 | 1,853 | 5,343 | 112,934 | 8,626 | 4,175 | 13,977 | 29,538 | 14,588 | 7,041 | 1,637 | 15,603 |
| 2014 | 242,635 | 4,098 | 13,572 | 224,946 | 28,340 | 19,934 | 22,770 | 62,627 | 32,124 | 9,647 | 2,263 | 24,188 |
| 2015 | 288,994 | 6,818 | 15,689 | 265,558 | 40,401 | 28,454 | 22,591 | 97,921 | 21,910 | 25,658 | 6,090 | 35,315 |
| 2016 | 187,816 | 3,508 | 10,167 | 172,614 | 24,274 | 9,839 | 25,244 | 58,214 | 15,946 | 17,455 | 1,191 | 25,406 |
| $2017^{9 /}$ | 115,821 | 1,083 | 7,198 | 107,524 | 5,645 | 3,993 | 15,148 | 31,944 | 4,365 | 6,528 | 1,552 | 16,064 |
| GOAL |  |  |  | 115,000 |  |  |  | $35,000^{\text {h/ }}$ | 25,000 ${ }^{\text {h/ }}$ |  |  |  |

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 low er river origin spring Chinook through 1980. Beginning in 1981, the low er 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 betw een Buoy 10 and Bonneville Dam.
c/ Spring season fishery closed in 1975, 1976, and from 1978 to 2000. Spring Chinook landed during those years w ere from the winter season fishery.
d/ Includes below Bonneville Dam C\&S starting in 2008.
e/ Snake River escapement at Low er Granite relative to escapement goals. Wild escapement goal includes Snake Basin harvest below Low er Granite Dam, Low er Granite count of wild escapement, and Tucannon w ild return. Hatchery escapement goal includes Low er Granite count of hatchery escapement only.
f/ Hatchery rack and trap returns above Low er Granite Dam plus Tucannon and hatchery returns above Priest Rapids Dam (Wenatchee, Entiat, and Methow ) plus Ringold Does not include Leavenw orth or East Bank.
g/ Preliminary.
h/ U.S. v. Oregon goal; not an FMP goal: w ild escapement goal includes Snake Basin harvest below Low er Granite Dam, Low er Granite count of wild escapement, and Tucannon w ild return. Hatchery escapement goal includes Low er Granite count of hatchery escapement only.
(Excludes Snake River summer Chinook.)

| Year or Avg. | Inriver Run Size |  |  | Bonneville Dam Count | Zone 6 Sport | Mainstem Treaty Indian Catch |  | Rock Island Dam Count | Upstream of McNary Dam | Tribal Harvest upstream of McNary Dam |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Low er River Catch ${ }^{\text {b/ }}$ |  |  |  |  | Ceremonial/ |  |  |  |
|  |  | Commercial ${ }^{\text {l/ }}$ | Sport |  |  | Commercial ${ }^{\text {d/ }}$ | Subsistence |  |  |  |
| 1981-1985 | 16,709 | 55 | 0 | 16,654 | - | 304 | 669 | 10,010 | 0 | 0 |
| 1986-1990 | 21,036 | 71 | 8 | 20,957 | - | 708 | 194 | 14,563 | 0 | 0 |
| 1991-1995 | 12,984 | 30 | 15 | 12,939 | - | - | 227 | 10,748 | 0 | 0 |
| 1996-2000 | 17,957 | 5 | 29 | 17,924 | - | 0 | 317 | 13,902 | 218 | 88 |
| 2001-2005 | 70,287 | 611 | 1,264 | 68,412 | 242 | 3,646 | 978 | 66,711 | 4,429 | 2,002 |
| 2006 | 77,573 | 4,828 | 4,926 | 67,819 | 276 | 15,771 | 548 | 61,821 | 3,864 | 1,340 |
| 2007 | 37,035 | 1,122 | 2,214 | 33,699 | 136 | 4,564 | 811 | 28,222 | 3,900 | 1,070 |
| 2008 | 55,532 | 1,429 | 2,140 | 51,963 | 942 | 8,317 | 712 | 38,171 | 2,597 | 1,861 |
| 2009 | 53,881 | 2,546 | 2,341 | 48,994 | 175 | 10,441 | 1,209 | 44,295 | 2,458 | 1,190 |
| 2010 | 72,116 | 4,740 | 2,738 | 64,638 | 435 | 15,569 | e/ | 47,220 | 2,481 | 3,524 |
| 2011 | 80,574 | 5,004 | 5,576 | 69,994 | 303 | 20,645 | e/ | 44,432 | 5,546 | 1,208 |
| 2012 | 58,300 | 1,715 | 3,281 | 53,304 | 231 | 7,824 | e/ | 52,184 | 3,980 | 3,400 |
| 2013 | 67,553 | 1,987 | 2,058 | 63,508 | 173 | 13,272 | e/ | 68,380 | 2,899 | 3,452 |
| 2014 | 78,094 | 2,838 | 2,385 | 72,871 | 308 | 19,179 | e/ | 77,982 | 2,875 | 3,574 |
| 2015 | 126,852 | 4,043 | 6,152 | 116,657 | 609 | 37,733 | 30 | 88,691 | 5,000 | 10,694 |
| 2016 | 90,948 | 3,050 | 3,706 | 84,192 | 361 | 20,415 | 100 | 79,253 | 4,418 | 4,199 |
| 2017 ${ }^{\text {/ }}$ | 68,044 | 47 | 3,853 | 64,144 | 136 | 16,168 | 160 | 56,265 | 4,493 | 160 |
| GOAL | 29,000 ${ }^{\text {g/ }}$ |  |  |  |  |  |  | 12,143 ${ }^{\text {h/ }}$ |  |  |

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 release mortality in selective fisheries beginning in 2002
c/ No directed commercial summer Chinook fishery from 1964 to 2003, and 2017. 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/ Includes natural spaw ners in Wenatchee, Ential, Chelan, Methow, and Okanogan rivers. Does not include unknow n numbers of natural
spaw ners in mainstem Columbia.
e/ No ceremonial and subsistence permits issued, sales of platform and hook-and-line subsistence catch allow ed and included in commercial catch.
$\mathrm{g} /$ Incomplete estimates of natural spaw ners.
f/ Preliminary.
g/ Comanager goal established in 2004 associated with regrouping Snake River summer Chinook with Snake River spring Chinook.
h/ MSY spaw ning escapement objective adopted in 2011 under Amendment 16 based on Chinook Technical Committee Report 99-3

| Harvest |  |  |  |  |  | Escapement |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year or Average | Inriver Run Size | Bonneville Dam Count | Treaty Indian Commercial and | Non-Indian |  |  |  |
|  |  |  | Subsistence | Commercial ${ }^{\text {b/ }}$ | Sport | Natural | Hatchery ${ }^{\text {c/ }}$ |
| 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 |
| 1996-2000 | 30,278 | 27,180 | 14,824 | 659 | 1,990 | 3,213 | 8,071 |
| 2001-2005 | 148,523 | 137,108 | 51,618 | 6,540 | 5,256 | 11,955 | 52,389 |
| 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 | 70,096 | 53,655 | 28,801 | 12,196 | 1,242 | 10,283 | 17,092 |
| 2012 | 56,947 | 44,076 | 14,223 | 7,983 | 3,386 | 5,063 | 26,255 |
| 2013 | 86,707 | 62,525 | 29,746 | 15,823 | 3,200 | 10,074 | 16,307 |
| 2014 | 127,000 | 81,030 | 54,740 | 22,813 | 5,536 | 16,655 | 24,112 |
| 2015 | 166,370 | 111,900 | 67,922 | 22,767 | 8,669 | 22,319 | 43,246 |
| 2016 | 44,554 | 33,432 | 19,256 | 8,745 | 2,377 | 5,064 | 9,037 |
| $\underline{2017}{ }^{\text {d/ }}$ | 48,700 | 35,050 | 22,576 | 5,450 | 6,270 | 3,856 | 17,915 |
| GOAL |  |  |  |  |  |  | 7,000 ${ }^{\text {e/ }}$ |

a/ Based on Columbia River fall Chinook database, WDFW, unpublished.
b/ Includes Select Area fisheries.
c/ Does not include strays to hatcheries below Bonneville Dam. Includes fall Chinook tules trapped at Bonneville Dam, 1986-1994 and 1998.
d/ Preliminary estimates based on inseason run updates.
e/ Escapement goal w as changed from 8,200 fish to 7,000 fish, or 4,000 females, in 1994.

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 preseason expectations and inseason data.

| Year or Average | Inriver Run Size | Harvest |  |  | Escapement |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Commercial and Subsistence | Non-Indian |  |  |  |
|  |  |  | Commercial | Sport ${ }^{\text {b/ }}$ | Natural | Hatchery |
| 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 |
| 1996-2000 | 9,545 | 0 | 189 | 397 | 8,865 | 94 |
| 2001-2005 | 21,201 | 32 | 2,231 | 3,041 | 15,801 | 44 |
| 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 | 12,112 | 0 | 1,880 | 766 | 9,407 | 59 |
| 2013 | 25,841 | 0 | 2,095 | 5,071 | 18,675 | 0 |
| 2014 | 25,774 | 0 | 767 | 2,107 | 22,900 | 0 |
| 2015 | 32,403 | 0 | 3,126 | 2,106 | 27,169 | 2 |
| 2016 | 13,034 | 0 | 906 | 2,713 | 9,414 | 1 |
| $2017{ }^{\text {c/ }}$ | 10,000 | NA | NA | NA | NA | NA |
| GOAL |  |  |  |  | 5,700 ${ }^{\text {d/ }}$ |  |

a/ Based on Columbia River fall Chinook database, WDFW, unpublished.
b/ Includes tributary catches.
c/ Preliminary estimates based on preseason expectations and inseason data
d/ Escapement objective is for North Lew is River, but escapement numbers include other fish. The escapement objective for the North Lew is 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. ${ }^{\text {a }}$

| Year or <br> Average | Inriver Run Size | Bonneville Dam Count | Harvest |  |  | Escapement |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Treaty Indian Commercial and Subsistence | Non-Indian |  | Natural Esc. ${ }^{\text {. }}$ | Upper Columbia Esc. ${ }^{\text {d/ }}$ | Hatchery | Deschutes above/below Sheares Falls ${ }^{e /}$ | McNary Dam Count | Ice Harbor Dam Count | Total Low er Granite Count | SRW <br> L. Granite Dam Count ${ }^{t /}$ |
| 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 |
| 1996-2000 | 153,790 | 145,362 | 36,318 | 2,720 | 10,856 | 59,534 | NA | 17,786 | 11,745 | 69,929 | 4,775 | 2,330 | 759 |
| 2001-2005 | 305,482 | 282,285 | 46,846 | 11,837 | 22,095 | 131,229 | 108,019 | 19,447 | 13,274 | 146,873 | 17,127 | 11,826 | 3,344 |
| 2006 | 230,390 | 132,632 | 44,565 | 8,757 | 14,515 | 79,852 | 62,567 | 15,197 | 10,955 | 89,081 | 10,272 | 8,048 | 2,483 |
| 2007 | 114,065 | 105,626 | 18,878 | 2,833 | 10,860 | 51,004 | 34,201 | 7,267 | 6,361 | 57,268 | 13,408 | 10,195 | 2,016 |
| 2008 | 197,295 | 183,242 | 39,988 | 7,574 | 14,323 | 75,421 | 51,757 | 23,468 | 6,908 | 101,869 | 21,896 | 16,628 | 2,222 |
| 2009 | 212,047 | 190,695 | 58,616 | 11,601 | 17,310 | 87,585 | 62,428 | 15,762 | 6,429 | 104,544 | 24,824 | 15,167 | 1,431 |
| 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 | 9,583 |
| 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 | 7,895 |
| 2012 | 294,947 | 255,420 | 61,422 | 16,895 | 39,338 | 122,576 | 94,925 | 51,326 | 17,624 | 173,472 | 38,830 | 34,688 | 12,797 |
| 2013 | 784,116 | 702,503 | 162,964 | 47,636 | 67,186 | 344,625 | 305,445 | 89,647 | 18,068 | 454,991 | 57,850 | 56,565 | 20,425 |
| 2014 | 684,228 | 599,580 | 153,685 | 53,296 | 62,766 | 268,962 | 233,934 | 122,189 | 17,933 | 410,786 | 61,389 | 60,687 | 14,172 |
| 2015 | 795,915 | 706,440 | 159,717 | 38,375 | 88,531 | 367,234 | 323,276 | 76,458 | 17,074 | 396,580 | 62,978 | 59,299 | NA |
| 2016 | 406,572 | 364,840 | 90,054 | 32,608 | 46,716 | 198,025 | 151,373 | 33,924 | 11,628 | 239,791 | 36,713 | 34,714 | NA |
| $2017{ }^{\text {g/ }}$ | 274,900 | 243,950 | 73,360 | 10,340 | 32,580 | 120,711 | 96,026 | 19,093 | NA | 156,944 | 26,393 | 26,431 | NA |
| GOAL |  |  |  |  |  |  | 39,625 ${ }^{\text {// }}$ |  |  | 60,000 ${ }^{\text {i/ }}$ |  |  |  |

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 betw een 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 Spaw ner Esc. Goal using U.S. v. OR Tech. Advisory Comm. Data (Sharma et al. 2009),
f/ Snake River w ild; adjusted for stray hatchery fish. Includes wild fish hauled to Lyons Ferry Hatchery.
$\mathrm{g} /$ Preliminary based on inseason run update.
h/ MSY spaw ning escapement objective adoped 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.a

| Year or <br> Average | Inriver Run Size | Bonneville Dam Count | Harvest |  |  | Escapement |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Treaty Indian Commercial and Subsistence | Non-Indian |  |  |  |
|  |  |  |  | Commercial | Sport ${ }^{\text {b/ }}$ | Natural | Hatchery ${ }^{\text {c }}$ |
| 1982-1985 | 10,275 | 4,925 | 1,875 | 1,675 | 100 | 0 | 3,450 |
| 1986-1990 | 60,894 | 24,780 | 16,288 | 26,547 | 2,277 | 4,253 | 9,194 |
| 1991-1995 | 32,352 | 19,360 | 6,014 | 4,151 | 1,622 | 7,327 | 10,631 |
| 1996-2000 | 48,787 | 34,120 | 9,475 | 2,994 | 5,007 | 14,052 | 11,059 |
| 2001-2005 | 111,515 | 68,642 | 23,112 | 10,532 | 11,403 | 24,372 | 23,405 |
| 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 | 63,363 | 44,306 | 15,682 | 5,841 | 11,340 | 12,860 | 17,052 |
| 2013 | 243,508 | 187,748 | 55,876 | 16,947 | 27,383 | 65,999 | 58,045 |
| 2014 | 203,734 | 154,971 | 81,605 | 20,902 | 26,401 | 34,996 | 34,075 |
| 2015 | 170,620 | 123,722 | 62,520 | 14,536 | 25,947 | 31,305 | 30,744 |
| 2016 | 88,300 | 46,172 | 29,690 | 9,460 | 14,002 | 21,503 | 13,632 |
| $2017{ }^{\text {d/ }}$ | 42,900 | 33,820 | 12,279 | 1,450 | 5,050 | 13,302 | 10,939 |

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.

| Year or Avg. | Minimum Inriver Run Size | Above Bonneville Dam |  |  |  |  |  |  |  |  |  |  |  |  | Total <br> Treaty Indian \& Non-Indian |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Below Bonneville Dam |  |  |  |  | Bonneville Dam Counts | Non-Indian Sport |  | Treaty Indian |  |  | Non-Indian Total |  |  |
|  |  | Non-Indian Sport |  |  | Non-Indian Commercial |  |  | Mainstem Tributary ${ }^{\text {d/ }}$ |  | Ticketed Commercial ${ }^{/ /}$ | Non-Ticketed Public Sales | Ceremonial \& Subsistence ${ }^{\text {t/ }}$ |  |  |  |
|  |  | Tributary ${ }^{\text {a/ }}$ | Buoy 10 | Mainstem ${ }^{\text {b/ }}$ | Select Area ${ }^{\text {c/ }}$ | Mainstem |  |  |  | Sport Commercial |  |  |  |  |  |
| Spring Chinook ${ }^{\text {g }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| '81-85 | 163,660 | 19,568 | ${ }^{\text {/ }}$ | 2,233 | - | 8,197 | 68,342 | - | 513 |  | 1,024 | -- | 3,633 | 22,726 | 8,197 | 35,580 |
| '86-'90 | 232,001 | 39,688 | h/ | 5,685 | - | 14,138 | 104,433 | - | 2,615 | 186 | -- | 9,323 | 48,740 | 14,138 | 72,387 |
| '91-'95 | 149,241 | 33,201 | h/ | 3,010 | 301 | 4,042 | 62,183 | - | 453 | 15 | -- | 7,433 | 37,437 | 4,343 | 49,228 |
| '96-00 | 145,345 | 12,669 | h/ | 93 | 2,664 | 430 | 90,676 | - | 3,923 | 279 | -- | 8,346 | 16,925 | 3,094 | 28,644 |
| '01-05 | 406,762 | 25,933 | h/ | 20,621 | 8,348 | 9,496 | 249,812 | - | 26,143 | 9,041 | 6,795 | 19,433 | 75,027 | 17,844 | 128,141 |
| 2006 | 223,000 | 18,623 | ${ }^{\text {n/ }}$ | 7,087 | 7,245 | 5,106 | 126,158 | 1,564 | 3,692 | 0 | -- | 14,983 | 30,966 | 12,351 | 58,300 |
| 2007 | 155,043 | 14,608 | h/ | 6,527 | 6,774 | 3,336 | 80,829 | 1,857 | 5,068 | 3 | -- | 9,847 | 28,060 | 10,110 | 48,021 |
| 2008 | 221,369 | 7,284 | h/ | 20,312 | 4,486 | 6,007 | 151,895 | 2,625 | 19,520 | 12,314 | -- | 13,241 | 49,741 | 10,493 | 85,789 |
| 2009 | 218,203 | 10,257 | h/ | 17,246 | 4,175 | 4,521 | 147,489 | 1,237 | 17,371 | 0 | -- | 22,836 | 46,111 | 8,696 | 77,643 |
| 2010 | 465,719 | 35,987 | h/ | 29,735 | 24,892 | 10,807 | 277,389 | 5,789 | 37,609 | 25,008 | -- | 29,703 | 109,120 | 35,699 | 199,530 |
| 2011 | 319,763 | 32,008 | h/ | 12,006 | 11,101 | 5,759 | 205,431 | 4,517 | 24,009 | 7 | -- | 22,874 | 72,540 | 16,860 | 112,280 |
| 2012 | 295,232 | 28,293 | n/ | 14,122 | 10,057 | 6,618 | 186,448 | 3,597 | 21,339 | 820 | -- | 21,669 | 67,351 | 16,675 | 106,515 |
| 2013 | 189,865 | 15,116 | h/ | 7,141 | 8,064 | 3,297 | 112,934 | 1,428 | 7,198 | 0 | -- | 8,870 | 30,882 | 11,361 | 51,113 |
| 2014 | 311,641 | 15,456 | n/ | 16,272 | 4,643 | 4,664 | 224,946 | 3,607 | 24,732 | 13,807 | -- | 18,001 | 60,067 | 9,307 | 101,182 |
| 2015 | 420,388 | 27,244 | n/ | 19,955 | 13,669 | 8,373 | 265,558 | 3,102 | 37,299 | 20,327 | -- | 10,854 | 87,600 | 22,042 | 140,823 |
| 2016 | 275,792 | 19,488 | h/ | 12,767 | 10,496 | 4,154 | 172,614 | 2,480 | 21,794 | 1,993 | -- | 15,073 | 56,529 | 14,650 | 88,245 |
| 2017 | 210,191 | 18,433 | h/ | 8,998 | 17,597 | 1,300 | 107,524 | 84 | 5,561 | 0 | -- | 8,109 | 33,076 | 18,897 | 60,082 |
| Summer Chinook ${ }^{\text {gij }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| '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 | - | - | 708 | -- | 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 |
| '01-05 | 70,287 | 0 | 0 | 1,264 | 8 | 603 | 68,412 | 242 | 6,653 | 3,646 | -- | 978 | 8,160 | 611 | 13,394 |
| 2006 | 77,573 | 0 | 0 | 4,926 | 9 | 4,819 | 67,819 | 276 | 5,439 | 15,771 | 0 | 548 | 10,641 | 4,828 | 31,788 |
| 2007 | 37,035 | 0 | 0 | 2,214 | 0 | 1,122 | 33,699 | 136 | 5,276 | 4,564 | 0 | 811 | 7,626 | 1,122 | 14,123 |
| 2008 | 55,532 | 0 | 0 | 2,140 | 59 | 1,370 | 51,963 | 942 | 4,701 | 8,317 | 0 | 712 | 7,783 | 1,429 | 18,241 |
| 2009 | 53,881 | 0 | 0 | 2,341 | 22 | 2,524 | 48,994 | 175 | 3,923 | 10,441 | 0 | 1,209 | 6,439 | 2,546 | 20,635 |
| 2010 | 72,116 | 0 | 0 | 2,738 | 20 | 4,720 | 64,638 | 435 | 6,504 | 15,569 | 0 | 230 | 9,677 | 4,740 | 30,216 |
| 2011 | 80,574 | 0 | 0 | 5,576 | 0 | 5,004 | 69,994 | 303 | 6,894 | 20,645 | 0 | 0 | 12,773 | 5,004 | 38,422 |
| 2012 | 58,300 | 0 | 0 | 3,281 | 23 | 1,692 | 53,304 | 231 | 7,468 | 7,824 | 0 | 0 | 10,980 | 1,715 | 20,519 |
| 2013 | 67,553 | 0 | 0 | 2,058 | 33 | 1,954 | 63,508 | 173 | 6,739 | 13,272 | 0 | 125 | 8,970 | 1,987 | 24,354 |
| 2014 | 78,094 | 0 | 0 | 2,385 | 45 | 2,793 | 72,871 | 308 | 6,745 | 19,179 | 0 | 210 | 9,437 | 2,838 | 31,664 |
| 2015 | 126,852 | 0 | 0 | 6,152 | 105 | 3,938 | 116,657 | 609 | 15,693 | 37,733 | 0 | 30 | 22,454 | 4,043 | 64,260 |
| 2016 | 90,948 | 0 | 0 | 3,706 | 60 | 2,990 | 84,192 | 361 | 8,617 | 20,415 | 0 | 100 | 12,683 | 3,050 | 36,248 |
| 2017 | 68,044 | 0 | 0 | 3,853 | 47 | 0 | 64,144 | 136 | 4,653 | 16,168 | 0 | 160 | 8,642 | 47 | 25,017 |

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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


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 low er and upper Willamette, Clackamas, Cow litz, Kalama, Lew is, 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 dow nstream 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 betw een Bonneville and McNary Dams, the Snake and Yakima rivers, lcicle and Ringold creeks. For Spring Chinook, this is Ringold creeks and tributaries above Low er Granite Dam. For summer Chinook, this is Wanapum and Hanford Reach.
e/ Primarily mainstem fisheries betw een 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 betw een Bonneville and McNary dams. Significant subsistence fisheries also occur in tributaries throughout the Columbia and Snake River basin, especially for spring Chinook, which are no 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 allow ed and included in commercial catch or non-ticked public sales.
// Fall Chinook minimum run size includes LRH, LRW, SCH, URB, and MCB. Does not include Select Area Bright (SAB) stock.

| Year or Average | Minimum Inriver Run Size | Below Bonneville Dam |  |  |  |  | Above Bonneville Dam |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Low er River Catch |  |  | Low er River Escapement |  | Bonneville Dam Counts ${ }^{e /}$ | Mainstem Commercial Treaty Catch | Zone 6 Escapement ${ }^{\text {t/ }}$ |
|  |  | Commercial | Recreational |  | Hatchery ${ }^{\text {c/ }}$ | Tributary Dam Counts ${ }^{d /}$ |  |  |  |
|  |  |  | Buoy 10 | Mainstem ${ }^{\text {b/ }}$ |  |  |  |  |  |
| 1981-1985 | 305.3 | 132.1 | 30.6 | 11.4 | 101.0 | 4.6 | 31.9 | 2.6 | 29.2 |
| 1986-1990 | 705.0 | 392.2 | 82.3 | 13.9 | 147.6 | 5.8 | 46.3 | 5.5 | 40.7 |
| 1991-1995 | 315.1 | 115.8 | 55.9 | 10.7 | 96.0 | 3.7 | 23.6 | 2.0 | 21.6 |
| 1996-2000 | 259.4 | 63.4 | 11.7 | 16.0 | 126.6 | 2.4 | 42.5 | 2.3 | 40.3 |
| 2001-2005 | 639.1 | 177.6 | 42.9 | 30.6 | 221.9 | 6.4 | 134.5 | 5.6 | 128.9 |
| 2006 | 409.7 | 63.4 | 3.7 | 16.5 | 191.1 | 9.5 | 102.1 | 8.1 | 94.1 |
| 2007 | 349.0 | 40.3 | 8.4 | 24.2 | 161.0 | 10.5 | 92.5 | 8.0 | 84.5 |
| 2008 | 520.8 | 60.4 | 8.6 | 43.2 | 240.9 | 6.2 | 135.5 | 21.6 | 113.9 |
| 2009 | 760.2 | 124.2 | 48.1 | 40.5 | 260.4 | 32.3 | 244.9 | 8.9 | 236.0 |
| 2010 | 466.5 | 76.3 | 8.0 | 24.0 | 189.3 | 22.3 | 102.7 | 7.1 | 95.6 |
| 2011 | 378.1 | 62.3 | 7.6 | 18.0 | 108.3 | 8.7 | 146.5 | 33.3 | 113.2 |
| 2012 | 152.4 | 17.1 | 7.4 | 4.7 | 41.9 | 9.1 | 55.0 | 6.4 | 48.6 |
| 2013 | 252.8 | 48.4 | 7.6 | 10.7 | 81.9 | 21.6 | 59.6 | 8.8 | 50.8 |
| 2014 | 1,020.5 | 237.3 | 57.7 | 52.2 | 293.2 | 32.2 | 279.7 | 39.2 | 240.5 |
| 2015 | 169.6 | 31.1 | 36.9 | 7.8 | 43.5 | 4.6 | 37.4 | 2.3 | 35.1 |
| 2016 | 204.9 | 31.4 | 9.2 | 12.3 | 84.1 | 4.7 | 42.0 | 5.0 | 37.0 |
| $2017{ }^{\text {/ }}$ | 235.7 | 37.8 | 18.8 | 10.4 | 61.1 | 10.1 | 75.9 | 5.9 | 70.1 |

GOAL Hatchery Production
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. ${ }^{\text {a/ }}$


TABLE B-23. Willapa Bay fall Chinook terminal run size, catch, and spawning escapement in numbers of fish.

|  |  | Non-local Stocks | Terminal Catch |  | Spaw ning Escapement |  | Terminal Run Size ${ }^{\text {d/ }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year or Average | Gillnet Catch ${ }^{\text {a/ }}$ | Gillnet | Sport ${ }^{\text {b/d }}$ | Natural ${ }^{\text {c/ }}$ | Hatchery |  |
|  | 1981-1985 | 672 | 7,675 | 589 | 1,588 | 5,398 | 14,906 |
| $\xrightarrow{+}$ | 1986-1990 | 2,167 | 18,483 | 1,578 | 5,576 | 22,458 | 47,805 |
| $\bigcirc$ | 1991-1995 | 1,121 | 28,252 | 2,823 | 2,819 | 17,086 | 50,981 |
| $\checkmark$ | 1996-2000 | - | 12,449 | 2,182 | 2,564 | 9,168 | 26,363 |
| $\bigcirc$ | 2001-2005 | 76 | 6,604 | 3,323 | 2,288 | 15,588 | 27,803 |
| (1) | 2006 | - | 12,318 | 5,551 | 3,739 | 24,209 | 45,817 |
| 0 | 2007 | - | 4,108 | 2,579 | 1,907 | 13,400 | 21,994 |
| 0 | 2008 | - | 3,595 | 2,988 | 1,544 | 14,891 | 23,018 |
| $\bigcirc$ | 2009 | - | 6,929 | 4,623 | 2,345 | 19,831 | 33,728 |
| 7 | $2010^{\text {e/ }}$ | 81 | 8,032 | 3,309 | 4,499 | 21,565 | 37,405 |
| $\stackrel{\square}{9}$ | $2011{ }^{\text {e/ }}$ | 778 | 18,129 | 8,348 | 3,811 | 21,838 | 52,126 |
| 枵 | $2012^{\text {e/ }}$ | 932 | 8,762 | 5,933 | 2,677 | 14,134 | 31,506 |
| ¢ | $2013{ }^{\text {e/ }}$ | 1,080 | 12,886 | 5,815 | 1,904 | 14,483 | 35,088 |
|  | $2014{ }^{\text {e }}$ | 1,178 | 12,838 | 7,368 | 2,075 | 18,367 | 40,648 |
|  | 2015 ${ }^{\text {e/f/ }}$ | 1,159 | 3,681 | 12,426 | 2,824 | 26,584 | 45,515 |
|  | $2016{ }^{\text {e/f/ }}$ | 713 | 2,429 | 8,102 | 1,887 | 12,898 | 25,316 |
|  | $2017^{\text {e/f/ }}$ | 405 | 2,537 | NA | NA | NA | NA |
| N | GOAL |  |  |  | 3,393 ${ }^{\text {g/ }}$ | 9,800 ${ }^{\text {h/ }}$ |  |

a/ Non-local gillnet is catch prior to Aug. 16. 2010-13, 42\% w ere considered non-local. In 2014, 28\% w ere non-local based on genetic data samples. In 2015, non-local stock contribution based on genetic sampling throughout the duration of the commercial fishery.
b/ Adults. Sport catch since 1991 includes marine areas w ithin Willapa Bay (e.g., Washaw ay Beach).
c/ Escapement estimates after 1984 are based on revised spaw ning habitat estimates. Natural = adult returns assumed to be from natural origin parents.
d/ Does not include catch of non-local stocks.
e/ To calculate total gillnet catch, combine Non-local Stocks Gillnet Catch (column 1) and Terminal Catch Gillnet (column 2).
f/ Preliminary.
g/ MSY spaw ning escapement objective established in FMP Amendment 16; WDFW goal is 4,350 .
h/ WDFW goal; not an FMP goal.

| Year or Average | Terminal Catch |  | Spaw ning Escapement |  | Terminal Run Size ${ }^{\text {d/ }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gillnet | Sport ${ }^{\text {a/ }}$ | Natural ${ }^{\text {b/ }}$ | Hatchery ${ }^{\text {c/ }}$ |  |
| 1976-1980 | 15,031 | 2,842 | 5,800 | 14,328 | 38,001 |
| 1981-1985 | 39,007 | 2,181 | 3,567 | 26,640 | 69,968 |
| 1986-1990 | 68,969 | 2,591 | NA | 35,811 | 107,371 |
| 1991-1995 | 34,255 | 2,802 | 4,582 | 27,205 | 65,178 |
| 1996-2000 | 13,756 | 2,065 | 20,438 | 22,531 | 58,790 |
| 2001-2005 | 44,656 | 4,695 | 40,820 | 49,171 | 139,342 |
| 2006 | 19,948 | 811 | 12,918 | 7,437 | 41,114 |
| 2007 | 8,189 | 955 | 14,766 | 10,345 | 34,255 |
| 2008 | 16,692 | 1,227 | 16,512 | 10,832 | 45,263 |
| 2009 | 75,095 | 6,461 | 46,398 | 21,759 | 149,713 |
| 2010 | 29,072 | 5,053 | 73,985 | 34,387 | 142,497 |
| 2011 | 47,985 | 5,717 | 27,308 | 22,022 | 103,032 |
| 2012 | 25,783 | 5,052 | 18,880 | 14,609 | 64,324 |
| 2013 | 11,560 | 4,235 | 22,638 | 13,686 | 52,119 |
| 2014 | 77,475 | 21,221 | 47,154 | 83,059 | 228,909 |
| $2015{ }^{\text {e/ }}$ | 1,926 | 11,156 | 10,790 | 21,297 | 45,169 |
| $2016{ }^{\text {e/ }}$ | 19,324 | 5,243 | 25,290 | 21,849 | 71,706 |
| $2017{ }^{\text {e/ }}$ | 4,615 | NA | NA | NA | NA |
| GOAL |  |  | 17,200 ${ }^{\text {/ }}$ | 6,100 ${ }^{\text {t/ }}$ |  |

a/ Adults. Sport catch since 1991 includes marine areas within Williapa Bay (e.g., Washaw ay Beach).
b/ Natural spaw ning escapement estimates were not made in 1984-1994; estimates in 1996, 1997, and 1998 do not include adult fish released upstream of hatchery racks. Estimates from 1996 to present include both wild and naturally spaw ing hatchery fish.
c/ Hatchery rack number includes fish released upstream.
d/ Does not include natural spaw ning escapement betw een 1984 and 1994.
e/ Preliminary.
f/ Willapa Bay Coho w ere added to the FMP in 2011; the STT finalized the new FMP goal for use beginning in 2016.

| Year or Average | Early Nonlocal Catch | Terminal Catch |  |  |  | Spaw ning Escapement |  | $\begin{gathered} \text { Terminal Run } \\ \text { Size }^{\mathrm{d} /} \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Non-Indian | Treaty Indian | Chehalis Tribal | Sport ${ }^{\text {/ }}$ |  |  |  |
|  |  | Gillnet | Gillnet | Gillnet |  | Natural ${ }^{\text {/ }}$ | Hatchery ${ }^{\text {c/ }}$ |  |
| SPRING Chinook |  |  |  |  |  |  |  |  |
| 1981-1985 | - | - | - | 57 | 5 | 924 | - | 963 |
| 1986-1990 | - | - | e/ | 143 | 6 | 1,875 | - | 2,024 |
| 1991-1995 | - | - | 0 | 94 | 15 | 1,566 | - | 1,675 |
| 1996-2000 | - | - | 36 | 165 | 100 | 3,146 ${ }^{\text {/ }}$ | - | 3,447 |
| 2001-2005 | - | - | 46 | 249 | 132 | 2,905 | - | 3,332 |
| 2006 | - | - | 5 | 249 | 128 | 2,481 | - | 2,863 |
| 2007 | - | - | 5 | 205 | 54 | 651 | - | 915 |
| 2008 | - | - | 2 | 0 | 0 | 995 | - | 997 |
| 2009 | - | - | 18 | 0 | 0 | 1,132 | - | 1,150 |
| 2010 | - | - | 0 | 0 | 0 | 3,495 | - | 3,495 |
| 2011 | - | - | 10 | 0 | 0 | 2,563 | - | 2,573 |
| 2012 | - | - | 6 | 201 | 66 | 878 | - | 1,151 |
| 2013 | - | - | 31 | NA | 148 | 2,459 | - | 2,638 |
| 2014 | - | - | 14 | NA | 62 | 1,583 | - | 1,659 |
| $2015^{9 /}$ | - | - | 32 | 156 | 36 | 1,841 | - | 2,065 |
| $2016{ }^{\text {g/ }}$ | - | - | 7 | 104 | 19 | 926 | - | 1,078 |
| $\underline{2017}{ }^{\text {g/ }}$ | - | - | 1 | 6 | NA | NA | - | NA |
| GOAL |  |  |  |  |  | 1,092 ${ }^{\text {i/ }}$ |  |  |


| Year or Average | Early Nonlocal Catch | Terminal Catch |  |  |  | Spaw ning Escapement |  | $\begin{gathered} \text { Terminal Run } \\ \text { Size }^{\mathrm{d} /} \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Non-Indian | Treaty Indian | Chehalis Tribal |  |  |  |  |
|  |  | Gillnet | Gillnet | Gillnet | Sport ${ }^{\text {a/ }}$ | Natural ${ }^{\text {b/ }}$ | Hatchery ${ }^{\text {c/ }}$ |  |
| FALL Chinook |  |  |  |  |  |  |  |  |
| 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 hil |
| 1991-1995 | 206 | 5,000 | 7,750 | 901 | 3,794 | 14,276 | 3,006 | 34,728 $\mathrm{hi/}$ |
| 1996-2000 | 170 | 1,048 | 4,010 | 74 | 2,977 | 14,134 | 2,184 | 24,426 ${ }^{\text {hi/ }}$ |
| 2001-2005 | 8 | 684 | 2,291 | 10 | 2,687 | 18,534 | 761 | 24,968 ${ }^{\text {/ }}$ |
| 2006 | 0 | 256 | 3,738 | 0 | 1,629 | 17,428 | 1,941 | 24,992 ${ }^{\text {/ }}$ |
| 2007 | 0 | 529 | 2,472 | 19 | 1,698 | 13,117 | 583 | 18,418 ${ }^{\prime \prime}$ |
| 2008 | 0 | 779 | 1,878 | 0 | 0 | 15,391 | 500 | 18,548 ${ }^{\text {/ }}$ |
| 2009 | 0 | 1,231 | 2,485 | 0 | 860 | 9,290 | 666 | 14,532 ${ }^{\text {// }}$ |
| 2010 | 0 | 1,638 | 3,403 | 0 | 2,005 | 18,158 | 650 | 25,854 ${ }^{\text {/ }}$ |
| 2011 | 0 | 2,298 | 6,402 | 0 | 3,086 | 22,870 | 1,363 | 36,019 ${ }^{\prime \prime}$ |
| 2012 | 0 | 1,731 | 3,988 | 3 | 4,490 | 14,032 | 862 | 25,106 ${ }^{\text {/ }}$ |
| 2013 | 0 | 103 | 2,875 | 0 | 3,618 | 12,582 | 701 | 19,879 ${ }^{\text {// }}$ |
| 2014 | 0 | 73 | 5,094 | 2 | 1,124 | 11,821 | 1,676 | 19,790 |
| $2015{ }^{\text {g/ }}$ | 0 | 126 | 10,497 | 0 | 3,644 | 22,200 | 2,182 | 38,648 |
| $2016{ }^{\text {g/ }}$ | 0 | 36 | 2,061 | 2 | 2,837 | 11,248 | 990 | 17,173 |
| $2017{ }^{\text {g/ }}$ | 0 | 31 | 3,578 | 0 | NA | NA | 2,404 | NA |
| GOAL |  |  |  |  |  | 13,326 ${ }^{\text {i/ }}$ |  |  |

a/ Age-3 and older.
b/ Age-3 and older, including hatchery fish spaw ning naturally.
c/ Includes fish taken from the spaw ning grounds for broodstock.
d/ Minimum estimate due to incomplete estimates of river recreational catch. Does not include non-local catch.
e/ Few er than 50 fish.
f/ In 1996 and 1997 WDFW not able to differentiate spaw ning time and believes this includes fall Chinook.
g/ Preliminary.
$\mathrm{h} /$ Rec. catch estimates by WDFW reflect a catch record card bias correction factor of 0.833 . Quinault 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.
i/ November 2014: Council adopted new spaw ning escapement objective under FMP Amendment 16 . Previous objectives used for preseason planning in 2014 w ere 1,400 (spring) and 14,600 (fall).

| Terminal Catch |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year or | Non-Indian | Treaty | Chehalis |  | Spaw ning Escapement ${ }^{\text {b/ }}$ |  | Terminal Run Size ${ }^{\text {c/ }}$ |  |  |
| Average | Gillnet | Indian Gillnet | Tribal Gillnet | Sport ${ }^{\text {a }}$ | Natural | Hatchery | Natural | Hatchery | Total ${ }^{\text {d/ }}$ |
| 1981-1985 | 5,299 | 15,614 | 2,865 | 5,012 | 36,847 | 17,253 | 49,162 | 32,882 | 82,044 |
| 1986-1990 | 7,715 | 30,109 | 1,817 | 5,355 | 44,116 | 29,963 | 58,835 | 60,298 | 119,133 |
| 1991-1995 | 12,502 | 29,166 | 2,609 | 10,503 | 35,826 | 31,304 | 46,949 | 76,403 | 123,352 |
| 1996-2000 | 3,535 | 18,701 | 635 | 6,829 | 38,467 | 27,673 | 42,897 | 53,683 | 96,580 |
| 2001-2005 | 5,006 | 16,527 | 1,155 | 13,349 | 74,821 | 60,708 | 82,110 | 90,248 | 172,358 |
| 2006 | 649 | 8,685 | 127 | 2,151 | 17,767 | 17,223 | 21,779 | 25,142 | 46,921 |
| 2007 | 1,687 | 8,926 | 1,108 | 4,450 | 25,121 | 15,236 | 26,833 | 30,080 | 56,913 |
| 2008 | 7,766 | 10,204 | 869 | 3,266 | 34,054 | 20,039 | 41,999 | 34,808 | 76,807 |
| 2009 | 567 | 28,513 | 2,519 | 16,288 | 69,222 | 55,864 | 80,867 | 93,334 | 174,201 |
| 2010 | 4,090 | 25,163 | 1,542 | 12,455 | 102,237 | 74,069 | 112,930 | 107,644 | 220,574 |
| 2011 | 3,517 | 28,267 | 742 | 14,569 | 64,403 | 23,757 | 80,488 | 55,886 | 136,374 |
| 2012 | 10,279 | 30,670 | 2,470 | 18,069 | 66,836 | 22,301 | 94,191 | 58,048 | 152,239 |
| 2013 | 5,935 | 21,957 | 2,515 | 21,246 | 56,785 | 26,732 | 73,263 | 62,936 | 136,198 |
| 2014 | 5,504 | 67,252 | 7,322 | 28,595 | 105,039 | 59,840 | 140,428 | 134,341 | 274,769 |
| 2015 | 1,540 | 12,544 | 610 | 8,172 | 21,278 | 9,646 | 28,953 | 24,825 | 53,778 |
| 2016 | 232 | 2,063 | 891 | 3,868 | 37,849 | 24,464 | 33,383 | 35,984 | 69,367 |
| $2017{ }^{\text {e/ }}$ | 1,180 | 10,554 | 927 | NA | NA | 21,448 | NA | NA | NA |
| GOAL |  |  |  |  | 24,426 ${ }^{\text {f/ }}$ |  |  |  |  |

a/ Beginning in 1987, estimates provided by WDFW for recreational catch reflect punch card bias correction factor.
b/ "Natural" includes hatchery fish spaw ning in wild. "Hatchery" includes w ild 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 onstation and off-station escapements.
e/ Preliminary.
f/ The MSH escapement objective of $35,400 \mathrm{w}$ as used for preseason planning through the 2013 season.


|  | Year or Average | Terminal Catch ${ }^{\text {a/ }}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ceremonial \& |  |  | Escapement |  | Terminal Run Size |  |  |
|  |  | Gillnet | Subsistence | River Sport | Natural | Hatchery | Natural | Hatchery | Total |
| $\stackrel{\rightharpoonup}{N}$ | 1981-1985 | 10,700 | -- | -- | 3,237 | 6,239 | 7,809 | 12,657 | 20,466 |
| $\stackrel{\bigcirc}{-}$ | 1986-1990 | 13,777 | -- | -- | 3,185 | 4,239 | 8,024 | 13,200 | 21,224 |
| $\bigcirc$ | 1991-1995 | 7,963 | -- | -- | 4,319 | 8,046 | 6,205 | 13,472 | 19,678 |
| \% | 1996-2000 | 9,617 | -- | -- | 8,067 | 7,566 | 12,608 | 12,353 | 24,961 |
| $\stackrel{1}{ }$ | 2001-2005 | 21,600 | -- | -- | 9,262 | 16,945 | 15,147 | 32,368 | 47,515 |
| $\infty$ | 2006 | 9,785 | 336 | 325 | 1,110 | 3,207 | 3,432 | 11,032 | 14,464 |
| $\frac{3}{3}$ | 2007 | 11,770 | 578 | 650 | 6,193 | 15,069 | 9,778 | 24,395 | 34,173 |
| $\bigcirc$ | 2008 | 25,227 | 961 | 978 | 14,920 | 14,959 | 26,544 | 29,774 | 56,318 |
| $7 \square$ | 2009 | 54,882 | 2,036 | 2,047 | 33,140 | 23,353 | 48,324 | 66,095 | 114,419 |
| $\stackrel{0}{\square}$ | 2010 | 41,726 | 1,449 | 1,450 | 19,302 | 12,785 | 33,577 | 41,680 | 75,257 |
| $\stackrel{\text { ® }}{ }$. | 2011 | 38,431 | 1,481 | 1,570 | 26,588 | 19,131 | 41,759 | 43,420 | 85,179 |
| $\infty$ | 2012 | 19,166 | 656 | 798 | 13,026 | 5,383 | 23,171 | 15,514 | 38,685 |
|  | 2013 | 20,477 | 942 | 1,203 | 23,592 | 17,818 | 29,579 | 33,628 | 63,207 |
|  | 2014 | 50,294 | 2,061 | 2,334 | 54,065 | 31,132 | 78,517 | 62,945 | 141,462 |
|  | 2015 ${ }^{\text {b/ }}$ | 9,734 | 548 | 809 | 17,476 | 13,473 | 22,601 | 20,753 | 43,354 |
|  | $2016^{\text {b/ }}$ | 37,187 | NA | NA | NA | 14,141 | NA | NA | NA |
| ${ }^{\omega}$ | $2017^{\text {b/ }}$ | 33,838 | NA | NA | NA | 18,204 | NA | NA | NA |
|  | GOAL | Hatchery Production |  |  |  |  |  |  |  |

a/ Includes dip-in fish destined for other river systems.
b/ Preliminary.

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.
e/ A fishery targeting early fall coho at the tail end of August in w eeks 33 and 34 caught a number of early Chinook.

|  | Average | Terminal Catch |  |  | $\frac{\text { Escapement }}{\text { Natural }^{\text {b/b }}}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ceremonial \& |  |  |  | Terminal Run Size |  |  |
|  |  | Gillnet | Subsistence | River Sport ${ }^{\text {a/ }}$ |  | Natural ${ }^{\text {c/ }}$ | Indicator ${ }^{\text {d }}$ | Total |
| N | 1981-1985 | 2,104 | 20 | 135 | 3,930 | 5,691 | 591 | 6,282 |
| $\stackrel{\square}{*}$ | 1986-1990 | 2,430 | 20 | 214 | 8,768 | 10,677 | 861 | 11,538 |
| $\bigcirc$ | 1991-1995 | 1,860 | 20 | 109 | 4,106 | 5,511 | 708 | 6,219 |
| (\%) | 1996-2000 | 1,006 | 20 | 188 | 3,324 | 4,092 | 567 | 4,659 |
| ) | 2001-2005 | 1,690 | 82 | 279 | 4,077 | 4,505 | 1,610 | 6,115 |
| $\infty$ | 2006 | 1,079 | 57 | 71 | 3,059 | 3,262 | 1,004 | 4,266 |
| $\frac{3}{3}$ | 2007 | 634 | 20 | 74 | 872 | 1,288 | 307 | 1,595 |
| $\bigcirc$ | 2008 | 1,020 | 41 | 0 | 3,105 | 3,510 | 698 | 4,208 |
| T | 2009 | 1,522 | 65 | 209 | 3,135 | 4,062 | 856 | 4,918 |
| $\stackrel{0}{0}$ | 2010 | 1,722 | 81 | 169 | 4,031 | 4,250 | 1,751 | 6,001 |
| $\stackrel{\mathrm{D}}{\stackrel{\mathrm{D}}{\mathrm{D}}}$ | 2011 | 2,327 | 83 | 412 | 3,857 | 4,877 | 1,772 | 6,649 |
| $\infty$ | 2012 | 2,722 | 86 | 296 | 3,707 | 5,835 | 922 | 6,757 |
|  | 2013 | 1,943 | 63 | 369 | 2,582 | 4,070 | 887 | 4,957 |
|  | 2014 | 1,180 | 73 | 117 | 3,820 | 3,099 | 2,059 | 5,158 |
|  | 2015 | 1,314 | 102 | 567 | 5,313 | 4,825 | 2,627 | 7,452 |
| N | 2016 | 804 | 59 | 39 | 2,915 | 3,119 | 780 | 3,913 |
| $\cdots$ | $2017{ }^{\text {e/ }}$ | 1,568 | NA | NA | NA | NA | NA | NA |
|  | GOAL |  |  |  | $2,500^{\text {t/ }}$ |  |  |  |

a/ River sport catch of age-3 and older fish. The 2000 sport fishery w as closed to retention of unmarked Chinook. The 2002 sport fishery w as 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 w as 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 w ild Chinook captured each season near spaw ning grounds to be used as Indicator broodstock.
d/ This is an integrated wild/hatchery program. Brood stock are unmarked w ild fish collected from river.
e/ Preliminary.
$\mathrm{f} /$ Minimum. Terminal run managed at 40 percent exploitation rate of terminal run size.

| $\sum_{0}^{10}$ | Year or Average | Terminal Catch ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ceremonial \& |  |  | Escapement ${ }^{\text {// }}$ |  |  | Terminal Run Size ${ }^{\text {c/ }}$ |  |  |  |
|  |  | Gillnet | Subsistence | River Sport ${ }^{\text {b/ }}$ | Natural | Supplemental | Hatchery | Natural | Supplemental | Hatchery | Total ${ }^{\text {d/ }}$ |
| N | 1981-1985 | 2,385 | 20 | 104 | 5,397 | - | 2,654 | 6,411 | - | 3,794 | 10,205 |
| $\stackrel{ }{ }$ | 1986-1990 | 8,455 | 18 | 241 | 4,826 | 996 | 3,700 | 6,343 | 1,825 | 9,685 | 17,123 |
| V | 1991-1995 ${ }^{\text {/ }}$ | 4,415 | 211 | 273 | 4,943 | 1,024 | 3,455 | 5,971 | 1,167 | 6,925 | 13,829 |
| \% | 1996-2000 | 7,117 | 509 | 173 | 5,535 | 1,541 | 3,643 | 6,244 | 1,818 | 8,481 | 16,180 |
| $\stackrel{1}{3}$ | 2001-2005 ${ }^{\text {ef/f }}$ | 15,903 | 1,044 | 971 | 12,345 | 977 | 5,512 | 15,834 | 1,413 | 17,865 | 35,111 |
| $\infty$ | 2006 ${ }^{\text {f/ }}$ | 6,233 | 312 | 52 | 5,612 | 0 | 2,914 | 6,400 | 0 | 7,100 | 13,500 |
| 3 | 2007 | 2,261 | 165 | 760 | 4,600 | 0 | 2,130 | 6,243 | 0 | 3,422 | 9,665 |
| 익 | 2008 | 4,738 | 359 | 562 | 4,629 | 0 | 3,461 | 6,426 | 0 | 5,784 | 12,210 |
| 7 | 2009 | 25,004 | 1,677 | 865 | 9,204 | 0 | 14,151 | 16,908 | 0 | 30,160 | 47,068 |
| $\stackrel{0}{0}$ | 2010 | 21,138 | 1,415 | 944 | 11,261 | 0 | 10,326 | 18,298 | 0 | 21,519 | 39,817 |
| $\stackrel{\text { ® }}{ }$. | 2011 | 16,641 | 1,229 | 1,521 | 8,588 | 0 | 12,887 | 15,356 | 0 | 19,828 | 35,184 |
| $\infty$ | 2012 | 6,118 | 370 | 527 | 4,285 | 0 | 1,075 | 6,019 | 0 | 3,284 | 9,303 |
|  | 2013 | 4,519 | 522 | 1,285 | 5,684 | 0 | 9,680 | 7,942 | 0 | 11,476 | 19,418 |
|  | 2014 | 15,478 | 1,145 | 1,625 | 7,557 | 0 | 12,179 | 9,769 | 0 | 22,664 | 32,433 |
|  | 2015 | 2,268 | 215 | 308 | 2,028 | 0 | 3,315 | 2,383 | 0 | 5,121 | 7,504 |
| N | 2016 | 6,822 | 564 | 440 | 5,156 | 0 | 6,985 | 6,035 | 0 | 12,573 | 18,608 |
| O | 2017 ${ }^{\text {/ }}$ | 7,568 | NA | NA | NA | 0 | NA | NA | 0 | NA | NA |
|  | GOAL |  |  |  | 800-14,5 |  |  |  |  |  |  |

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 w as included in natural escapement and run size.
f/ In 2004, 2005 and 2006 escapement estimates are from non-standard methods due to poor survey conditions during the coho spaw ning season.
g/ Preliminary.

|  | Year or <br> Average | Terminal Catch ${ }^{\text {a }}$ |  |  |  |  |  |  | Escapement |  | Terminal Run Size |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Gillnet |  |  | Ceremonial \& Subsistence |  |  | River Sport ${ }^{\text {b/ }}$ |  |  |  |  |  |
| 2 |  | Natural | Hatchery | Total | Natural | Hatchery | Total |  | Natural | Hatchery | Natural | Hatchery | Total |
| N | 1981-1985 | NA | NA | 448 | -- | -- | 30 | 124 | 1,431 | 50 | 1,944 | 128 | 2,073 |
| $\checkmark$ | 1986-1990 | NA | NA | 1,072 | -- | -- | 33 | 315 | 2,829 | 34 | 4,043 | 257 | 4,300 |
| $\bigcirc$ | 1991-1995 | NA | NA | 432 | -- | -- | 22 | 273 | 1,268 | 0 | 1,852 | 156 | 2,008 |
| \% | 1996-2000 ${ }^{\text {c/ }}$ | NA | NA | 285 | -- | -- | 33 | 192 | 1,181 | 23 | 1,631 | 96 | 1,727 |
| $\stackrel{1}{\sim}$ | 2001-2005 ${ }^{\text {d/e/ }}$ | NA | NA | 348 | -- | -- | 30 | 159 | 1,566 | 0 | 1,976 | 115 | 2,091 |
| $\infty$ | $2006{ }^{\text {e/ }}$ | NA | NA | 576 | -- | -- | 37 | 109 | 904 | 0 | 1,061 | 571 | 1,632 |
| $\frac{3}{3}$ | $2007{ }^{\text {e/ }}$ | NA | NA | 760 | -- | -- | 68 | 136 | 810 | 0 | 1,023 | 592 | 1,615 |
| $\bigcirc$ | $2008{ }^{\text {d/e/ }}$ | 22 | 227 | 249 | 10 | 40 | 50 | 7 | 671 | 0 | 703 | 274 | 977 |
| 끈 | 2009 ${ }^{\text {d/e }}$ | 30 | 106 | 136 | 3 | 2 | 5 | 12 | 880 | 2 | 913 | 122 | 1,035 |
| $\stackrel{\square}{0}$ | 2010 ${ }^{\text {d/e }}$ | 24 | 83 | 107 | 0 | 0 | 0 | 6 | 828 | 0 | 852 | 89 | 941 |
| $\frac{D}{\infty} .$ | 2011 ${ }^{\text {d/e }}$ | 51 | 25 | 76 | 7 | 3 | 10 | 22 | 827 | 0 | 885 | 50 | 935 |
| $\infty$ | $2012{ }^{\text {d/e }}$ | 135 | 263 | 398 | 9 | 11 | 20 | 36 | 915 | 1 | 1,059 | 311 | 1,370 |
|  | $2013{ }^{\text {d/e/ }}$ | 117 | 415 | 532 | 6 | 17 | 23 | 65 | 750 | 0 | 873 | 497 | 1,370 |
|  | $2014{ }^{\text {d/e/h/ }}$ | 67 | 264 | 331 | 8 | 20 | 28 | 0 | 744 | 0 | 819 | 284 | 1,103 |
|  | $2015{ }^{\text {d/efflh/ }}$ | 17 | 55 | 72 | 9 | 5 | 14 | 0 | 1,070 | 0 | 1,096 | 60 | 1,156 |
|  | $2016{ }^{\text {d/effh } /}$ | 4 | 2 | 6 | 10 | 16 | 26 | 0 | 1,144 | 0 | 1,158 | 18 | 1,176 |
| V | $2017{ }^{\text {delfifh } /}$ | 7 | 39 | 46 | 8 | 12 | 20 | 0 | 1,364 | 0 | 1,379 | 51 | 1,430 |
|  | GOAL |  |  |  |  |  |  |  | $900^{9 /}$ |  |  |  |  |

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); begining in 2008, all Chinook must be marked with a healed adipose fin clip.
c/ In 1999, the sport fishery was closed until July 14.
d/ Sport fishery closed to retention of wild adult spring/summer Chinook through August 31in 2001, 2002, and every year since 2008
e/ Sport fishery open May 16 through August 31 from mouth to Willoughby Creek since 2002.
f/ Preliminary.
$\mathrm{g} /$ Minimum. Terminal run managed at 31 percent harvest rate of inriver run size.
h/ Sport salmon fishery closed through August 31.

| Year or Average | Terminal Catch |  |  | Escapement |  | Terminal Run Size |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ceremonial \& |  |  |  |  |  |  |  |
|  | Gillnet | Subsistence | River Sport ${ }^{\text {a/ }}$ | Natural ${ }^{\text {b/ }}$ | Hatchery | Natural ${ }^{\text {b/ }}$ | Hatchery | Total |
| 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 |
| 1996-2000 | 759 | 29 | 303 | 2,545 | 0 | 3,611 | 25 | 3,636 |
| 2001-2005 ${ }^{\text {/ }}$ | 942 | 30 | 316 | 3,217 | 31 | 4,382 | 155 | 4,537 |
| 2006 | 586 | 30 | 204 | 1,535 | 0 | 2,336 | 19 | 2,355 |
| 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 | 2,768 |
| 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 | 929 | 10 | 237 | 1,937 | 0 | 3,014 | 99 | 3,113 |
| 2013 | 1,683 | 10 | 477 | 1,269 | 0 | 3,297 | 142 | 3,439 |
| 2014 | 658 | 10 | 144 | 1,933 | 0 | 2,664 | 81 | 2,745 |
| $2015{ }^{\text {d/ }}$ | 493 | 11 | 198 | 1,795 | 0 | 2,439 | 58 | 2,497 |
| $2016{ }^{\text {d/ }}$ | 137 | 3 | 47 | 2,831 | 0 | 3,012 | 6 | 3,018 |
| $2017{ }^{\text {d }}$ | 518 | 20 | 130 | 1,808 | 0 | 2,454 | 22 | 2,476 |
| GOAL |  |  |  | 1,200 ${ }^{\text {e/ }}$ |  |  |  |  |

a/ Recreational catch of age-3 and older fish.
b/ Includes fish taken for hatchery brood stock.
c/ In 2002: 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 w eeks 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 <br> Average | Terminal Catch ${ }^{\text {a }}$ |  |  | Escapement |  | Terminal Run Size |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ceremonial \& |  |  |  |  |  |  |
|  | Gillnet | Subsistence | River Sport ${ }^{\text {b/ }}$ | Natural ${ }^{\text {l/ }}$ | Hatchery | Natural ${ }^{\text {c/ }}$ | Hatchery | Total |
| 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 |
| 1996-2000 ${ }^{\text {d/ }}$ | 1,069 | 28 | 171 | 4,406 | 0 | 5,518 | 159 | 5,678 |
| 2001-2005 ${ }^{\text {/ }}$ | 2,796 | 28 | 451 | 7,094 | 831 | 9,752 | 1,437 | 11,189 |
| 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 | 2,706 | 10 | 444 | 4,072 | 0 | 7,106 | 126 | 7,232 |
| 2013 | 4,830 | 20 | 1,093 | 2,899 | 0 | 8,609 | 233 | 8,842 |
| 2014 | 3,879 | 20 | 432 | 4,565 | 0 | 8,656 | 240 | 8,896 |
| 2015 ${ }^{\text {// }}$ | 579 | 10 | 253 | 1,794 | 0 | 2,609 | 27 | 2,636 |
| 2016 ${ }^{\text {// }}$ | 297 | 2 | 40 | 5,009 | 0 | 5,324 | 24 | 5,348 |
| 2017 ${ }^{\text {// }}$ | 1,766 | 20 | NA | 4,478 | 0 | 6,138 | 126 | 6,264 |
| 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 estimate include fish taken for hatchery brood stock.
d/ In 1997: Recreational fishermen w ere limited to Chinook only. Release of adult coho required. Tribal net fishery used large mesh to minimize coho impacts.
e/ In 2002: 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 w ere for tw o w eeks.
$f /$ Preliminary.

| Year or <br> Average | Terminal Catch |  |  | Escapement |  | Terminal Run Size |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ceremonial \& |  |  |  |  |  |  |  |
|  | Gillnet | Subsistence ${ }^{\text {a/ }}$ | River Sport ${ }^{\text {b/ }}$ | Natural ${ }^{\text {c/ }}$ | Hatchery ${ }^{\text {d/ }}$ | Natural ${ }^{\text {c/ }}$ | Hatchery ${ }^{\text {d/ }}$ | Total |
| 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 |
| 1996-2000 | 213 | 50 | 239 | 1,072 | 299 | 1,272 | 585 | 1,857 |
| 2001-2005 | 296 | 41 | 377 | 1,083 | 925 | 1,220 | 1,498 | 2,717 |
| 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 | 483 | 30 | 192 | 555 | 722 | 682 | 1,301 | 1,983 |
| 2010 | 567 | 0 | 233 | 772 | 880 | 941 | 1,554 | 2,495 |
| 2011 | 599 | 41 | 659 | 569 | 696 | 823 | 1,759 | 2,582 |
| 2012 | 880 | 20 | 640 | 729 | 437 | 841 | 1,881 | 2,722 |
| 2013 | 1,204 | 0 | 803 | 957 | 528 | 1,148 | 2,380 | 3,528 |
| 2014 | 714 | 0 | 481 | 608 | 342 | 843 | 1,330 | 2,173 |
| $2015{ }^{\text {e/ }}$ | 1,075 | 0 | 556 | 794 | 505 | 1,006 | 1,924 | 2,930 |
| 2016 ${ }^{\text {/ }}$ | 1,374 | 15 | 480 | 900 | 745 | 1,171 | 2,443 | 3,614 |
| $2017{ }^{\text {e/ }}$ | 1,239 | 60 | 506 | 1,146 | 521 | 1,409 | 2,061 | 3,470 |
| GOAL |  |  |  | 1,200 ${ }^{\text {f/ }}$ |  |  |  |  |

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 sepatately.
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/ FMP goal is adults; WDFW goal of 1,200 includes age- 3 males (jacks).

|  | Year or Average | Terminal Catch |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ceremonial \& |  |  | Escapement |  | Terminal Run Size |  |  |
|  |  | Gillnet | Subsistence ${ }^{\text {a/ }}$ | River Sport ${ }^{\text {b/ }}$ | Natural ${ }^{\text {c/ }}$ | Hatchery ${ }^{\text {d/ }}$ | Natural ${ }^{\text {c/ }}$ | Hatchery ${ }^{\text {d/ }}$ | Total |
| N | 1981-1985 | 2,075 | 50 | 131 | 6,282 | 77 | 8,219 | 305 | 8,525 |
| $\stackrel{\rightharpoonup}{*}$ | 1986-1990 | 5,475 | 50 | 564 | 12,238 | 112 | 18,004 | 379 | 18,383 |
| $\bigcirc$ | 1991-1995 | 713 | 50 | 289 | 5,670 | 11 | 6,705 | 29 | 6,733 |
| ¢ | 1996-2000 | 831 | 90 | 338 | 5,307 | 0 | 6,566 | 0 | 6,566 |
| $\stackrel{1}{3}$ | 2001-2005 | 1,602 | 80 | 547 | 5,768 | 0 | 8,196 | 13 | 8,209 |
| $\infty$ | 2006 | 1,969 | 0 | 35 | 5,642 | 0 | 7,656 | 15 | 7,671 |
| $\frac{1}{3}$ | 2007 | 905 | 0 | 166 | 3,066 | 0 | 4,137 | 0 | 4,137 |
| 익 | 2008 | 1,426 | 0 | 217 | 3,612 | 0 | 5,250 | 5 | 5,255 |
| 7 | 2009 | 2,434 | 0 | 352 | 3,130 | 0 | 5,874 | 42 | 5,916 |
| $\stackrel{0}{0}$ | 2010 | 1,815 | 0 | 553 | 4,635 | 0 | 6,985 | 18 | 7,003 |
| $\stackrel{\text { ® }}{\sim}$ | 2011 | 1,972 | 3 | 868 | 3,963 | 0 | 6,765 | 41 | 6,806 |
| $\infty$ | 2012 | 2,842 | 0 | 358 | 3,518 | 0 | 6,682 | 36 | 6,718 |
|  | 2013 | 2,001 | 0 | 1,024 | 3,901 | 0 | 6,877 | 49 | 6,926 |
|  | 2014 | 4,213 | 0 | 423 | 2,782 | 0 | 7,322 | 96 | 7,418 |
|  | $2015{ }^{\text {e/ }}$ | 2,387 | 0 | 868 | 3,440 | 0 | 6,676 | 19 | 6,695 |
| N | $2016{ }^{\text {e/ }}$ | 1,328 | 0 | 29 | 3,654 | 0 | 5,005 | 6 | 5,011 |
| $\pm$ | $2017{ }^{\text {e/ }}$ | 3,999 | 0 | 425 | 3,391 | 0 | 7,773 | 42 | 7,815 |
|  | GOAL |  |  |  | 3,000 ${ }^{\text {t/ }}$ |  |  |  |  |

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/ Minimum. Terminal run managed at 40 percent harvest rate.

| Year or Average | Terminal Catch ${ }^{\text {/ }}$ |  |  | Escapement |  | Terminal Run Size |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ceremonial \& |  |  |  |  |  |  |
|  | Gillnet | Subsistence ${ }^{\text {b/ }}$ | River Sport ${ }^{\text {c/ }}$ | Natural ${ }^{\text {d/ }}$ | Hatchery ${ }^{\text {e/ }}$ | Natural ${ }^{\text {d/ }}$ | Hatchery ${ }^{\text {e/ }}$ | Total |
| SUMMER COHO |  |  |  |  |  |  |  |  |
| 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 |
| 1996-2000 | 1,213 | 50 | 173 | 638 | 3,574 | 830 | 4,817 | 5,648 |
| 2001-2005 | 4,040 | 40 | 379 | 993 | 7,436 | 1,897 | 10,992 | 12,888 |
| 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 | 1,313 | 0 | 198 | 706 | 6,419 | 971 | 7,665 | 8,636 |
| 2009 | 3,227 | 0 | 233 | 1,337 | 8,085 | 2,210 | 10,672 | 12,882 |
| 2010 | 890 | 0 | 58 | 273 | 1,644 | 564 | 2,304 | 2,868 |
| 2011 | 757 | 0 | 220 | 1,654 | 3,800 | 2,069 | 4,362 | 6,431 |
| 2012 | 430 | 0 | 251 | 672 | 1,588 | 789 | 2,152 | 2,941 |
| 2013 | 1,028 | 0 | 331 | 451 | 2,504 | 990 | 3,324 | 4,314 |
| 2014 | 4,299 | 0 | 934 | 688 | 5,085 | 2,320 | 8,686 | 11,006 |
| $2015{ }^{\text {9/ }}$ | 444 | 0 | 274 | 668 | 4,570 | 876 | 5,080 | 5,956 |
| $2016^{9 /}$ | 2,462 | 0 | 144 | 772 | 2,116 | 1,669 | 3,825 | 5,494 |
| 2017 ${ }^{\text {g/ }}$ | 4,443 | 0 | 316 | 650 | 7,245 | 1,571 | 11,083 | 12,654 |
| GOAL | Hatchery Production |  |  |  |  |  |  |  |


| Year or Average | Terminal Catch ${ }^{\text {a }}$ |  |  | Escapement |  | Terminal Run Size |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ceremonial \& |  |  |  |  |  |  |  |
|  | Gillnet | Subsistence ${ }^{\text {b/ }}$ | River Sport ${ }^{\text {c/ }}$ | Natural ${ }^{\text {d/ }}$ | Hatchery ${ }^{\text {e/ }}$ | Natural ${ }^{\text {d/ }}$ | Hatchery ${ }^{\text {e/ }}$ | Total |
|  |  |  |  | ALL COHO |  |  |  |  |
| 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 |
| 1996-2000 ${ }^{\text {/ }}$ | 8,407 | 100 | 1,336 | 11,009 | 11,515 | 14,596 | 17,783 | 32,379 |
| 2001-2005 | 21,801 | 50 | $38^{\text {f/ }}$ | 4,623 | 2,645 | 5,021 | 2,791 | 7,812 |
| 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 | 15,722 | 10 | 511 | 6,947 | 12,098 | 12,979 | 22,309 | 35,288 |
| 2009 | 37,112 | 0 | 4,620 | 7,863 | 23,373 | 24,653 | 48,315 | 72,968 |
| 2010 | 27,127 | 10 | 3,537 | 9,837 | 23,325 | 23,901 | 39,935 | 63,836 |
| 2011 | 21,983 | 11 | 3,955 | 8,070 | 22,487 | 20,887 | 35,634 | 56,521 |
| 2012 | 11,051 | 1 | 1,317 | 5,846 | 2,276 | 15,421 | 5,070 | 20,490 |
| 2013 | 12,611 | 0 | 4,370 | 7,072 | 5,111 | 18,125 | 11,039 | 29,164 |
| 2014 | 27,427 | 0 | 5,736 | 7,425 | 12,389 | 23,528 | 29,449 | 52,977 |
| $2015{ }^{\text {g/ }}$ | 5,291 | 0 | 2,706 | 2,571 | 3,595 | 6,978 | 7,185 | 14,163 |
| $2016^{\text {g/ }}$ | 5,678 | 0 | 326 | 9,630 | 16,332 | 11,676 | 20,290 | 31,966 |
| $2017^{\text {g/ }}$ | 15,629 | 0 | 164 | 8,745 | 18,299 | 13,680 | 29,157 | 42,837 |
| GOAL |  |  |  | 300-15,8 |  |  |  |  |

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/ In 1997 river sport: Regulations required nonretention of coho.
g/ Preliminary.

| Year or Average | Terminal Catch |  |  | Escapement |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ceremonial \& |  |  |  |  | Terminal Run Size |  |  |
|  | Gillnet | Subsistence | River Sport ${ }^{\text {a/ }}$ | Natural ${ }^{\text {b/ }}$ | Supplemental | Natural ${ }^{\text {b/ }}$ | 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 | - | - | - | 212 | 451 | 212 | 451 | 663 |
| 2013 | - | - | - | 726 | 680 | 726 | 680 | 1,406 |
| 2014 | - | - | - | 1,531 | 229 | 1,531 | 229 | 1,760 |
| $2015^{\text {c/ }}$ | - | - | - | 1,500 | 1,377 | 1,500 | 1,377 | 2,877 |
| $2016{ }^{\text {c/ }}$ | - | - | - | 651 | 673 | 651 | 673 | 1,324 |
| $2017{ }^{\text {c/ }}$ | - | - | - | 913 | 275 | 913 | 275 | 1,188 |
| GOAL |  |  |  | $850^{\text {d/ }}$ | $200^{\text {e/ }}$ |  |  |  |

a/ River recreational catch of age-3 and older fish.
b/ Includes fish taken for hatchery brood stock and hatchery strays.
c/ Preliminary.
d/ Goal in terms of naturally spaw ning fish and includes supplementation production.
e/ Not an FMP goal.

| Average | Fishery | Chinook | Coho | Pink ${ }^{\text {b/ }}$ | Chum | Sockeye |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| 2001-2005 | Non-Indian | 11,100 | 26,008 | 258,211 | 852,710 | 92,830 |
|  | Treaty Indian | 94,113 | 340,391 | 214,297 | 725,349 | 194,046 |
|  | Total | 107,667 | 369,373 | 475,002 | 1,620,081 | 288,484 |
| $2006{ }^{\text {c/ }}$ | 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 |
| $2007{ }^{\text {c/ }}$ | 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 |
| $2008{ }^{\text {c/ }}$ | 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 |
| $2009{ }^{\text {c/ }}$ | 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 |
| $2010^{\text {c/ }}$ | 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 |


| Year or | Fishery | Chinook | Coho | Pink ${ }^{\text {b/ }}$ | Chum | Sockeye |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $2011^{\text {c/ }}$ | 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 |
| $2012^{\text {c/ }}$ | 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 |
| $2013{ }^{\text {c/ }}$ | Non-Indian | 9,189 | 29,577 | 3,193,644 | 909,250 | 6,999 |
|  | Treaty Indian | 104,479 | 298,503 | 2,703,304 | 818,691 | 31,063 |
|  | Total | 113,668 | 328,080 | 5,896,948 | 1,727,941 | 38,062 |
| $2014{ }^{\text {c/ }}$ | Non-Indian | 4,343 | 11,815 | 29 | 543,192 | 234,200 |
|  | Treaty Indian | 59,443 | 192,561 | 703 | 627,728 | 497,829 |
|  | Total | 63,786 | 204,376 | 732 | 1,170,920 | 732,029 |
| $2015{ }^{\text {c/ }}$ | Non-Indian | 3,367 | 4,777 | 398,670 | 559,632 | 16,906 |
|  | Treaty Indian | 65,736 | 47,263 | 580,679 | 619,225 | 56,055 |
|  | Total | 69,103 | 52,040 | 979,349 | 1,178,857 | 72,961 |
| $2016{ }^{\text {c/ }}$ | Non-Indian | 6,599 | 14,486 | - | 444,586 | - |
|  | Treaty Indian | 73,221 | 259,930 | 88 | 551,631 | 21,332 |
|  | Total | 79,820 | 274,416 | 88 | 996,217 | 21,332 |
| $2017{ }^{\text {c/ }}$ | Non-Indian | 12,065 | 11,763 | 17,852 | 713,535 | - |
|  | Treaty Indian | 136,014 | 191,726 | 124,249 | 705,241 | 17,804 |
|  | Total | 148,079 | 203,489 | 142,101 | 1,418,776 | 17,804 |

a/ Data do not reflect treaty Indian allocations. Includes U.S. and Canadian-origin salmon and fish caught in test fisheries.
b/ Odd-year averages for pink salmon.
c/ Preliminary.

| Year or Average | Chinook | Coho | Pink ${ }^{\text {b/ }}$ |
| :---: | :---: | :---: | :---: |
| 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 | 27,507 | 56,775 | 142,781 |
| 2012 | 41,632 | 169,884 | 5 |
| 2013 | 41,036 | 115,934 | 134,539 |
| 2014 | 32,358 | 124,185 | 52 |
| 2015 | 29,168 | 142,669 | 198,931 |
| $2016{ }^{\text {c/ }}$ | 30,195 | 4,983 | 10 |
| 2017 | 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 freshw ater 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.

| $\frac{\mathbb{N}}{\stackrel{N}{\mathrm{~N}}}$ | Year or | Commercial Net Catches |  |  | Spaw ning Escapement |  |  | Puget Sound Run Size ${ }^{\text {c/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average | Hatchery | Natural ${ }^{\text {b/ }}$ | Total | Hatchery | Natural ${ }^{\text {b/ }}$ | Total | Hatchery | Natural ${ }^{\text {b/ }}$ | Total |
|  | Strait of Juan de Fuca |  |  |  |  |  |  |  |  |  |
| N | 1981-1985 | 58 | 127 | 185 | 811 | 1,450 | 2,261 | 869 | 1,577 | 2,446 |
| $\bigcirc$ | 1986-1990 | 135 | 455 | 590 | 1,276 | 4,755 | 6,031 | 1,411 | 5,210 | 6,621 |
| $\checkmark$ | 1991-1995 | 70 | 110 | 179 | 979 | 2,390 | 3,369 | 1,048 | 2,500 | 3,548 |
| $\bigcirc$ | 1996-2000 | 9 | 16 | 25 | 1,193 | 2,236 | 3,429 | 1,201 | 2,252 | 3,454 |
| (1) | 2001-2005 | 6 | 11 | 17 | 1,448 | 2,606 | 4,055 | 1,454 | 2,618 | 4,071 |
| Ј | 2006-2010 | 7 | 14 | 21 | 991 | 1,743 | 2,734 | 997 | 1,757 | 2,755 |
| 0 | 2011 | 6 | 16 | 22 | 737 | 2,833 | 3,570 | 743 | 2,849 | 3,592 |
| 3 | 2012 | 8 | 11 | 19 | 1,158 | 2,095 | 3,253 | 1,166 | 2,107 | 3,272 |
| $\bigcirc$ | 2013 | 11 | 11 | 22 | 2,848 | 2,993 | 5,841 | 2,859 | 3,004 | 5,863 |
| $\frac{71}{6}$ | 2014 | 31 | 48 | 78 | 2,633 | 4,172 | 6,805 | 2,664 | 4,220 | 6,883 |
| $\stackrel{\rightharpoonup}{\text { a }}$ | 2015 | 28 | 44 | 72 | 2,805 | 4,474 | 7,279 | 2,833 | 4,518 | 7,351 |
| $\stackrel{\square}{\text { ® }}$ | 2016 | 2 | 4 | 6 | 1,901 | 2,593 | 4,494 | 1,903 | 2,597 | 4,500 |
| $\infty$ | 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
|  | GOAL |  |  |  |  |  | 5,300 |  |  |  |
|  | Nooksack-Samish |  |  |  |  |  |  |  |  |  |
|  | 1981-1985 | 54,062 | 33,672 | 87,734 | 16,083 | 6,562 | 22,645 | 70,145 | 40,234 | 110,379 |
| N | 1986-1990 | 38,059 | 26,262 | 64,320 | 10,729 | 4,113 | 14,841 | 48,787 | 30,374 | 79,161 |
| $\infty$ | 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 |
|  | 2006-2010 | 11,085 | 7,455 | 18,540 | 6,789 | 3,534 | 10,323 | 17,874 | 10,989 | 28,862 |
|  | 2011 | 21,054 | 3,336 | 24,390 | 8,506 | 378 | 8,884 | 29,560 | 3,714 | 33,274 |
|  | 2012 | 22,884 | 2,132 | 25,015 | 6,635 | 445 | 7,080 | 29,519 | 2,577 | 32,095 |
|  | 2013 | 18,570 | 3,418 | 21,987 | 8,816 | 621 | 9,437 | 27,386 | 4,038 | 31,424 |
|  | 2014 | 10,835 | 1,550 | 12,386 | 12,295 | 773 | 13,068 | 23,130 | 2,324 | 25,454 |
|  | 2015 | 7,928 | 3,594 | 11,522 | 6,049 | 571 | 6,620 | 13,977 | 4,165 | 18,143 |
|  | 2016 | 8,352 | 2,547 | 10,898 | 4,563 | 336 | 4,899 | 12,915 | 2,883 | 15,797 |
|  | 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
|  | GOAL |  |  |  | 1,800 |  |  |  |  |  |


| $\stackrel{1}{5}$ | Year or | Commercial Net Catches |  |  | Spaw ning Escapement |  |  | Puget Sound Run Size ${ }^{\text {c/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\sum$ | Average | Hatchery | Natural ${ }^{\text {b }}$ | Total | Hatchery | Natural ${ }^{\text {b/ }}$ | Total | Hatchery | Natural ${ }^{\text {b/ }}$ | Total |
| 은 | Skagit |  |  |  |  |  |  |  |  |  |
| N | 1981-1985 | 597 | 9,183 | 9,780 | 787 | 11,109 | 11,896 | 1,384 | 20,292 | 21,676 |
| $\checkmark$ | 1986-1990 | 251 | 4,039 | 4,290 | 815 | 12,398 | 13,213 | 1,066 | 16,437 | 17,503 |
| $\bigcirc$ | 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 |
| $\stackrel{3}{3}$ | 2001-2005 | 12 | 806 | 818 | 221 | 17,503 | 17,725 | 233 | 18,310 | 18,543 |
| $\infty$ | 2006-2010 | 40 | 2,696 | 2,737 | 210 | 11,742 | 11,952 | 250 | 14,438 | 14,688 |
| $\overline{3}$ | 2011 | 44 | 3,668 | 3,712 | 67 | 5,537 | 5,604 | 111 | 9,205 | 9,316 |
| $\bigcirc$ | 2012 | 12 | 1,940 | 1,952 | 82 | 13,817 | 13,899 | 94 | 15,757 | 15,851 |
| 7 | 2013 | 14 | 2,088 | 2,102 | 73 | 10,882 | 10,955 | 87 | 12,970 | 13,057 |
| $\stackrel{\text { ¢ }}{\square}$ | 2014 | 0 | 1,599 | 1,599 | 0 | 10,457 | 10,457 | 0 | 12,056 | 12,056 |
| $\stackrel{\text { ® }}{ }$ | 2015 | 0 | 1,452 | 1,452 | 0 | 13,314 | 13,314 | 0 | 14,766 | 14,766 |
| $\stackrel{\otimes}{\infty}$ | 2016 | 8 | 1,806 | 1,814 | 81 | 19,290 | 19,371 | 89 | 21,096 | 21,185 |
|  | 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
|  | GOAL |  |  |  |  | 14,900 |  |  |  |  |
| $\stackrel{N}{0}$ | Hood Canal |  |  |  |  |  |  |  |  |  |
|  | 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 |
|  | 2006-2010 | 19,023 | 713 | 19,737 | 15,206 | 1,267 | 16,473 | 34,229 | 1,981 | 36,210 |
|  | 2011 | 34,687 | 1,365 | 36,052 | 15,499 | 1,652 | 17,151 | 50,186 | 3,017 | 53,203 |
|  | 2012 | 58,321 | 1,753 | 60,075 | 28,256 | 2,000 | 30,256 | 86,577 | 3,753 | 90,331 |
|  | 2013 | 45,110 | 226 | 45,337 | 25,866 | 494 | 26,360 | 70,976 | 720 | 71,697 |
|  | 2014 | 15,820 | 183 | 16,003 | 8,921 | 253 | 9,174 | 24,741 | 436 | 25,177 |
|  | 2015 | 23,694 | 183 | 23,876 | 8,927 | 171 | 9,098 | 32,621 | 354 | 32,974 |
|  | 2016 | 38,880 | 139 | 39,018 | 24,212 | 330 | 24,542 | 63,091 | 469 | 63,560 |
|  | 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
|  | GOAL |  |  |  | 3,400 |  |  |  |  |  |


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; spaw ning escapement plus Puget Sound net fishery catch. Does not include fish caught by troll and recreational fisheries inside Puget Sound.

| Year or | Commercial Net Catches ${ }^{\text {c/ }}$ |  |  | Spaw ning Escapement |  |  | Terminal Run Size ${ }^{\text {c/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Average | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total |
| Strait of Juan de Fuca |  |  |  |  |  |  |  |  |  |
| 1981-1985 | 19,362 | 527 | 19,889 | 9,440 | 4,660 | 14,100 | 28,802 | 5,187 | 33,989 |
| 1986-1990 | 9,012 | 125 | 9,138 | 3,013 | 5,940 | 8,953 | 12,025 | 6,065 | 18,091 |
| 1991-1995 | 2,635 | 23 | 2,658 | 4,230 | 4,396 | 8,626 | 6,865 | 4,419 | 11,284 |
| 1996-2000 | 4,262 | 797 | 5,058 | 10,174 | 13,053 | 23,227 | 15,398 | 14,087 | 29,484 |
| 2001-2005 | 6,112 | 994 | 7,106 | 13,141 | 20,929 | 34,071 | 21,417 | 22,352 | 43,770 |
| 2006-2010 | 2,953 | 37 | 2,955 | 4,344 | 9,740 | 13,908 | 7,758 | 9,779 | 17,537 |
| 2011 | 5,524 | 45 | 5,523 | 11,057 | 10,732 | 21,181 | 18,726 | 10,777 | 29,503 |
| $2012^{\text {d/ }}$ | 5,294 | 56 | 5,293 | 7,945 | 11,021 | 18,928 | 14,132 | 11,077 | 25,209 |
| $2013{ }^{\text {d/ }}$ | 2,040 | 88 | 2,128 | 6,767 | 8,461 | 15,228 | 10,245 | 8,549 | 18,794 |
| $2014{ }^{\text {d/ }}$ | 3,201 | 4 | 3,205 | 3,688 | 11,002 | 14,690 | 7,353 | 11,006 | 18,359 |
| $2015{ }^{\text {d/ }}$ | 291 | 94 | 385 | 1,019 | 3,779 | 4,717 | 1,613 | 3,873 | 5,486 |
| $2016{ }^{\text {d/ }}$ | NA | NA | NA | 4,125 | 7,704 | 11,829 | NA | NA | NA |
| 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| GOAL 7,000-11,000 |  |  |  |  |  |  |  |  |  |
| Nooksack-Samish |  |  |  |  |  |  |  |  |  |
| 1981-1985 | 121,448 | 17,429 | 138,877 | 24,420 | 7,200 | 31,620 | 145,868 | 24,629 | 170,497 |
| 1986-1990 | 140,733 | 21,761 | 162,494 | 21,087 | 7,420 | 28,507 | 161,821 | 29,181 | 191,002 |
| 1991-1995 | 48,056 | 13,872 | 61,928 | 17,793 | 10,320 | 28,113 | 65,849 | 24,192 | 90,042 |
| 1996-2000 | 36,169 | 5,272 | 41,441 | 36,920 | 7,611 | 44,530 | 75,056 | 13,577 | 88,633 |
| 2001-2005 | 43,483 | 15,589 | 59,072 | 35,805 | 15,712 | 51,517 | 80,456 | 32,263 | 112,720 |
| 2006-2010 | 30,728 | 12,011 | 42,744 | 9,477 | 7,896 | 17,373 | 40,460 | 20,058 | 60,518 |
| 2011 | 63,289 | 5,534 | 68,822 | 14,645 | 2,228 | 16,873 | 78,507 | 7,783 | 86,290 |
| $2012^{\text {d/ }}$ | 48,249 | 11,568 | 59,819 | 14,974 | 9,600 | 24,574 | 63,421 | 21,177 | 84,598 |
| $2013{ }^{\text {d/ }}$ | 32,970 | 16,517 | 49,487 | 16,700 | 20,494 | 37,194 | 51,010 | 37,063 | 88,073 |
| $2014{ }^{\text {d/ }}$ | 9,380 | 1,352 | 10,732 | 18,845 | 5,530 | 24,375 | 28,803 | 6,899 | 35,702 |
| $2015^{\text {d/ }}$ | 14,416 | 467 | 14,883 | 24,485 | 1,384 | 25,869 | 39,097 | 1,853 | 40,950 |
| $2016{ }^{\text {d/ }}$ | NA | NA | NA | 14,942 | 7,213 | 22,155 | NA | NA | NA |
| 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| GOAL |  |  |  | 17,900 |  |  |  |  |  |


| Year or | Commercial Net Catches ${ }^{\text {c/ }}$ |  |  | Spaw ning Escapement |  |  | Terminal Run Size ${ }^{\text {c/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Average | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total |
| Skagit |  |  |  |  |  |  |  |  |  |
| 1981-1985 | 6,619 | 8,858 | 15,477 | 21,740 | 19,800 | 41,540 | 28,359 | 28,658 | 57,017 |
| 1986-1990 | 5,309 | 11,448 | 16,757 | 13,861 | 25,800 | 39,661 | 19,170 | 37,248 | 56,418 |
| 1991-1995 | 1,338 | 1,739 | 3,077 | 11,082 | 14,240 | 25,322 | 12,420 | 15,979 | 28,399 |
| 1996-2000 | 738 | 5,909 | 6,647 | 10,166 | 42,139 | 52,306 | 11,251 | 50,571 | 61,822 |
| 2001-2005 | 3,860 | 18,569 | 22,429 | 13,512 | 77,441 | 90,953 | 18,326 | 101,705 | 120,031 |
| 2006-2010 | 1,541 | 11,633 | 13,174 | 7,550 | 38,879 | 46,429 | 9,599 | 53,224 | 62,823 |
| 2011 | 3,977 | 17,635 | 21,612 | 9,035 | 44,111 | 53,146 | 14,199 | 67,546 | 81,745 |
| $2012^{\text {d/ }}$ | 2,104 | 17,835 | 19,939 | 10,469 | 92,687 | 103,156 | 13,299 | 118,175 | 131,474 |
| $2013{ }^{\text {d/ }}$ | 4,442 | 22,151 | 26,593 | 14,513 | 85,751 | 100,264 | 21,375 | 122,526 | 143,901 |
| $2014{ }^{\text {d/ }}$ | 2,096 | 12,117 | 14,213 | 7,916 | 24,820 | 32,736 | 11,546 | 42,652 | 54,198 |
| $2015{ }^{\text {d/ }}$ | 730 | 2,272 | 3,002 | 2,080 | 5,794 | 7,874 | 4,489 | 13,295 | 17,784 |
| $2016{ }^{\text {d/ }}$ | NA | NA | NA | 11,186 | 35,823 | 47,009 | NA | NA | NA |
| 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| GOAL | GOAL 14,875-25,000 |  |  |  |  |  |  |  |  |
| Hood Canal |  |  |  |  |  |  |  |  |  |
| 1981-1985 | 39,340 | 18,310 | 57,650 | 20,329 | 22,280 | 42,609 | 59,669 | 40,590 | 100,259 |
| 1986-1990 | 45,708 | 18,991 | 64,699 | 15,099 | 17,940 | 33,039 | 60,807 | 36,931 | 97,738 |
| 1991-1995 | 13,553 | 454 | 14,007 | 15,032 | 29,808 | 44,840 | 28,585 | 30,262 | 58,847 |
| 1996-2000 | 5,973 | 6,837 | 12,810 | 23,077 | 55,401 | 78,478 | 30,124 | 62,953 | 93,077 |
| 2001-2005 | 21,042 | 22,249 | 43,291 | 35,237 | 103,851 | 139,089 | 66,893 | 130,781 | 197,674 |
| 2006-2010 | 37,548 | 11,478 | 49,026 | 10,634 | 20,458 | 31,092 | 51,449 | 33,773 | 85,222 |
| 2011 | 58,757 | 15,735 | 74,492 | 20,586 | 24,389 | 44,975 | 87,151 | 43,073 | 130,224 |
| $2012^{\text {d }}$ | 63,078 | 28,341 | 91,419 | 16,900 | 45,921 | 62,821 | 87,481 | 77,843 | 165,324 |
| $2013{ }^{\text {d/ }}$ | 35,929 | 6,886 | 42,815 | 18,255 | 16,064 | 34,319 | 59,687 | 24,532 | 84,219 |
| $2014{ }^{\text {d/ }}$ | 8,020 | 16,181 | 24,201 | 7,036 | 26,776 | 33,812 | 16,690 | 44,828 | 61,518 |
| $2015{ }^{\text {de/ }}$ | 4,572 | 3,303 | 7,875 | 9,593 | 26,926 | 36,519 | 16,513 | 30,947 | 47,460 |
| $2016{ }^{\text {d/ }}$ | NA | NA | NA | 17,301 | 24,313 | 41,614 | NA | NA | NA |
| 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| GOAL |  |  |  |  | ,750-14,3 |  |  |  |  |


| Year or | Commercial Net Catches ${ }^{\text {c/ }}$ |  |  | Spaw ning Escapement |  |  | Terminal Run Size ${ }^{\text {c/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Average | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total |
| Stillaguamish |  |  |  |  |  |  |  |  |  |
| 1981-1985 | 1,923 | 11,014 | 12,937 | 1,080 | 13,200 | 14,280 | 3,003 | 24,214 | 27,217 |
| 1986-1990 | 0 | 18,931 | 18,931 | 0 | 15,600 | 15,600 | 0 | 34,531 | 34,531 |
| 1991-1995 | 28 | 3,012 | 3,040 | 108 | 13,720 | 13,828 | 136 | 16,732 | 16,868 |
| 1996-2000 | 4 | 1,210 | 1,214 | 34 | 16,537 | 16,571 | 45 | 18,790 | 18,835 |
| 2001-2005 | 10 | 3,996 | 4,006 | 71 | 47,628 | 47,699 | 85 | 53,446 | 53,531 |
| 2006-2010 | 8 | 2,365 | 2,373 | 61 | 19,514 | 19,575 | 74 | 23,279 | 23,353 |
| 2011 | 16 | 5,293 | 5,309 | 155 | 49,991 | 50,146 | 180 | 58,188 | 58,368 |
| $2012^{\text {d/ }}$ | 17 | 4,596 | 4,613 | 101 | 45,156 | 45,257 | 138 | 53,659 | 53,797 |
| $2013{ }^{\text {d/ }}$ | 57 | 7,881 | 7,938 | 0 | 60,387 | 60,387 | 80 | 73,386 | 73,466 |
| $2014{ }^{\text {d/ }}$ | 52 | 7,964 | 8,016 | 246 | 35,763 | 36,009 | 329 | 46,474 | 46,803 |
| $2015{ }^{\text {d/ }}$ | 1 | 511 | 512 | 5 | 2,909 | 2,914 | 9 | 4,850 | 4,859 |
| $2016{ }^{\text {d/ }}$ | NA | NA | NA | 115 | 12,933 | 13,048 | NA | NA | NA |
| 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| GOAL | 6,100-10,000 |  |  |  |  |  |  |  |  |
| Snohomish |  |  |  |  |  |  |  |  |  |
| 1981-1985 | 18,050 | 36,538 | 54,587 | 11,860 | 74,800 | 86,660 | 29,910 | 111,338 | 141,247 |
| 1986-1990 | 58,543 | 67,956 | 126,499 | 26,134 | 94,800 | 120,934 | 84,677 | 162,756 | 247,433 |
| 1991-1995 | 40,677 | 18,363 | 59,040 | 23,462 | 84,000 | 107,462 | 64,139 | 102,363 | 166,502 |
| 1996-2000 | 31,614 | 4,869 | 36,483 | 21,260 | 82,711 | 103,971 | 55,016 | 95,218 | 150,234 |
| 2001-2005 | 34,568 | 16,999 | 51,568 | 18,279 | 193,476 | 211,755 | 55,068 | 221,664 | 276,732 |
| 2006-2010 | 14,081 | 10,485 | 24,566 | 6,115 | 75,521 | 81,636 | 20,716 | 90,696 | 111,412 |
| 2011 | 8,217 | 7,909 | 16,126 | 7,686 | 111,374 | 119,060 | 16,618 | 129,231 | 145,849 |
| $2012^{\text {d/ }}$ | 42,956 | 8,584 | 51,540 | 13,354 | 130,637 | 143,991 | 58,738 | 153,568 | 212,306 |
| $2013{ }^{\text {d/ }}$ | 29,463 | 16,400 | 45,863 | 10,453 | 125,870 | 136,323 | 42,688 | 162,989 | 205,677 |
| $2014{ }^{\text {d/ }}$ | 28,639 | 10,069 | 38,708 | 13,483 | 46,244 | 59,727 | 45,163 | 61,910 | 107,073 |
| $2015{ }^{\text {d/ }}$ | 5,077 | 2,509 | 7,586 | 4,365 | 12,804 | 17,169 | 11,195 | 23,833 | 35,028 |
| $2016{ }^{\text {d/ }}$ | NA | NA | NA | 11,160 | 44,141 | 55,301 | NA | NA | NA |
| 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| GOAL | 31,000-50,000 |  |  |  |  |  |  |  |  |


| Year or Average | Commercial Net Catches ${ }^{\text {c/ }}$ |  |  | Spaw ning Escapement |  |  | Terminal Run Size ${ }^{\text {c/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total |
|  |  |  |  | Sou | et Soun |  |  |  |  |
| 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 | 57,648 | 29,324 | 86,972 | 73,685 | 28,337 | 102,022 | 140,763 | 62,893 | 203,656 |
| 2001-2005 | 119,234 | 40,241 | 159,475 | 114,492 | 33,690 | 148,182 | 250,219 | 81,366 | 331,585 |
| 2006-2010 | 74,897 | 19,429 | 94,326 | 47,236 | 20,632 | 67,869 | 131,276 | 46,340 | 177,616 |
| 2011 | 31,756 | 10,877 | 42,633 | 48,726 | 33,257 | 81,983 | 90,319 | 55,908 | 146,227 |
| $2012^{\text {d/ }}$ | 102,052 | 32,643 | 134,695 | 80,458 | 48,449 | 128,907 | 204,248 | 100,983 | 305,231 |
| $2013{ }^{\text {d/ }}$ | 70,927 | 13,901 | 84,828 | 70,505 | 24,149 | 94,654 | 160,089 | 57,841 | 217,930 |
| $2014{ }^{\text {d/ }}$ | 44,610 | 11,621 | 56,231 | 44,470 | 15,723 | 60,193 | 99,653 | 35,696 | 135,349 |
| $2015{ }^{\text {d/ }}$ | 7,742 | 3,499 | 11,241 | 18,324 | 13,858 | 32,182 | 35,412 | 27,276 | 62,688 |
| $2016{ }^{\text {d/ }}$ | NA | NA | NA | 100,781 | 36,836 | 137,617 | NA | NA | NA |
| 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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 and secondary wild stocks.
O c/ Terminal run size is defined as the run to terminal marine areas; spaw ning escapement plus sport and commercial net catch (inriver and terminal fishery catch). Prior to 1997, estimates are Puget Sound run size, which is defined as the run available to Puget Sound net fisheries; spaw ning 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.
e/ 2015 Hood Canal terminal run size is defined as the run to terminal marine areas; spaw ning escapement plus sport and commercial net catch (inriver and terminal fishery catch). Prior to 1997, estimates are Puget Sound run size, which is defined as the run available to Puget Sound net fisheries; spaw ning escapement plus commercial net catch (inriver, terminal, and pre-terminal Puget Sound net fishery catch), including fish caught in Puget Sound troll and recreational fisheries.

| $\begin{aligned} & \text { गo } \\ & \stackrel{\infty}{\infty} . \\ & \stackrel{N}{\Sigma} \end{aligned}$ | Average | Commercial Net Catches |  |  | Spaw ning Escapement |  |  | Puget Sound Run Size ${ }^{\text {c/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (odd year) | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total |
| O | Strait of Juan de Fuca |  |  |  |  |  |  |  |  |  |
| N | 1981-1989 | 1 | 506 | 507 | 9 | 5,175 | 5,185 | 10 | 5,681 | 5,691 |
| $\checkmark$ | 1991-1999 | 2 | 427 | 429 | 34 | 6,421 | 6,455 | 36 | 6,848 | 6,884 |
| $\bigcirc$ | 2001 | 4 | 718 | 722 | 470 | 80,950 | 81,420 | 474 | 81,668 | 82,142 |
| (1) | 2003 | 0 | 346 | 346 | 0 | 15,149 | 15,149 | 0 | 15,495 | 15,495 |
| 5 | 2005 | 0 | 103 | 103 | 0 | 8,669 | 8,669 | 0 | 8,772 | 8,772 |
| 0 | 2007 | 0 | 131 | 131 | 0 | 6,252 | 6,252 | 0 | 6,383 | 6,383 |
| 亏 | 2009 | 0 | 2,684 | 2,684 | 0 | 41,534 | 41,534 | 0 | 44,218 | 44,218 |
| $\bigcirc$ | 2011 | 0 | 2,013 | 2,013 | 0 | 27,616 | 27,616 | 0 | 29,629 | 29,629 |
| $\cdots$ | 2013 | 8 | 20,597 | 20,605 | 157 | 409,959 | 410,116 | 165 | 430,556 | 430,721 |
| $\stackrel{\text { ® }}{ }$ | 2015 | 0 | 18,485 | 18,485 | 0 | 337,724 | 337,724 | 0 | 356,209 | 356,209 |
| $\stackrel{\text { ® }}{ }$ | 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
|  | GOAL ${ }^{\text {d/ }}$ | Not Agreed Upon |  |  |  |  |  |  |  |  |
| NG | Nooksack-Samish |  |  |  |  |  |  |  |  |  |
|  | 1981-1989 | 49 | 14,395 | 14,444 | 240 | 55,477 | 55,717 | 289 | 69,872 | 70,161 |
|  | 1991-1999 | 3 | 9,596 | 9,599 | 89 | 80,220 | 80,309 | 92 | 89,816 | 89,907 |
|  | 2001 | 215 | 14,584 | 14,799 | 3,714 | 226,001 | 229,715 | 3,929 | 240,585 | 244,514 |
|  | 2003 | 304 | 3,177 | 3,481 | 7,264 | 51,012 | 58,276 | 7,568 | 54,189 | 61,757 |
|  | 2005 | 589 | 2,095 | 2,684 | 1,791 | 3,719 | 5,510 | 2,380 | 5,814 | 8,194 |
|  | 2007 | 15 | 1,006 | 1,021 | 276 | 9,302 | 9,578 | 291 | 10,308 | 10,599 |
|  | 2009 | 248 | 6,229 | 6,477 | 2,097 | 45,120 | 47,217 | 2,345 | 51,349 | 53,694 |
|  | 2011 | 49 | 12,483 | 12,532 | 285 | 53,852 | 54,137 | 334 | 66,335 | 66,669 |
|  | 2013 | 61 | 103,864 | 103,925 | 284 | 224,002 | 224,286 | 345 | 327,866 | 328,211 |
|  | 2015 | 25 | 88,620 | 88,645 | 90 | 247,358 | 247,448 | 115 | 335,978 | 336,093 |
|  | 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
|  | GOAL ${ }^{\text {d }}$ |  |  |  |  | 50,000 |  |  |  |  |

TABLE B-43. Puget Sound commercial net fishery catches and spaw ning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks. ${ }^{\text {a/ }}$ (Page 2 of 3)

| Average (odd-year) | Commercial Net Catches |  |  | Spaw ning Escapement |  |  | Puget Sound Run Size ${ }^{\text {c/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total |
| Skagit |  |  |  |  |  |  |  |  |  |
| 1981-1989 | 320 | 316,797 | 317,117 | 393 | 455,052 | 455,445 | 713 | 771,849 | 772,563 |
| 1991-1999 | 0 | 247,377 | 247,377 | 0 | 423,600 | 423,600 | 0 | 670,977 | 670,977 |
| 2001 | 0 | 305,081 | 305,081 | 0 | 894,061 | 894,061 | 0 | 1,199,142 | 1,199,142 |
| 2003 | 0 | 309,851 | 309,851 | 0 | 567,080 | 567,080 | 0 | 876,931 | 876,931 |
| 2005 | 0 | 25,191 | 25,191 | 0 | 60,000 | 60,000 | 0 | 85,191 | 85,191 |
| 2007 | 0 | 14,723 | 14,723 | 0 | 300,000 | 300,000 | 0 | 314,723 | 314,723 |
| 2009 | 0 | 478,121 | 478,121 | 0 | 1,160,000 | 1,160,000 | 0 | 1,638,121 | 1,638,121 |
| 2011 | 0 | 470,769 | 470,769 | 0 | 560,000 | 560,000 | 0 | 1,030,769 | 1,030,769 |
| 2013 | 0 | 720,639 | 720,639 | 0 | 900,000 | 900,000 | 0 | 1,620,639 | 1,620,639 |
| 2015 | 0 | 121,662 | 121,662 | 0 | 290,000 | 290,000 | 0 | 411,662 | 411,662 |
| 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| GOAL ${ }^{\text {d }}$ | 330,000 |  |  |  |  |  |  |  |  |
| Hood Canal |  |  |  |  |  |  |  |  |  |
| 1981-1989 | 2,252 | 9,737 | 11,990 | 2,814 | 43,809 | 46,623 | 5,067 | 53,546 | 58,613 |
| 1991-1999 | 1,245 | 4,086 | 5,331 | 13,719 | 41,287 | 55,005 | 14,964 | 45,373 | 60,336 |
| 2001 | 4,401 | 5,956 | 10,357 | 71,539 | 98,338 | 169,877 | 75,940 | 104,294 | 180,234 |
| 2003 | 2,060 | 3,272 | 5,332 | 25,217 | 37,531 | 62,748 | 27,277 | 40,803 | 68,080 |
| 2005 | 401 | 691 | 1,092 | 14,107 | 17,481 | 31,588 | 14,508 | 18,172 | 32,680 |
| 2007 | 261 | 1,722 | 1,983 | 4,406 | 29,001 | 33,407 | 4,667 | 30,723 | 35,390 |
| 2009 | 3,552 | 893 | 4,445 | 22,455 | 11,093 | 33,548 | 26,007 | 11,986 | 37,993 |
| 2011 | 5,441 | 1,375 | 6,816 | 17,792 | 15,122 | 32,914 | 23,233 | 16,497 | 39,730 |
| 2013 | 2,159 | 12,379 | 14,538 | 4,904 | 195,601 | 200,505 | 7,063 | 207,980 | 215,043 |
| 2015 | 650 | 43,983 | 44,633 | 5,948 | 595,679 | 601,627 | 6,598 | 639,662 | 646,260 |
| 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| GOAL ${ }^{\text {d/ }}$ |  |  |  |  | greed Upon |  |  |  |  |

TABLE B-43. Puget Sound commercial net fishery catches and spaw ning escapements in numbers of fish for hatchery and natural Puget Sound pink stocks. ${ }^{\text {a/ }}$

| Average (odd-year) | Commercial Net Catches |  |  | Spaw ning Escapement |  |  | Puget Sound Run Size ${ }^{\text {c/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total | Hatchery ${ }^{\text {b/ }}$ | Natural | Total |
| Stillaguamish-Snohomish |  |  |  |  |  |  |  |  |  |
| 1981-1989 | 76 | 154,523 | 154,599 | 201 | 271,328 | 271,529 | 277 | 425,851 | 426,128 |
| 1991-1999 | 39 | 71,102 | 71,141 | 122 | 286,650 | 286,772 | 160 | 357,752 | 357,913 |
| 2001 | 0 | 199,908 | 199,908 | 0 | 1,847,648 | 1,847,648 | 0 | 2,047,556 | 2,047,556 |
| 2003 | 0 | 288,985 | 288,985 | 0 | 1,577,001 | 1,577,001 | 0 | 1,865,986 | 1,865,986 |
| 2005 | 0 | 66,615 | 66,615 | 0 | 600,124 | 600,124 | 0 | 666,739 | 666,739 |
| 2007 | 0 | 132,876 | 132,876 | 0 | 1,383,591 | 1,383,591 | 0 | 1,516,467 | 1,516,467 |
| 2009 | 0 | 849,860 | 849,860 | 0 | 2,882,373 | 2,882,373 | 0 | 3,732,233 | 3,732,233 |
| 2011 | 0 | 627,735 | 627,735 | 0 | 612,903 | 612,903 | 0 | 1,240,638 | 1,240,638 |
| 2013 | 0 | 1,281,642 | 1,281,642 | 0 | 2,153,569 | 2,153,569 | 0 | 3,435,211 | 3,435,211 |
| 2015 | 0 | 212,357 | 212,357 | 0 | 480,674 | 480,674 | 0 | 693,031 | 693,031 |
| 2017 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| GOAL $^{\text {d/ }}$ - Stillaguamish |  |  |  |  | 155,000 |  |  |  |  |
| $\underline{\text { GOAL }^{\text {d/ }} \text { - Snohomish }}$ |  |  |  |  | 120,000 |  |  |  |  |
| South Puget Sound |  |  |  |  |  |  |  |  |  |
| 1981-1989 | 650 | 17,149 | 17,800 | 282 | 32,803 | 33,085 | 932 | 49,952 | 50,884 |
| 1991-1999 ${ }^{\text {/ }}$ | 88 | 3,850 | 3,938 | 90 | 10,483 | 10,573 | 178 | 14,332 | 14,510 |
| $2001{ }^{\text {e/f/ }}$ | 0 | 3,128 | 3,128 | 0 | 26,692 | 26,692 | 0 | 29,820 | 29,820 |
| $2003{ }^{\text {e/f/ }}$ | 0 | 30,795 | 30,795 | 0 | 391,702 | 391,702 | 0 | 422,497 | 422,497 |
| $2005{ }^{\text {e/f/ }}$ | 0 | 55,263 | 55,263 | 0 | 1,087,906 | 1,087,906 | 0 | 1,143,169 | 1,143,169 |
| $2007{ }^{\text {e/f/ }}$ | 0 | 84,180 | 84,180 | 0 | 1,218,896 | 1,218,896 | 0 | 1,303,076 | 1,303,076 |
| 2009 ${ }^{\text {e/f/ }}$ | 0 | 695,324 | 695,324 | 0 | 4,091,283 | 4,091,283 | 0 | 4,786,607 | 4,786,607 |
| 2011 ${ }^{\text {// }}$ | 0 | 500,308 | 500,308 | 0 | 2,422,575 | 2,422,575 | 0 | 2,922,883 | 2,922,883 |
| $2013{ }^{\text {f/ }}$ | 40 | 546,139 | 546,179 | 6 | 2,172,795 | 2,172,801 | 46 | 2,718,934 | 2,718,980 |
| 2015 ${ }^{\text {/ }}$ | 66 | 285,504 | 285,570 | 115 | 941,673 | 941,788 | 181 | 1,227,177 | 1,227,358 |
| 2017 ${ }^{\text {/ }}$ | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| $\mathrm{GOAL}^{\text {d/ }}$ |  |  |  |  | 25,000 |  |  |  |  |

a/ Includes treaty Indian and non-Indian net commercial catches during the adult accounting period. Source: Puget Sound run reconstruction model.
b/ Includes estimated off-station returns.
c/ Puget Sound run size is defined as the run available to Puget Sound fisheries; spaw ning escapement plus Puget Sound fishery catch. Includes fish caught by treaty net fisheries and non-Indian commercial and recreational fisheries inside Puget Sound.
d/ State-Tribal comanager goal; the only Council goal is for a total Puget Sound pink salmon spaw ning escapement of 900,000 natural spaw ners.
e/ Nisqually escapement estimate incomplete.
f / Green river returns included in run reconstruction.

|  | Stock |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Skagit |  | NF Nooksack |  | SF Nooksack Hatchery/ Natural | White River Hatchery ${ }^{\text {c/ }}$ | Quilcene Hatchery ${ }^{d /}$ |
|  | Year or Average | Hatchery ${ }^{\text {a }}$ | Natural | Hatchery ${ }^{\text {a/ }}$ | Natural ${ }^{\text {b/ }}$ |  |  |  |
| N | 1981-1985 | 49 | 1,408 | 0 | 152 | 317 | 70 | 149 |
| $\stackrel{\bigcirc}{-}$ | 1986-1990 | 161 | 1,826 | 0 | 235 | 280 | 408 | 125 |
| $\bigcirc$ | 1991-1995 | 815 | 907 | 770 | 266 | 222 | 1,065 | 19 |
| \% | 1996-2000 | 1,448 | 934 | 2,011 | 717 | 240 | 2,009 | 7 |
| $\stackrel{\text { ¹ }}{ }$ | 2001-2005 | 2,028 | 1,317 | 4,226 | 2,510 | 403 | 2,763 | 0 |
| $\infty$ | 2006 | 1,487 | 1,896 | 732 | 1,184 | 515 | 3,864 | 0 |
| $\overline{3}$ | 2007 | 1,931 | 613 | 665 | 1,438 | 323 | 8,006 | 0 |
| 익 | 2008 | 1,462 | 1,470 | 1,194 | 1,266 | 443 | 3,585 | 0 |
| T! | 2009 | 900 | 978 | 812 | 1,903 | 453 | 2,342 | 0 |
| $\stackrel{\square}{\square}$ | 2010 | 1,371 | 1,361 | 1,279 | 2,048 | 548 | 2,070 | 0 |
| $\stackrel{\text { ® }}{\text { ¢ }}$ | 2011 | 1,301 | 825 | 1,404 | 865 | 470 | 3,155 | 0 |
| $\infty$ | 2012 | 1,579 | 2,774 | 1,215 | 758 | 508 | 3,812 | 0 |
|  | 2013 | 1,256 | 2,010 | 2,297 | 1,346 | 243 | 6,540 | 0 |
|  | 2014 | 1,109 | 1,608 | 1,998 | 1,398 | 208 | 2,131 | 0 |
|  | 2015 ${ }^{\text {/ }}$ | 1,836 | 1,409 | 2,994 | 1,717 | 135 | 2,896 | 0 |
|  | $2016{ }^{\text {e/ }}$ | 2,441 | 2,445 | 1,806 | NA | NA | 6,588 | 0 |
| $\infty$ | $2017{ }^{\text {e/ }}$ | 3,325 | NA | NA | NA | NA | 9,990 | 0 |
|  | GOAL |  | 2,000 |  |  |  |  |  |

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 spaw ners are hatchery fish spaw ning in the wild.
c/ Estimate includes adult returns to Hupp Springs, White R. Hatchery, and Buckley Trap. Data from 1999-2017 w ere updated using new "agreed-to" methodology for estimating unsampled portions of Spring Chinook back to Buckley Trap with Fall/Unknow n origin fish removed from the estimate.
d/ Program has been discontinued.
e/ Preliminary.

## APPENDIX C

HISTORICAL RECORD OF OCEAN SALMON FISHERY REGULATIONS AND A CHRONOLOGY OF 2017 EVENTS

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

| Year | Area | Seasons |  | Number of Days |  | Minimum Size Limit (in.) |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All-Salmon-Except-Coho | All <br> Salmon | All-Salmon-Except-Coho | All <br> Salmon |  |  |  |
|  |  |  |  |  |  | Chinook | Coho |  |
| 2013 | 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 |
|  |  | June 1-8, 21-30 | - | 18 | - | 27 | - | south of Horse Mt. w henever KMZ quota |
|  |  | July 15-Aug. 29 | - | 46 | - | 27 | - | fishery is open during May through Sept. |
|  |  | Sept. 1-30 | - | 30 | - | 27 | - | All fish caught in the area must be landed north of Pt. Arena during Sept. |
|  | Pt. Arena to U.S./Mexico Border | May 1-31 | - | 31 | - | 27 | - |  |
|  |  | June 1-8, 21-30 | - | 18 | - | 27 | - |  |
|  |  | July 15-Aug. 29 | - | 46 | - | 27 | - |  |
|  |  | Sept. 1-30 | - | 30 | - | 26 | - | All fish caught in the area must be landed south of Pt. Arena during Sept. |
|  | Pt. Reyes to Pt. San Pedro | Oct. 1-4, 7-11, 14-15 | - | 11 | - | 26 | - | All fish must be landed betw een Pt. Arena and Pigeon Pt. during Oct. |
| 2014 | OR/CA Border to Humboldt South Jetty | $\begin{gathered} \text { Sept. } 12-16,19-23, \\ 26-30 \end{gathered}$ | - | 15 | - | 27 | - | 4,000 Chinook quota; 20 Chinook per vessel per day landing limit through Sept. 16, 30 Chinook thereafter. |
|  | Horse Mt. to Pt. Arena | June 19-30 | - | 12 | - | 27 | - |  |
|  |  | July 15-Aug. 29 | - | 46 | - | 27 | - |  |
|  |  | Sept. 1-30 | - | 30 | - | 27 | - | All fish caught in the area must be landed north of Pt. Arena during Sept. When the KMZ fishery is open, all fish must be landed south of Horse Mt. |
|  | Pt. Arena to Pigeon Pt. | May 1-June 30 | - | 61 | - | 27 | - |  |
|  |  | July 15-Aug. 29 | - | 46 | - | 27 | - |  |
|  |  | Sept. 1-30 | - | 30 | - | 26 | - | All fish caught in the area must be landed south of Pt. Arena during Sept. |
|  | Pt. Reyes to Pt. San Pedro | Oct. 1-3, 6-10, 13-15 | - | 11 | - | 26 | - | All fish must be landed betw een Pt. Arena and Pigeon Pt. during Oct. |
|  | Pigeon Pt. to U.S./Mexico Border | May 1-June 30 | - | 61 | - | 27 | - |  |
|  |  | July 15-Aug. 13 | - | 30 | - | 27 | - |  |

TABLE C-1. Summary of actual California commercial salmon seasons in state and Federal (EEZ) w aters. ${ }^{\mathrm{a} /}$ (Page 2 of 3 )

| 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 |  |
| 2015 | OR/CA Border to Humboldt South Jetty | Sept. 11-15, 18-30 | - | 18 | - | 28 | - | 3,000 Chinook quota; 20 Chinook per vessel per day landing limit. |
|  | Horse Mt. to Pt. Arena | May 1-31 | - | 31 | - | 27 | - |  |
|  |  | June 15-30 | - | 16 | - | 27 | - |  |
|  |  | July 12-Aug. 26 | - | 46 | - | 27 | - |  |
|  |  | Sept. 1-30 | - | 30 | - | 27 | - | All fish caught in the area must be landed north of Pt. Arena during Sept. When the KMZ fishery is open, all fish must be landed south of Horse Mt. |
|  | Pt. Arena to Pigeon Pt. | May 1-31 | - | 31 | - | 27 | - |  |
|  |  | June 7-30 | - | 24 | - | 27 | - |  |
|  |  | July 8-Aug. 29 | - | 53 | - | 27 | - |  |
|  |  | Sept. 1-30 | - | 30 | - | 26 | - | All fish caught in the area must be landed south of Pt. Arena during Sept. |
|  | Pt. Reyes to Pt. San Pedro | Oct. 1-2, 5-9, 12-15 | - | 11 | - | 26 | - | All fish must be landed betw een Pt. Arena and Pigeon Pt. during Oct. |
|  | Pigeon Pt. to Pt. Sur | May 1-31 | - | 31 | - | 27 | - |  |
|  |  | June 7-30 | - | 24 | - | 27 | - |  |
|  |  | July 8-Aug. 15 | - | 39 | - | 27 | - |  |
|  | Pt. Sur to U.S./Mexico Border | May 1-31 | - | 31 | - | 27 | - |  |
|  |  | June 7-30 | - | 24 | - | 27 | - |  |
|  |  | July 8-31 | - | 24 | - | 27 | - |  |
| 2016 | OR/CA Border to Humboldt South Jetty | $\begin{gathered} \text { Sept. 9-13, 16-20, } \\ 23-27 \end{gathered}$ | - | 15 | - | 28 | - | 1,000 Chinook quota; 20 Chinook per vessel per day landing limit. |
|  | Horse Mt. to Pt. Arena | June 13-30 | - | 18 | - | 27 | - |  |
|  |  | Aug. 3-27 | - | 25 | - | 27 | - |  |
|  |  | Sept. 1-30 | - | 30 | - | 27 | - | All fish caught in the area must be landed north of Pt. Arena during Sept. When the KMZ fishery is open, all fish must be landed south of Horse Mt. |
|  | Pt. Arena to Pigeon Pt. | May 6-31 | - | 26 | - | 27 | - |  |
|  |  | June 13-30 | - | 18 | - | 27 | - |  |
|  |  | Aug. 3-28 | - | 26 | - | 27 | - |  |
|  |  | Sept. 1-30 | - | 30 | - | 26 | - | All fish caught in the area must be landed south of Pt. Arena during Sept. |
|  | Pt. Reyes to Pt. San Pedro | Oct. 3-7, 10-14 | - | 10 | - | 26 | - | All fish must be landed betw een Pt. Arena and Pigeon Pt. during Oct. |
|  | Pigeon Pt. to U.S./Mexico Border | May 1-June 30 | - | 61 | - | 27 | - |  |

Pt. Reyes to Pt. San Pedro
Oct. 2-6, 9-13
May 1-June 30
$2017^{\text {b/ }}$ OR/CA Border to Humboldt South Jetty
Closed

Horse Mt. to Pt. Arena
Sept. 1-5, 8-12, 15-19,
22-26, 29-30

Pt. Arena to Pigeon Pt.
Aug. 1-29
Sept. 1-30

Pigeon Pt. to U.S./Mexico Border

TABLE C-1. Summary of actual California commercial salmon seasons in state and Federal (EEZ) w aters. ${ }^{\text {a/ }}$ (Page 3 of 3 )

|  | Seasons |  | Number of Days |  | Minimum Size Limit (in.) |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All-Salmon- | All | All-Salmon- | All |  |  |  |
| Year Area | Except-Coho | Salmon | Except-Coho | Salmon | Chinook | Coho |  |

26
27
3,000 Chinook quota; 60 Chinook per vessel per open period landing limit. All fish caught in the area must be landed betw een the OR/CA border and Pt. Arena

All fish caught in the area must be landed south of Pt. Arena during Sept., unless the Fort Bragg commercial quota has been met and that fishery has closed for at least 24 hours.
All fish must be landed betw een Pt. Arena and Pigeon Pt. during Oct.
a/ For earlier years, see Review of 2013 Ocean Salmon Fisheries, Appendix C, Table C-1.
b/ For detailed regulations and inseason adjustments, see Tables I-1 and C-9.

TABLE C-2. Summary of actual California recreational ocean salmon regulations ${ }^{\text {a/ }}$ (Page 1 of 2)

| Year | Area | Season | Minimum Size Limit (in.) |  |  |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Days | Bag Limit | Chinook | Coho |  |
| 2011 | 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 | - |  |
| 2012 | 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 | - |  |
|  | Pt. Arena to Pigeon Pt. | Apr. 7-July 5 | 90 | 2 | 24 | - |  |
|  |  | July 6-Nov. 11 | 129 | 2 | 20 | - |  |
|  | Pigeon Pt. to U.S./Mexico Border | Apr. 7-July 5 | 90 | 2 | 24 | - |  |
|  |  | July 6-Oct. 7 | 94 | 2 | 20 | - |  |
| 2013 | 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 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 June 1 through July 9. |
| 2014 | OR/CA Border to Horse Mt. | May 10-Sept. 7 | 121 | 2 | 24 | - |  |
|  | Horse Mt. to Pt. Arena | Apr. 5-Nov. 9 | 219 | 2 | 20 | - |  |
|  | Pt. Arena to Pigeon Pt. | Apr. 5-June 30 | 87 | 2 | 24 | - |  |
|  |  | July 1-Nov. 9 | 132 | 2 | 20 | - |  |
|  | Pigeon Pt. to U.S./Mexico Border | Apr. 5-Oct. 5 | 184 | 2 | 24 | - |  |
| 2015 | OR/CA Border to Horse Mt. | May 1-Sept. 7 | 130 | 2 | 20 | - |  |
|  | Horse Mt. to Pt. Arena | Apr. 4-Nov. 8 | 219 | 2 | 20 | - |  |
|  | Pt. Arena to Pigeon Pt. | Apr. 4-30 | 27 | 2 | 24 | - |  |
|  |  | May 1-Oct. 31 | 184 | 2 | 20 | - |  |
|  | Pigeon Pt. to Pt. Sur | Apr. 4-May 31 | 58 | 2 | 24 | - |  |
|  |  | June 1-Sept. 7 | 99 | 2 | 20 | - |  |
|  | Pt. Sur to U.S./Mexico Border | Apr. 4-May 31 | 58 | 2 | 24 | - |  |
|  |  | June 1-July 19 | 49 | 2 | 20 | - |  |

TABLEC-2. Summary of actual California recreational ocean salmon regulations. ${ }^{a}$ (Page 2 of 2)

| $\frac{\text { Year }}{2016}$ |  | Minimum Size Limit (in.) |  |  |  |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Area | Season | Days | Bag Limit | Chinook | Coho |  |
|  | OR/CA Border to Horse Mt. | May 16-31 | 16 | 2 | 20 | - |  |
|  |  | June 16-30 | 15 | 2 | 20 | - |  |
|  |  | July 16-Aug. 16 | 32 | 2 | 20 | - |  |
|  |  | Sept. 1-5 | 5 | 2 | 20 | - |  |
|  | Horse Mt. to Pt. Arena | Apr. 2-Nov. 13 | 226 | 2 | 20 | - |  |
|  | Pt. Arena to Pigeon Pt. | Apr. 2-30 | 29 | 2 | 24 | - |  |
|  |  | May 1-Oct. 31 | 184 | 2 | 20 | - |  |
|  | Pigeon Pt. to Pt. Sur | Apr. 2-July 15 | 105 | 2 | 24 | - |  |
|  | Pt. Sur to U.S./Mexico Border | Apr. 2-May 31 | 60 | 2 | 24 | - |  |
| $2017{ }^{\text {b/ }}$ | OR/CA Border to Horse Mt. | Closed | - | - | - | - |  |
|  | Horse Mt. to Pt. Arena | Apr. 1-May 31 | 61 | 2 | 20 | - |  |
|  |  | Aug. 15-Nov. 12 | 90 | 2 | 20 | - |  |
|  | Pt. Arena to Pigeon Pt. | Apr. 1-30 | 30 | 2 | 24 | - |  |
|  |  | May 15-Oct. 31 | 170 | 2 | 20 | - |  |
|  | Pigeon Pt. to Pt. Sur | Apr. 1-July 15 | 106 | 2 | 24 | - |  |
|  | Pt. Sur to U.S./Mexico Border | Apr. 1-May 31 | 61 | 2 | 24 | - |  |

a/ For earlier years, see Review of 2013 Ocean Salmon Fisheries, Appendix C, Table C-2
b/ For detailed regulations and inseason adjustments, see Tables $1-3$ and $C-9$.

TABLE C-3. Summary of actual Oregon commercial salmon seasons in state and federal (EEZ) waters. ${ }^{a}$ (Page 1 of 6 )

| 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 | WA/OR Border to Cape Falcon | May 1-June 30 |  | - | 61 | 28 | - | Seven days per w eek, no landing limits. |
|  |  | - | July 1-9 | - | 9 | 28 | 16 | 50 Chinook and 40 marked coho per vessel per open period. |
|  |  | - | July 12-16, July 1923, July 26-30, Aug. 2-6 | - | 20 | 28 | 16 | 100 Chinook and 40 marked coho per vessel per open period. |
|  |  | - | Aug. 9-13, <br> Aug. 16-20 | - | 10 | 28 | 16 | 150 Chinook and 80 marked coho per vessel per open period |
|  |  | - | Aug. 30-Sept. 3 | - | 5 | 28 | 16 | 35 Chinook and 40 marked coho per vessel per open period. |
|  |  | - | Sept. 6-10, <br> Sept. 13-17 | - | 10 | 28 | 16 | 75 Chinook and 50 marked coho per vessel per open period. |
|  | 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. (Ek River Area) | Nov. 1-30 | - | - | 30 | 26 | - | Inside of a line from Cape Blanco to Black Rock to <br>  Humbug Mt. 20 Chinook per day vessel limit. Landings restricted to Port Orford. |
|  | Humbug Mt. to OR/CA Border | Apr. 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. |
|  | Tw in 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 reports. |

TABLEC-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters. ${ }^{\text {al }}$ (Page 2 of 6 )

| Year | Area | Seasons |  |  |  Minimum <br> Number of Size Limit (in.) |  |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All-Salmon-Except-Coho | All Salmon | All-Salmon-Except-Chin. |  |  |  |  |
|  |  |  |  |  | Days | Chinook | Coho |  |
| 2014 | WA/OR Border to Cape Falcon | May 1-20 | - | - | 20 | 28 | - | Seven days per w eek, no landing limits. |
|  |  | May 23-27 | - | - | 5 | 28 | - | 60 Chinook per vessel per open period. |
|  |  | May 30-June 3 | - | - | 5 | 28 | - | 50 Chinook per vessel per open period. |
|  |  | June 6-10 | - | - | 5 | 28 | - | 40 Chinook per vessel per open period. |
|  |  | June 13-17, 20-24, 27-30 | - | - | 14 | 28 | - | 20 Chinook per vessel per open period. |
|  |  | - | July 1-8 | - | 8 | 28 | 16 | 60 Chinook and 60 marked coho per vessel per open period. |
|  |  | - | $\begin{gathered} \text { July } 11-15,18-22, \\ 25-29 \end{gathered}$ | - | 15 | 28 | 16 | 35 Chinook and 60 marked coho per vessel per open period. |
|  |  | - | Aug. 1-5 | - | 5 | 28 | 16 | 50 Chinook and 80 marked coho per vessel per open period. |
|  |  | - | Aug. 8-12, 15-19 | - | 10 | 28 | 16 | 75 Chinook and 150 marked coho per vessel per open period. |
|  |  | - | Aug. 22-26 | - | 5 | 28 | 16 | 35 Chinook and 150 marked coho per vessel per open period. |
|  |  | - | Aug. 29-Sept. 2 | - | 5 | 28 | 16 | 20 Chinook and 150 marked coho per vessel per open period. |
|  |  | - | Sept. 5-9 | - | 5 | 28 | 16 | 15 Chinook and 100 coho (non-mark-selective) per vessel per open period. |
|  |  | - | Sept. 12-16 | - | 5 | 28 | 16 | 15 Chinook and 200 coho (non-mark-selective) per vessel per open period. |
|  | Cape Falcon to Humbug Mt. | Apr. 1-July 31, Aug. 6-29 | - | - | 146 | 28 | - |  |
|  |  | - | Sept. 3-30 | - | 28 | 28 | 16 | Non-mark-selective coho quota of 6,300. 65 Chinook and one coho for each Chinook landed up to 20 coho per vessel per landing w eek (Wed.-Tues.). |
|  |  | Oct. 1-31 | - | - | 31 | 28 |  | 65 Chinook per vessel per landing week (Wed.Tues.) |
|  | Cape Blanco to Humbug Mt. (Ek River Area) | Nov. 1-30 | - | - | 30 | 26 | - | Inside of a line from Cape Blanco to Black Rock to Best Rock to $42^{\circ} 40^{\prime} 30$ " N Lat. $124^{\circ}{ }^{29} 9^{\prime} 00^{\prime \prime}$ W Long. to Humbug Mt. 20 Chinook per day vessel limit. Landings restricted to Port Orford. |

TABLEC-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) w aters. ${ }^{\text {al }}$ (Page 3 of 6)

| Year | Area | Seasons |  |  | Number of Days | Minimum Size Limit (in.) |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All-Salmon- <br> Except-Coho | All Salmon | All-Salmon-Except-Chin. |  |  |  |  |
|  |  |  |  |  |  | Chinook | Coho |  |
| 2014 | Humbug Mt. to OR/CA Border | Apr. 1-May 31 | - | - | 61 | 28 | - | Landings restricted to the State of Oregon. |
|  |  | June 15-18 | - | - | 4 | 28 | - | 1,500 quota; 30 Chinook per day vessel limit. |
|  |  |  |  |  |  |  |  | Landings restricted to the area or Port Orford; mandatory phone or email trip reports. |
|  |  | July 1-2 | - | - | 2 | 28 | - | 574 quota; 15 Chinook per day vessel limit. Landings restricted to the area or Port Orford; mandatory phone or email trip reports. |
|  |  | Aug. 6-7, 13-15, 20-21, 2728 | - | - | 9 | 28 | - | 580 quota; 15 Chinook per day vessel limit. Landings restricted to the area or Port Orford; mandatory phone or email trip reports. |
|  |  | Sept. 12-27 | - | - | 16 | 28 | - | 500 quota; 20 Chinook per day vessel limit. Landings restricted to the area or Port Orford; mandatory phone or email trip reports. |
|  | Tw in Rocks to OR/CA Border Inside 3 nm (Chetco River Area) | Oct. 12-31 | - | - | 20 | 28 | - | 600 Chinook quota; 20 Chinook per day per vessel landing limit; landings restricted to Brookings; mandatory phone or email trip reports. |

TABLEC-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters. ${ }^{\text {a }}$ (Page 4 of 6 )

| Year | Area | Seasons |  |  | Number of Days | Minimum Size Limit (in.) |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All-Salmon-Except-Coho | All Salmon | All-Salmon-Except-Chin. |  |  |  |  |
|  |  |  |  |  |  | Chinook | Coho |  |
| 2015 | WA/OR Border to Cape Falcon | May 1-29 | - | - | 29 | 28 | - | Seven days per w eek, no landing limits. |
|  |  | June 5-9, 12-16 | - | - | 10 | 28 | - | 40 Chinook per vessel per open period. |
|  |  | June 19-23 | - | - | 5 | 28 | - | 80 Chinook per vessel per open period. |
|  |  | - | July 1-7 | - | 7 | 28 | 16 | 50 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | July 10-14, 17-21, 24-28, July 31Aug.4, Aug 7-11 | - | 25 | 28 | 16 | 75 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Aug. 14-18 | - | 5 | 28 | 16 | 50 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Aug. 21-25 | - | 5 | 28 | 16 | 40 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Aug. 28-Sept. 1 | - | 5 | 28 | 16 | 35 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Sept. 4-8, 11-15 | - | 10 | 28 | 16 | 40 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Sept. 18-22 | - | 5 | 28 | 16 | 40 Chinook and 80 coho (non-mark-selective) per open period vessel limit. |
|  | Cape Falcon to Humbug Mt. | Apr. 1-Aug. 27 | - | - | 149 | 28 | - |  |
|  |  | Sept. 2-30 | - | - | 29 | 28 | - | 60 Chinook per vessel per landing w eek (Thurs.Wed.). |
|  | Tw in Rocks to Pyramid Rock Inside 3 nm (Tillamook Area) | Oct. 1-31 | - | - | 31 | 28 | - | 20 Chinook per day vessel limit. Landings restricted to Garibaldi. |
|  | Cape Blanco to Humbug Mt. (Ek River Area) | Oct. 15-Nov. 30 | - | - | 47 | 26 | - | Inside of a line from Cape Blanco to Black Rock to Best Rock to $42^{\circ} 40^{\prime} 30$ " N Lat. 124응́ㅇ́" W Long. to Humbug Mt. 20 Chinook per day vessel limit. Landings restricted to Port Orford. |
|  | Humbug Mt. to OR/CA Border | Apr. 1-May 31 | - | - | 61 | 28 | - | Landings restricted to the State of Oregon. |
|  |  | June 1-26 | - | - | 26 | 28 | - | 1,800 quota; 30 Chinook per day vessel limit. Landings restricted to the area or Port Orford. |
|  |  | July 1-2, 5-31 | - | - | 29 | 28 | - | 1,184 quota; 15 Chinook per day vessel limit July 1 2, 25 therafter. Landings restricted to the area or Port Orford. |
|  |  | Aug. 1-27 | - | - | 27 | 28 | - | 772 quota; 25 Chinook per day vessel limit. Landings restricted to the area or Port Orford. |
|  | Tw in Rocks to OR/CA Border Inside 3 nm (Chetco River Area) | $\begin{gathered} \text { Oct. 12-17, 21, 23-24, } \\ 27-31 \end{gathered}$ | - | - | 14 | 28 | - | 600 quota; 20 Chinook per day per vessel landing limit through Oct. 17, 10 Chinook thereafter; landings restricted to Brookings. |

TABLEC-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) waters. ${ }^{\text {a/ }}$ (Page 5 of 6)

| Year | Area | Seasons |  |  | Number of Days | MinimumSize Limit (in.) |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All-Salmon-Except-Coho | All Salmon | All-Salmon-Except-Chin. |  |  |  |  |
|  |  |  |  |  |  | Chinook | Coho |  |
| 2016 | WA/OR Border to Cape Falcon | May 1-3, 6-31 | - | - | 23 | 28 | - | 5 days per w eek, Fri.-Tues. 40 Chinook per vessel per open period. |
|  |  | June 3-5 | - | - | 3 | 28 | - | 40 Chinook per vessel per open period. |
|  |  | June 10-16 | - | - | 7 | 28 | - | 65 Chinook per vessel per open period. |
|  |  | June 24-30 | - | - | 7 | 28 | - | 40 Chinook per vessel per open period. |
|  |  | July 8-14 | - | - | 7 | 28 | - | 80 Chinook per vessel per open period. |
|  |  | July 22-28 | - | - | 7 | 28 | - | 150 Chinook per vessel per open period. |
|  |  | Aug. 1-7 | - | - | 7 | 28 | - | 225 Chinook per vessel per open period. |
|  |  | Aug. 15-23 | - | - | 9 | 28 | - | 300 Chinook per vessel per open period. |
|  | Cape Falcon to Humbug Mt. | Apr. 8-May 31 | - | - | 54 | 28 | - |  |
|  |  | June 5-10, 15-30 | - | - | 22 | 28 | - |  |
|  |  | July 8-31 | - | - | 24 | 28 | - |  |
|  |  | Aug. 8-12, 18-24 | - | - | 12 | 28 | - |  |
|  |  | $\begin{aligned} & \text { Sept. 1-7, 15-30, } \\ & \text { Oct. 1-31 } \end{aligned}$ | - | - | 54 | 28 | - | 45 Chinook per vessel per landing w eek (Thurs.Wed.) and only open shorew ard of the 40 fathom regulatory line in October. |
|  | Cape Blanco to Humbug Mt. (Ek River Area) | Nov. 1-30 | - | - | 30 | 26 |  | Inside of a line from Cape Blanco to Black Rock to Best Rock to $42^{\circ} 40^{\prime} 30^{\prime \prime}$ N Lat. $124^{\circ} 29^{\prime} 00^{\prime \prime}$ W Long. to Humbug Mt. 20 Chinook per day vessel limit. Landings restricted to Port Orford. |
|  | Humbug Mt. to OR/CA Border (Oregon KMZ) | Apr. 8-30 | - | - | 23 | 28 | - |  |
|  |  | May 1-31 | - | - | 31 | 28 | - |  |
|  |  | June 5-10, 15-30 | - | - | 22 | 28 | - | 720 Chinook quota; 15 Chinook per day per vessel landing limit. |
|  |  | July 8-31 | - | - | 24 | 28 | - | 594 Chinook quota; 15 Chinook per day per vessel landing limit. |
|  | Tw in Rocks to OR/CA Border Inside 3 nm (Chetco River Area) | Oct. 10-31 | - | - | 22 | 28 |  | 300 Chinook quota; 5 Chinook per day per vessel landing limit through Oct. 25, 10 thereafter; landings restricted to Brookings. |

TABLEC-3. Summary of actual Oregon commercial salmon seasons in state and Federal (EEZ) w aters. ${ }^{a}$ (Page 6 of 6 )

| Year | Area | Seasons |  |  | Number of Days | MinimumSize Limit (in.) |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All-Salmon-Except-Coho | All Salmon | All-Salmon-Except-Chin. |  |  |  |  |
|  |  |  |  |  |  | Chinook | Coho |  |
| $2017{ }^{\text {b/ }}$ | WA/OR Border to Cape Falcon | May 1-June 30 |  |  | 61 | 28 |  | 27,000 Chinook quota (capped at 9,000 south of Leadbetter Point). |
|  |  |  | July 1-4 | - | 4 | 28 | 16 |  |
|  |  | - | July 7-18, July 21-Sept. 19 | - | 71 | 28 | 16 | 5 days per w eek, Fri. -Tues. through July 18; 7 days a w eek thereafter. Landing and possession limits: 75 Chinook and 10 marked coho per vessel per open period through July 19, then 150 Chinook and 10 marked coho thereafter. |
|  | Cape Falcon to Florence South Jetty | Apr. 15-May 31 |  | - | 47 | 28 |  |  |
|  |  | June 7-12, 15-30 | - | - | 22 | 28 | - |  |
|  |  | July 8-31 | - | - | 24 | 28 | - |  |
|  |  | Sept. 1-Oct. 31 | - | - | 61 | 28 | - | 45 Chinook per vessel per landing week (Thurs. Wed.) and only open shorew ard of the 40 fathom regulatory line. |
|  | Florence South Jetty to Humbug Mt. | Closed | - | - | - | - | - |  |
|  | Cape Blanco to Humbug Mt. (Ek River Area) | Oct. 15-Nov. 30 | - | - | 47 | 26 | - | Inside of a line from Cape Blanco to Black Rock to Best Rock to $42^{\circ} 40^{\prime} 30^{\prime \prime}$ N Lat. $124^{\circ} 29^{\prime} 00{ }^{\prime \prime}$ W Long. to Humbug Mit. 20 Chinook per day vessel limit. Landings restricted to Port Orford. |
|  | Humbug Mt. to OR/CA Border (Oregon KMZ) | Closed | - | - | - | - | - |  |
|  | Tw in Rocks to OR/CA Border Inside 3 nm (Chetco River Area) | Oct. 9-13, 16-17, 26-27 | - | - | 9 | 28 | - | 300 Chinook quota; 5 Chinook per day per vessel landing limit; landings restricted to Brookings. |

b/ For detailed regulations and inseason adjustments, see Tables $1-1$ and $\mathrm{C}-3$.

|  |  |  | Minimum Size Limit (in.) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Area | Season | Days | Bag Limit | Chinook | Coho ${ }^{\text {b/ }}$ | Other Restrictions ${ }^{\text {c/ }}$ |
| 2013 | 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 | June 22-Aug. 22 | 62 | 2 | 24 | 16 | Seven days per w eek; no more than one Chinook. |
|  | Chinook guideline south of | Aug. 23-Aug. 31 | 9 | 2 | 24 | 16 | Seven days per w eek. |
|  | Leadbetter Pt. WA | Sept 1-30 | 30 | 2 | 24 | 16 | Seven days per w eek, non-mark-selective coho fishery w ith 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 $42^{\circ} 40^{\prime} 30$ " N. Lat. $124^{\circ} 29^{\prime} 00^{\prime \prime}$ W. Long. to Humbug Mt. <br> (Ek 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 w ith July Cape Falcon to Humbug Mt. fishery. |
|  | Tw in 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. |

TABLEC-4. Summary of actual Oregon recreational ocean salmon regulations. ${ }^{\text {a/ }}$ (Page 2 of 5)

| Year | Area | Season | Minimum Size Limit (in.) |  |  |  | Other Restrictions ${ }^{\text {c/ }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Days | Bag Limit | Chinook | Coho ${ }^{\text {b/ }}$ |  |
| 2014 | WA/OR Border to Cape Falcon | May 31-June 13 | 14 | 2 | 24 | - | 9,000 marked Chinook quota Cape Falcon, OR to U.S. Canada Border. |
|  | 92,400 coho quota and 13,100 | June 14-Sept. 5 | 84 | 2 | 24 | 16 | Seven Days per w eek; no more than one Chinook. |
|  | Chinook guideline south of Leadbetter Pt. WA | Sept. 6-21 | 16 | 2 | 24 | 16 | Seven days per w eek, non-mark-selective coho fishery with remaining quota converted to an impact neutral quota of 13,100 . |
|  | Cape Falcon to Humbug Mt. | Mar. 15-June 20, <br> Aug. 11-29, Sept. 20-Oct. 31 | 159 | 2 | 24 | - | All salmon except coho. |
|  |  | June 21-Aug. 10 | 51 | 2 | 24 | 16 | All salmon; 80,000 marked coho quota. |
|  |  | Aug. 30-Sept. 19 | 21 | 2 | 24 | 16 | All salmon; 35,000 non-mark-selective coho quota (includes rollover from mark-selective coho quota). |
|  | Cape Blanco to Humbug Mt.: Inside a line from Cape Blanco to Black Rock to Best Rock to $42^{\circ} 40^{\prime} 30^{\prime \prime}$ N. Lat. 124응잉 W. Long. to Humbug Mt. (Ek River Area) | Nov. 1-30 | 30 | 2 | 24 | - | Tw o Chinook daily, one of which can be unmarked; no more than 10 unmarked per season in aggregate with Ek R., Sixes R., and Floras Ck./New R. |
|  | Humbug Mt. to OR/CA Border | May 10-June 20 , Aug. 11-Sept. 7 | 70 | 2 | 24 | - | All salmon except coho. |
|  |  | June 21-Aug. 10 | 51 | 2 | 24 | 16 | All salmon, shared quota with June 21-Aug. 10 Cape Falcon to Humbug Mt. fishery. |
|  | Tw in Rocks to OR/CA Border Inside 3 nm (Chetco River Area) | Oct. 1-12 | 12 | 2 | 24 | - | Tw o Chinook daily, one of which can be unmarked; no more than five unmarked per season. |

TABLEC-4. Summary of actual Oregon recreational ocean salmon regulations. ${ }^{\text {a/ }}$ (Page 3 of 5)

| Year | Area | Season | Minimum Size Limit (in.) |  |  |  | Other Restrictions ${ }^{\text {c/ }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Days | Bag Limit | Chinook | Coho ${ }^{\text {b/ }}$ |  |
| 2015 | WA/OR Border to Cape Falcon | May 30-June 12 | 14 | 2 | 24 | - | 10,000 marked Chinook quota Cape Falcon, OR to U.S. Canada Border. |
|  | 79,400 coho quota and 15,225 Chinook guideline south of Leadbetter Pt. WA | June 13-Sept. 3 | 83 | 2 | 24 | 16 | Seven days per w eek. All salmon; two fish per day, no more than one Chinook June 13-Aug. 28. |
|  |  | Sept. 4-30 | 27 | 2 | 24 | 16 | Seven days per week. All salmon; unmarked coho retention allow ed. Remaining coho quota converted to impact neutral quota of 15,300 . |
|  | Cape Falcon to Humbug Mt. | Mar. 15-June 26, Aug. 10Sept. 3, Oct. 1-31 | 159 | 2 | 24 | - | All salmon except coho. |
|  |  | June 27-Aug. 9 | 44 | 2 | 24 | 16 | All salmon; 55,000 marked coho quota shared with June 27-Aug. 9 Humbug Mt. to OR/CA Border fishery. |
|  |  | Sept. 4-30 | 27 | 2 | 24 | 16 | All salmon; 20,700 non-mark-selective coho quota (includes rollover from mark-selective coho quota). |
|  | Cape Blanco to Humbug Mt.: Inside a line from Cape Blanco to Black Rock to Best Rock to <br>  Long. to Humbug Mt. (Ek River Area) | Nov. 1-30 | 30 | 2 | 24 | - | Tw o Chinook daily, one of which can be unmarked; no more than 10 unmarked per season in aggregate with Ek R., Sixes R., and Floras Ck./New R. |
|  | Humbug Mt. to OR/CA Border | May 1-June 26 , Aug. 10-Sept. 7 | 86 | 2 | 24 | - | All salmon except coho. |
|  |  | June 27-Aug. 9 | 44 | 2 | 24 | 16 | All salmon, shared quota w ith June 27-Aug. 9 Cape Falcon to Humbug Mt. fishery. |
|  | Tw in Rocks to OR/CA Border Inside 3 nm (Chetco River Area) | Oct. 1-11 | 11 | 2 | 24 | - | Tw o Chinook daily, one of which can be unmarked; no more than five unmarked per season. |

TABLEC-4. Summary of actual Oregon recreational ocean salmon regulations. ${ }^{\text {a/ }}$ (Page 4 of 5)

| Year | Area | Season | Minimum Size Limit (in.) |  |  |  | Other Restrictions ${ }^{\text {c/ }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Days | Bag Limit | Chinook | Coho ${ }^{\text {b/ }}$ |  |
| 2016 | WA/OR Border to Cape Falcon | July 1-Aug. 27 | 58 | 2 | 24 | 16 | All salmon. 10,200 Chinook guideline and 18,900 marked coho quotafrom Leadbetter Point, WA to Cape Falcon. No more than 1 Chinook through Aug. 15. |
|  | Cape Falcon to Humbug Mt. | Mar. 15-June 24, Aug. 8Sept. 2, Oct. 1-31 | 159 | 2 | 24 | - | All salmon except coho. |
|  |  | June 25-Aug. 7 | 44 | 2 | 24 | 16 | All salmon; 26,000 marked coho quota shared with June 25-Aug. 7 Humbug Mt. to OR/CA Border fishery. |
|  |  | Sept. 3-30 | 28 | 2 | 24 | 16 | All salmon; 7,500 non-mark-selective coho quota. |
|  | Cape Blanco to Humbug Mt.: Inside a line from Cape Blanco to Black Rock to Best Rock to | Nov. 1-30 | 30 | 2 | 24 | - | Tw o Chinook daily, one of which can be unmarked; no more than 10 unmarked per season in aggregate with Ek R., Sixes R., Floras Ck. and New R. |

Long. to Humbug Mt.
(Ek River Area)

| Humbug Mt. to OR/CA Border | May 28-June 24, Sept. 3-5 | 31 | 2 | 24 | - | All salmon except coho. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June 25-Aug. 7 | 44 | 2 | 24 | 16 | All salmon. Shared 26,000 marked coho quota w ith Cape Falcon to Humbug Mt. fishery. |
| Tw in Rocks to OR/CA Border Inside 3 nm (Chetco River Area) | Oct. 1-3, 8-9 | 5 | 2 | 24 | - | Tw o Chinook daily, one of which can be unmarked. |

TABLEC-4. Summary of actual Oregon recreational ocean salmon regulations. ${ }^{\text {a/ }}$ (Page 5 of 5)

| Year | Area | Season | Days | Bag Limit | Minimum Size Limit (in.) |  | Other Restrictions ${ }^{\text {c/ }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Chinook | Coho ${ }^{\text {b/ }}$ |  |
| $2017{ }^{\text {d/ }}$ | WA/OR Border to Cape Falcon | June 24-Aug. 22 | 60 | 2 | 24 | 16 | All salmon. 13,200 Chinook guideline and 22,527 marked coho quota from Leadbetter Point, WA to Cape Falcon. No more than 1 Chinook. |
|  | Cape Falcon to Humbug Mt. | Mar. 15-June 23, Aug. 1-Sept. 1, Sept. 8-Oct. 31 | 186 | 2 | 24 | - | All salmon except coho. |
|  |  | June 24-July 31 | 38 | 2 | 24 | 16 | All salmon; 18,000 marked coho quota. |
|  |  | Sept. 2-7 | 6 | 2 | 24 | 16 | All salmon; 7,900 non-mark-selective coho quota. |
|  | Cape Blanco to Humbug Mt.: Inside a line from Cape Blanco to Black Rock to Best Rock to <br>  Long. to Humbug Mt. <br> (Ek River Area) | Nov. 1-30 | 30 | 2 | 24 | - | Tw o Chinook daily, one of which can be unmarked; no more than 10 unmarked per season in aggregate with Ek R., Sixes R., Floras Ck. and New R. |
|  | Humbug Mt. to OR/CA Border | Closed | - | - | - | - |  |
|  | Tw in Rocks to OR/CA Border Inside 3 nm (Chetco River Area) | Oct. 7-8, 14-15 | 4 | 1 | 28 | - | One Chinook daily. |

[^7]b/ Mark-selective coho fishery unless otherw ise noted; all retained coho must be marked with a healed adipose fin clip.
c/ All seasons are seven days per w eek unless otherw ise indicated.
$\mathrm{d} /$ For detailed regulations and inseason adjustments, see Tables $1-3$ and C-9.

TABLE C-5. Summary of actual Washington commercial salmon seasons in state and federal (EEZ) waters. ${ }^{a /}$ (Page 1 of 5)

| Year | Area | Seasons |  | Number of Days |  | Minimum |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All-Salmon-Except-Coho | All Salmon | All-Salmon-Except-Coho | All Salmon | Size Limit (in.) |  |  |
|  |  |  |  |  |  | Chinook | Coho |  |
| 2013 | U.S./Canada Border to | Areas 1 \& 2 | - | 61 | - | 28 | - | Seven days per w eek, no landing limits. |
|  | WA/OR Border | May 1-June 30 |  |  |  |  |  |  |
|  |  | Areas 3 \& 4 | - | 24 | - | 28 | - | Seven days per w eek |
|  |  | May 1-20, 24-28 |  |  |  |  |  | 28 Chinook vessel limit May 24-28. |
|  |  | - | Areas 1 \& 2 |  |  |  |  |  |
|  |  |  | 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 <br> Areas 3 \& 4 | - | 10 | 28 | 16 | 75 Chinook and 50 marked coho per open period vessel limit. |
|  |  |  | July 1-9, 12-16, 19- | - | 19 | 28 | 16 | 50 Chinook and 40 marked coho per open period vessel limit. |
|  |  | - | 23 |  |  |  |  |  |
|  |  | - | July 26-30, Aug. 2- $6,9-13$ | - | 15 | 28 | 16 | 40 Chinook and 40 marked coho per open period vessel limit. |
| 2014 | U.S./Canada Border to | Areas 1 \& 2 |  |  |  |  |  |  |
|  | WA/OR Border | May 1-20 | - | 20 | - | 28 | - | Seven days per w eek, no landing limits. |
|  |  | May 23-27 | - | 5 | - | 28 | - | 60 Chinook per vessel per open period. |
|  |  | May 30-June 3 | - | 5 | - | 28 | - | 50 Chinook per vessel per open period. |
|  |  | June 6-10 | - | 5 | - | 28 | - | 40 Chinook per vessel per open period. |
|  |  | June 13-17, 20-24, 27-30 | - | 14 | - | 28 | - | 20 Chinook per vessel per open period. |
|  |  | Areas 3 \& 4 |  |  |  |  |  |  |
|  |  | May 1-8 | - | 8 | - | 28 | - | Seven days per w eek, no landing limits. |
|  |  | May 10-13, 16-20 | - | 9 | - | 28 | - | 50 Chinook per vessel per open period. |
|  |  | May 23-27, May 30-June 3 | - | 10 | - | 28 | - | 40 Chinook per vessel per open period. |
|  |  | June 6-10 | - | 5 | - | 28 | - | 30 Chinook per vessel per open period. |
|  |  | June 13-17, 20-24, 27-30 | - | 14 | - | 28 | - | 20 Chinook per vessel per open period. |

TABLE C-5. Summary of actual Washington commercial salmon seasons in state and federal (EEZ) w aters. ${ }^{\text {a/ }}$ (Page 2 of 5)


TABLE C-5. Summary of actual Washington commercial salmon seasons in state and federal (EEZ) w aters. ${ }^{\text {a/ }}$ (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 |  |  |
| 2015 | U.S./Canada Border to | Area 1 |  |  |  |  |  |  |
|  | WA/OR Border | May 1-29 | - | 29 | - | 28 | - | Seven days per w eek, no landing limits. |
|  |  | June 5-9, 12-16 | - | 10 | - | 28 | - | 40 Chinook per vessel per open period. |
|  |  | June 19-23 Area 2 | - | 5 | - | 28 | - | 80 Chinook per vessel per open period. |
|  |  | May 1-June 25 Area 3 | - | 56 | - | 28 | - | Seven days per w eek, no landing limits. |
|  |  | May 1-June 30 |  |  |  |  |  |  |
|  |  | May 1-16 <br> Area 4 | - | 16 | - | 28 | - | Seven days per w eek, no landing limits. |
|  |  | May 1-16 | - | 16 | - | 28 | - | 60 Chinook per vessel per open period. |
|  |  | May 22-26 | - | 5 | - | 28 | - | 15 Chinook per vessel per open period. |
|  |  | May 29-June 23 | - | 20 | - | 28 | - | 20 Chinook per vessel per open period. |
|  |  | June 26-27 | - | 2 | - | 28 | - | 12 Chinook per vessel per open period. |
|  |  | - | Areas 1 \& 2 <br> July 1-7 | - | 7 | 28 | 16 | 50 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | July 10-14, 17-21, 24-28, July 31Aug.4, Aug 7-11. | - | 25 | 28 | 16 | 75 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Aug. 14-18 | - | 5 | 28 | 16 | 50 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Aug. 21-25 | - | 5 | 28 | 16 | 40 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Aug. 28-Sept. 1 | - | 5 | 28 | 16 | 35 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Sept. 4-8, 11-15 | - | 10 | 28 | 16 | 40 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Sept. 18-22 | - | 5 | 28 | 16 | 40 Chinook and 80 coho (non-mark-selective) per open period vessel limit. |
|  |  | - | Areas 3 \& 4 July 1-7 | - | 7 | 28 | 16 | 50 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | July 10-14, 17-21, 24-28, July 31Aug.4, Aug 7-11 | - | 30 | 28 | 16 | 60 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Aug. 14-18 | - | 5 | 28 | 16 | 50 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Aug. 21-25 | - | 5 | 28 | 16 | 40 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Aug. 28-Sept. 1 | - | 5 | 28 | 16 | 35 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Sept. 4-8, 11-15 | - | 10 | 28 | 16 | 40 Chinook and 50 marked coho per open period vessel limit. |
|  |  | - | Sept. 18-22 | - | 5 | 28 | 16 | 40 Chinook and 80 non-mark-selective coho per open period vessel limit |

TABLEC-5. Summary of actual Washington commercial salmon seasons in state and federal (EEZ) w aters. ${ }^{\text {a/ }}$ (Page 4 of 5)


| 2016 | U.S./Canada Border to | Areas 1\&2 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | WA/OR Border | May 1-3 | - | 3 | - | 28 | - | 40 Chinook per vessel per open period. |
|  |  | May 6-31 | - | 20 | - | 28 | - | 5 days per wk. 40 Chinook per vessel per open period. |
|  |  | June 3-5 | - | 3 | - | 28 | - | 40 Chinook per vessel per open period. |
|  |  | June 10-16 | - | 7 | - | 28 | - | 65 Chinook per vessel per open period. |
|  |  | June 24-30 | - | 7 | - | 28 |  | 40 Chinook per vessel per open period. |
|  |  | July 8-14 | - | 7 | - | 28 | - | 80 Chinook per vessel per open period. |
|  |  | July 22-28 | - | 7 | - | 28 | - | 125 Chinook per vessel per open period. |
|  |  | Aug. 1-7 | - | 7 | - | 28 | - | 225 Chinook per vessel per open period. |
|  |  | Aug. 15-23 | - | 9 | - | 28 | - | 300 Chinook per vessel per open period. |
|  |  | Area 3 |  |  |  |  |  |  |
|  |  | May 1-3 | - | 3 | - | 28 | - | 40 Chinook per vessel per open period. |
|  |  | May 6-31 | - | 20 | - | 28 | - | 5 days per wk. 40 Chinook per vessel per open period. |
|  |  | June 3-5 | - | 3 | - | 28 | - | 40 Chinook per vessel per open period. |
|  |  | July 8-14 | - | 7 | - | 28 | - | 60 Chinook per vessel per open period. |
|  |  | July 22-28 | - | 7 | - | 28 | - | 150 Chinook per vessel per open period. |
|  |  | Aug. 1-7 | - | 7 | - | 28 | - | 225 Chinook per vessel per open period. |
|  |  | Aug. 15-23 | - | 9 | - | 28 | - | 300 Chinook per vessel per open period. |


| Area 4 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| May 1-3 | - | 3 | - | 28 |
| May 6-31 | - | 20 | - | 28 |
| June 3-5 | - | 7 | - | 28 |
| June 10-16 | - | 7 | - | 28 |
| June 24-30 | - | 7 | - | 28 |
| July 8-14 | - | 7 | - | 28 |
| July 22-28 | - | 7 | - | 28 |
| Aug. 1-7 | - | - | 28 |  |
| Aug. 15-23 | - | 9 | - | 28 |

40 Chinook per vessel per open period.
5 days per $w k .40$ Chinook per vessel per open period.
40 Chinook per vessel per open period.
15 Chinook per vessel per open period
14 Chinook per vessel per open period. 60 Chinook per vessel per open period. 150 Chinook per vessel per open period. 225 Chinook per vessel per open period. 300 Chinook per vessel per open period.

TABLE C-5. Summary of actual Washington commercial salmon seasons in state and federal (EEZ) w aters. ${ }^{\text {a/ }}$ (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 |  |
| $2017{ }^{\text {b/ }}$ | U.S./Canada Border to | Areas 1 \& 2 |  |  |  |  |  |  |
|  | WA/OR Border | May 1-June 30 | - | 61 | - | 28 | - |  |
|  |  | - | July 1-4 | - | 4 | 28 | 16 | 75 Chinook and 10 marked coho per vessel per open period. |
|  |  | - | July 7-20 | - | 10 | 28 | 16 | 75 Chinook and 10 marked coho per vessel per open period ( 5 days per wk. Fri-Tues). |
|  |  | - | July 21-Sept. 19 | - | 61 | 28 | 16 | 150 Chinook and 10 marked coho per vessel per calendar w eek. |
|  |  | Areas 3 \& 4 |  |  |  |  |  |  |
|  |  | May 1-June 20 | - | 51 | - | 28 | - | 60 Chinook per vessel per open period. |
|  |  | June 21-30 | - | 10 | - | 28 | - |  |
|  |  | - | July 1-4 | - | 4 | 28 | 16 | 60 Chinook and 10 marked coho per vessel per open period. |
|  |  | - | July 7-20 | - | 10 | 28 | 16 | 60 Chinook and 10 marked coho marked per vessel per open period ( 5 days per wk. Fri-Tues). |
|  |  | - | July 21-Aug. 20 | - | 31 | 28 | 16 | 75 Chinook and 10 marked coho per vessel per open period (5 days per wk. Fri-Tues). |
|  |  | - | Aug. 21- Sept. 19 | - | 30 | 28 | 16 | 100 Chinook and 10 marked coho per vessel per calendar w eek. |

a/ For earlier years see Review of 2013 Ocean Salmon Fisheries, Appendix C, Table C-5.
b/ For detailed regulations and inseason adjustments, see Tables I-1 and C-9.

TABLE C-6. Summary of actual Washington recreational ocean salmon regulations.a (Page 1 of 4)

| Year | Area | Season | Minimum Size Limit (in.) |  |  |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Days | Bag Limit | Chinook | Coho ${ }^{\text {b/ }}$ |  |
| 2013 | U.S./Canada Border to Queets R. WA (Neah Bay and La Push subareas) | May 10-11, 17-18, June 22-28 | 11 | 2 | 24 | - | Coastw ide quota: 8,000 marked Chinook. |
|  | Queets R. to Leadbetter Pt. WA (Westport subarea) | June 8-22 | 15 | 2 | 24 | - | Coastw ide quota: 8,000 marked Chinook. |
|  | Leadbetter Pt. WA to Cape Falcon OR (Columbia River subarea) | June 8-21 | 14 | 2 | 24 | - | Coastw ide quota: 8,000 marked Chinook. |
|  | U.S./Canada Border to Cape Alava 8,200 coho quota and 4,900 Chinook guideline. | June 29-Sept 22 | 86 | 2 | 24 | 16 | Seven days per week. Tw o salmon daily plus two additional pinks; Aug. 10-22 tw o salmon daily, no more than one Chinook, plus tw o additional pinks. |
|  | Cape Alava to Queets River 3,040 coho quota and 1,700 Chinook guideline. | June 29-Sept 22 | 86 | 2 | 24 | 16 | Seven days per week. Two salmon daily plus two additional pinks; Aug. 10-22 tw o salmon daily, no more than one Chinook, plus two additional pinks. |
|  | $48^{\circ} 00^{\prime} \mathrm{N}$. Lat. to $47^{\circ} 50^{\prime} \mathrm{N}$. Lat. | Sept. 28-Oct. 13 | 16 | 2 | 24 | 16 | Seven days per w eek. Tw o salmon daily plus two additional pinks. |
|  | Queets River to Leadbetter Point 22,916 coho quota and 20,300 | June 23-August 3 | 36 | 2 | 24 | 16 | Five days per week (Sun.-Thurs.) through July 18; seven days per week thereafter; no more than one Chinook. |
|  | Chinook guideline. | Aug. 4-Sept. 5 | 33 | 2 | 24 | 16 | Seven days per week. Tw o salmon daily plus two additional pinks. |
|  |  | Sept. 6-30 | 25 | 2 | 24 | 16 | Seven days per week, non-mark-selective coho fishery w ith remaining quota converted to an impact neutral quota of 6,350 . |
|  | Leadbetter Point to WA/OR Border. 28,527 coho quota and 9,900 | June 22-Aug. 22 | 62 | 2 | 24 | 16 | Seven Days per w eek; no more than one Chinook |
|  | Chinook guideline. | Aug. 23-Aug. 31 | 9 | 2 | 24 | 16 | Seven days per week, non-mark-selective coho fishery w ith remaining quota converted to an impact neutral quota of 9,785 . |
|  |  | Sept 1-30 | 30 | 2 | 24 | 16 | Seven days per week, non-mark-selective coho fishery w ith remaining quota converted to an impact neutral quota of 9,785 . |


| Year | Area | Season | Minimum Size Limit (in.) |  |  |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Days | Bag Limit | Chinook | Coho ${ }^{\text {b/ }}$ |  |
| 2014 | U.S./Canada Border to Queets R. WA (Neah Bay and La Push subareas) | May 16-17, 23-24, <br> May 31-June 13 | 18 | 2 | 24 | - | Coastw ide quota: 9,000 marked Chinook. |
|  | Queets R. to Leadbetter Pt. WA (Westport subarea) | May 31-June 13 | 14 | 2 | 24 | - | Coastw ide quota: 9,000 marked Chinook. |
|  | Leadbetter Pt. WA to Cape Falcon OR (Columbia River subarea) | May 31-June 13 | 14 | 2 | 24 | - | Coastw ide quota: 9,000 marked Chinook. |
|  | U.S./Canada Border to Cape Alava: 19,200 coho quota and 7,000 | June 14-Aug. 31 | 79 | 2 | 24 | 16 | Seven days per w eek. All salmon; two fish per day. |
|  | Chinook guideline. | Sept. 1-21 | 21 | 2 | 24 | 16 | Seven days per w eek. All salmon; unmarked coho retention allow ed. Remaining coho quota converted to impact neutral quota of 1,600 . |
|  | Cape Alava to Queets River 4,750 coho quota and 2,350 | June 14-Aug. 31 | 79 | 2 | 24 | 16 | Seven days per w eek. All salmon; two fish per day. |
|  | Chinook guideline. | Sept. 1-21 | 21 | 2 | 24 | 16 | Seven days per w eek. All salmon; unmarked coho retention allow ed. Remaining coho quota converted to impact neutral quota of 1,500 . |
|  | $48^{\circ} 00^{\prime} \mathrm{N}$. Lat. to $47^{\circ} 50^{\prime} \mathrm{N}$. Lat. | Sept. 27-Oct. 12 | 16 | 2 | 24 | 16 | Seven days per week. Tw o salmon per day. Quotas of 50 Chinook and 50 coho. |
|  | Queets River to Leadbetter Point 68,380 coho quota and 27,600 | June 14-Aug. 31 | 79 | 2 | 24 | 16 | Seven days per w eek. All salmon; tw o fish per day, no more than one Chinook June 14-Aug. 17. |
|  | Chinook guideline. | Sept. 1-19 | 19 | 2 | 24 | 16 | Seven days per w eek. All salmon; unmarked coho retention allow ed. Remaining coho quota converted to impact neutral quota of 13,750 . |
|  | Leadbetter Point to WA/OR Border. 92,400 coho quota and 13,100 | June 14-Sept. 5 | 84 | 2 | 24 | 16 | Seven days per w eek. All salmon; tw o fish per day, no more than one Chinook. |
|  | Chinook guideline. | Sept. 6-21 | 16 | 2 | 24 | 16 | Seven days per w eek. All salmon; unmarked coho retention allow ed. Remaining coho quota converted to impact neutral quota of 13,100 . |


| Year | Area | Season | Minimum Size Limit (in.) |  |  |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Days | Bag Limit | Chinook | Coho ${ }^{\text {b/ }}$ |  |
| 2015 | U.S./Canada Border to Queets R. WA (Neah Bay and La Push subareas) | May 15-16, 22-23, <br> May 30-June 12 | 18 | 2 | 24 | - | Coastw ide quota: 10,000 marked Chinook. |
|  | Queets R. to Leadbetter Pt. WA (Westport subarea) | May 30-June 12 | 14 | 2 | 24 | - | Coastw ide quota: 10,000 marked Chinook. |
|  | Leadbetter Pt. WA to Cape Falcon OR (Columbia River subarea) | May 30-June 12 | 14 | 2 | 24 | - | Coastw ide quota: 10,000 marked Chinook. |
|  | U.S./Canada Border to Cape Alava: 14,850 coho quota and 8,820 Chinook guideline, plus 1,700 markselective coho quota transferred | June 13-Sept 3 | 83 | $2^{\text {c/ }}$ | 24 | 16 | Seven days per week. All salmon; two fish per day. One Chinook allow ed June 24-July 27, Aug. 14-15 and after Aug. 20, Chinook retention prohibited July 28- Aug. 13 and Aug. 16-20. |
|  | from the commercial fishery. | Sept 4-10 | 7 | $2^{\text {c/ }}$ | 24 | 16 | Seven days per w eek. All salmon except Chinook; unmarked coho retention allow ed. Remaining coho quota converted to impact neutral quota of 4,100 . |
|  |  | Sept 11-30 | 20 | $2^{\text {c/ }}$ | 24 | 16 | Seven days per week. All salmon except Chinook; tw o fish per day. 1,700 mark-selective coho quota transferred from the commercial fishery. |
|  | Cape Alava to Queets River 3,610 coho quota and 2,735 | June 13-Sept. 3 | 83 | $2^{\text {c/ }}$ | 24 | 16 | Seven days per week. All salmon; tw o fish per day; July 24-Sept. 30 limited to one Chinook. |
|  | Chinook guideline. | Sept. 4-30 | 27 | $2^{\text {c/ }}$ | 24 | 16 | Seven days per w eek. All salmon; two fish per day, only one Chinook, unmarked coho retention allow ed. Remaining coho quota converted to quota of 625 . |
|  | $48^{\circ} 00^{\prime} \mathrm{N}$. Lat. to $47^{\circ} 50^{\prime} \mathrm{N}$. Lat. | Oct. 1-11 | 11 | $2^{\text {c/ }}$ | 24 | 16 | Seven days per w eek. Tw o salmon per day. Quotas of 100 Chinook and 100 coho. |
|  | Queets River to Leadbetter Point 52,840 coho quota and 28,320 | June 13-Sept. 3 | 83 | 2 | 24 | 16 | Seven days per week. All salmon; tw o fish per day, no more than one Chinook June 13-Aug. 14. |
|  | Chinook guideline. | Sept. 4-30 | 27 | 2 | 24 | 16 | Seven days per w eek. All salmon; unmarked coho retention allow ed. Remaining coho quota converted to impact neutral quota of 13,000 . |
|  | Leadbetter Point to WA/OR Border. 79,400 coho quota and 15,225 | June 13-Sept. 3 | 83 | 2 | 24 | 16 | Seven days per w eek. All salmon; tw o fish per day, no more than one Chinook June 13-Aug. 28. |
|  | Chinook guideline. | Sept. 4-30 | 27 | 2 | 24 | 16 | Seven days per week. All salmon; unmarked coho retention allow ed. Remaining coho quota converted to impact neutral quota of 15,300 . |

TABLEC-6. Summary of actual Washington recreational ocean salmon regulations. ${ }^{\text {a/ }}$ (Page 4 of 4)

| Year | Area | Season | Minimum Size Limit (in.) |  |  |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Days | Bag Limit | Chinook | Coho ${ }^{\text {b/ }}$ |  |
| 2016 | U.S./Canada Border to Cape Alva (Neah Bay subarea) | July 1- Aug. 21 | 52 | 2 | 24 | - | All salmon except coho. Chinook guideline: 6,200 |
|  | Cape Alava to Queets R. (La Push sub area) | July 1-Aug. 21 | 52 | 2 | 24 | - | All salmon except coho. Chinook guideline: 2,000 |
|  | Queets R. to Leadbetter Pt. WA (Westport subarea) | July 1-22 July 23-Aug. 21 | $\begin{aligned} & 22 \\ & 30 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 24 \\ & 24 \end{aligned}$ |  | All salmon except coho. Chinook guideline: 16,600 |
|  | Leadbetter Pt. WA to Cape Falcon (Columbia River subarea) | July 1-Aug. 27 | 58 | 2 | 24 | 16 | All salmon. Guidelines: 10,200 Chinook, 18,900 coho. Daily bag limit allow s only 1 Chinook through Aug 15. |
| $2017{ }^{\text {c/ }}$ | U.S./Canada Border to Cape Alva (Neah Bay subarea) | June 24-Sept. 4 | 73 | 2 | 24 | 16 | All salmon. Guidelines: 7,900 Chinook, 3,970 coho. Tw o fish daily. |
|  | Cape Alava to Queets R. (La Push sub area) | June 24-Sept. 4 | 73 | 2 | 24 | 16 | All salmon. Guidelines: 2,500 Chinook, 1,490 coho. Two fish daily. |
|  | Queets R. to Leadbetter Pt. WA (Westport subarea) | July 1-Aug. 22 | 53 | 2 | 24 | 16 | All salmon. Guidelines: 21,400 Chinook, 17,113 coho. Tw o salmon daily, no more than one Chinook through July 21 , then any tw o salmon daily thereafter. |
|  | Leadbetter Pt. WA to Cape Falcon (Columbia River subarea) | June 24-Aug. 22 | 60 | 2 | 24 | 16 | All salmon. Guidelines:13,200 Chinook, 22,527 coho. Tw o salmon daily, no more than one Chinook. |

For earlier years see Review of 2013 Ocean Salmon Fisheries, Appendix C, Table C-6.
b/ Mark-selective coho fishery unless otherw ise noted; all retained coho must be marked with a healed adipose fin clip.
c/ For detailed regulations and inseason adjustments, see Tables $1-3$ and $\mathrm{C}-9$.


TABLEC-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons. ${ }^{\text {a/ }}$ (Page 2 of 6)

| $\begin{aligned} & \text { Do } \\ & \stackrel{D}{D} \\ & \stackrel{\text { De }}{\Sigma} \end{aligned}$ | Year | Tribe/Area | Seasons |  | Number of Days |  | $\begin{gathered} \text { Minimum } \\ \text { Size Limit (in.) } \end{gathered}$ |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All-Salmon-Except-Coho |  | All-Salmon-Except-Coho | All Salmon |  |  |  |
|  |  |  |  | All Salmon |  |  | Chinook | Coho |  |
| 은 | 2013 | Makah |  |  |  |  |  |  |  |
| N | Cont. | Ocean w aters north of $48^{\circ} 02^{\prime} 15^{\prime \prime} \mathrm{N}$. Lat. and east of $125^{\circ} 44^{\prime} 00^{\prime \prime} \mathrm{W}$. Long. |  |  |  |  |  |  |  |
| $\bigcirc$ |  |  | May 1-June 18 | - | 49 | - | 24 | - |  |
| \% |  |  |  | July 2-8 | - | 7 | 24 | 16 | 50 Chinook per vessel per open period |
| (1) |  |  | - | July 9-15 | - | 7 | 24 | 16 | 100 Chinook per vessel per open period |
| $\begin{aligned} & \text { CN } \\ & \end{aligned}$ |  |  | - | July 16-29 | - | 14 | 24 | 16 | 75 Chinoook per vessel per open period |
|  |  |  | - | July 30-Aug. 11 | - | 13 | 24 | 16 | 50 Chinook per vessel per open period |
| $\begin{aligned} & \overline{3} \\ & \text { 응 } \end{aligned}$ |  |  | - | 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 w aters |  | 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 Chinoook per vessel per open period |
| No |  |  | - | 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 |  |
|  |  | S'Klallam |  |  |  |  |  |  |  |
|  |  | Area 4B inside w aters | - | 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 |  |

TABLEC-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons. ${ }^{\text {a/ }}$ (Page 3 of 6)

| Year | Tribe/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 |  |
| 2014 | Quinault, Quileute, and Hoh |  |  |  |  |  |  |  |
|  | Sand Point to Point Chehalis | May 1-June 30 | - | 61 | - | 24 | - |  |
|  | Quileute and Hoh | - | July 1-Sept. 15 | - | 77 | 24 | 16 |  |
|  | Quinault | - | July 1-Sept. 4 | - | 66 | - | - |  |
|  |  | - | Sept 5-10 | - | 6 | 24 | 16 | 40 Chinook and 120 coho per vessel per open period |
|  |  | - | Sept 11-15 | - | 5 | 24 | 16 | 45 Chinook and 135 coho per vessel per open period |
|  | Sand Point to Queets River (Quileute only) | - | Sept. 16-Oct. 15 | - | 30 | 24 | 16 | Ceremonial and subsistence only |
|  | Makah |  |  |  |  |  |  |  |
|  |  and east of $125^{\circ} 44^{\prime} 00^{\prime \prime} \mathrm{W}$. Long. |  |  |  |  |  |  |  |
|  |  | May 1-June 23 |  | 54 | - | 24 | - |  |
|  |  | June 25-30 |  | 6 | - | 24 | - | 75 Chinook per vessel per open period |
|  |  | - | July 1-31 | - | 31 | 24 | 16 |  |
|  |  | - | Aug. 2-Aug. 9 | - | 8 | 24 | 16 | 70 Chinook per vessel per open period |
|  |  | - | Aug. 11-13 | - | 3 | 24 | 16 | 70 Chinook per vessel per open period |
|  |  | - | Aug. 15-20 | - | 6 | 24 | 16 | 100 Chinook and 315 coho per vessel per open period |
|  |  | - | Aug. 22-27 | - | 6 | 24 | 16 | 120 Chinook and 360 coho per vessel per open period |
|  |  | - | Aug. 29-Sept 3 | - | 7 | 24 | 16 | 120 Chinook and 200 coho per vessel per open period |
|  |  | - | Sept 5-10 | - | 6 | 24 | 16 | 35 Chinook and 110 coho per vessel per open period |
|  |  | - | Sept 11-15 | - | 5 | - |  | 45 Chinook and 135 coho per vessel per open period |
|  | Area 4B inside w aters | - | Jan. 1-Apr. 15 | - | 105 | 22 | 16 |  |
|  |  | May 1-June 23 |  | 54 | - | 24 | - |  |
|  |  | June 25-30 |  | 6 |  | 24 | - | 75 Chinook per vessel per open period |
|  |  | - | July 1-31 | - | 31 | 24 | 16 |  |
|  |  | - | Aug. 2-Aug. 9 | - | 8 | 24 | 16 | 70 Chinook per vessel per open period |
|  |  | - | Aug. 11-13 | - | 3 | 24 | 16 | 70 Chniook per vessel per open period |
|  |  | - | Aug. 15-20 | - | 6 | 24 | 16 | 100 Chinook and 315 coho per vessel per open period |
|  |  | - | Aug. 22-27 | - | 6 | 24 | 16 | 120 Chinook and 360 coho per vessel per open period |
|  |  | - | Aug. 29-Sept 3 | - | 7 | 24 | 16 | 120 Chinook and 200 coho per vessel per open period |
|  |  | - | Sept 5-10 | - | 6 | 24 | 16 | 35 Chinook and 110 coho per vessel per open period |
|  |  | - | Sept 11-15 | - | 5 |  |  | 45 Chinook and 135 coho per vessel per open period |
|  |  | - | Nov. 1-Dec. 31 | - | 61 | 22 | 16 |  |
|  | S'Klallam |  |  |  |  |  |  |  |
|  | Area 4B inside w aters | - | 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 |  |


| Year | Tribe/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 |  |
| 2015 | Quinault, Quileute, and Hoh |  |  |  |  |  |  |  |
|  | Sand Point to Point Chehalis | May 1-June 30 | - | 61 | - | 24 | - |  |
|  | Quileute and Hoh | - | July 1-Sept. 15 | - | 77 | 24 | 16 |  |
|  | Quinault | - | July 1-Sept. 15 | - | 77 | - | - |  |
|  | Sand Point to Queets River (Quileute only) | - | Sept. 16-Oct. 15 | - | 30 | 24 | 16 | Ceremonial and subsistence only |
|  | Makah |  |  |  |  |  |  |  |
|  | Ocean w aters north of $48^{\circ} 02^{\prime} 15^{\prime \prime} \mathrm{N}$. Lat. and east of $125^{\circ} 44^{\prime} 00^{\prime \prime}$ W. Long. |  |  |  |  |  |  |  |
|  |  | May 1-June 23 |  | 54 | - | 24 | - |  |
|  |  | June 25-30 |  | 6 | - | 24 | - | 75 Chinook per vessel per open period |
|  |  | - | July 6-11 | - | 6 | 24 | 16 | 75 Chinook per vessel per open period |
|  |  | - | July 13-23 | - | 11 | 24 | 16 |  |
|  |  | - | July 25-29 | - | 6 | 24 | 16 | 30 Chinook per vessel per open period |
|  |  | - | July 31-Aug. 5 | - | 6 | 24 | 16 | 30 Chinook per vessel per open period |
|  |  | - | Aug. 7-12 | - | 6 | 24 | 16 | 35 Chinook per vessel per open period |
|  |  | - | Aug. 14-19; 21-26; 28-Sept 2 | - | 17 | 24 | 16 | 20 Chinook per vessel per open period |
|  |  | - | Sept. 3-9 | - | 7 | 24 | 16 | 25 Chinook per vessel per open period |
|  |  | - | Sept. 10-15 | - | 6 |  |  | 40 Chinook per vessel per open period |
|  | Area 4B inside w aters | - | Jan. 1-Apr. 15 | - | 105 | 22 | 16 |  |
|  |  | May 1-June 23 |  | 54 | - | 24 | - |  |
|  |  | June 25-30 |  | 6 | - | 24 | - | 75 Chinook per vessel per open period |
|  |  | - | July 6-11 | - | 6 | 24 | 16 | 75 Chinook per vessel per open period |
|  |  | - | July 13-23 | - | 11 | 24 | 16 |  |
|  |  | - | July 25-29 | - | 6 | 24 | 16 | 30 Chinook per vessel per open period |
|  |  | - | July 31-Aug. 5 | - | 6 | 24 | 16 | 30 Chinook per vessel per open period |
|  |  | - | Aug. 7-12 | - | 6 | 24 | 16 | 35 Chinook per vessel per open period |
|  |  |  | Aug. 14-19; 21-26; | - | 17 | 24 | 16 | 20 Chinook per vessel per open period |
|  |  | - | 28-Sept 2 | - |  |  |  |  |
|  |  | - | Sept. 3-9 | - | 7 | 24 | 16 | 25 Chinook per vessel per open period |
|  |  | - | Sept. 10-15 | - | 6 |  |  | 40 Chinook per vessel per open period |
|  |  | - | Nov. 1-Dec. 31 | - | 61 | 22 | 16 |  |
|  | S'Klallam |  |  |  |  |  |  |  |
|  | Area 4B inside w aters | - | 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 |  |

TABLEC-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons. ${ }^{\text {a/ }}$ (Page 5 of 6)

| Year | Tribe/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 |  |
| 2016 | Quinault, Quileute, and Hoh |  |  |  |  |  |  |  |
|  | Sand Point to Point Chehalis | May 1-June 30 | - | 61 | - | 24 | - |  |
|  | Quileute and Hoh | - | July 1-Aug. 31 | - | 62 | 24 | 16 | No coho retention |
|  | Quinault | - | July 1-Aug. 31 | - | 62 | 24 | 16 | No coho retention |
|  | Makah |  |  |  |  |  |  |  |
|  | North of 48002'15" N. Lat. | May 1-June 4 | - | 35 | - | 24 | - | Area closure: Sw iftsure |
|  | (Norw egian Memorial) and east of | June 5-30 | - | 26 | - | 24 | - | All Areas Open |
|  |  | - | July 1-Aug. 6 | - | 37 | 24 | 16 | No coho retention; Gear restriction plugs only |
|  |  | - | Aug. 7-31 | - | 25 | - | - | No coho retention; No gear restrictions |
|  | Area 4B (inside w aters) | - | Jan. 1-Apr. 15 | - | 105 | 22 | 16 |  |
|  | (Tootosh line east to Sieku R.) | May 1-June 30 | - | 61 | - | 24 | - |  |
|  |  | - | July 1-Aug. 6 | - | 37 | 24 | 16 | No coho retention; Gear restriction plugs only |
|  |  | - | Aug. 7-31 | - | 25 | 24 | - | No coho retention; No gear restrictions |
|  |  | - | Nov. 1-Dec. 31 | - | 61 | 22 | 16 |  |
|  | S'Klallam/Area 4B | - | Jan. 1-Apr. 15 | - | 105 | 22 | 16 |  |
|  | (Tootosh line east to Sieku R.) | May 1-June 30 | - | 61 | - | 24 | - |  |
|  |  |  | July 1-Aug. 31 | - | 62 | 24 | 16 | No coho retention |
|  |  | - | Nov. 1-Dec. 31 | - | 61 | 22 | 16 |  |

TABLEC-7. Summary of actual Washington treaty Indian ocean and Area 4B troll salmon seasons. ${ }^{\text {a/ }}$ (Page 6 of 6 )

| Year | Tribe/Area | Seasons |  | Number of Days |  | $\begin{gathered} \text { Minimum } \\ \text { Size Limit (in.) } \\ \hline \end{gathered}$ |  | Other Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All-Salmon- |  | All-Salmon- |  |  |  |  |
|  |  | Except-Coho | All Salmon | Except-Coho | All Salmon | Chinook | Coho |  |
| $2017^{\mathrm{b} /}$ | Quinault, Quileute, and HohCape Alava to Point Chehalis |  |  |  |  |  |  |  |
|  |  | May 1-June 30 | - | 61 | - | 24 | - |  |
|  |  | - | July 1-Sept. 15 | - | 77 | 24 | 16 |  |
| Makah <br> North of $48^{\circ} 02^{\prime} 15^{\prime \prime} \mathrm{N}$. Lat. (Norw egian Memorial) and east of $125^{\circ} 44^{\prime} 00^{\prime \prime}$ W. Long. |  |  |  |  |  |  |  |  |
|  |  | May 1-June 30 | - | 61 | - | 24 | - |  |
|  |  | - | July 1- Aug. 14 | - | 45 | 24 | 16 |  |
|  |  | - | Aug. 15-21 | - | 7 | 24 | 16 | 100 coho per vessel per w eek |
|  |  | - | Aug. 22-31 | - | 10 | 24 | 16 | 175 coho per vessel per w eek |
|  |  | - | Sept. 1-8 | - | 8 | 24 | 16 | 50 coho per vessel per w eek |
|  |  | - | Sept. 9-10 | - | 2 | 24 | 16 | 75 coho per vessel per w eek |
|  |  | - | Sept. 11-14 | - | 4 | 24 | 16 | 100 coho per vessel per w eek |
| Area 4B (inside waters) (Tootosh line east to Sieku R.) |  | - | Jan. 1-Apr. 15 |  | 105 | 22 | 16 |  |
|  |  | May 1-June 30 | - | 61 | - | 24 | - |  |
|  |  |  | July 1- Aug. 14 | - | 45 | 24 | 16 |  |
|  |  | - | Aug. 15-21 | - | 7 | 24 | 16 | 100 coho per vessel per w eek |
|  |  | - | Aug. 22-31 | - | 10 | 24 | 16 | 175 coho per vessel per w eek |
|  |  | - | Sept. 1-8 | - | 8 | 24 | 16 | 50 coho per vessel per w eek |
|  |  | - | Sept. 9-10 | - | 2 | 24 | 16 | 75 coho per vessel per w eek |
|  |  | - | Sept. 11-14 | - | 4 | 24 | 16 | 100 coho per vessel per w eek |
|  |  | - | Nov. 1-Dec. 31 | - | 61 | 22 | 16 |  |
| S'Klallam/Area 4B <br> (Tootosh line east to Sieku R.) |  | - | 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 |  |

a/ For earlier years see Review of 2013 Ocean Salmon Fisheries, Appendix C, Table C-7.
b/ For detailed regulations see Table $1-2$.

| Year | Chinook |  |  |  | Coho |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Catch Quota |  |  |  | Catch Quota |  |  |
|  | Critical Stocks | Treaty Indian | Non-Indian Commercial | Sport | Critical Stocks | Treaty Indian | Non-Indian Commercial | Sport |
| 1979 | None | - | - | - | None |  |  |  |
| 1980 | None | - | - | - | Washington coastal coho | - | - | - |
| 1981 | None | - | - | - | Hoh and Skagit ${ }^{\text {a }}$ | - | 372.0 | 248.0 |
| 1982 | None | - | - | - | Washington coastal coho | - | 293.0 | 215.0 |
| 1983 | Columbia River hatchery and depressed upriver stocks | - | 114.0 | 88.0 | Queets and Skagit/ | - | 164.0 | 318.0 |
| 1984 | Low er Columbia 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 | $47.5{ }^{\text {c/ }}$ | 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 | $58.2^{\text {d }}$ | 44.6 | Skagit | 86.0 | 141.2 | 200.9 |
| 1988 | Columbia River upriver stocks | 60.0 | 73.7 | 29.8 | Washington coastal and Puget Sound | 68.0 | $0.0^{\text {e/ }}$ | 100.0 |
| 1989 | Columbia River upriver stocks | 32.0 | 47.5 | 47.5 | Queets and Skagit | 77.0 | 75.0 | 225.0 |
| 1990 | Low er Columbia River Hatchery tules | 31.2 | 37.5 | 37.5 | Queets and Skagit | 90.0 | 105.0 | 245.0 |
| 1991 | Low er Columbia River Hatchery tules | 33.0 | 40.0 | 40.0 | Hood Canal and Skagit | 80.0 | 87.0 | 233.0 |
| 1992 | Columbia River Low er 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 Low er 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 Low er 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 Low er 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 Low er 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 | $32.3{ }^{\text {t/ }}$ |
| 1998 | Columbia River Low er River Hatchery tules | 15.0 | 6.5 | 3.5 | Washington coastal and Oregon Coast Natural | 10.0 | 0.0 | 16.0 |
| 1999 | Columbia River Low er River Wild (Lew is River) | 30.0 | 28.5 | 21.5 | Queets, Strait of Juan de Fuca, and Oregon Coast Natural | 38.5 | 20.0 | $110^{9 /}$ |

ABLEC-8. Council preseason adopted catch quotas (thousands of fish) for ocean fisheries north of Cape Falcon and critical stocks driving management. (Page 2 of 3 )

| Year | Chinook |  |  |  | Coho |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Catch Quota |  |  |  | Catch Quota |  |  |
|  | Critical Stocks | Treaty Indian | Non-Indian Commercial | Sport | Critical Stocks | Treaty Indian | Non-Indian Commercial | Sport |
| 2000 | Columbia River Low er River Wild (Lew is River) | 25.5 | 12.5 | 12.5 | Queets, Skagit, Stillaguamish, Snohomish, Strait of Juan de Fuca, and OCN | 20.0 | $25.0^{\text {g/ }}$ | $75.0^{9 /}$ |
| 2001 | Columbia River Low er River natural tules | 37.0 | 30.0 | 30.0 | Oregon Coast Natural | 90.0 | $75.0^{9 /}$ | $225.0^{\text {g/ }}$ |
| 2002 | Columbia River Low er River natural tules | 60.0 | 82.5 | 67.5 | Oregon Coast Natural | 60.0 | $5.0^{\text {gi/ }}$ | $115.0^{\text {gi/ }}$ |
| 2003 | Columbia River Low er River natural tules and Snake River Fall | 60.0 | 64.4 | 59.6 | Oregon Coast Natural | 90.0 | $75.0^{9 /}$ | $225.0^{9 /}$ |
| 2004 | Columbia River Low er River natural tules and Snake River Fall | 49.0 | 44.5 | 44.5 | Interior Fraser (B.C.), Oregon Coast Natural, and upper Columbia River escapement | 75.0 | $67.5^{\text {/ }}$ | $202.5^{\text {g/ }}$ |
| 2005 | Snake River Fall | 48.0 | 43.3 | 43.3 | Interior Fraser (B.C.) and Skagit River | 50.0 | $23.2{ }^{\text {g/ }}$ | $121.8^{\text {g/ }}$ |
| 2006 | Columbia River Low er River natural tules ${ }^{\text {h/ }}$ | 42.2 | 34.0 | 31.0 | Low er Columbia River natural and Interior Fraser (B.C.) | 37.5 | $6.8^{9 /}$ | $73.2{ }^{9 /}$ |
| 2007 | Columbia River Low er River natural tules ${ }^{\text {h/ }}$ | 35.0 | 16.3 | 16.3 | Low er Columbia River natural and Interior Fraser (B.C.) | 38.0 | $22.4{ }^{9 /}$ | $117.6^{9 /}$ |
| 2008 | Low er River w ild (Lew is River) ${ }^{\mathrm{h} /}$ and Columbia River natural tules | 37.5 | 20.0 | 20.0 | Low er Columbia River natural and Hood Canal Natural | 20.0 | $4.0^{9 /}$ | $20.35^{\text {g/ }}$ |
| 2009 | Columbia River Low er River natural tules | 39.0 | 20.5 | 20.5 | Low er Columbia River, Skagit, Stillaguamish, and Interior Fraser Natural | 60.0 | $33.6{ }^{9 /}$ | $176.4^{\text {g/ }}$ |
| 2010 | Columbia River Low er River natural tules | 55.0 | 56.0 | $61.0^{\text {j/ }}$ | Low er Columbia River, Strait of Juan de Fuca, and Interior Fraser Natural | 41.5 | $12.8{ }^{\text {g/ }}$ | $67.2{ }^{9 /}$ |
| 2011 | Columbia River Low er River natural tules | 41.0 | 30.9 | $33.7{ }^{\text {j/ }}$ | Low er Columbia River and Interior Fraser Natural | 42.0 | $12.8{ }^{\text {g/ }}$ | $67.2{ }^{\text {g/ }}$ |
| 2012 | Columbia River Low er River natural tules | 55.0 | 47.4 | $51.5^{\text {j/ }}$ | Low er Columbia River and Interior Fraser Natural | 47.5 | $11.8{ }^{\text {g/ }}$ | $71.2^{\text {g/ }}$ |
| 2013 | Columbia River Low er River natural tules | 52.5 | 44.0 | $48.0{ }^{\text {j/ }}$ | Low er Columbia River and Interior Fraser Natural | 47.5 | $14.2{ }^{\text {g/ }}$ | $74.8{ }^{\text {g/ }}$ |
| 2014 | Columbia River natural tules and Puget Sound | 62.5 | 56.9 | $59.1{ }^{\text {j/ }}$ | Low er Columbia River and Interior Fraser Natural | 57.5 | $35.2{ }^{\text {g/ }}$ | $184.8{ }^{\text {g/ }}$ |

TABLEC-8. Council preseason adopted catch quotas (thousands of fish) for ocean fisheries north of Cape Falcon and critical stocks driving management. (Page 3 of 3)

| Chinook |  |  |  |  | Coho |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Catch Quota |  |  |  | Catch Quota |  |  |
| Year | Critical Stocks | Treaty Indian | Non-Indian Commercial | Sport | Critical Stocks | Treaty Indian | Non-Indian Commercial | Sport |
| 2015 | Columbia River natural tules and Puget Sound | 60.0 | 67.0 | $64.0{ }^{\text {j/ }}$ | Low er Columbia River, Queets River and Interior Fraser Natural coho. | 42.5 | $19.2^{\text {g }}$ | $150.8^{9 /}$ |
| 2016 | Columbia River natural tules and Puget Sound | 40.0 | 35.0 | $35.0{ }^{\text {/ }}$ | Low er Columbia River, Queets River and Interior Fraser Natural coho. | 0.0 | 0.0 | 18.99/ |
| 2017 | Columbia River natural tules and Puget Sound | 40.0 | 45.0 | 45.0 | Low er Columbia River, Queets River and Interior Fraser Natural coho. | 12.5 | $5.6^{\text {g/ }}$ | $42.0^{9 /}$ |

a/ Although the Skagit River escapement goal w ould 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.
$\mathrm{g} /$ Marked hatchery coho only (healed adipose fin clip).
h/ Sharing of impacts on ESA listed Puget Sound Chinook also affected the shaping of ocean and inside fisheries.
i/ For 2002, the Council elected to constrain fishing so that the OCN exploitation rate w ould not exceed 12.5 percent per ODFW's recommendation to provide additional protection for low er 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 (5,000 non-mark selective quota) in 2010, 4,800 ( 2,000 non-mark selective quota) in 2011, 8,000 in
2012 and 2013 ( 4,000 non-mark selective quota), 9,000 ( 4,500 non-mark selective) in 2014, and 10,000 in 2015 ( 4,000 non-mark selective).

TABLE C-9. 2017 sequence of events in ocean salmon fishery management. ${ }^{\text {a/ }}$ (Page 1 of 5)

## GENERAL MANAGEMENT ACTIONS AND INSEASON CONFERENCES

Mar. 3 National Marine Fisheries Service (NMFS) provides the Council with a letter outlining the 2017 management guidance for stocks listed under the Endangered Species Act (ESA) and stocks of concern.

Mar. 12 Based on Council recommendations, NMFS takes inseason action to delay the scheduled opening for the commercial salmon fishery from Cape Falcon, Oregon south to Humbug Mountain, Oregon, from March 15, 2017, to April 15, 2017.

Mar. 12 Based on Council recommendations, NMFS takes inseason action to cancel the opening scheduled in the commercial fishery from Humbug Mountain, Oregon to the Oregon/California border (Oregon KMZ), originally scheduled for April 16-30, 2017.

Mar. 12 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 Management Area), originally scheduled for April 16-30, 2017.

Mar. 13 Council adopts three commercial, tribal, and recreational ocean salmon fishery management alternatives for public review.

Mar. 17 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. 27-28 Council holds public hearings on proposed 2017 management alternatives in Westport, Washington; Coos Bay, Oregon; and Fort Bragg, California.

Apr. 4 North of Cape Falcon Salmon Forum meets in Lynnwood, Washington to further consider recommendations for treaty Indian and non-Indian salmon management alternatives.

April 10 Based on Council recommendations, NMFS takes inseason action on the commercial salmon fishery from Cape Falcon, Oregon to Humbug Mountain, Oregon effective April 15, 2017. The area will be divided into two management areas at Florence South Jetty. The commercial salmon fishery from Florence South Jetty to Humbug Mountain will remain closed. The commercial salmon fishery from Cape Falcon to Florence South Jetty will open, April 15 through April 30, 2017, with the same restrictions as announced in 2016.

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.

Apr. 28 Ocean salmon seasons implemented as recommended by the Council and published in the Federal Register ( 82 FR 19631), with an effective date of May 1, 2017.

June 20 NMFS inseason action results:

1. Effective June 21, 2017. The 60 Chinook landing and possession limit that has been in effect for May and June in the commercial salmon fishery between the U.S./Canada border and the Queets River is removed for the remainder of the May-June season.
2. Effective July 1, 2017. Retention of Pacific halibut caught incidental to the commercial salmon fishery, previously scheduled to end June 30, will be allowed to continue into July with modifications to the landing limit. Effective July 1, IPHC license holders may land or possess no more than one Pacific halibut per each four Chinook, except one Pacific halibut may be possessed or landed without meeting the ratio requirement, and no more than 10 halibut may be possessed or landed per trip.

GENERAL MANAGEMENT ACTIONS AND INSEASON CONFERENCES (continued)
July 19 NMFS inseason action results:

1. Effective July 21: In the commercial salmon fishery, in the area from the U.S./Canada border to the Queets River, the landing and possession limit for Chinook is increased from 60 Chinook to 75 Chinook per vessel per open period.
2. Effective July 21: In the commercial fishery, in the area from the Queets River to Cape Falcon, OR, the open period is extended to seven days per week, Monday through Sunday, and the landing limit for Chinook salmon is increased from 75 Chinook to 150 Chinook per vessel per open period. Any fish not landed by 11:59 pm on Sundays will be counted against the next open period.
3. Effective July 22: In the recreational fishery in the Westport subarea, the landing limit is changed to two fish per day, both of which can be Chinook.

Aug. 3 NMFS inseason action results:

1. Effective August 3: In the commercial salmon fishery north of Cape Falcon, unused Chinook salmon quota is rolled over to the summer commercial salmon fishery. The adjusted summer quota north of Cape Falcon is 20,205 with a subarea quota of 10,870 in the area north of Queets River.
2. Effective August 4: In the commercial salmon fishery, retention of Pacific halibut caught incidental to the commercial salmon fishery is closed, due to attainment of the IPHC allocation.

Aug. 10 NMFS inseason action results: Effective August 10: Quota transfer of 2,600 coho from the north of Cape Falcon commercial fishery to the recreational fishery in the Westport subarea. The adjusted coho quota for the north of Cape Falcon commercial fishery is 3,000 . The adjusted coho quota for the Westport subarea is 18,140 .

Aug. 17 NMFS inseason action results:

1. Effective August 17: Quota transfer of 500 coho from the commercial salmon fishery north of Cape Falcon and 1,027 coho from the recreational salmon fishery in the Westport subarea to the recreational salmon fishery in the Columbia River subarea. The revised recreational coho quotas are 17,113 for Westport, and 22,527 for Columbia River. The revised coho quota for the commercial fishery north of Cape Falcon is 2,500.
2. Effective August 17: Quota transfer of 400 coho from the recreational salmon fishery in the Neah Bay subarea to the recreational salmon fishery in the La Push subarea. The revised coho quota for Neah Bay is 3,970, and for La Push 1,490.
3. Effective August 21: In the commercial salmon fishery north of the Queets River, the open period is extended to 7 days per week and the landing and possession limit is changed to 100 Chinook and 10 coho per vessel per open period. Any salmon on-board after midnight Sunday, August 20 will be counted against the next open period, which will be Monday through Sunday.
4. Effective August 22: The recreational salmon fishery in the Westport subarea closes.
5. Effective August 22: The recreational salmon fishery in the Columbia River subarea closes.

Aug. 28 NMFS inseason action results: Effective August 28: In the recreational fishery in the area from Cape Falcon to Humbug Mountain, unused coho quota from the mark-selective coho season was rolled over, on an impact-neutral basis, to the non-mark-selective coho fishery that opens September 2. The adjusted quota for the non-mark-selective coho fishery is 7,900 coho.

Sept. 6 NMFS inseason action results: Effective September 7: In the recreational salmon fishery in the area from Cape Falcon to Humbug Mountain, the non-mark-selective coho fishery closes due to projected attainment of quota.

TABLE C-9. 2017 sequence of events in ocean salmon fishery management. ${ }^{2}$ (Page 3 of 5)

## NON-INDIAN COMMERCIAL TROLL SEASONS

April 15 Cape Falcon to Florence South Jetty non-Indian commercial all-salmon-except-coho fishery opens seven days per week through May. The commercial salmon fishery from Florence South Jetty to Humbug Mountain remains closed.

May 1 U.S./Canada border to Cape Falcon non-Indian commercial all-salmon-except-coho fishery opens until the earlier of June 30 or attainment of 27,000 preseason Chinook guideline, of which no more than 8,900 may be caught north of the Queets River, and no more than 9,000 may be caught south of Leadbetter Point. North of the Queets River a landing/possession limit of 60 fish per vessel per week in effect. For details see Table $\mathrm{I}-1$ and Tables C-3 and C-5.

May 1 Pigeon Point to U.S./Mexico border non-Indian commercial all-salmon-except-coho fishery opens for a 61 day season through June 30.
June $7 \quad$ Cape Falcon to Florence South Jetty non-Indian commercial all-salmon-except-coho fishery opens through June 12 (6 days).

June 15 Cape Falcon to Florence South Jetty non-Indian commercial all-salmon-except-coho fishery opens seven days per week through June 30 (16 days).
June 30 U.S./Canada border to Cape Falcon 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 open July 1-4, and from July 7 until the earlier of September 19 or attainment of 18,000 preseason Chinook guideline or 5,600 coho whichever comes first; no more than 7,200 may be caught north of the Queets River. For details see Table I-1 and Table C-5.

July $8 \quad$ Cape Falcon to Florence South Jetty non-Indian commercial all-salmon-except-coho fishery opens seven days per week through July 31 (24 days).
Aug. 1 Point Arena to Pigeon Point non-Indian commercial all-salmon-except-coho fishery opens through Aug. 29 (29 days). All fish must be landed prior to 11:59 p.m. August 30.
Sept. 1 Cape Falcon to Florence South Jetty non-Indian commercial all-salmon-except-coho fishery open on through October 31. Landing/possession limit in place beginning September 1. For details see Table $\mathrm{I}-1$ and $\mathrm{C}-3$.

Sept. 1 Horse Mountain to Point Arena non-Indian commercial all-salmon-except-coho fishery opens 5 days a week until the earlier of Sept. 30 or attainment of 3,000 Chinook quota. Landing/possession limit in place. All fish must be landed north of Point Arena. For details see Table I-1 and C-1.
Sept. $1 \quad$ Point Arena to Pigeon Point non-Indian commercial all-salmon-except-coho fishery opens for a 30 day season through Sept. 30. All fish must be landed south of Point Arena until and unless the Fort Bragg fishery has been closed for the season for at least 24-hours.
Sept. 19 U.S./Canada border to Cape Falcon non-Indian commercial all-salmon fishery closes as scheduled.
Sept. 30 Horse Mountain to Point Arena non-Indian commercial all-salmon-except-coho fishery closes as scheduled.

Oct. 2 Point Reyes to Point San Pedro non-Indian commercial all-salmon-except-coho fishery opens for a 10 day season, Monday through Friday, through Oct. 13. All fish must be landed between Point Arena and Pigeon Point. For details see Table I-1 and C-1.

TABLE C-9. 2017 sequence of events in ocean salmon fishery management. ${ }^{\text {a/ }}$ (Page 4 of 5)

## TREATY INDIAN COMMERCIAL TROLL SEASONS

| Jan. 1 | All-salmon fisheries in Area 4B for Makah and S'Klallam tribes open through April 15. |
| :--- | :--- |
| May 1 | All-salmon-except-coho fisheries open through the earlier of June 30 or attainment of 20,000 Chinook <br> quota. |
| June 30 | All-salmon-except-coho fisheries close as scheduled (see Table C-7). |
| July 1 | All-salmon fisheries open through the earlier of September 15, or attainment of 20,000 Chinook quota <br> or 12,500 coho quota. Inseason action includes various landing/possession limits per vessel per <br> week for coho. |
| Sept. 15 | All-salmon fisheries close as scheduled. <br> Nov. 1 |

## RECREATIONAL SEASONS

Mar. 15-June 23 Cape Falcon to Humbug Mountain all-salmon-except-coho fishery open seven days per week with a 24-inch minimum size limit for Chinook.
Apr. 1-May 31 Horse Mountain to Point Arena all-salmon-except-coho fishery open seven days per week with a 20inch minimum size limit for Chinook. Re-opens in August.

| Apr. 1-30 | Point Arena to Pigeon Point all-salmon-except-coho fishery open seven days per week, with a 24- <br> inch minimum size limit for Chinook. Re-opens in May. |
| :--- | :--- |
| Apr. 1-July 15 | Pigeon Point to Point Sur all-salmon-except-coho fishery open seven days per week, with a 24-inch <br> minimum size limit for Chinook. |
| Apr. 1-May 31 | Point Sur to the U.S./Mexico border all-salmon-except-coho fishery open seven days per week, with <br> a 24-inch minimum size limit for Chinook. |

May 15-Oct. 31 Point Arena to Pigeon Point re-opens as scheduled for all-salmon-except-coho fishery. Open seven days per week, with a 20 -inch minimum size limit for Chinook.
June 24 U.S./Canada border to Cape Alava (Neah Bay Subarea), all-salmon fishery opens through the earlier of September 4 or attainment of a subarea quota of 4,370 marked coho and/or a subarea guideline of 7,900 Chinook. Open seven days per week. Bag limit is two fish per day. All coho must be marked with a healed adipose fin clip. No chum retention beginning August 1. Minimum size limit is 24 inches for Chinook and 16 inches for coho. Chinook non-retention east of the Bonilla-Tatoosh line in Council area fisheries beginning August 1.

June 24 Cape Alava to Queets River (La Push Subarea), all-salmon fishery opens through the earlier of September 4 or attainment of a subarea quota of 1,090 marked coho and/or a subarea guideline of 2,500 Chinook. Open seven days per week. Bag limit is two fish per day. All coho must be marked with a healed adipose fin clip. Minimum size limit is 24 inches for Chinook and 16 inches for coho.
June 24 Leadbetter Point to Cape Falcon (Columbia River Subarea), all-salmon fishery opens though the earlier of September 4 or attainment of a subarea quota of 21,000 marked coho and/or a subarea guideline of 13,200 Chinook. Open seven days per week. Bag limit is two fish per day, only one of which can be a Chinook. All coho must be marked with a healed adipose fin clip. Minimum size limit is 24 inches for Chinook and 16 inches for coho.

June 24 Cape Falcon to Humbug Mountain., all-salmon mark-selective-coho fishery opens through earlier of July 31 or attainment of a subarea quota of 18,000 marked coho. Open seven days per week. Bag limit is two fish per day. All coho must be marked with a healed adipose fin clip. Minimum size limit is 24 inches for Chinook and 16 inches for coho.

July $1 \quad$ Queets River to Leadbetter Point (Westport Subarea), all-salmon fishery opens though the earlier of September 4 or attainment of a subarea quota 15,540 marked coho and/or a subarea guideline of 21,400 Chinook. Open seven days per week. Bag limit is 2 fish per day, no more than one Chinook until inseason action changed the bag limit to 2 fish per day, both of which can be Chinook beginning July 22. All coho must be marked with a healed adipose fin clip. Minimum size limit is 24 inches for Chinook and 16 inches for coho. Grays Harbor Control Zone closed beginning August 14.

TABLE C-9. Sequence of events in ocean salmon fishery management, 2017. ${ }^{2}$ (Page 5 of 5 )

RECREATIONAL SEASONS, (continued)
Aug. 1-Sept. 1 Cape Falcon to Humbug Mountain re-opens as scheduled for the all-salmon-except-coho fishery. Open seven days per week with a 24 -inch minimum size limit for Chinook.

Aug. 15-Nov. 12 Horse Mountain to Point Arena re-opens as scheduled for the all-salmon-except-coho fishery. Open seven days per week with a 20 -inch minimum size limit for Chinook.

Aug. 22 Queets River to Leadbetter Point (Westport Subarea) closes. Leadbetter Point to Cape Falcon (Columbia River Subarea) closes (area subquotas for coho reached).

Sept. $2 \quad$ Cape Falcon to Humbug Mountain all-salmon non-mark-selective coho fishery opens seven days per week through September 30 or attainment of a 7,900 coho quota. Bag limit is two fish per day. Minimum size limit is 24 inches for Chinook and 16 inches for coho.

Sept. $7 \quad$ Cape Falcon to Humbug Mountain non-mark-selective coho fishery closed (coho quota reached).
Sept. 8-Oct. 31 Cape Falcon to Humbug Mountain all-salmon-except-coho fishery re-opens as scheduled. Seven days per week with a 24 -inch minimum size limit for Chinook.
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. NMFS inseason actions are results of conference calls between state, federal and tribal fishery managers.

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| Year | Apr. | May | June | July | Aug. | Sept. | Oct. | Season ${ }^{\text {a/ }}$ | May | June | July | Aug. | Sept. | Season |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHINOOK |  |  |  |  |  |  |  |  | COHO |  |  |  |  |  |
| Monterey |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | - | - | - | - | - | - |
| 2001-2005 | - | 12.1 | 13.1 | 13.7 | 14.0 | 13.8 | - | 12.7 | - | - | - | - | - | - |
| 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 | - | 12.4 | 13.6 | 16.0 | 14.7 | 12.3 | - | 13.3 | - | - | - | - | - | - |
| 2014 | - | 11.2 | 13.7 | 14.4 | 14.4 | - | - | 12.6 | - | - | - | - | - | - |
| 2015 | - | 9.8 | 10.5 | 11.4 | 12.5 | - | - | 10.4 | - | - | - | - | - | - |
| 2016 | - | 9.6 | 10.8 | - | - | - | - | 9.9 | - | - | - | - | - | - |
| $2017{ }^{\text {b/ }}$ | - | 10.5 | 12.8 | - | - | - | - | 11.8 | - | - | - | - | - | - |
| Total Statew ide ${ }^{\text {a/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | - | - | - | - | - | - |
| 2001-2005 | 11.1 | 12.1 | 13.1 | 12.7 | 13.4 | 13.0 | 13.8 | 12.7 | - | - | - | - | - | - |
| 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 | - | 11.6 | 13.1 | 13.2 | 13.5 | 12.5 | 13.7 | 12.7 | - | - | - | - | - | - |
| 2014 | - | 11.2 | 13.7 | 13.8 | 14.9 | 13.5 | 13.7 | 13.4 | - | - | - | - | - | - |
| 2015 | - | 10.0 | 10.6 | 11.0 | 12.7 | 11.8 | 11.8 | 10.8 | - | - | - | - | - | - |
| 2016 | - | 9.6 | 10.6 | - | 12.5 | 11.6 | 12.5 | 11.2 | - | - | - | - | - | - |
| $\underline{2017}{ }^{\text {b/ }}$ | - | 10.5 | 12.8 | - | 11.8 | 11.6 | 12.5 | 11.7 | - | - | - | - | - | - |

b/ Preliminary.

TABLE D-2. Oregon monthly troll Chinook and coho average dressed weights (pounds).

| 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 |
| 2001-2005 | 10.2 | 10.3 | 10.8 | 10.3 | 10.5 | 10.7 | 9.8 | 10.3 | 13.8 | 13.2 | 10.5 |
| 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 | - | 9.9 | 11.2 | 12.3 | 12.6 | 12.2 | 10.5 | 10.8 | 12.2 | - | 11.5 |
| 2014 | - | 12.2 | 12.5 | 11.7 | 13.1 | 12.5 | 11.3 | 13.2 | 12.6 | - | 12.4 |
| 2015 | - | 10.9 | 10.4 | 11.1 | 12.1 | 12.4 | 12.1 | 13.9 | 11.9 | - | 11.4 |
| 2016 | - | 11.7 | 11.5 | 11.4 | 12.6 | 13.1 | 13.1 | 14.4 | 12.6 | - | 12.3 |
| $2017{ }^{\text {a/ }}$ | - | 13.8 | 11.4 | 11.8 | 12.1 | 13.3 | 12.6 | 13.0 | 11.1 | - | 12.1 |
|  | 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 |
| 2001-2005 | - | - | - | - | 5.3 | 6.9 | 7.2 | - | - | - | 5.6 |
| 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 | - | - | - | - | 5.6 | 5.5 | 6.9 | - | - | - | 5.9 |
| 2014 | - | - | - | - | 4.7 | 5.0 | 6.9 | - | - | - | 6.1 |
| 2015 | - | - | - | - | 4.8 | 4.8 | 5.2 | - | - | - | 5.1 |
| 2016 | - | - | - | - | - | - | - | - | - | - | - |
| $2017{ }^{\text {a/ }}$ | - | - | - | - | 5.4 | 5.8 | 6.3 | - | - | - | 6.0 |

a/ Preliminary.

| Year | May |  | June |  | July |  | Aug. |  | Sept. |  | Oct. |  | Season |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Treaty Indian | NonIndian | Treaty Indian | NonIndian | Treaty Indian | NonIndian | Treaty Indian | NonIndian | Treaty Indian | NonIndian | Treaty Indian | NonIndian | Treaty Indian ${ }^{\text {b/ }}$ | NonIndian |
| CHINOOK |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 ${ }^{\text {c/ }}$ | 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 | 8.4 | 11.2 | 8.5 | 12.0 | 7.1 | 12.3 | 8.4 | 11.0 | 7.5 | 10.7 | - | - | 8.5 | 11.5 |
| 2001-2005 | 9.5 | 11.3 | 10.7 | 12.6 | 13.5 | 15.0 | 14.2 | 15.4 | 11.9 | 13.6 | - | - | 11.4 | 13.2 |
| 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 | 10.9 | 13.6 | 11.9 | 14.7 | 8.6 | 11.9 | - | - | 9.5 | 11.8 |
| 2013 | 7.6 | 9.6 | 7.9 | 10.5 | 12.1 | 12.4 | 13.1 | 13.0 | 10.5 | 12.2 | - | - | 9.3 | 11.2 |
| 2014 | 8.3 | 10.9 | 9.9 | 12.6 | 12.0 | 13.1 | 11.1 | 13.4 | 9.1 | 12.8 | - | - | 10.1 | 12.0 |
| 2015 | 7.6 | 9.8 | 8.1 | 10.9 | 12.7 | 12.6 | 12.4 | 12.3 | 12.5 | 13.1 | - | - | 9.9 | 11.3 |
| 2016 | 7.7 | 10.2 | 9.7 | 11.6 | 9.7 | 13.2 | 8.6 | 13.3 | 9.8 | - | - | - | 9.3 | 11.6 |
| 2017 | 5.8 | 9.3 | 6.3 | 10.0 | 8.5 | 10.8 | 9.3 | 12.0 | 7.8 | 12.3 | - | - | 8.1 | 10.2 |
|  | COHO |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 2001-2005 | 7.0 | - | 4.8 | - | 5.1 | 6.4 | 6.3 | 6.4 | 6.1 | 7.1 | - | - | 5.9 | 6.3 |
| 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 | 5.0 | - | 9.6 | - | 5.0 | 4.2 | 5.3 | 5.2 | 5.2 | 6.2 | - | - | 5.2 | 5.4 |
| 2013 | - | - | 9.4 | - | 4.5 | 4.5 | 4.9 | 5.4 | 7.0 | 6.5 | - | - | 5.1 | 5.2 |
| 2014 | - | - | 6.0 | - | 5.4 | 5.0 | 5.6 | 5.6 | 5.9 | 6.3 | - | - | 5.6 | 5.7 |
| 2015 | - | - | 7.0 | - | 5.3 | 4.9 | 5.0 | 5.4 | 4.6 | 5.6 | - | - | 5.1 | 5.4 |
| 2016 | - |  | - | - | 7.3 | - | 8.0 | - | - | - | - | - | 7.6 | - |
| 2017 | - | - | - | - | 5.2 | 5.0 | 6.1 | 6.8 | 6.0 | 7.3 | - | - | 6.0 | 6.5 | landings from Puget Sound

b/ Season totals include additional winter treaty Indian troll.
c/ In 1994-1996 the non-Indian fishery for Chinook w as closed north of Cape Falcon; how ever, 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. ${ }^{\text {a }}$

| Year | Dressed <br> Pounds <br> Landed (thousands) | Nominal <br> Exvessel Value (\$ thousands) | Vessels Landing Salmon | Vessels with Permits | Nominal <br> Average <br> Exvessel <br> Value/Vessel <br> (dollars) | Real <br> Average Exvessel Value/Vessel (2017 dollars) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1960 | 6,221 | 3,339 | 1,365 | - | 2,446 | 15,848 |
| 1961-1965 | 8,463 | 4,536 | 1,713 | - | 2,652 | 15,569 |
| 1966-1970 | 7,316 | 4,350 | 2,101 | - | 2,084 | 10,676 |
| 1971-1975 | 7,977 | 6,713 | 2,759 | - | 2,409 | 9,519 |
| 1976-1980 | 7,052 | 13,318 | 4,315 | - | 3,102 | 8,638 |
| 1981-1985 | 4,799 | 11,499 | 3,243 | 4,658 | 3,542 | 7,017 |
| 1986-1990 | 8,360 | 21,641 | 2,449 | 3,523 | 8,735 | 14,822 |
| 1991-1995 | 3,523 | 7,478 | 1,244 | 2,754 | 6,149 | 8,842 |
| 1996-2000 | 4,037 | 6,813 | 783 | 1,940 | 8,820 | 11,593 |
| 2001 | 2,409 | 4,773 | 689 | 1,650 | 6,927 | 9,374 |
| 2002 | 5,008 | 7,776 | 708 | 1,586 | 10,982 | 14,636 |
| 2003 | 6,392 | 12,181 | 584 | 1,521 | 20,858 | 27,253 |
| 2004 | 6,230 | 17,895 | 741 | 1,511 | 24,150 | 30,710 |
| 2005 | 4,347 | 12,913 | 680 | 1,477 | 18,990 | 23,395 |
| 2006 | 1,043 | 5,350 | 477 | 1,408 | 11,216 | 13,406 |
| 2007 | 1,525 | 7,902 | 601 | 1,390 | 13,149 | 15,309 |
| 2008 | - | - | - | 1,306 | - | - |
| 2009 | - | - | - | 1,281 | - | - |
| 2010 | 228 | 1,246 | 215 | 1,239 | 5,794 | 6,487 |
| 2011 | 992 | 5,133 | 464 | 1,188 | 11,062 | 12,135 |
| 2012 | 2,530 | 13,521 | 616 | 1,172 | 21,950 | 23,643 |
| 2013 | 3,793 | 23,632 | 671 | 1,163 | 35,219 | 37,333 |
| 2014 | 2,253 | 12,521 | 653 | 1,135 | 19,175 | 19,968 |
| 2015 | 1,188 | 8,347 | 587 | 1,131 | 14,219 | 14,648 |
| 2016 | 615 | 5,312 | 438 | 1,105 | 12,129 | 12,337 |
| $2017{ }^{\text {b/ }}$ | 496 | 4,915 | 398 | 1,084 | 12,349 | 12,349 |

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. ${ }^{\text {a }}$

| Year | Dressed <br> Pounds <br> Landed (thousands) | Nominal <br> Exvessel Value (\$ thousands) | Vessels Landing Salmon | Vessels w ith <br> Permits | Nominal <br> Average <br> Exvessel Value/Vessel (dollars) | Real Average Exvessel Value/Vessel (2017 dollars) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| 1974 | - | 7,937 | 2,253 |  | 3,523 | 13,020 |
| 1975 | - | 5,808 | 2,304 | - | 2,521 | 8,512 |
| 1976-1980 ${ }^{\text {b/ }}$ | 6,679 | 8,185 | 3,875 | 4,314 | 2,112 | 5,013 |
| 1981-1985 ${ }^{\text {c/d } /}$ | 2,969 | 5,774 | 2,050 | 2,993 | 2,817 | 5,184 |
| 1986-1990 | 5,688 | 6,641 | 1,557 | 2,528 | 4,265 | 6,695 |
| 1991-1995 ${ }^{\text {/ }}$ | 1,265 | 3,294 | 476 | 1,465 | 6,920 | 9,619 |
| 1996-2000 | 1,428 | 3,063 | 399 | 1,062 | 7,677 | 9,814 |
| 2001/ | 2,949 | 4,721 | 449 | 1,175 | 10,515 | 14,228 |
| 2002 ${ }^{\text {// }}$ | 3,498 | 5,391 | 468 | 1,175 | 11,519 | 15,352 |
| 2003 ${ }^{\text {// }}$ | 3,681 | 7,222 | 494 | 1,178 | 14,620 | 19,103 |
| 2004 ${ }^{\text {// }}$ | 2,920 | 9,919 | 595 | 1,181 | 16,670 | 21,199 |
| 2005 ${ }^{\text {// }}$ | 2,691 | 8,503 | 565 | 1,168 | 15,050 | 18,541 |
| 2006 ${ }^{\text {/ }}$ | 499 | 2,701 | 357 | 1,127 | 7,565 | 9,042 |
| 2007 | 565 | 2,822 | 436 | 1,009 | 6,473 | 7,536 |
| 2008 | 70 | 494 | 138 | 1,092 | 3,579 | 4,087 |
| 2009 | 146 | 345 | 225 | 1,062 | 1,531 | 1,735 |
| 2010 | 513 | 2,791 | 370 | 1,021 | 7,543 | 8,445 |
| 2011 | 404 | 2,401 | 304 | 1,003 | 7,899 | 8,665 |
| 2012 | 745 | 4,271 | 369 | 990 | 11,576 | 12,469 |
| 2013 | 1,293 | 7,611 | 399 | 977 | 19,075 | 20,220 |
| 2014 | 2,639 | 14,760 | 493 | 977 | 29,938 | 31,176 |
| 2015 | 1,200 | 7,334 | 488 | 980 | 15,028 | 15,481 |
| 2016 | 518 | 4,261 | 313 | 972 | 13,613 | 13,847 |
| $2017{ }^{\text {g/ }}$ | 267 | 2,129 | 177 | 955 | 12,031 | 12,031 |

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 w aived 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 betw een 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.
$\mathrm{f} /$ Permits w ere 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. ${ }^{\text {a/ }}$

| Year | Dressed <br> Pounds <br> Landed <br> (thousands) | Nominal <br> Exvessel Value (\$ thousands) | Vessels Landing Salmon | $\begin{gathered} \text { Vessels } \\ \text { w ith } \\ \text { Permits } \\ \hline \end{gathered}$ | Nominal <br> Average <br> Exvessel Value/Vessel (dollars) | Real Average Exvessel Value/Vessel (2017 dollars) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| 1978 | 4,746 | 10,025 | 3,041 | 3,291 | 3,297 | 9,248 |
| 1979 | 5,262 | 15,091 | 2,778 | 3,068 | 5,432 | 14,068 |
| 1980 | 3,398 | 7,114 | 2,626 | 2,797 | 2,709 | 6,430 |
| 1981-1985 ${ }^{\text {b/c/ }}$ | 1,433 | 3,225 | 1,675 | 2,233 | 1,696 | 3,434 |
| 1986-1990 | 752 | 1,670 | 913 | 1,349 | 1,997 | 3,362 |
| 1991-1995 ${ }^{\text {d/efl } / \mathrm{g} /}$ | 345 | 834 | 397 | 586 | 1,607 | 2,352 |
| 1996-2000 ${ }^{\text {hijij }}$ | 126 | 197 | 54 | 270 | 4,188 | 5,489 |
| 2001 | 290 | 383 | 57 | 169 | 6,718 | 9,090 |
| 2002 | 679 | 758 | 75 | 165 | 10,102 | 13,463 |
| 2003 | 875 | 991 | 82 | 163 | 12,087 | 15,793 |
| 2004 | 594 | 1,185 | 86 | 160 | 13,779 | 17,522 |
| 2005 | 481 | 1,290 | 91 | 158 | 14,170 | 17,458 |
| 2006 | 231 | 1,045 | 84 | 158 | 12,440 | 14,870 |
| 2007 | 217 | 953 | 79 | 158 | 12,062 | 14,044 |
| 2008 | 114 | 709 | 86 | 158 | 8,244 | 9,414 |
| 2009 | 291 | 1,169 | 97 | 158 | 12,051 | 13,658 |
| 2010 | 537 | 3,115 | 116 | 158 | 26,856 | 30,068 |
| 2011 | 339 | 1,687 | 112 | 158 | 15,066 | 16,527 |
| 2012 | 452 | 2,358 | 105 | 158 | 22,457 | 24,189 |
| 2013 | 481 | 2,838 | 108 | 157 | 26,275 | 27,851 |
| 2014 | 551 | 2,709 | 116 | 156 | 23,351 | 24,316 |
| 2015 | 640 | 3,448 | 122 | 153 | 28,266 | 29,119 |
| 2016 | 201 | 1,606 | 107 | 151 | 15,009 | 15,267 |
| 2017 | 343 | 2,919 | 108 | 155 | 27,031 | 27,031 |

a/ Derived from vessel registrations and fish landing tickets. All values in this table are based on preliminary information available at the start of each year's salmon review.
b/ 312 licenses and delivery permits purchased by buyback program in 1984.
c/ 118 licenses and delivery permits purchased by buyback program in 1985.
d/ The 1994 season w as 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 w ere not required to purchase a permit in 1994 to maintain their eligibility for a permit in 1995.
g/ 190 licenses and delivery permits purchased by buyback program in 1995.
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. ${ }^{\text {al }}$ (Page 1 of 5)

| Year | Vessels |  |  | Catch ${ }^{\text {c/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length Category (feet) | Number ${ }^{\text {b/ }}$ | Percent of Total | Pounds Per <br> Vessel | Total (pounds) | Percent of Total |
| $2017{ }^{\text {d/ }}$ | <20 | 31 | 8\% | 432 | 13,403 | 3\% |
|  | 21-25 | 93 | 23\% | 774 | 72,003 | 15\% |
|  | 26-30 | 68 | 17\% | 919 | 62,491 | 13\% |
|  | 31-35 | 90 | 23\% | 1,292 | 116,241 | 23\% |
|  | 36-40 | 58 | 15\% | 1,900 | 110,197 | 22\% |
|  | 41-45 | 35 | 9\% | 2,408 | 84,274 | 17\% |
|  | 46-50 | 18 | 5\% | 1,991 | 35,836 | 7\% |
|  | 51-55 | 5 | 1\% | 395 | 1,976 | 0\% |
|  | >56 | e/ | e/ | e/ | e/ | e/ |
|  | TOTAL | 398 |  | 1,247 | 496,421 |  |
| 2016 | <20 | 20 | 5\% | 924 | 18,480 | 3\% |
|  | 21-25 | 96 | 22\% | 821 | 78,851 | 13\% |
|  | 26-30 | 78 | 18\% | 1,108 | 86,397 | 14\% |
|  | 31-35 | 102 | 23\% | 1,426 | 145,463 | 24\% |
|  | 36-40 | 74 | 17\% | 1,963 | 145,229 | 24\% |
|  | 41-45 | 37 | 8\% | 2,557 | 94,623 | 15\% |
|  | 46-50 | 23 | 5\% | 1,663 | 38,239 | 6\% |
|  | 51-55 | 5 | 1\% | 1,313 | 6,565 | 1\% |
|  | >56 | 3 | 1\% | 493 | 1,479 | 0\% |
|  | TOTAL | 438 |  | 1,405 | 615,326 |  |
| 2015 | <20 | 35 | 6\% | 484 | 16,928 | 1\% |
|  | 21-25 | 119 | 20\% | 1,146 | 136,353 | 11\% |
|  | 26-30 | 93 | 16\% | 1,592 | 148,075 | 12\% |
|  | 31-35 | 128 | 22\% | 1,908 | 244,190 | 21\% |
|  | 36-40 | 99 | 17\% | 2,878 | 284,969 | 24\% |
|  | 41-45 | 62 | 11\% | 3,706 | 229,802 | 19\% |
|  | 46-50 | 34 | 6\% | 2,560 | 87,029 | 7\% |
|  | 51-55 | 11 | 2\% | 1,812 | 19,933 | 2\% |
|  | $>56$ | 6 | 1\% | 3,460 | 20,761 | 2\% |
|  | TOTAL | 587 |  | 2,024 | 1,188,040 |  |
| 2014 | <20 | 39 | 6\% | 554 | 21,622 | 1\% |
|  | 21-25 | 117 | 18\% | 1,669 | 195,278 | 9\% |
|  | 26-30 | 106 | 16\% | 1,999 | 211,870 | 9\% |
|  | 31-35 | 139 | 21\% | 3,792 | 527,109 | 23\% |
|  | 36-40 | 109 | 17\% | 5,152 | 561,516 | 25\% |
|  | 41-45 | 81 | 12\% | 5,836 | 472,719 | 21\% |
|  | 46-50 | 41 | 6\% | 4,298 | 176,231 | 8\% |
|  | 51-55 | 13 | 2\% | 4,256 | 55,324 | 2\% |
|  | >56 | 8 | 1\% | 3,958 | 31,660 | 1\% |
|  | TOTAL | 653 |  | 3,451 | 2,253,329 |  |
| 2013 | <20 | 41 | 6\% | 1,429 | 58,595 | 2\% |
|  | 21-25 | 121 | 18\% | 2,082 | 251,950 | 7\% |
|  | 26-30 | 113 | 17\% | 2,792 | 315,498 | 8\% |
|  | 31-35 | 128 | 19\% | 5,147 | 658,858 | 17\% |
|  | 36-40 | 111 | 17\% | 7,490 | 831,408 | 22\% |
|  | 41-45 | 89 | 13\% | 10,578 | 941,458 | 25\% |
|  | 46-50 | 51 | 8\% | 10,696 | 545,502 | 14\% |
|  | 51-55 | 11 | 2\% | 10,361 | 113,969 | 3\% |
|  | >56 | 6 | 1\% | 12,697 | 76,183 | 2\% |
|  | TOTAL | 671 |  | 5,653 | 3,793,421 |  |

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon. ${ }^{\text {a/ }}$ (Page 2 of 5)

| Year | Vessels |  |  | Catch ${ }^{\text {c/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length Category (feet) | Number ${ }^{\text {b/ }}$ | Percent of Total | Average Pounds Per Vessel | Total (pounds) | Percent of Total |
| 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/ | e/ | e/ |
|  | TOTAL | 215 |  | 1,059 | 227,582 |  |
| 2009 | <20 | - | - | - | - | - |
|  | 21-25 | - | - | - | - | - |
|  | 26-30 | - | - | - | - | - |
|  | 31-35 | - | - | - | - | - |
|  | 36-40 | - | - | - | - | - |
|  | 41-45 | - | - | - | - | - |
|  | 46-50 | - | - | - | - | - |
|  | 51-55 | - | - | - | - | - |
|  | >56 | - | - | - | - | - |
|  | TOTAL | - |  | - | - |  |
| 2008 | <20 | - | - | - | - | - |
|  | 21-25 | - | - | - | - | - |
|  | 26-30 | - | - | - | - | - |
|  | 31-35 | - | - | - | - | - |
|  | 36-40 | - | - | - | - | - |
|  | 41-45 | - | - | - | - | - |
|  | 46-50 | - | - | - | - | - |
|  | 51-55 | - | - | - | - | - |
|  | >56 | - | - | - | - | - |
|  | TOTAL | - |  | - | - |  |

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon. ${ }^{\text {a/ }}$ (Page 3 of 5)

| Year | Vessels |  |  | Catch ${ }^{\text {/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length <br> Category (feet) | Number ${ }^{\text {b/ }}$ | Percent of Total | Average Pounds Per Vessel | Total (pounds) | Percent of 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 |  |
| 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 |  |

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon. ${ }^{\text {a/ }}$ (Page 4 of 5)

| Year | Vessels |  |  | Catch ${ }^{\text {c/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length <br> Category (feet) | Number ${ }^{\text {b/ }}$ | $\begin{gathered} \text { Percent of } \\ \text { Total } \\ \hline \end{gathered}$ | Average Pounds Per Vessel | Total (pounds) | $\begin{gathered} \text { Percent of } \\ \text { Total } \\ \hline \end{gathered}$ |
| 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 |  |
| 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 |  |

TABLE D-7. California salmon troll boat-size catch statistics in pounds of dressed salmon. ${ }^{\text {a }}$ (Page 5 of 5)

| Year | Vessels |  |  | Catch ${ }^{\text {/ }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length <br> Category (feet) | Number ${ }^{\text {b/ }}$ | Percent of Total | Average Pounds Per Vessel | Total (pounds) | Percent of Total |
| 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 |  |

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/ Few er 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 5)

|  | Vessels |  |  | Catch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Length Category (feet) | Number ${ }^{\text {a/ }}$ | Percent of Total | Average Per Boat (pounds) | Total (pounds) | Percent of Total |
| 2017 ${ }^{\text {b/ }}$ | <20 | - | - | - | - | - |
|  | 20-29 | 40 | 23\% | 615 | 24,605 | 9\% |
|  | 30-39 | 57 | 32\% | 1,811 | 103,232 | 39\% |
|  | 40-49 | 66 | 38\% | 1,947 | 128,473 | 48\% |
|  | >50 | 13 | 7\% | 813 | 10,564 | 4\% |
|  | TOTAL | 176 |  | 1,516 | 266,874 |  |
| 2016 | <20 | - | - | - | - | - |
|  | 20-29 | 74 | 24\% | 664 | 49,106 | 9\% |
|  | 30-39 | 97 | 31\% | 1,567 | 152,047 | 29\% |
|  | 40-49 | 117 | 37\% | 2,393 | 279,936 | 54\% |
|  | >50 | 25 | 8\% | 1,468 | 36,699 | 7\% |
|  | TOTAL | 313 |  | 1,654 | 517,788 |  |
| 2015 | <20 | 4 | 1\% | 1,066 | 4,265 | 3\% |
|  | 20-29 | 102 | 21\% | 1,094 | 111,553 | 9\% |
|  | 30-39 | 156 | 32\% | 2,133 | 332,726 | 28\% |
|  | 40-49 | 174 | 36\% | 3,395 | 590,784 | 50\% |
|  | >50 | 51 | 10\% | 2,874 | 146,575 | 12\% |
|  | TOTAL | 487 |  | 2,435 | 1,185,903 |  |
| 2014 | <20 | 3 | 1\% | 1,201 | 3,603 | 1\% |
|  | 20-29 | 115 | 23\% | 2,487 | 286,062 | 11\% |
|  | 30-39 | 159 | 32\% | 5,220 | 829,910 | 31\% |
|  | 40-49 | 169 | 34\% | 7,377 | 1,246,690 | 47\% |
|  | >50 | 47 | 10\% | 5,870 | 275,913 | 10\% |
|  | TOTAL | 493 |  | 5,359 | 2,642,178 |  |
| 2013 | <20 | 4 | 1\% | 1,215 | 4,858 | 7\% |
|  | 20-29 | 102 | 26\% | 1,825 | 186,110 | 14\% |
|  | 30-39 | 127 | 32\% | 4,015 | 509,844 | 39\% |
|  | 40-49 | 138 | 35\% | 3,794 | 523,542 | 40\% |
|  | >50 | 28 | 7\% | 2,524 | 70,679 | 5\% |
|  | TOTAL | 399 |  | 3,246 | 1,295,033 |  |
| 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 |  |

TABLED-8. Oregon salmon troll boat-size catch statistics in pounds of dressed salmon. (Page 2 of 5)

| Year | Vessels |  |  | Catch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length Category (feet) | Number ${ }^{\text {a/ }}$ | Percent of Total | Average Per Boat (pounds) | $\begin{gathered} \text { Total } \\ \text { (pounds) } \end{gathered}$ | Percent of Total |
| 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 |  |
| 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 |  |

TABLED-8. Oregon salmon troll boat-size catch statistics in pounds of dressed salmon. (Page 3 of 5)

| Year | Vessels |  |  | Catch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length Category (feet) | Number ${ }^{\text {a/ }}$ | Percent of Total | Average Per Boat (pounds) | $\begin{gathered} \text { Total } \\ \text { (pounds) } \\ \hline \end{gathered}$ | Percent of Total |
| 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 4 of 5)

| Year | Vessels |  |  | Catch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length Category (feet) | Number ${ }^{\text {a/ }}$ | $\begin{gathered} \hline \text { Percent of } \\ \text { Total } \\ \hline \end{gathered}$ | Average Per Boat (pounds) | $\begin{gathered} \text { Total } \\ \text { (pounds) } \end{gathered}$ | 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 |  |

TABLE D-8. Oregon salmon troll boat-size catch statistics in pounds of dressed salmon. (Page 5 of 5)

| Year | Vessels |  |  | Catch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length Category (feet) | Number ${ }^{\text {a/ }}$ | Percent of Total | Average Per <br> Boat (pounds) | Total (pounds) | Percent of Total |
| 1993 | <20 | 10 | 2\% | 662 | 6,619 | 1\% |
|  | 20-29 | 206 | 34\% | 558 | 115,029 | 15\% |
|  | 30-39 | 236 | 39\% | 1,549 | 365,597 | 47\% |
|  | 40-49 | 128 | 21\% | 1,888 | 241,663 | 31\% |
|  | >50 | 32 | 5\% | 1,282 | 41,029 | 5\% |
|  | TOTAL | 612 |  | 1,258 | 769,937 |  |
| 1992 | <20 | 7 | 1\% | 706 | 4,945 | 0\% |
|  | 20-29 | 242 | 37\% | 849 | 205,466 | 17\% |
|  | 30-39 | 245 | 38\% | 2,384 | 584,162 | 48\% |
|  | 40-49 | 134 | 21\% | 2,911 | 390,040 | 32\% |
|  | >50 | 21 | 3\% | 1,630 | 34,231 | 3\% |
|  | TOTAL | 649 |  | 1,878 | 1,218,844 |  |
| 1991 | <20 | 22 | 2\% | 621 | 13,672 | 1\% |
|  | 20-29 | 568 | 47\% | 1,266 | 719,071 | 34\% |
|  | 30-39 | 365 | 30\% | 2,138 | 780,386 | 37\% |
|  | 40-49 | 209 | 17\% | 2,468 | 515,790 | 24\% |
|  | >50 | 53 | 4\% | 1,590 | 84,279 | 4\% |
|  | TOTAL | 1,217 |  | 1,736 | 2,113,198 |  |

a/ Number of boats includes only those $w$ ith at least one landing containing troll-caught salmon.
b/ Preliminary.
c/ Few er 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. ${ }^{2 b /}$ (Page 1 of 3)

| Year | Vessels |  |  | Catch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length <br> Category (feet) | Number ${ }^{\text {c/ }}$ | Percent of Total | $\qquad$ | Total (pounds) | Percent of Total |
| 2017 | <25 | 6 | 6\% | 1,666 | 9,995 | 3\% |
|  | 25-36 | 24 | 22\% | 3,114 | 74,729 | 22\% |
|  | >36 | 78 | 72\% | 3,834 | 258,577 | 75\% |
|  | Unknow n | e/ | e/ | e/ | e/ | e/ |
|  | TOTAL | 108 |  | 3,179 | 343,301 |  |
| 2016 | <25 | 10 | 9\% | 982 | 9,822 | 5\% |
|  | 25-36 | 26 | 24\% | 2,314 | 60,169 | 30\% |
|  | >36 | 71 | 66\% | 1,840 | 130,671 | 65\% |
|  | Unknow n | 0 | 0\% | - | - | 0\% |
|  | TOTAL | 107 |  | 1,875 | 200,662 |  |
| 2015 | <25 | 11 | 9\% | 4,496 | 49,459 | 8\% |
|  | 25-36 | 30 | 25\% | 5,471 | 164,138 | 26\% |
|  | >36 | 81 | 66\% | 6,857 | 427,116 | 67\% |
|  | Unknow n | e/ | e/ | e/ | e/ | e/ |
|  | TOTAL | 122 |  | 5,252 | 640,713 |  |
| 2014 | <25 | 11 | 9\% | 3,456 | 38,021 | 7\% |
|  | 25-36 | 34 | 29\% | 4,772 | 162,253 | 29\% |
|  | >36 | 71 | 61\% | 4,936 | 350,480 | 64\% |
|  | Unknow n | 0 | 0\% | - | - | 0\% |
|  | TOTAL | 116 |  | 4,748 | 550,754 |  |
| 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 0 | - | - | - | - |
|  | TOTAL | 97 |  | 3,012 | 292,186 |  |

TABLE D-9. Washington non-Indian salmon troll boat-size catch statistics in pounds of dressed salmon. ${ }^{\text {abl } / ~(P a g e ~} 2$ of 3)

| Year | Vessels |  |  | Catch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length Category (feet) | Number ${ }^{\text {c/ }}$ | Percent of Total | Average Pounds Per Vessel | Total (pounds) | Percent of Total |
| 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | e/ | e/ | e/ | e/ | e/ |
|  | TOTAL | 91 |  | 5,281 | 480,570 |  |
| 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 4 | 8\% | 2,573 | 10,291 | 6\% |
|  | TOTAL | 49 |  | 3,312 | 162,300 |  |

TABLE D-9. Washington non-Indian salmon troll boat-size catch statistics in pounds of dressed salmon. ${ }^{\text {abl } / ~(P a g e ~} 3$ of 3)

| Year | Vessels |  |  | Catch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length <br> Category (feet) | Number ${ }^{\text {c/ }}$ | Percent of Total | Average Pounds Per Vessel | Total (pounds) | Percent of Total |
| 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 7 | 8\% | 1,861 | 13,029 | 15\% |
|  | TOTAL | 90 |  | 988 | 88,959 |  |
| 1995 | <25 | 45 | 47\% | 1,864 | 83,901 | 36\% |
|  | 25-36 | 30 | 31\% | 2,936 | 88,083 | 38\% |
|  | >36 | 17 | 18\% | 2,950 | 50,144 | 22\% |
|  | Unknow n | 4 | 4\% | 2,351 | 9,403 | 4\% |
|  | TOTAL | 96 |  | 2,412 | 231,531 |  |
| $1994{ }^{\text {d/ }}$ | <25 | 0 | - | - | - | - |
|  | 25-36 | 0 | - | - | - | - |
|  | >36 | e/ | e/ | e/ | e/ | e/ |
|  | Unknow n | 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\% |
|  | Unknow n | 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\% |
|  | Unknow n | 26 | 4\% | 956 | 24,848 | 4\% |
|  | TOTAL | 604 |  | 965 | 582,714 |  |

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 w as closed north of Cape Falcon, how ever, Chinook w ere caught off Oregon and landed in Puget Sound.
e/ Few er 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, 2017.

| Port | Length Category (feet) | Number of Deliveries | Total Dressed Pounds Landed | Total Exvessel Value (dollars) | Percent Exvessel Value Landed in Port |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Crescent City | <26 | - | - | - | - |
|  | 26-36 | - | - | - | - |
|  | >36 | - | - | - | - |
|  | TOTAL | - | - | - |  |
| Eureka | <26 | - | - | - | - |
|  | 26-36 | a/ | a/ | a/ | a/ |
|  | >36 | 12 | 3,215 | 31,299 | 100\% |
|  | TOTAL | 12 | 3,215 | 31,299 |  |
| Shelter Cove | <26 | 3 | 170 | 1,628 | 100\% |
|  | 26-36 | - | - | - | - |
|  | >36 | - | - | - | - |
|  | TOTAL | 3 | 170 | 1,628 |  |
| Fort Bragg ${ }^{\text {b/ }}$ | <26 | 12 | 1,218 | 11,059 | 3\% |
|  | 26-36 | 66 | 6,918 | 67,596 | 20\% |
|  | >36 | 72 | 28,468 | 266,918 | 77\% |
|  | TOTAL | 150 | 36,604 | 345,573 |  |
| Bodega Bay | <26 | 177 | 19,049 | 180,349 | 14\% |
|  | 26-36 | 348 | 57,702 | 535,170 | 43\% |
|  | >36 | 158 | 57,653 | 532,752 | 43\% |
|  | TOTAL | 683 | 134,404 | 1,248,271 |  |
| San Francisco | <26 | 206 | 14,492 | 146,278 | 14\% |
|  | 26-36 | 162 | 35,007 | 325,509 | 31\% |
|  | >36 | 164 | 63,889 | 589,705 | 56\% |
|  | TOTAL | 532 | 113,388 | 1,061,492 |  |
| Half Moon Bay | <26 | 65 | 4,170 | 42,048 | 6\% |
|  | 26-36 | 135 | 26,193 | 305,066 | 43\% |
|  | $>36$ | 143 | 37,535 | 362,923 | 51\% |
|  | TOTAL | 343 | 67,898 | 710,037 |  |
| Santa Cruz | <26 | 164 | 9,577 | 108,166 | 28\% |
|  | 26-36 | 109 | 11,288 | 125,010 | 33\% |
|  | $>36$ | 54 | 13,826 | 151,125 | 39\% |
|  | TOTAL | 327 | 34,691 | 384,301 |  |
| Moss Landing | <26 | 237 | 15,856 | 178,189 | 28\% |
|  | 26-36 | 286 | 23,522 | 250,882 | 39\% |
|  | >36 | 135 | 20,573 | 215,743 | 33\% |
|  | TOTAL | 658 | 59,951 | 644,814 |  |
| Monterey | <26 | 112 | 7,242 | 74,836 | 42\% |
|  | 26-36 | 134 | 10,520 | 103,383 | 58\% |
|  | >36 | a/ | a/ | a/ | a/ |
|  | TOTAL | 246 | 17,762 | 178,219 |  |
| Morro Bay south | <26 | 154 | 13,631 | 146,975 | 48\% |
|  | 26-36 | 109 | 8,617 | 95,500 | 31\% |
|  | >36 | 50 | 6,088 | 66,666 | 22\% |
|  | TOTAL | 313 | 28,336 | 309,141 |  |

a/ Few er 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 2017 Washington non-Indian troll salmon landings (in pounds of dressed salmon) and exvessel value by vessel size category and port area. ${ }^{\text {ab/ }}$

| Port Area | Length Category (feet) | Number of Boats | Number of Boat Days Fished | Total Dressed Pounds Landed | Total Exvessel Value (dollars) | Percent Exvesse Value Landed in Port |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Neah Bay | $<25$ | c/ | c/ | c/ | c/ | c/ |
|  | 25-36 | 7 | 78 | 12,219 | 70,691 | 15\% |
|  | >36 | 27 | 390 | 58,895 | 414,964 | 85\% |
|  | Unknow n | - | - | - | - |  |
|  | TOTAL | 34 | 468 | 71,114 | 485,655 |  |
| La Push | <25 | 3 | 4 | 301 | 1,920 | 1\% |
|  | 25-36 | 4 | 104 | 14,325 | 85,019 | 56\% |
|  | >36 | 9 | 83 | 8,961 | 64,809 | 43\% |
|  | Unknow n | - | - | - | - | - |
|  | TOTAL | 16 | 191 | 23,587 | 151,747 |  |
| Westport | <25 | 3 | 61 | 5,948 | 57,149 | 3\% |
|  | 25-36 | 17 | 403 | 50,991 | 459,463 | 21\% |
|  | >36 | 55 | 1,149 | 185,114 | 1,709,605 | 77\% |
|  | Unknow n | c/ | c/ | c/ | c/ |  |
|  | TOTAL | 75 | 1,613 | 242,053 | 2,226,217 |  |
| Ilw aco | <25 | - | - | - | - | - |
|  | 25-36 | 3 | 11 | 941 | 8,788 | 16\% |
|  | >36 | 13 | 78 | 5,608 | 46,939 | 84\% |
|  | Unknow n | c/ | c/ | c/ | c/ |  |
|  | TOTAL | 16 | 89 | 6,549 | 55,727 |  |
| Puget Sound ${ }^{\text {d/ }}$ | <25 | - | - | - | - | - |
|  | 25-36 | - | - | - | - | - |
|  | >36 | - | - | - | - | - |
|  | Unknow n | - | - | - | - | - |
|  | TOTAL | - | - | - | - |  |

[^8]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 | 671 | 103 | 15.4\% | 328 | 48.9\% |
| 2014 | 653 | 98 | 15.0\% | 306 | 46.9\% |
| 2015 | 587 | 86 | 14.7\% | 291 | 49.6\% |
| 2016 | 438 | 61 | 13.9\% | 215 | 49.1\% |
| $2017^{\text {a }}$ | 398 | 51 | 12.8\% | 192 | 48.2\% |

a/ Preliminary.

TABLE D-13. Oregon number of vessels landing 50 percent and 90 percent of total pounds of salmon troll catch by year. ${ }^{a /}$

| Year | Total Vessels | 50\% of Pounds Landed |  | 90\% of Pounds Landed |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number of Vessels | Percent of Fleet | Number of Vessels | Percent of Fleet |
| 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 | 399 | 52 | 13.0\% | 158 | 39.6\% |
| 2014 | 493 | 63 | 12.8\% | 184 | 37.3\% |
| 2015 | 487 | 75 | 15.4\% | 250 | 51.3\% |
| 2016 | 313 | 36 | 11.5\% | 134 | 42.8\% |
| $2017^{\text {b/ }}$ | 176 | 22 | 12.5\% | 81 | 46.0\% |

$\mathrm{a} /$ 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. ${ }^{\text {a/ }}$

| 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\% |
| $1994{ }^{\text {b/ }}$ | <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\% |
| 2014 | 116 | 31 | 26.7\% | 79 | 68.1\% |
| 2015 | 122 | 31 | 25.4\% | 80 | 65.6\% |
| 2016 | 107 | 29 | 27.1\% | 75 | 70.1\% |
| 2017 | 108 | 25 | 23.1\% | 70 | 64.8\% |

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 w as closed north of Cape Falcon; how ever, Chinook w ere caught off Oregon and landed in Puget Sound.
Values omitted to preserve confidentiality.

TABLE D-15. Preliminary 2017 California, Oregon, and Washington troll fleet by home state and salmon landings and exvessel value. ${ }^{\text {a }}$


[^9]| Year | Home State ${ }^{\text {a/ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | California (length) |  |  | Subtotal | Oregon (length) |  |  | Subtotal | Washington (length) |  |  | Subtotal | Total (length) ${ }^{\text {b/ }}$ |  |  | Grand Total ${ }^{\text {l }}$ |
|  | <26 | 26-36 | >36 |  | <26 | 26-36 | $>36$ |  | <26 | 26-36 | >36 |  | <26 | 26-36 | >36 |  |
| $81-85^{\text {d/ }}$ | 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 | 143 | 229 | 317 | 689 |
| 2002 | 153 | 229 | 285 | 667 | 1 | 3 | 28 | 32 | 2 | 0 | 4 | 6 | 157 | 233 | 318 | 708 |
| 2003 | 126 | 201 | 230 | 557 | 0 | 2 | 16 | 18 | 0 | 0 | 5 | 5 | 126 | 205 | 253 | 584 |
| 2004 | 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 | 158 | 233 | 243 | 634 | 1 | 3 | 16 | 20 | 1 | 1 | 9 | 11 | 162 | 241 | 268 | 671 |
| 2014 | 151 | 237 | 235 | 623 | 1 | 3 | 9 | 13 | 1 | 1 | 6 | 8 | 156 | 245 | 252 | 653 |
| 2015 | 149 | 209 | 188 | 546 | 2 | 4 | 13 | 19 | 1 | 1 | 8 | 10 | 154 | 221 | 212 | 587 |
| 2016 | 114 | 173 | 132 | 419 | 0 | 2 | 2 | 4 | 1 | 1 | 7 | 9 | 116 | 180 | 142 | 438 |
| $2017{ }^{\text {e/ }}$ | 122 | 152 | 106 | 380 | 1 | 1 | 3 | 5 | 1 | 1 | 5 | 7 | 124 | 158 | 116 | 398 |

a/ "Home state" refers to the declared state of residence of vessel skipper, who, in most cases, is also the vessel ow ner.
b/ Includes vessels with home states other than California, Oregon, and Washington.
c/ Includes vessels of unknow n lengths.
d/ Length category for 1982 is $\geq 36$.
e/ Preliminary.

TABLE D-17. Percentages of vessels landing troll salmon in Oregon by license holder's state of residence.

| Year | Oregon | California | Washington | Other/Unknow n |
| :---: | :---: | :---: | :---: | :---: |
| 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 | 79.4\% | 8.5\% | 11.0\% | 1.0\% |
| 2014 | 73.2\% | 14.4\% | 11.0\% | 1.4\% |
| 2015 | 70.1\% | 12.9\% | 13.9\% | 3.1\% |
| 2016 | 76.4\% | 6.6\% | 14.1\% | 2.9\% |
| $2017^{\text {a }}$ | 74.4\% | 8.0\% | 12.5\% | 5.1\% |

a/ Preliminary.

TABLE D-18. Percentages of vessels landing non-Indian troll salmon in Washington by license holder's state of residence. ${ }^{\text {al }}$

| Year | Washington | Oregon | California | Alaska | Other/Unknow n |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 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\% |
| $1994{ }^{\text {b/ }}$ | 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\% |
| 2014 | 94.0\% | 6.0\% | 0.0\% | 0.0\% | 0.0\% |
| 2015 | 86.1\% | 10.7\% | 0.8\% | 0.0\% | 2.5\% |
| 2016 | 89.7\% | 9.3\% | 0.0\% | 0.0\% | 0.9\% |
| 2017 | 86.1\% | 10.2\% | 1.9\% | 0.0\% | 1.9\% |

a/ All values in this table are based on preliminary information available at the start of each year's review .
b/ The fishery was closed north of Cape Falcon; how ever, Chinook w ere 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 ${ }^{\text {a }}$ | Port Area |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | San |  |  | Crescent |  |  |
|  |  | Monterey | Francisco | Fort Bragg | Eureka | City | Total |
| $2017{ }^{\text {b/ }}$ | Active | 0 | 35 | 0 | - | - | 35 |
|  | Casual | 11 | 31 | 13 | - | - | 55 |
|  | TOTAL | 11 | 66 | 13 | - | - | 90 |
| 2016 | Active | 0 | 28 | 5 | 5 | 0 | 38 |
|  | Casual | 12 | 41 | 11 | 5 | 2 | 71 |
|  | TOTAL | 12 | 69 | 16 | 10 | 2 | 109 |
| 2015 | Active | 0 | 31 | 5 | 5 | 0 | 41 |
|  | Casual | 17 | 44 | 7 | 8 | 2 | 78 |
|  | TOTAL | 17 | 75 | 12 | 13 | 2 | 119 |
| 2014 | Active | 10 | 39 | 10 | 9 | 0 | 68 |
|  | Casual | 10 | 34 | 3 | 4 | 2 | 53 |
|  | TOTAL | 20 | 73 | 13 | 13 | 2 | 121 |
| 2013 | Active | 5 | 44 | 9 | 10 | 0 | 68 |
|  | Casual | 11 | 25 | 3 | 3 | 1 | 43 |
|  | TOTAL | 16 | 69 | 12 | 13 | 1 | 111 |
| 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 |

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 ${ }^{\text {a/ }}$ | 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 |
| $1990{ }^{\text {b/ }}$ | 170 | 157 | 9 | 4 |
| 1991 | 171 | 161 | 7 | 3 |
| 1992 | 157 | 150 | 4 | 3 |
| 1993 | 148 | 144 | 2 | 2 |
| 1994 | 145 | 137 | 6 | 2 |
| 1995 | 134 | NA | NA | NA |
| 1996 | 127 | 121 | 6 | 0 |
| 1997 | 122 | 119 | 3 | 0 |
| 1998 | 129 | 125 | 4 | 0 |
| 1999 | 137 | 133 | 4 | 0 |
| 2000 | 143 | 139 | 4 | 0 |
| 2001 | 172 | 162 | 10 | 0 |
| 2002 | 181 | 172 | 9 | 0 |
| 2003 | 206 | 186 | 19 | 1 |
| 2004 | 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 |
| $2013{ }^{\text {c/ }}$ | NA | NA | NA | NA |
| 2014 | 64 | 60 | 4 | 0 |
| 2015 | 69 | 46 | 6 | 17 |
| 2016 | 69 | 41 | 8 | 20 |
| 2017 | 72 | 42 | 8 | 22 |

a/ Legislation that created the license requirement expired in 1987. Annual license fees w ere betw een $\$ 25$ and $\$ 100$ from 1980-1987. The license requirement $w$ as reinstituted by rule in 1988 and 1989 w ith 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 betw een $\$ 50$ and $\$ 100$.
c/ Beginning in 2013, only vessels of over 6 passengers with a valid USCG Certificate of Inspection can obtain an Oregon Charter Boat License due to change in Oregon law. Smaller vessels, previously included as charter boats, are categorized as guides/outfitters.

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

| Year | Number of Licenses Issued | Washington Resident License Holders | Other State Resident License Holders | Buyback |
| :---: | :---: | :---: | :---: | :---: |
| 1975 | 404 | 351 | 53 | - |
| 1976 | 427 | 362 | 65 | - |
| $1977{ }^{\text {a/ }}$ | 569 | NA | NA | - |
| 1978 | 535 | 483 | 52 | - |
| 1979 | 516 | 473 | 43 | - |
| 1980 | 510 | 465 | 45 | 16 |
| 1981 | 478 | 443 | 35 | 3 |
| 1982 | 415 | 387 | 28 | 25 |
| 1983 | 375 | 354 | 21 | 19 |
| 1984 | 334 | 313 | 21 | 21 |
| 1985 | 288 | 268 | 20 | 19 |
| 1986 | 308 | 286 | 22 | 15 |
| 1987 | 280 | 269 | 11 | - |
| 1988 | 281 | 268 | 13 | - |
| 1989 | 276 | 263 | 13 | - |
| 1990 | 273 | 258 | 15 | - |
| 1991 | 267 | 251 | 16 | - |
| 1992 | 269 | 252 | 17 | - |
| 1993 | 265 | 250 | 15 | - |
| 1994 | 260 | 245 | 15 | - |
| 1995 | 231 | 217 | 14 | 23 |
| 1996 | 210 | 199 | 9 | 18 |
| 1997 | 210 | 197 | 13 | 0 |
| 1998 | 198 | 188 | 10 | 20 |
| 1999 | 180 | 172 | 8 | 0 |
| 2000 | 143 | 139 | 4 | 37 |
| 2001 | 142 | 137 | 5 | 0 |
| 2002 | 138 | 134 | 4 | 0 |
| 2003 | 140 | 137 | 3 | 0 |
| 2004 | 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 | 142 | 137 | 5 | 0 |
| 2014 | 141 | 138 | 3 | 0 |
| 2015 | 142 | 139 | 3 | 0 |
| 2016 | 142 | 138 | 4 | 0 |
| $\underline{2017}{ }^{\text {b/ }}$ | 142 | 139 | 3 | 0 |

[^10]TABLE D-22. Price index. ${ }^{\text {a/ }}$



[^0]:    ${ }^{1}$ A recent changeover in methodology from FEAM-based to IO-PAC-based income impact multipliers means that comparisons of annual income impacts for years prior to 2010 with later years are not meaningful. Consequently, any comparisons of income impacts in this document are confined to describing trends appearing since 2009, during which period the IO-PAC-based models and multipliers were applied. See Appendix E of the Review of 2014 Ocean Salmon Fisheries for a more detailed explanation of the change in income impact modeling methodology.

[^1]:    ${ }^{2}$ Numbers of fish are from Table A-15, average weights are from Table D-3, and revenue values are based on January 19, 2018 PacFIN data.

[^2]:    ${ }^{3}$ Because income impact refers to income "associated with" a given level of economic activity, the term impact in this context should not be confused with the term impact as frequently employed in policy analyses such as those required by the National Environmental Policy Act. Such policy analyses refer to impact as the effect (the difference) which results from taking an action (as compared to not taking the action). Income impacts are one of a number of different but related measures of total economic activity (e.g. income impacts, gross receipts, total jobs, etc.).

[^3]:    ${ }^{4}$ Income impact estimates for the commercial fishery do not include postseason settlement payments fishers may have received from buyers. In certain years postseason settlements have been particularly significant in the California fishery.

[^4]:    a/ Includes minor effort off Oregon for fish landed in California prior to 1986.
    b/ Preliminary.

[^5]:    a/ Includes minor catches made off Oregon and landed in California prior to 2005

[^6]:    $\stackrel{\rightharpoonup}{ } \quad$ b/ October landings beginning in 2002 occurred during Quileute ceremonial and subsistence fishery.

[^7]:    a/ For earlier years see Review of 2013 Ocean Salmon Fisheries, Appendix C, Table C-4.

[^8]:    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/ Few er than three vessels. Values combined with next category to preserve confidentiality.
    d/ Landed on the coast and transported to Puget Sound for processing.

[^9]:    a/ Pink salmon excluded, except Oregon.

[^10]:    a/ First year moratorium in effect.
    b/ Preliminary.

